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SUBCHAPTER C—BROADCAST RADIO SERVICES

PARTS 70–72 [RESERVED]

PART 73—RADIO BROADCAST SERVICES

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Alphabetical Index—Part 73

AUTHORITY: 47 U.S.C. 154, 303, 334 and 336.

Subpart A—AM Broadcast Stations

§73.1 Scope.

This subpart contains those rules which apply exclusively to the AM broadcast service and are in addition to those rules in Subpart H which are common to all AM, FM and TV broadcast services, commercial and noncommercial.

[47 FR 8587, Mar. 1, 1982]

§73.14 AM broadcast definitions.

AM broadcast band. The band of frequencies extending from 535 to 1705 kHz.

AM broadcast channel. The band of frequencies occupied by the carrier and the upper and lower sidebands of an AM broadcast signal with the carrier frequency at the center. Channels are designated by their assigned carrier frequencies. The 117 carrier frequencies assigned to AM broadcast stations begin at 540 kHz and progress in 10 kHz steps to 1700 kHz. (See §73.21 for the classification of AM broadcast channels).

AM broadcast station. A broadcast station licensed for the dissemination of radio communications intended to be received by the public and operated on a channel in the AM broadcast band.

Amplitude modulated stage. The radio-frequency stage to which the modulator is coupled and in which the carrier wave is modulated in accordance with the system of amplitude modulation and the characteristics of the modulating wave.

Amplitude modulator stage. The last amplifier stage of the modulating wave amplitude modulates a radio-frequency stage.

Antenna current. The radio-frequency current in the antenna with no modulation.

Antenna input power. The product of the square of the antenna current and the antenna resistance at the point where the current is measured.

Antenna resistance. The total resistance of the transmitting antenna system at the operating frequency and at the point at which the antenna current is measured.

Auxiliary facility. An auxiliary facility is an AM antenna tower(s) separate from the main facility's antenna tower(s), permanently installed at the same site or at a different location, from which an AM station may broadcast for short periods without prior Commission authorization or notice to the Commission while the main facility is not in operation (*e.g.*, where tower work necessitates turning off the main antenna or where lightning has caused damage to the main antenna or transmission system) (*See* §73.1675).

Blanketing. The interference which is caused by the presence of an AM broadcast signal of one volt per meter (V/m) or greater strengths in the area adjacent to the antenna of the transmitting station. The 1 V/m contour is referred to as the blanket contour and

the area within this contour is referred to as the blanket area.

Carrier-amplitude regulation (Carrier shift). The change in amplitude of the carrier wave in an amplitude-modulated transmitter when modulation is applied under conditions of symmetrical modulation.

Combined audio harmonics. The arithmetical sum of the amplitudes of all the separate harmonic components. Root sum square harmonic readings may be accepted under conditions prescribed by the FCC.

Critical directional antenna. An AM broadcast directional antenna that is required, by the terms of a station authorization, to be operated with the relative currents and phases within the antenna elements at closer tolerances of deviation than those permitted under § 73.62 and observed with a high precision monitor capable of measuring these parameters.

Critical hours. The two hour period immediately following local sunrise and the two hour period immediately preceding local sunset.

Daytime. The period of time between local sunrise and local sunset.

Effective field; Effective field strength. The root-mean-square (RMS) value of the inverse distance fields at a distance of 1 kilometer from the antenna in all directions in the horizontal plane. The term ''field strength'' is synonymous with the term ''field intensity'' as contained elsewhere in this Part.

Equipment performance measurements. The measurements performed to determine the overall performance characteristics of a broadcast transmission system from point of program origination at main studio to sampling of signal as radiated. (See § 73.1590)

Experimental period. the time between 12 midnight local time and local sunrise, used by AM stations for tests, maintenance and experimentation.

Frequency departure. The amount of variation of a carrier frequency or center frequency from its assigned value.

Incidental phase modulation. The peak phase deviation (in radians) resulting from the process of amplitude modulation.

Input power. Means the product of the direct voltage applied to the last radio stage and the total direct current flowing to the last radio stage, measured without modulation.

Intermittent service area. Means the area receiving service from the groundwave of a broadcast station but beyond the primary service area and subject to some interference and fading.

Last radio stage. The radio-frequency power amplifier stage which supplies power to the antenna.

Left (or right) signal. The electrical output of a microphone or combination of microphones placed so as to convey the intensity, time, and location of sounds originated predominately to the listener's left (or right) of the center of the performing area.

Left (or right) stereophonic channel. The left (or right) signal as electrically reproduced in reception of AM stereophonic broadcasts.

Main channel. The band of audio frequencies from 50 to 10,000 Hz which amplitude modulates the carrier.

Maximum percentage of modulation. The greatest percentage of modulation that may be obtained by a transmitter without producing in its output, harmonics of the modulating frequency in excess of those permitted by these regulations. (See § 73.1570)

Maximum rated carrier power. The maximum power at which the transmitter can be operated satisfactorily and is determined by the design of the transmitter and the type and number of vacuum tubes or other amplifier devices used in the last radio stage.

Model I facility. A station operating in the 1605–1705 kHz band featuring fulltime operation with stereo, competitive technical quality, 10 kW daytime power, 1 kW nighttime power, non-directional antenna (or a simple directional antenna system), and separated by 400–800 km from other co-channel stations.

Model II facility. A station operating in the 535–1605 kHz band featuring fulltime operation, competitive technical quality, wide area daytime coverage with nighttime coverage at least 15% of the daytime coverage.

Nighttime. The period of time between local sunset and local sunrise.

Nominal power. The antenna input power less any power loss through a dissipative network and, for directional

antennas, without consideration of adjustments specified in paragraphs (b)(1) and (b)(2) of § 73.51 of the rules. However, for AM broadcast applications granted or filed before June 3, 1985, nominal power is specified in a system of classifications which include the following values: 50 kW, 25 kW, 10 kW, 5 kW, 2.5 kW, 1 kW, 0.5 kW, and 0.25 kW. The specified nominal power for any station in this group of stations will be retained until action is taken on or after June 3, 1985, which involves a change in the technical facilities of the station.

Percentage modulation (amplitude)

In a positive direction:

$$M = \frac{MAX - C \times 100}{c}$$

In a negative direction:

$$M = \frac{C - MIN \times 100}{c}$$

Where:

M = Modulation level in percent.

MAX = Instantaneous maximum level of the modulated radio frequency envelope.

MIN = Instantaneous minimum level of the modulated radio frequency envelope.

C = (Carrier) level of radio frequency envelope without modulation.

Plate modulation. The modulation produced by introduction of the modulating wave into the plate circuit of any tube in which the carrier frequency wave is present.

Primary service area. Means the service area of a broadcast station in which the groundwave is not subject to objectionable interference or objectionable fading.

Proof of performance measurements or antenna proof of performance measurements. The measurements of field strengths made to determine the radiation pattern or characteristics of an AM directional antenna system.

Secondary service area. Means the service area of a broadcast station served by the skywave and not subject to objectionable interference and in which the signal is subject to intermittent variations in strength.

Stereophonic channel. The band of audio frequencies from 50 to 10,000 Hz containing the stereophonic information which modulates the radio frequency carrier.

Stereophonic crosstalk. An undesired signal occurring in the main channel from modulation of the stereophonic channel or that occurring in the stereophonic channel from modulation of the main channel.

Stereophonic pilot tone. An audio tone of fixed or variable frequency modulating the carrier during the transmission of stereophonic programs.

Stereophonic separation. The ratio of the electrical signal caused in the right (or left) stereophonic channel to the electrical signal caused in the left (or right) stereophonic channel by the transmission of only a right (or left) signal.

Sunrise and sunset. For each particular location and during any particular month, the time of sunrise and sunset as specified in the instrument of authorization (See § 73.1209).

White area. The area or population which does not receive interference-free primary service from an authorized AM station or does not receive a signal strength of at least 1 mV/m from an authorized FM station.

[47 FR 8587, Mar. 1, 1982, as amended at 47 FR 13164, Mar. 29, 1982; 47 FR 13812, Apr. 1, 1982; 50 FR 18821, May 2, 1985; 50 FR 47054, Nov. 14, 1985; 56 FR 64856, Dec. 12, 1991; 62 FR 51058, Sept. 30, 1997]

EFFECTIVE DATE NOTE: At 62 FR 51058, Sept. 30, 1997, § 73.14 was amended by adding the definition *Auxiliary facility*, effective Dec. 1, 1997.

§ 73.21 Classes of AM broadcast channels and stations.

(a) *Clear channel.* A clear channel is one on which stations are assigned to serve wide areas. These stations are protected from objectionable interference within their primary service areas and, depending on the class of station, their secondary service areas. Stations operating on these channels are classified as follows:

(1) *Class A station.* A Class A station is an unlimited time station that operates on a clear channel and is designed to render primary and secondary service over an extended area and at relatively long distances from its transmitter. Its primary service area is protected from objectionable interference

from other stations on the same and adjacent channels, and its secondary service area is protected from interference from other stations on the same channel. (See § 73.182). The operating power shall not be less than 10 kW nor more than 50 kW. (Also see § 73.25(a)).

(2) *Class B station.* A Class B station is an unlimited time station which is designed to render service only over a primary service area. Class B stations are authorized to operate with a minimum power of 0.25 kW (or, if less than 0.25 kW, an equivalent RMS antenna field of at least 141 mV/m at 1 km) and a maximum power of 50 kW, or 10 kW for stations that are authorized to operate in the 1605–1705 kHz band.

(3) *Class D station.* A Class D station operates either daytime, limited time or unlimited time with nighttime power less than 0.25 kW and an equivalent RMS antenna field of less than 141 mV/m at one km. Class D stations shall operate with daytime powers not less than 0.25 kW nor more than 50 kW. Nighttime operations of Class D stations are not afforded protection and must protect all Class A and Class B operations during nighttime hours. New Class D stations that had not been previously licensed as Class B will not be authorized.

(b) *Regional Channel.* A regional channel is one on which Class B and Class D stations may operate and serve primarily a principal center of population and the rural area contiguous thereto.

NOTE: Until the North American Regional Broadcasting Agreement (NARBA) is terminated with respect to the Bahama Islands and the Dominican Republic, radiation toward those countries from a Class B station may not exceed the level that would be produced by an omnidirectional antenna with a transmitted power of 5 kW, or such lower level as will comply with NARBA requirements for protection of stations in the Bahama Islands and the Dominican Republic against objectionable interference.

(c) *Local channel.* A local channel is one on which stations operate unlimited time and serve primarily a community and the suburban and rural areas immediately contiguous thereto.

(1) *Class C station.* A Class C station is a station operating on a local channel and is designed to render service only over a primary service area that may be reduced as a consequence of interference in accordance with § 73.182. The power shall not be less than 0.25 kW, nor more than 1 kW. Class C stations that are licensed to operate with 0.1 kW may continue to do so.

[56 FR 64856, Dec. 12, 1991]

§ 73.23 AM broadcast station applications affected by international agreements.

(a) Except as provided in paragraph (b) of this section, no application for an AM station will be accepted for filing if authorization of the facilities requested would be inconsistent with international commitments of the United States under treaties and other international agreements, arrangements and understandings. (See list of such international instruments in § 73.1650(b)). Any such application that is inadvertently accepted for filing will be dismissed.

(b) AM applications that involve conflicts only with the North American Regional Broadcasting Agreement (NARBA), but that are in conformity with the remaining treaties and other international agreements listed in § 73.1650(b) and with the other requirements of this part 73, will be granted subject to such modifications as the FCC may subsequently find appropriate, taking international considerations into account.

(c) In the case of any application designated for hearing on issues other than those related to consistency with international relationships and as to which no final decision has been rendered, whenever action under this section becomes appropriate because of inconsistency with international relationships, the applicant involved shall, notwithstanding the provisions §§ 73.3522 and 73.3571, be permitted to amend its application to achieve consistency with such relationships. In such cases the provisions of § 73.3605(c) will apply.

(d) In some circumstances, special international considerations may require that the FCC, in acting on applications, follow procedures different from those established for general use. In such cases, affected applicants will

be informed of the procedures to be followed.

[56 FR 64856, Dec. 12, 1991]

§73.24 Broadcast facilities; showing required.

An authorization for a new AM broadcast station or increase in facilities of an existing station will be issued only after a satisfactory showing has been made in regard to the following, among others:

(a) That the proposed assignment will tend to effect a fair, efficient, and equitable distribution of radio service among the several states and communities.

(b) That a proposed new station (or a proposed change in the facilities of an authorized station) complies with the pertinent requirements of §73.37 of this chapter.

(c) That the applicant is financially qualified to construct and operate the proposed station.

(d) That the applicant is legally qualified. That the applicant (or the person or persons in control of an applicant corporation or other organization) is of good character and possesses other qualifications sufficient to provide a satisfactory public service.

(e) That the technical equipment proposed, the location of the transmitter, and other technical phases of operation comply with the regulations governing the same, and the requirements of good engineering practice.

(f) That the facilities sought are subject to assignment as requested under existing international agreements and the rules and regulations of the Commission.

(g) That the population within the 1 V/m contour does not exceed 1.0 percent of the population within the 25 mV/m contour: *Provided, however,* That where the number of persons within the 1 V/m contour is 300 or less the provisions of this paragraph are not applicable.

(h) That, in the case of an application for a Class B or Class D station on a clear channel, the proposed station would radiate, during two hours following local sunrise and two hours preceding local sunset, in any direction toward the 0.1 mV/m groundwave contour of a co-channel United States Class A station, no more than the maximum value permitted under the provisions of §73.187.

(i) That, for all stations, the daytime 5 mV/m contour encompasses the entire principal community to be served. That, for stations in the 535–1605 kHz band, 80% of the principal community is encompassed by the nighttime 5 mV/m contour or the nighttime interference-free contour, whichever value is higher. That, for stations in the 1605–1705 kHz band, 50% of the principal community is encompassed by the 5 mV/m contour or the nighttime interference-free contour, whichever value is higher. That, Class D stations with nighttime authorizations need not demonstrate such coverage during nighttime operation.

(j) That the public interest, convenience, and necessity will be served through the operation under the proposed assignment.

[28 FR 13574, Dec. 14, 1963, as amended at 38 FR 5874, Mar. 5, 1973; 49 FR 43960, Nov. 1, 1984; 50 FR 40014, Oct. 1, 1985; 52 FR 11654, Apr. 10, 1987; 53 FR 1031, Jan. 15, 1988; 56 FR 64857, Dec. 12, 1991]

§73.25 Clear channels; Class A, Class B and Class D stations.

The frequencies in the following tabulations are designated as clear channels and assigned for use by the Classes of stations given:

(a) On each of the following channels, one Class A station may be assigned, operating with power of 50 kW: 640, 650, 660, 670, 700, 720, 750, 760, 770, 780, 820, 830, 840, 870, 880, 890, 1020, 1030, 1040, 1100, 1120, 1160, 1180, 1200, and 1210 kHz. In Alaska, these frequencies can be used by Class A stations subject to the conditions set forth in §73.182(a)(1)(ii). On the channels listed in this paragraph, Class B and Class D stations may be assigned.

(b) To each of the following channels there may be assigned Class A, Class B and Class D stations: 680, 710, 810, 850, 940, 1000, 1060, 1070, 1080, 1090, 1110, 1130, 1140, 1170, 1190, 1500, 1510, 1520, 1530, 1540, 1550, and 1560 kHz.

NOTE: Until superseded by a new agreement, protection of the Bahama Islands shall be in accordance with NARBA. Accordingly, a Class A, Class B or Class D station on 1540 kHz shall restrict its signal to a value no

greater than 5 μV/m groundwave or 25 μV/m-10% skywave at any point of land in the Bahama Islands, and such stations operating nighttime (i.e., sunset to sunrise at the location of the U.S. station) shall be located not less than 650 miles from the nearest point of land in the Bahama Islands.

(c) Class A, Class B and Class D stations may be assigned on 540, 690, 730, 740, 800, 860, 900, 990, 1010, 1050, 1220, 1540, 1570, and 1580 kHz.

[28 FR 13574, Dec. 14, 1963, as amended at 33 FR 4410, Mar. 12, 1968; 35 FR 18052, Nov. 25, 1970; 47 FR 27862, June 28, 1982; 49 FR 43960, Nov. 1, 1984; 50 FR 24520, June 11, 1985; 52 FR 47568, Dec. 15, 1987; 53 FR 1031, Jan. 15, 1988; 54 FR 39736, Sept. 28, 1989; 56 FR 64857, Dec. 12, 1991]

§ 73.26 Regional channels; Class B and Class D stations.

(a) The following frequencies are designated as regional channels and are assigned for use by Class B and Class D stations: 550, 560, 570, 580, 590, 600, 610, 620, 630, 790, 910, 920, 930, 950, 960, 970, 980, 1150, 1250, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1350, 1360, 1370, 1380, 1390, 1410, 1420, 1430, 1440, 1460, 1470, 1480, 1590, 1600, 1610, 1620, 1630, 1640, 1650, 1660, 1670, 1680, 1690, and 1700 kHz.

(b) Additionally, in Alaska, Hawaii, Puerto Rico, and the U.S. Virgin Islands the frequencies 1230, 1240, 1340, 1400, 1450, and 1490 kHz are designated as Regional channels, and are assigned for use by Class B stations. Stations formerly licensed to these channels in those locations as Class C stations are redesignated as Class B stations.

[56 FR 64857, Dec. 12, 1991]

§ 73.27 Local channels; Class C stations.

Within the conterminous 48 states, the following frequencies are designated as local channels, and are assigned for use by Class C stations: 1230, 1240, 1340, 1400, 1450, and 1490 kHz.

[56 FR 64857, Dec. 12, 1991]

§ 73.28 Assignment of stations to channels.

(a) The Commission will not make an AM station assignment that does not conform with international requirements and restrictions on spectrum use that the United States has accepted as a signatory to treaties, conventions, and other international agreements. See § 73.1650 for a list of pertinent treaties, conventions and agreements, and § 73.23 for procedural provisions relating to compliance with them.

(b) Engineering standards now in force domestically differ in some respects from those specified for international purposes. The engineering standards specified for international purposes (see § 73.1650, International Agreements) will be used to determine:

(1) The extent to which interference might be caused by a proposed station in the United States to a station in another country; and

(2) whether the United States should register an objection to any new or changed assignment notified by another country. The domestic standards in effect in the United States will be used to determine the extent to which interference exists or would exist from a foreign station where the value of such interference enters into a calculation of:

(i) The service to be rendered by a proposed operation in the United States; or

(ii) the permissible interfering signal from one station in the United States to another United States station.

[28 FR 13574, Dec. 14, 1963, as amended at 29 FR 9499, July 11, 1964; 49 FR 32358, Aug. 14, 1984; 50 FR 18821, May 2, 1985; 54 FR 39736, Sept. 28, 1989; 56 FR 64857, Dec. 12, 1991]

§ 73.29 Class C stations on regional channels.

No license will be granted for the operation of a Class C station on a regional channel.

[56 FR 64857, Dec. 12, 1991]

§ 73.30 Petition for authorization of an allotment in the 1605–1705 kHz band.

(a) Any party interested in operating an AM broadcast station on one of the ten channels in the 1605–1705 kHz band must file a petition for the establishment of an allotment to its community of license. Each petition must include the following information:

(1) Name of community for which allotment is sought;

(2) Frequency and call letters of the petitioner's existing AM operation; and

(3) Statement as to whether or not AM stereo operation is proposed for the operation in the 1605–1705 kHz band.

(b) Petitions are to be filed during a filing period to be determined by the Commission. For each filing period, eligible stations will be allotted channels based on the following steps:

(1) Stations are ranked in descending order according to the calculated improvement factor.

(2) The station with the highest improvement factor is initially allotted the lowest available channel.

(3) Successively, each station with the next lowest improvement factor, is allotted an available channel taking into account the possible frequency and location combinations and relationship to previously selected allotments. If a channel is not available for the subject station, previous allotments are examined with respect to an alternate channel, the use of which would make a channel available for the subject station.

(4) When it has been determined that, in accordance with the above steps, no channel is available for the subject station, that station is no longer considered and the process continues to the station with the next lowest improvement factor.

(c) If awarded an allotment, a petitioner will have sixty (60) days from the date of public notice of selection to file an application for construction permit on FCC Form 301. (See §§73.24 and 73.37(e) for filing requirements). Unless instructed by the Commission to do otherwise, the application shall specify Model I facilities. (See §73.14). Upon grant of the application and subsequent construction of the authorized facility, the applicant must file a license application on FCC Form 302.

NOTE 1: Until further notice by the Commission, the filing of these petitions is limited to licensees of existing AM stations (excluding Class C stations) operating in the 535–1605 kHz band. First priority will be assigned to Class D stations located within the primary service contours of U.S. Class A stations that are licensed to serve communities of 100,000 or more for which there exists no local fulltime aural service.

NOTE 2: Selection among competing petitions will be based on interference reduction. Notwithstanding the exception contained in Note 5 of this section, within each operational category, the station demonstrating the highest value of improvement factor will be afforded the highest priority for an allotment, with the next priority assigned to the station with next lowest value, and so on, until available allotments are filled.

NOTE 3: The Commission will periodically evaluate the progress of the movement of stations from the 535–1605 kHz band to the 1605–1705 kHz band to determine whether the 1605–1705 kHz band should continue to be administered on an allotment basis or modified to an assignment method. If appropriate, the Commission will later develop further procedures for use of the 1605–1705 kHz band by existing station licensees and others.

NOTE 4: Other than the exception specified in note 1 of this section, existing fulltime stations are considered first for selection as described in note 2 of this section. In the event that an allotment availability exists for which no fulltime station has filed a relevant petition, such allotment may be awarded to a licensed Class D station. If more than one Class D station applies for this migration opportunity, the following priorities will be used in the selection process: First priority—a Class D station located within the 0.5 mV/m–50% contour of a U.S. Class A station and licensed to serve a community of 100,000 or more, for which there exists no local fulltime aural service; Second priority—Class D stations ranked in order of improvement factor, from highest to lowest, considering only those stations with improvement factors greater than zero.

NOTE 5: The preference for AM stereo in the expanded band will be administered as follows: when an allotment under consideration (candidate allotment) conflicts with one or more previously selected allotments (established allotments) and cannot be accommodated in the expanded band, the candidate allotment will be substituted for the previously established allotment provided that: the petitioner for the candidate allotment has made a written commitment to the use of AM stereo and the petitioner for the established allotment has not; the difference between the ranking factors associated with the candidate and established allotments does not exceed 10% of the ranking factor of the candidate allotment; the substitution will not require the displacement of more than one established allotment; and both the candidate allotment and the established allotment are within the same priority group.

[58 FR 27949, May 12, 1993]

§73.31 Rounding of nominal power specified on applications.

(a) An application filed with the FCC for a new station or for an increase in power of an existing station shall

specify nominal power rounded to two significant figures as follows:

Nominal power (kW)	Rounded down to nearest figure (kW)
Below 0.25	0.001
0.25 to 0.99	0.01
1 to 9.9	0.1
10 to 50	1

(b) In rounding the nominal power in accordance with paragraph (a) of this section the RMS shall be adjusted accordingly. If rounding upward to the nearest figure would result in objectionable interference, the nominal power specified on the application is to be rounded downward to the next nearest figure and the RMS adjusted accordingly.

[50 FR 18821, May 2, 1985, as amended at 53 FR 1031, Jan. 15, 1988]

73.33 Antenna systems; showing required.

(a) An application for authority to install a broadcast antenna shall specify a definite site and include full details of the antenna design and expected performance.

(b) All data necessary to show compliance with the terms and conditions of the construction permit must be filed with the license application. If the station is using a directional antenna, a proof of performance must also be filed.

[28 FR 13574, Dec. 14, 1963, as amended at 37 FR 25840, Dec. 5, 1972]

§73.35 Calculation of improvement factors.

A petition for an allotment (See §73.30) in the 1605–1705 kHz band filed by an existing fulltime AM station licensed in the 535–1605 kHz band will be ranked according to the station's calculated improvement factor. (See §73.30). Improvement factors relate to both nighttime and daytime interference conditions and are based on two distinct considerations: (a) Service area lost by other stations due to interference caused by the subject station, and (b) service area of the subject station. These considerations are represented by a ratio. The ratio consists, where applicable, of two separate additive components, one for nighttime and one for daytime. For the nighttime component, to determine the numerator of the ratio (first consideration), calculate the RSS and associated service area of the stations (co- and adjacent channel) to which the subject station causes nighttime interference. Next, repeat the RSS and service area calculations excluding the subject station. The cumulative gain in the above service area is the numerator of the ratio. The denominator (second consideration) is the subject station's interference-free service area. For the daytime component, the composite amount of service lost by co-channel and adjacent channel stations, each taken individually, that are affected by the subject station, excluding the effects of other assignments during each study, will be used as the numerator of the daytime improvement factor. The denominator will consist of the actual daytime service area (0.5 mV/m contour) less any area lost to interference from other assignments. The value of this combined ratio will constitute the petitioner's improvement factor. Notwithstanding the requirements of §73.153, for uniform comparisons and simplicity, measurement data will not be used for determining improvement factors and FCC figure M-3 ground conductivity values are to be used exclusively in accordance with the pertinent provisions of §73.183(c)(1).

[56 FR 64858, Dec. 12, 1991]

§73.37 Applications for broadcast facilities, showing required.

(a) No application will be accepted for a new station if the proposed operation would involve overlap of signal strength contours with any other station as set forth below in this paragraph; and no application will be accepted for a change of the facilities of an existing station if the proposed change would involve such overlap where there is not already such overlap between the stations involved:

Frequency separation (kHz)	Contour of proposed station (classes B, C and D) (mV/m)	Contour of any other station (mV/m)
0	0.005	0.100 (Class A).
	0.025	0.500(Other classes).
	0.500	0.025 (All classes).
10	0.250	0.500(All classes).
	0.500	0.250 (All classes).
20	5	5 (All classes).
	5	5 (All classes).
30	25	25 (All classes).

(b) In determining overlap received, an application for a new Class C station with daytime power of 250 watts, or greater, shall be considered on the assumption that both the proposed operation and all existing Class C stations operate with 250 watts and utilize non-directional antennas.

(c) If otherwise consistent with the public interest, an application requesting an increase in the daytime power of an existing Class C station on a local channel from 250 watts to a maximum of 1kW, or from 100 watts to a maximum of 500 watts, may be granted notwithstanding overlap prohibited by paragraph (a) of this section. In the case of a 100 watt Class C station increasing daytime power, the provisions of this paragraph shall not be construed to permit an increase in power to more than 500 watts, if prohibited overlap would be involved, even if successive applications should be tendered.

(d) In addition to demonstrating compliance with paragraphs (a), and, as appropriate, (b), and (c) of this section, an application for a new AM broadcast station, or for a major change (see §73.3571(a)(1)) in an authorized AM broadcast station, as a condition for its acceptance, shall make a satisfactory showing, if new or modified nighttime operation by a Class B station is proposed, that objectionable interference will not result to an authorized station, as determined pursuant to §73.182(1).

(e) An application for an authorization in the 1605–1705 kHz band which has been selected through the petition process (See §73.30) is not required to demonstrate compliance with paragraph (a), (b), (c), or (d) of this section. Instead, the applicant need only comply with the terms of the allotment authorization issued by the Commission in response to the earlier petition for establishment of a station in the 1605–1705 kHz band. Within the allotment authorization, the Commission will specify the assigned frequency and the applicable technical requirements.

(f) Stations on 1580, 1590 and 1600 kHz. In addition to the rules governing the authorization of facilities in the 535–1605 kHz band, stations on these frequencies seeking facilities modifications must protect assignments in the 1610–1700 kHz band. Such protection shall be afforded in a manner which considers the spacings that occur or exist between the subject station and a station within the range 1605–1700 kHz. The spacings are the same as those specified for stations in the frequency band 1610–1700 kHz or the current separation distance, whichever is greater. Modifications that would result in a spacing or spacings that fails to meet any of the separations must include a showing that appropriate adjustment has been made to the radiated signal which effectively results in a site-to-site radiation that is equivalent to the radiation of a station with standard Model I facilities (10 kW–D, 1 kW–N, non-DA, 90 degree antenna ht. & ground system) operating in compliance with all of the above separation distances. In those cases where that radiation equivalence value is already exceeded, a station may continue to maintain, but not increase beyond that level.

NOTE 1: In the case of applications for changes in the facilities of AM broadcast stations covered by this section, an application will be accepted even though overlap of field strength contours as mentioned in this section would occur with another station in an area where such overlap does not already exist, if:

(1) The total area of overlap with that station would not be increased;

(2) There would be no net increase in the area of overlap with any other station; and

(3) There would be created no area of overlap with any station with which overlap does not now exist.

NOTE 2: The provisions of this section concerning prohibited overlap of field strength contours will not apply where:

(1) The area of overlap lies entirely over sea water: or

(2) The only overlap involved would be that caused to a foreign station, in which case the

provisions of the applicable international agreement, as identified in § 73.1650, will apply. When overlap would be received from a foreign station, the provisions of this section will apply, except where there would be overlap with a foreign station with a frequency separation of 20 kHz, in which case the provisions of the international agreement will apply in lieu of this section.

NOTE 3: In determining the number of ''authorized'' aural transmission facilities in a given community, applications for that community in hearing or otherwise having protected status under specified ''cut-off'' procedures shall be considered as existing stations. In the event that there are two or more mutually exclusive protected applications seeking authorization for the proposed community it will be assumed that only one is ''authorized.''

NOTE 4: A ''transmission facility'' for a community is a station licensed to the community. Such a station provides a ''transmission service'' for that community.

[56 FR 64858, Dec. 12, 1991; 57 FR 43290, Sept. 18, 1992]

§ 73.44 AM transmission system emission limitations.

(a) The emissions of stations in the AM service shall be attenuated in accordance with the requirements specified in paragraph (b) of this section. Emissions shall be measured using a properly operated and suitable swept-frequency RF spectrum analyzer using a peak hold duration of 10 minutes, no video filtering, and a 300 Hz resolution bandwidth, except that a wider resolution bandwidth may be employed above 11.5 kHz to detect transient emissions. Alternatively, other specialized receivers or monitors with appropriate characteristics may be used to determine compliance with the provisions of this section, provided that any disputes over measurement accuracy are resolved in favor of measurements obtained by using a calibrated spectrum analyzer adjusted as set forth above.

(b) Emissions 10.2 kHz to 20 kHz removed from the carrier must be attenuated at least 25 dB below the unmodulated carrier level, emissions 20 kHz to 30 kHz removed from the carrier must be attenuated at least 35 dB below the unmodulated carrier level, emissions 30 kHz to 60 kHz removed from the carrier must be attenuated at least [5 + 1 dB/kHz] below the unmodulated carrier level, and emissions between 60 kHz and 75 kHz of the carrier frequency must be attenuated at least 65 dB below the unmodulated carrier level. Emissions removed by more than 75 kHz must be attenuated at least 43 + 10 Log (Power in watts) or 80 dB below the unmodulated carrier level, whichever is the lesser attenuation, except for transmitters having power less than 158 watts, where the attenuation must be at least 65 dB below carrier level.

(c) Should harmful interference be caused to the reception of other broadcast or non-broadcast stations by out of band emissions, the licensee may be directed to achieve a greater degree of attentuation than specified in paragraphs (a) and (b) of this section.

(d) Measurements to determine compliance with this section for transmitter type acceptance are to be made using signals sampled at the output terminals of the transmitter when operating into an artificial antenna of substantially zero reactance. Measurements made of the emissions of an operating station are to be made at ground level approximately 1 kilometer from the center of the antenna system. When a directional antenna is used, the carrier frequency reference field strength to be used in order of preference shall be:

(1) The measure non-directional field strength.

(2) The RMS field strength determined from the measured directional radiation pattern.

(3) The calculated expected field strength that would be radiated by a non-directional antenna at the station authorized power.

(e) Licensees of stations complying with the ANSI/EIA–549–1988, NRSC–1 AM Preemphasis/Deemphasis and Broadcast Transmission Bandwidth Specifications (NRSC–1), prior to June 30, 1990 or from the original commencement of operation will, until June 30, 1994, be considered to comply with paragraphs (a) and (b) of this section, absent any reason for the Commission to believe otherwise. Such stations are waived from having to make the periodic measurements required in § 73.1590(a)(6) until June 30, 1994. However, licensees must make measurements to determine compliance with

paragraphs (a) and (b) of this section upon receipt of an Official Notice of Violation or a Notice of Apparent Liability alleging noncompliance with those provisions, or upon specific request by the Commission.

[47 FR 8588, Mar. 1, 1982, as amended at 49 FR 3999, Feb. 1, 1984]

§73.45 AM antenna systems.

(a) All applicants for new, additional, or different AM station facilities and all licensees requesting authority to change the transmitting system site of an existing station must specify an antenna system, the efficiency of which complies with the requirements for the class and power of station. (See §§73.186 and 73.189.)

(1) An application for authority to install an AM broadcast antenna must specify a definite site and include full details of the antenna system design and expected performance.

(2) All data necessary to show compliance with the terms and conditions of the construction permit must be filed with the application for the station license to cover the construction. If the station has constructed a directional antenna, a directional proof of performance must be filed. See §§73.150 through 73.157.

(b) The simultaneous use of a common antenna or antenna structure by more than one AM station or by a station of any other type or service may be authorized provided:

(1) Engineering data are submitted showing that satisfactory operation of each station will be obtained without adversely affecting the operation of the other station(s).

(2) The minimum field strength for each AM station complies with §73.189(b).

(c) Should any changes be made or otherwise occur which would possibly alter the resistance of the antenna system, the licensee must commence the determination of the operating power by a method described in §73.51(a)(1) or (d). (If the changes are due to the construction of FM or TV transmitting facilities, see §§73.316 and 73.685.) Upon completion of any necessary repairs or adjustments, or upon completion of authorized construction or modifications, the licensee must make a new determination of the antenna resistance using the procedures described in §73.54. Operating power should then be determined by a direct method as described in §73.51. Notification of the value of resistance of the antenna system must be filed with the FCC in Washington, DC., as follows:

(1) Whenever the measurements show that the antenna or common point resistance differs from that shown on the station authorization by more than 2%, FCC Form 302 must be filed with the information and measurement data specified in §73.54(d).

(2) Whenever AM stations use direct reading power meters pursuant to §73.51, notification to the FCC in Washington, DC, must be filed in accordance with §73.54(e).

[43 FR 53735, Nov. 17, 1978, as amended at 45 FR 28141, Apr. 28, 1980; 47 FR 8589, Mar. 1, 1982; 50 FR 32416, Aug. 12, 1985; 51 FR 2707; Jan. 21, 1986; 51 FR 26250, July 22, 1986]

§73.49 AM transmission system fencing requirements.

Antenna towers having radio frequency potential at the base (series fed, folded unipole, and insulated base antennas) must be enclosed within effective locked fences or other enclosures. Ready access must be provided to each antenna tower base for meter reading and maintenance purposes at all times. However, individual tower fences need not be installed if the towers are contained within a protective property fence.

[51 FR 2707, Jan. 21, 1986]

§73.51 Determining operating power.

(a) Except in those circumstances described in paragraph (d) of this section, the operating power shall be determined by the direct method. The direct method consists of either:

(1) using a suitable instrument for determining the antenna's input power directly from the RF voltage, RF current, and phase angle; or

(2) calculating the product of the licensed antenna or common point resistance at the operating frequency (see §73.54), and the square of the indicated unmodulated antenna current at that frequency, measured at the point where the resistance has been determined.

(b) The authorized antenna input power for each station shall be equal to the nominal power for such station, with the following exceptions:

(1) For stations with nominal powers of 5 kW, or less, the authorized antenna input power to directional antennas shall exceed the nominal power by 8 percent.

(2) For stations with nominal powers in excess of 5 kW, the authorized antenna input power to directional antennas shall exceed the nominal power by 5.3 percent.

(3) In specific cases, it may be necessary to limit the radiated field to a level below that which would result if normal power were delivered to the antenna. In such cases, excess power may be dissipated in the antenna feed circuit, the transmitter may be operated with power output at a level which is less than the rated carrier power, or a combination of the two methods may be used, subject to the conditions given in paragraph (c) of this section.

(i) Where a dissipative network is employed, the authorized antenna current and resistance, and the authorized antenna input power shall be determined at the input terminals of the dissipative network.

(ii) Where the authorized antenna input power is less than the nominal power, subject to the conditions set forth in paragraph (c) of this section, the transmitter may be operated at the reduced power level necessary to supply the authorized antenna input power.

(c) Applications for authority to operate with antenna input power which is less than nominal power and/or to employ a dissipative network in the antenna system shall be made on FCC Form 302. The technical information supplied on section II–A of this form shall be that applying to the proposed conditions of operation. In addition, the following information shall be furnished, as pertinent:

(1) Full details of any network employed for the purpose of dissipating radio frequency energy otherwise delivered to the antenna (see § 73.54).

(2) A showing that the transmitter has been type accepted or notified for operation at the proposed power output level, or, in lieu thereof:

(i) A full description of the means by which transmitter output power will be reduced.

(ii) Where the proposed transmitter power output level(s) is less than 90% of the rated power of the transmitter, equipment performance measurements must be made to confirm that the station transmissions conform to the emission limitation specified in § 73.44, under all conditions of program operation.

(iii) A showing that, at the proposed power output level, means are provided for varying the transmitter output within a tolerance of ±10 percent, to compensate for variations in line voltage or other factors which may affect the power output level.

(d) When it is not possible or appropriate to use the direct method of power determination due to technical reasons, the indirect method of determining operating power (see paragraphs (e) and (f) of this section) may be used on a temporary basis. A notation must be made in the station log indicating the dates of commencement and termination of measurement using the indirect method of power determination.

(e) The antenna input power is determined indirectly by applying an appropriate factor to the input power to the last radio-frequency power amplifier stage of the transmitter, using the following formula:

Where:

$$\text{Antenna input power} = Ep \times Ip \times F$$

Ep=DC input voltage of final radio stage.

Ip=Total DC input current of final radio stage.

F= Efficiency factor.

(1) If the above formula is not appropriate for the design of the transmitter final amplifier, use a formula specified by the transmitter manufacturer with other appropriate operating parameters.

(2) The value of *F* applicable to each mode of operation must be determined and a record kept thereof with a notation as to its derivation. This factor is to be established by one of the methods described in paragraph (f) of this section and retained in the station records.

(f) The value of *F* is to be determined by one of the following procedures listed in order of preference:

(1) If the station had previously been authorized and operating by determining the antenna input power by the direct method, the factor *F* is the ratio of the antenna input power (determined by the direct method) to the corresponding final radio frequency power amplifier input power.

(2) If a station has not been previously in regular operation with the power authorized for the period of indirect power determination, if a new transmitter has been installed, or if, for any other reason, the determination of the factor *F* by the method described in paragraph (f)(1) of this section is impracticable:

(i) The factor *F* as shown in the transmitter manufacturer's test report, if such a test report specifies a unique value of *F* for the power level and frequently used; or

(ii) The value determined by reference to the following table:

Factor(F)	Method of modulation	Maximum rated carrier power	Class of amplifier
0.70	Plate	1 kW or less	
.80	Plate	2.5 kW and over	
.35	Low level	0.25 kW and over	B.
.65	Low level	0.25 kW and over	BC[1].
.35	Grid	0.25 kW and over	

[1]All linear amplifier operation where efficiency approaches that of class C operation.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, as amended, 1068, 1082, as amended; 47 U.S.C. 154, 155, 303. Interpret or apply secs. 301, 303, 307, 48 Stat. 1081, 1082, as amended, 47 U.S.C. 301, 303, 307)

[37 FR 7516, Apr. 15, 1972, as amended at 42 FR 36827, July 18, 1977; 42 FR 61863, Dec. 7, 1977; 44 FR 36036, June 20, 1979; 47 FR 28387, June 30, 1982; 48 FR 38477, Aug. 24, 1983; 48 FR 44805, Sept. 30, 1983; 49 FR 3999, Feb. 1, 1984; 49 FR 4210, Feb. 3, 1984; 49 FR 49850, Dec. 24, 1984; 50 FR 24521, June 11, 1985; 52 FR 10570, Apr. 2, 1987]

§ 73.53 Requirements for authorization of antenna monitors.

(a) *General requirements.* (1) Antenna monitors shall be type approved or notifed by the FCC. Effective March 5, 1984, only grants of notification will be issued for antenna monitors.

(2) Notification can be obtained by following the procedures specified in subpart J of part 2 of the FCC's Rules.

(b) An antenna monitor eligible for authorization by the FCC shall meet the following specifications:

(1) The monitor shall be designed to operate in the 535–1705 kHz band.

(2) The monitor shall be capable of indicating any phase difference between two RF voltages of the same frequency over a range of from 0 to 360°.

(3) The monitor shall be capable of indicating the relative amplitude of two RF voltages.

(4) The device used to indicate phase differences shall indicate in degrees, and shall be graduated in increments of 2°, or less. If a digital indicator is provided, the smallest increment shall be 0.5°, or less.

(5) The device used to indicate relative amplitudes shall be graudated in increments which are 1 percent, or less, of the full scale value. If a digital indicator is provided, the smallest increment shall be 0.1 percent, or less, of the full scale value.

(6) The monitor shall be equipped with means, if necessary, to resolve ambiguities in indication.

(7) If the monitor is provided with more than one RF input terminal in addition to a reference input terminal, appropriate switching shall be provided in the monitor so that the signal at each of these RF inputs may be selected separately for comparison with the reference input signal.

(8) Each RF input of the monitor shall provide a termination of such characteristics that, when connected to a sampling line of an impedance specified by the manufacturer the voltage reflection coefficient shall be 3 percent or less.

(9) The monitor, if intended for use by stations operating directional antenna systems by remote control, shall be designed so that the switching functions required by paragraph (b)(7) of this section may be performed from a point external to the monitor, and phase and amplitude indications be provided by external meters. The indications of external meters furnished by the manufacturer shall meet the specifications for accuracy and repeatability of the monitor itself, and the connection of these meters to the monitor, or of other indicating instruments with electrical characteristics

meeting the specifications of the monitor manufacturer shall not affect adversely the performance of the monitor in any respect.

(10) The monitor must be accompanied by complete and correct schematic diagrams and operating instructions when submitted for type approval. When approved under notification, these materials shall be retained by the applicant and not submitted unless otherwise requested by the FCC. For the purpose of the equipment authorization, these diagrams and instructions shall be considered as part of the monitor.

(11) When an RF signal of an amplitude within a range specified by the manufacturer is applied to the reference RF input terminal of the monitor, and another RF signal of the same frequency and of equal or lower amplitude is applied to any other selected RF input terminal, indications shall be provided meeting the following specifications.

(i) The accuracy with which any difference in the phases of the applied signals is indicated shall be ±1°,or better, for signal amplitude ratios of from 2:1 to 1:1, and ±2°,or better, for signal amplitude ratios in excess of 2:1 and up to 5:1.

(ii) The repeatability of indication of any difference in the phases of the applied signals shall be ±1°, or better.

(iii) The accuracy with which the relative amplitudes of the applied signals is indicated, over a range in which the ratio of these amplitudes is between 2:1 and 1:1, shall be ±2 percent of the amplitude ratio, or better, and for amplitude ratios in excess of 2:1 and up to 5:1, ±5 percent of the ratio, or better.

(iv) The repeatability of indication of the relative amplitudes of the applied signals, over a range where the ratio of these amplitudes is between 5:1 and 1:1, shall be ±2 percent of the amplitude ratio, or better.

(v) The modulation of the RF signals by a sinusoidal wave of any frequency between 100 and 10,000 Hz, at any amplitude up to 90 percent shall cause no deviation in an indicated phase difference from its value, as determined without modulation, greater than ±0.5°.

(12) The performance specifications set forth in paragraph (c)(13) of this section, shall be met when the monitor is operated and tested under the following conditions.

(i) After continuous operation for 1 hour, the monitor shall be calibrated and adjusted in accordance with the manufacturer's instructions.

(ii) The monitor shall be subjected to variations in ambient temperature between the limits of 10 and 40°C; external meters furnished by the manufacturer will be subjected to variations between 15 and 30°C.

(iii) Powerline supply voltage shall be varied over a range of from 10 percent below to 10 percent above the rated supply voltage.

(iv) The amplitude of the reference signal shall be varied over the operating range specified by the manufacturer, and in any case over a range of maximum to minimum values of 3 to 1.

(v) The amplitude of the comparison signal shall be varied from a value which is 0.2 of the amplitude of the reference signal to a value which is equal in amplitude to the reference signal.

(vi) Accuracy shall be determined for the most adverse combination of conditions set forth above.

(vii) Repeatability shall be determined as that which may be achieved under the specified test conditions over a period of 7 days, during which no calibration or adjustment of the instrument, subsequent to the initial calibration, shall be made.

(viii) The effects of modulation of the RF signal shall be separately determined, and shall not be included in establishing values for accuracy and repeatability.

(c) A station determined to have a critical directional antenna must use an antenna monitor having high tolerance characteristics determined on an individual basis, and specified on the station authorization. Such monitors are not subject to the authorization of paragraph (a), however they may be used only at the station for which they were specified.

NOTE: In paragraph (b)(1) of this section, the requirement that monitors be capable of operation in the 535–1705 kHz band shall apply only to equipment manufactured after July 1, 1992. Use of a monitor in the 1605–1705

kHz band which is not approved for such operation will be permitted pending the general availability of 535–1705 kHz band monitors if a manufacturer can demonstrate, in the interim, that its monitor performs in accordance with the standards in this section on these 10 channels.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[38 FR 1917, Jan. 19, 1973, as amended at 49 FR 3999, Feb. 1, 1984; 49 FR 29069, July 18, 1984; 50 FR 32416, Aug. 12, 1985; 50 FR 47054, Nov. 14, 1985; 51 FR 2707, Jan. 21, 1986; 56 FR 64859, Dec. 12, 1991; 57 FR 43290, Sept. 18, 1992; 60 FR 55480, Nov. 1, 1995]

§73.54 Antenna resistance and reactance measurements.

(a) The resistance of an omnidirectional series fed antenna is measured at either the base of the antenna without intervening coupling or tuning networks, or at the point the transmission line connects to the output terminals of the transmitter. The resistance of a shunt excited antenna may be measured at the point the radio frequency energy is transferred to the feed wire circuit or at the output terminals of the transmitter.

(b) The resistance and reactance of a directional antenna shall be measured at the point of common radiofrequency input to the directional antenna system. The following conditions shall obtain:

(1) The antenna shall be finally adjusted for the required radiation pattern.

(2) The reactance at the operating frequency and at the point of measurement shall be adjusted to zero, or as near thereto as practicable.

(c)(1) The resistance of an antenna shall be determined by the following procedure: A series of discrete measurements shall be made over a band of frequencies extending from approximately 25 kHz below the operating frequency to approximately 25 kHz above that frequency, at intervals of approximately 5 kHz. The measured values shall be plotted on a linear graph, with frequency as the abscissa and resistance as the ordinate. A smooth curve shall be drawn through the plotted values. The resistance value corresponding to the point of intersection of the curve and the ordinate representing the operating frequency of the station shall be the resistance of the antenna.

(2) For a directional antenna, the reactance of the antenna shall be determined by a procedure similar to that described in paragraph (c)(1) of this section.

(d) Notification must be filed with the FCC in Washington, DC when determining power by the direct method pursuant to §73.51 and must specify the antenna or common point resistance at the operating frequency. The following information must also be kept on file at the station:

(1) A full description of the method used to make measurements.

(2) A schematic diagram showing clearly all components of coupling circuits, the point of resistance measurement, the location of the antenna ammeter, connections to and characteristics of all tower lighting isolation circuits, static drains, and any other fixtures connected to and supported by the antenna, including other antennas and associated networks. Any network or circuit component used to dissipate radio frequency power shall be specifically identified, and the impedances of all components which control the level of power dissipation, and the effective input resistance of the network must be indicated.

(e) AM stations using direct reading power meters in accordance with §73.51, can either submit the information required by paragraph (d) of this section or submit a statement indicating that such a meter is being used. Subsequent station licenses will indicate the use of a direct reading power meter in lieu of the antenna resistance value in such a situation.

[34 FR 18305, Nov. 15, 1969, as amended at 37 FR 7517, Apr. 15, 1972; 45 FR 26062, Apr. 17, 1980; 49 FR 49850, Dec. 24, 1984; 50 FR 32416, Aug. 12, 1985; 51 FR 2707, Jan. 21, 1986; 51 FR 26250, July 22, 1986]

§73.57 Remote reading antenna and common point ammeters.

Remote reading antenna and common point ammeters may be used without further authority according to the following conditions:

(a) Remote reading antenna or common point ammeters may be provided by:

(1) Inserting second radio frequency current sensing device directly in the antenna circuit with remote leads to the indicating instruments.

(2) Inductive coupling to radio frequency current sensing device for providing direct current to indicating instrument.

(3) Capacity coupling to radio frequency current sensing device for providing direct current to indicating instrument.

(4) Current transformer connected to radio frequency current sensing device for providing direct current to indicating instrument.

(5) Using transmission line current meter at transmitter as remote reading ammeter. See paragraph (c) of this section.

(6) Using the indications of the antenna (phase) monitor, provided that when the monitor is used to obtain remote reading indication of non-directional antenna base current, the monitor calibration can be independently made and maintained for each mode of operation.

(b) Devices used for obtaining remote reading antenna or common point current indications, except antenna monitor coupling elements, shall be located at the same point as, but below (transmitter side) the associated main ammeter.

(c) In the case of shunt-excited antennas, the transmission line current meter at the transmitter may be considered as the remote antenna ammeter provided the transmission line is terminated directly into the excitation circuit feed line, which shall employ series tuning only (no shunt circuits of any type shall be employed) and insofar as practicable, the type and scale of the transmission line meter should be the same as those of the excitation circuit feed line meter (meter in slant wire feed line or equivalent).

(d) Each remote reading ammeter shall be accurate to within 2 percent of the value read on its corresponding regular ammeter.

(e) All remote reading ammeters shall conform with the specifications for regular antenna ammeters.

(f) Meters with arbitrary scale divisions may be used provided that calibration charts or curves are provided at the transmitter control point showing the relationship between the arbitrary scales and the reading of the main meters.

(g) If a malfunction affects the remote reading indicators of the antenna or common point ammeter, the operating power may be determined by a method using alternative procedures as described in § 73.51.

[41 FR 36817, Sept. 1, 1976, as amended at 48 FR 38477, Aug. 24, 1983; 49 FR 49850, Dec. 24, 1984; 50 FR 32416, Aug. 12, 1985; 60 FR 55480, Nov. 1, 1995]

§ 73.58 Indicating instruments.

(a) Each AM broadcast station must be equipped with indicating instruments which conform with the specifications described in § 73.1215 for determining power by the direct and indirect methods, and with such other instruments as are necessary for the proper adjustment, operation, and maintenance of the transmitting system. However, auxiliary transmitters with a nominal power rating of 100 watts or less are not required to be equipped with instruments to determine power by the indirect method provided that the licensee can determine the antenna input power at all times.

(b) A thermocouple type ammeter or other device capable of providing an indication of radio frequency current, meeting the requirements of § 73.1215, shall be installed at the base of each antenna element. A suitable jack and plug arrangement may be used to permit removal of the meter from the antenna circuit thereby protecting it from damage by lighting.

(c) Since it is usually impractical to measure the actual antenna current of a shunt excited antenna system, the current measured at the input of the excitation circuit feed line is accepted as the antenna current.

(d) The function of each instrument shall be clearly and permanently shown on the instrument itself or on the panel immediately adjacent thereto.

(e) In the event that any one of these indicating instruments becomes defective when no substitute which conforms with the required specifications

is available, the station may be operated without the defective instrument pending its repair or replacement for a period not in excess of 60 days without further authority of the Commission: *Provided*, That:

(1) If the defective instrument is an antenna base current ammeter of a directional antenna system, the indications may be obtained from the antenna monitor pending the return to service of the regular meter, provided other parameters are maintained at their normal values.

(2) If the defective instrument is the antenna current meter of a non-directional station which does not employ a remote antenna ammeter, or if the defective instrument is the common point meter of a station which employs a directional antenna and does not employ a remote common point meter, the operating power shall be determined by a method described in §73.51(a)(1) or (d) during the entire time the station is operated without the antenna current meter or common point meter. However, if a remote meter is employed and the antenna current ammeter or common point meter becomes defective, the remote meter can be used to determine operating power pending the return to service of the regular meter.

(f) If conditions beyond the control of the licensee prevent the restoration of the meter to service within the above allowed period, information requested in accordance with §73.3549 may be filed with the Engineer in Charge of the radio district in which the station is located for such additional time as may be required to complete repairs of the defective instrument.

[41 FR 36817, Sept. 1, 1976, as amended at 48 FR 38477, Aug. 24, 1983; 49 FR 49850, Dec. 24, 1984; 50 FR 32416, Aug. 12, 1985; 51 FR 2707, Jan. 21, 1986; 53 FR 2498, Jan. 28, 1988]

§73.61 AM directional antenna field strength measurements.

(a) Each AM station using a directional antenna must make field strength measurements at the monitoring point locations specified in the instrument of authorization, as often as necessary to ensure that the field at those points does not exceed the values specified in the station authorization. Additionally, stations not having an approved sampling system must make the measurements once each calendar quarter at intervals not exceeding 120 days. The provision of this paragraph supersedes any schedule specified on a station license issued prior to January 1, 1986. The results of the measurements are to be entered into the station log pursuant to the provisions of §73.1820.

(b) Partial proof of performance measurements using the procedures described in §73.154 must be made whenever the licensee has reason to believe that the radiated field may be exceeding the limits for which the station was most recently authorized to operate.

(c) A station may be directed to make a partial proof of performance by the FCC whenever there is an indication that the antenna is not operating as authorized.

[50 FR 47054, Nov. 14, 1985]

§73.62 Directional antenna system tolerances.

(a) Each AM station operating a directional antenna must maintain the indicated relative amplitudes of the antenna base currents and antenna monitor currents within 5% of the values specified therein. Directional antenna relativephase currents must be maintained to within ±3° of the values specified on the instrument of authorization, unless other tolerances are specified therein.

(b) Whenever the operating parameters of a directional antenna cannot be maintained within the tolerances specified in paragraph (a) of this section, the following procedures will apply:

(1) The licensee shall measure and log every monitoring point at least once for each mode of directional operation. Subsequent variations in operating parameters will require the remeasuring and logging of every monitoring point to assure that the authorized monitoring point limits are not being exceeded.

(2) Provided each monitoring point is within its specified limit, operation may continue for a period up to 30 days before a request for Special Temporary Authority (STA) must be filed, pursuant to paragraph (b)(4) of this section,

to operate with parameters at variance from the provisions of paragraph (a) of this section.

(3) If any monitoring point exceeds its specified limit, the licensee must either terminate operation within 3 hours or reduce power in accordance with the applicable provisions of § 73.1350(d), in order to eliminate any possibility of interference or excessive radiation in any direction.

(4) If operation pursuant to paragraph (b)(3) of this section is necessary, or before the 30 day period specified in paragraph (b)(2) of this section expires, the licensee must request a Special Temporary Authority (STA) in accordance with § 73.1635 to continue operation with parameters at variance and/or with reduced power along with a statement certifying that all monitoring points will be continuously maintained within their specified limits.

(5) The licensee will be permitted 24 hours to accomplish the actions specified in paragraph (b)(1) of this section; *provided that,* the date and time of the failure to maintain proper operating parameters has been recorded in the station log.

(c) In any other situation in which it might reasonably be anticipated that the operating parameters might vary out of tolerance (such as planned array repairs or adjustment and proofing procedures), the licensee shall, *before such activity is undertaken,* obtain an STA in accordance with § 73.1635 in order to operate with parameters at variance and/or with reduced power as required to maintain all monitoring points within their specified limits.

[50 FR 30946, July 31, 1985, as amended at 60 FR 55480, Nov. 1, 1995]

§ 73.68 Sampling systems for antenna monitors.

(a) Each AM station permittee authorized to construct a new directional antenna system, must install the sampling system in accordance with the following specifications:

(1) Devices used to extract or sample the current and the transmission line connecting the sampling elements to the antenna monitor must provide accurate and stable signals to the monitor (e.g., rigidly mounted and non-rotatable loops and all system components protected from physical and environmental disturbances).

(2) Sampling lines for critical directional antennas (see § 73.14) must be of uniform length. Sampling lines for non-critical directional antennas may be of different lengths provided the phase difference of signals at the monitor are less than 0.5° between the shortest and longest cable lengths due to temperature variations to which the system is exposed.

(3) Other configurations of sampling systems may be used upon demonstration of stable operation to the FCC.

(b) A station having an antenna sampling system constructed according to the specifications given in paragraph (a) of this section, may obtain approval of that system by submitting an informal request to the FCC in Washington, DC. The request for approval, signed by the licensee or authorized representative, must contain sufficient information to show that the sampling system is in compliance with all requirements of paragraph (a) of this section.

NOTE: A public notice giving additional information on approval of antenna sampling systems is available upon request from the FCC's current copy contractor.

(c) In the event that the antenna monitor sampling system is temporarily out of service for repair or replacement, the station may be operated, pending completion of repairs or replacement, for a period not exceeding 120 days without further authority from the FCC if all other operating parameters and the field monitoring point values are within the limits specified on the station authorization.

(d) If the antenna sampling system is modified or components of the sampling system are replaced, the following procedure shall be followed:

(1) Temporary authority shall be requested and obtained from the Commission in Washington to operate with parameters at variance with licensed values pending issuance of a modified license specifying parameters subsequent to modification or replacement of components.

(2) Immediately prior to modification or replacement of components of the sampling system not on the towers,

and after a verification that all monitoring point values, base current ratios and operating parameters are within the limits or tolerances specified in the instrument of authorization or the pertinent rules, the following indications must be read for each radiation pattern: Final plate current and plate voltage, common point current, base currents and their ratios, antenna monitor phase and current indications, and the field strength at each monitoring point. Subsequent to these modifications or changes the above procedure must be repeated.

(3) If that portion of the sampling system above the base of the towers is modified or components replaced, a partial proof of performance shall be executed in accordance with §73.154 subsequent to these changes. The partial proof of performance shall be accompanied by common point impedance measurements made in accordance with §73.54.

(4) Request for modification of license shall be submitted to the FCC in Washington, DC, within 30 days of the date of sampling system modification or replacement. Such request shall specify the transmitter plate voltage and plate current, common point current, base currents and their ratios, antenna monitor phase and current indications, and all other data obtained pursuant to this paragraph.

(e) If an existing sampling system is found to be patently of marginal construction, or where the performance of a directional antenna is found to be unsatisfactory, and this deficiency reasonably may be attributed, in whole or in part, to inadequacies in the antenna monitoring system, the FCC may require the reconstruction of the sampling system in accordance with requirements specified above.

[41 FR 7405, Feb. 18, 1976, as amended at 42 FR 24056, May 12, 1977; 44 FR 58731, Oct. 11, 1979; 46 FR 35462, July 8, 1981; 48 FR 38478, Aug. 24, 1983; 48 FR 44805, Sept. 30, 1983; 49 FR 32358, Aug. 14, 1984; 50 FR 47054, Nov. 14, 1985; 51 FR 9965, Mar. 24, 1986; 51 FR 40435, Nov. 7, 1986; 56 FR 64859, Dec. 12, 1991]

§73.69 Antenna monitors.

(a) Each station using a directional antenna must have in operation at the transmitter site an FCC authorized antenna monitor. However, if the station authorization sets specific tolerances within which the phase and amplitude relationships must be maintained, or requires the use of a monitor of specified repeatability, resolution or accuracy, the antenna monitor used will be authorized on an individual basis.

(1) Normally, the antenna monitor is to be installed immediately adjacent to the transmitter and antenna phasing equipment. However, the monitor may be located elsewhere provided that its environment is maintained at all times within those limits under which the monitor was type-approved.

(2) The antenna monitor installed at a station operating a directional antenna by remote control or when the monitor is installed in the antenna field at a distance from the transmitter, must be designed and authorized for such use in accordance with the provisions of §73.53(b)(9).

(b) In the event that the antenna monitor sampling system is temporarily out of service for repair or replacement, the station may be operated, pending completion of repairs or replacement, for a period not exceeding 120 days without further authority from the FCC if all other operating parameters, and the field monitoring point values are within the limits specified on the station authorization.

(c) If conditions beyond the control of the licensee prevent the restoration of the monitor to service within the allowed period, informal request in accordance with §73.3549 of the Commission's rules must be filed with the Engineer in Charge of the radio district in which the station is located for such additional time as may be required to complete repairs of the defective instrument.

(d) If an authorized antenna monitor is replaced by another antenna monitor, the following procedure shall be followed:

(1) Temporary authority shall be requested and obtained from the Commission in Washington to operate with parameters at variance with licensed values, pending issuance of a modified license specifying new parameters.

(2) Immediately prior to the replacement of the antenna monitor, after a verification that all monitoring point

values and base current ratios are within the limits or tolerances specified in the instrument of authorization or the pertinent rules, the following indications must be read for each radiation pattern: Final plate current and plate voltage, common point current, base currents, antenna monitor phase and current indications, and the field strength at each monitoring point.

(3) With the new monitor substituted for the old, all indications specified in paragraph (d)(2) of this section, again must be read. If no change has occurred in the indication for any parameter other than the indications of the antenna monitor, the new antenna monitor indications must be deemed to be those reflecting correct array adjustments.

(4) If it cannot be established by the observations required in paragraph (d)(2) of this section that base current ratios and monitoring point values are within the tolerances or limits prescribed by the rules and the instrument of authorization, or if the substitution of the new antenna monitor for the old results in changes in these parameters, a partial proof of performance shall be executed and analyzed in accordance with § 73.154.

(5) An informal request for modification of license shall be submitted to the Commission in Washington, DC, within 30 days of the date of monitor replacement. Such request shall specify the make, type, and serial number of the replacement monitor, phase and sample current indications, and other data obtained pursuant to this paragraph (d) of this section.

(e) The antenna monitor must be calibrated according to the manufacturer's instructions as often as necessary to ensure its proper operation.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, as amended, 1082, as amended; 47 U.S.C. 154, 303. Interpret or apply secs. 301, 303, 307, 48 Stat. 1081, 1082, as amended, 1083, as amended, 47 U.S.C. 301, 303, 307)

[38 FR 1918, Jan. 19, 1973, as amended at 40 FR 15884, Apr. 8, 1975; 40 FR 25459, June 16, 1975; 40 FR 27939, July 2, 1975; 41 FR 22942, June 8, 1976; 41 FR 32892, Aug. 6, 1976; 43 FR 4022, Jan. 31, 1978; 45 FR 26062, Apr. 17, 1980; 48 FR 38478, Aug. 24, 1983; 49 FR 3999, Feb. 1, 1984; 50 FR 47054, Nov. 14, 1985; 51 FR 9965, Mar. 24, 1986; 56 FR 64859, Dec. 12, 1991; 60 FR 55480, Nov. 1, 1995]

§ 73.72 Operating during the experimental period.

(a) An AM station may operate during the experimental period (the time between midnight and sunrise, local time) on its assigned frequency and with its authorized power for the routine testing and maintenance of its transmitting system, and for conducting experimentation under an experimental authorization, provided no interference is caused to other stations maintaining a regular operating schedule within such period.

(b) No station licensed for ''daytime'' or ''specified hours'' of operation may broadcast any regular or scheduled program during this period.

(c) The licensee of an AM station shall operate or refrain from operating its station during the experimental period as directed by the FCC to facilitate frequency measurements or for the determination of interference.

[43 FR 32780, July 28, 1978, as amended at 56 FR 64859, Dec. 12, 1991]

§ 73.88 Blanketing interference.

The licensee of each broadcast station is required to satisfy all reasonable complaints of blanketing interference within the 1 V/m contour.

NOTE: For more detailed instructions concerning operational responsibilities of licensees and permittees under this section, see § 73.318 (b), (c) and (d).

[28 FR 13574, Dec. 14, 1963, as amended at 56 FR 64859, Dec. 12, 1991]

§ 73.99 Presunrise service authorization (PSRA) and postsunset service authorization (PSSA).

(a) To provide maximum uniformity in early morning operation compatible with interference considerations, and to provide for additional service during early evening hours for Class D stations, provisions are made for presunrise service and postsunset service. The permissible power for presunrise or postsunset service authorizations shall not exceed 500 watts, or the authorized daytime or critical hours power (whichever is less). Calculation of the permissible power shall consider only co-channel stations for interference protection purposes.

(b) Presunrise service authorizations (PSRA) permit:

(1) Class D stations operating on Mexican, Bahamian, and Canadian priority Class A clear channels to commence PSRA operation at 6 a.m. local time and to continue such operation until the sunrise times specified in their basic instruments of authorization.

(2) Class D stations situated outside 0.5 mV/m-50% skywave contours of co-channel U.S. Class A stations to commence PSRA operation at 6 a.m. local time and to continue such operation until sunrise times specified in their basic instruments of authorization.

(3) Class D stations located within co-channel 0.5 mV/m-50% skywave contours of U.S. Class A stations, to commence PSRA operation either at 6 a.m. local time, or at sunrise at the nearest Class A station located east of the Class D station (whichever is later), and to continue such operation until the sunrise times specified in their basic instruments of authorization.

(4) Class B and Class D stations on regional channels to commence PSRA operation at 6 a.m. local time and to continue such operation until local sunrise times specified in their basic instruments of authorization.

(c) Extended Daylight Saving Time Pre-Sunrise Authorizations:

(1) Between the first Sunday in April and the end of the month of April, Class D stations will be permitted to conduct pre-sunrise operation beginning at 6 a.m. local time with a maximum power of 500 watts (not to exceed the station's regular daytime or critical hours power), reduced as necessary to comply with the following requirements:

(i) Full protection is to be provided as specified in applicable international agreements.

(ii) Protection is to be provided to the 0.5 mV/m groundwave signals of co-channel U.S. Class A stations; protection to the 0.5 mV/m-50% skywave contours of these stations is not required.

(iii) In determining the protection to be provided, the effect of each interfering signal will be evaluated separately. The presence of interference from other stations will not reduce or eliminate the required protection.

(iv) Notwithstanding the requirements of paragraph (c)(1) (ii) and (iii) of this section, the stations will be permitted to operate with a minimum power of 10 watts unless a lower power is required by international agreement.

(2) The Commission will issue appropriate authorizations to Class D stations not previously eligible to operate during this period. Class D stations authorized to operate during this presunrise period may continue to operate under their current authorization.

(d) Postsunset service authorizations (PSSA) permit:

(1) Class D stations located on Mexican, Bahamian, and Canadian priority Class A clear channels to commence PSSA operation at sunset times specified in their basic instruments of authorization and to continue for two hours after such specified times.

(2) Class D stations situated outside 0.5 mV/m-50% skywave contours of co-channel U.S. Class A stations to commence PSSA operations at sunset times specified in their basic instruments of authorization and to continue for two hours after such specified times.

(3) Class D stations located within co-channel 0.5 mV/m-50% skywave contours of U.S. Class A stations to commence PSSA operation at sunset times specified in their basic instruments of authorization and to continue such operation until two hours past such specified times, or until sunset at the nearest Class A station located west of the Class D station, whichever is earlier. Class D stations located west of the Class A station do not qualify for PSSA operation.

(4) Class D stations on regional channels to commence PSSA operation at sunset times specified on their basic instruments of authorization and to continue such operation until two hours past such specified times.

(e) Procedural Matters. (1) Applications for PSRA and PSSA operation are not required. Instead, the FCC will calculate the periods of such operation and the power to be used pursuant to the provisions of this section and the protection requirements contained in applicable international agreements.

Licensees will be notified of permissible power and times of operation. Presunrise and Postsunset service authority permits operation on a secondary basis and does not confer license rights. No request for such authority need be filed. However, stations intending to operate PSRA or PSSA shall submit by letter, signed as specified in § 73.3513, the following information:

(i) Licensee name, station call letters and station location,

(ii) Indication as to whether PSRA operation, PSSA operation, or both, is intended by the station,

(iii) A description of the method whereby any necessary power reduction will be achieved.

(2) Upon submission of the required information, such operation may begin without further authority.

(f) Technical Criteria. Calculations to determine whether there is objectionable interference will be determined in accordance with the AM Broadcast Technical Standards, §§ 73.182 through 73.190, and applicable international agreements. Calculations will be performed using daytime antenna systems, or critical hours antenna systems when specified on the license. In performing calculations to determine assigned power and times for commencement of PSRA and PSSA operation, the following standards and criteria will be used:

(1) Class D stations operating in accordance with paragraphs (b)(1), (b)(2), (d)(1), and (d)(2) of this section are required to protect the nighttime 0.5 mV/m-50% skywave contours of co-channel Class A stations. Where a 0.5 mV/m-50% skywave signal from the Class A station is not produced, the 0.5 mV/m groundwave contour shall be protected.

(2) Class D stations are required to fully protect foreign Class B and Class C stations when operating PSRA and PSSA; Class D stations operating PSSA are required to fully protect U.S. Class B stations. For purposes of determining protection, the nighttime RSS limit will be used in the determination of maximum permissible power.

(3) Class D stations operating in accordance with paragraphs (d)(2) and (d)(3) of this section are required to restrict maximum 10% skywave radiation at any point on the daytime 0.1 mV/m groundwave contour of a co-channel Class A station to 25 μV/m. The location of the 0.1 mV/m contour of the Class A station will be determined by use of Figure M3, *Estimated Ground Conductivity in the United States.* When the 0.1 mV/m contour extends beyond the national boundary, the international boundary shall be considered the 0.1 mV/m contour.

(4) Class B and Class D stations on regional channels operating PSRA and PSSA (Class D only) are required to provide full protection to co-channel foreign Class B and Class C stations.

(5) Class D stations on regional channels operating PSSA beyond 6 p.m. local time are required to fully protect U.S. Class B stations.

(6) The protection that Class D stations on regional channels are required to provide when operating PSSA until 6 p.m. local time is as follows.

(i) For the first half-hour of PSSA operation, protection will be calculated at sunset plus 30 minutes at the site of the Class D station;

(ii) For the second half-hour of PSSA operation, protection will be calculated at sunset plus one hour at the site of the Class D station;

(iii) For the second hour of PSSA operation, protection will be calculated at sunset plus two hours at the site of the Class D station;

(iv) Minimum powers during the period until 6 p.m. local time shall be permitted as follows:

Calculated power	Adjusted minimum power
From 1 to 45 watts	50 watts.
Above 45 to 70 watts	75 watts.
Above 70 to 100 watts	100 watts.

(7) For protection purposes, the nighttime 25% RSS limit will be used in the determination of maximum permissible power.

(g) Calculations made under paragraph (d) of this section may not take outstanding PSRA or PSSA operations into account, nor will the grant of a PSRA or PSSA confer any degree of interference protection on the holder thereof.

(h) Operation under a PSRA or PSSA is not mandatory, and will not be included in determining compliance with the requirements of § 73.1740. To the extent actually undertaken, however,

presunrise operation will be considered by the FCC in determining overall compliance with past programming representations and station policy concerning commercial matter.

(i) The PSRA or PSSA is secondary to the basic instrument of authorization with which it is to be associated. The PSRA or PSSA may be suspended, modified, or withdrawn by the FCC without prior notice or right to hearing, if necessary to resolve interference conflicts, to implement agreements with foreign governments, or in other circumstances warranting such action. Moreover, the PSRA or PSSA does not extend beyond the term of the basic authorization.

(j) The Commission will periodically recalculate maximum permissible power and times for commencing PSRA and PSSA for each Class D station operating in accordance with paragraph (c) of this section. The Commission will calculate the maximum power at which each individual station may conduct presunrise operations during extended daylight saving time and shall issue conforming authorizations. These original notifications and subsequent notifications should be associated with the station's authorization. Upon notification of new power and time of commencing operation, affected stations shall make necessary adjustments within 30 days.

(k) A PSRA and PSSA does not require compliance with §§ 73.45, 73.182 and 73.1560 where the operation might otherwise be considered as technically substandard. Further, the requirements of paragraphs (a)(5), (b)(2), (c)(2), and (d)(2) of § 73.1215 concerning the scale ranges of transmission system indicating instruments are waived for PSRA and PSSA operation except for the radio frequency ammeters used in determining antenna input power.

(1) A station having an antenna monitor incapable of functioning at the authorized PSRA and PSSA power when using a directional antenna shall take the monitor reading using an unmodulated carrier at the authorized daytime power immediately prior to commencing PSRA or PSSA operations. Special conditions as the FCC may deem appropriate may be included for PSRA or PSSA to insure operation of the transmitter and associated equipment in accordance with all phases of good engineering practice.

[56 FR 64860, Dec. 12, 1991; 57 FR 43290, Sept. 18, 1992, as amended at 58 FR 27950, May 12, 1993]

§ 73.127 Use of multiplex transmission.

The licensee of an AM broadcast station may use its AM carrier to transmit signals not audible on ordinary consumer receivers, for both broadcast and non-broadcast purposes subject to the following requirements:

(a) Such use does not disrupt or degrade the station's own programs or the programs of other broadcast stations.

(b) AM carrier services that are common carrier in nature are subject to common carrier regulation. Licensees operating such services are required to apply to the FCC for the appropriate authorization and to comply with all policies and rules applicable to the service. Responsibility for making the initial determinations of whether a particular activity is common carriage rests with the AM station licensee. Initial determinations by licensees are subject to FCC examination and may be reviewed at the FCC's discretion. AM carrier services that are private carrier in nature must notify the Licensing Division of the Private Radio Bureau at Gettysburg, Pennsylvania 17325, by letter, prior to initiating service certifying compliance with 47 CFR parts 90 and 94.

(c) AM carrier services are of a secondary nature under the authority of the AM station authorization, and the authority to provide such communications services may not be retained or transferred in any manner separate from the station's authorization. The grant or renewal of an AM station permit or license is not furthered or promoted by proposed or past service. The permittee or licensee must establish that the broadcast operation is in the public interest wholly apart from the subsidiary communications services provided.

(d) The station identification, delayed recording, and sponsor identification announcements required by §§ 73.1201, 73.1208, and 73.1212 are not applicable to leased communications

services transmitted via services that are not of a general broadcast program nature.

(e) The licensee or permittee must retain control over all material transmitted in a broadcast mode via the station's facilities, with the right to reject any material that it deems inappropriate or undesirable.

(f) Installation of the multiplex transmitting equipment must conform with the requirements of § 73.1690(e).

[47 FR 25345, June 11, 1982, as amended at 49 FR 34015, Aug. 28, 1984; 51 FR 41629, Nov. 18, 1986; 51 FR 44478, Dec. 10, 1986]

§ 73.128 AM Stereophonic Broadcasting.

(a) An Am broadcast station may, without specific authority from the FCC, transmit stereophonic programs upon installation of type accepted stereophonic transmitting equipment and the necessary measuring equipment to determine that the stereophonic transmissions conform to the modulation characteristics specified in paragraphs (b) and (c) of this section. Stations transmitting stereophonic programs prior to March 21, 1994 may continue to do so until March 21, 1995 as long as they continue to comply with the rules in effect prior to March 21, 1994.

(b) The following limitations on the transmitted wave must be met to insure compliance with the occupied bandwidth limitations, compatibility with AM receivers using envelope detectors, and any applicable international agreements to which the FCC is a party:

(1) The transmitted wave must meet the occupied bandwidth specifications of § 73.44 under all possible conditions of program modulation. Compliance with requirement shall be demonstrated either by the following specific modulation tests or other documented test procedures that are to be fully described in the application for type acceptance and the transmitting equipment instruction manual. (See § 2.983(d)(8) and (j)).

(i) Main channel (L+R) under all conditions of amplitude modulations for the stereophonic system but not exceeding amplitude modulation on negative peaks of 100%.

(ii) Stereophonic (L − R) modulated with audio tones of the same amplitude at the transmitter input terminals as in paragraph (b)(i) of this section but with the phase of either the L or R channel reversed.

(iii) Left and Right Channel only, under all conditions of modulation for the stereophonic system in use but not exceeding amplitude modulation on negative peaks of 100%.

(c) Effective on December 20, 1994, stereophonic transmissions shall conform to the following additional modulation characteristics:

(1) The audio response of the main (L+R) channel shall conform to the requirements of the ANSI/EIA–549–1988, NRSC–1 AM Preemphasis/Deemphasis and Broadcast Transmission Bandwidth Specifications (NRSC–1).

(2) The left and right channel audio signals shall conform to frequency response limitations dictated by ANSI/EIA–549–1988.

(3) The stereophonic difference (L − R) information shall be transmitted by varying the phase of the carrier in accordance with the following relationship:

$$\phi = \tan^{-1}\left(\frac{m(L(t) - R(t))}{1 + m(L(t) + R(t))}\right)$$

where:

L(t)=audio signal left channel,

R(t)=audio signal right channel,

m=modulation factor, and

$m_{peak}(L(t)+R(t))=1$ for 100% amplitude modulation,

$m_{peak}(L(t)-R(t))=1$ for 100% phase modulation.

(4) The carrier phase shall advance in a positive direction when a left channel signal causes the transmitter envelope to be modulated in a positive direction. The carrier phase shall likewise retard (negative phase change) when a right channel signal causes the transmitter envelope to be modulated in a positive direction. The phase modulation shall be symmetrical for the condition of difference (L−R) channel information sent without the presence of envelope modulation.

(5) Maximum angular modulation, which occurs on negative peaks of the left or right channel with no signal present on the opposite channel (L(t)=−0.75, R(t)=0, or R(t)=−0.75, L(t)=0) shall not exceed 1.25 radians.

(6) A peak phase modulation of +/−0.785 radians under the condition of difference (L−R) channel modulation and the absence of envelope (L+R) modulation and pilot signal shall represent 100% modulation of the difference channel.

(7) The composite signal shall contain a pilot tone for indication of the presence of stereophonic information. The pilot tone shall consist of a 25 Hz tone, with 3% or less total harmonic distortion and a frequency tolerance of +/− 0.1 H_2, which modulates the carrier phase +/− 0.05 radians peak, corresponding to 5% L−R modulation when no other modulation is present. The injection level shall be 5%, with a tolerance of +1, −1%.

(8) The composite signal shall be described by the following expression:

$$E_c = A_c\left[1 + m\sum_{n=1}^{\infty} C_{sn}\cos\left(\omega_{sn}\ t + \phi_{sn}\right)\right]\cdot$$

$$\cos\left[\omega_c t + \tan^{-1}\frac{m\sum_{n=1}^{\infty} C_{dn}\cos\left(\omega_{dn}t + \phi_{dn}\right) + .05\sin 50\pi t}{1 + m\sum_{n=1}^{\infty} C_{sn}\cos\left(\omega_{sn}t + \phi_{sn}\right)}\right]$$

where:

A=the unmodulated carrier voltage

m=the modulation index

C_{sn}=the magnitude of the nth term of the sum signal

C_{dn}=the magnitude of the nth term of the difference signal

ω_{sn}=the nth order angular velocity of the sum signal

ω_{dn}=the nth order angular velocity of the difference signal

ω_c=the angular velocity of the carrier

$$\phi_{sn} = \text{the angle of the nth order term} = \tan^{-1}\left[\frac{B_{sn}}{A_{sn}}\right]$$

$$\phi_{dn} = \text{the angle of the nth order term} = \tan^{-1}\left[\frac{B_{dn}}{A_{dn}}\right]$$

A_{sn} and B_{sn} are the nth sine and cosine coefficients of C_{sn}

A_{dn} and B_{dn} are the nth sine and cosine coefficients of C_{dn}

[58 FR 66301, Dec. 20, 1993]

§ 73.132 Territorial exclusivity.

No licensee of an AM broadcast station shall have any arrangement with a network organization which prevents or hinders another station serving substantially the same area from broadcasting the network's programs not taken by the former station, or which prevents or hinders another station serving a substantially different area from broadcasting any program of the network organization: *Provided, however,* That this section does not prohibit arrangements under which the station is granted first call within its primary service area upon the network's programs. The term ''network organization'' means any organization originating program material, with or without commercial messages, and furnishing the same to stations interconnected so as to permit simultaneous broadcast by all or some of them. However, arrangements involving only stations under common ownership, or only the rebroadcast by one station or programming from another with no compensation other than a lump-sum payment by the station rebroadcasting, are not considered arrangements with a network organization. The term ''arrangement'' means any contract, arrangement or understanding, expressed or implied.

[42 FR 16422, Mar. 28, 1977]

§ 73.150 Directional antenna systems.

(a) For each station employing a directional antenna, all determinations of service provided and interference caused shall be based on the inverse distance fields of the standard radiation pattern for that station. (As applied to nighttime operation the term ''standard radiation pattern'' shall include the radiation pattern in the horizontal plane, and radiation patterns at angles above this plane.)

(1) Parties submitting directional antenna patterns pursuant to this section and § 73.152 (Modified standard pattern) must submit patterns which are tabulated and plotted in units of millivolts per meter at 1 kilometer.

NOTE: Applications for new stations and for changes (both minor and major) in existing stations must use a standard pattern.

(b) The following data shall be submitted with an application for authority to install a directional antenna:

(1) The standard radiation pattern for the proposed antenna in the horizontal plane, and where pertinent, tabulated values for the azimuthal radiation patterns for angles of elevation up to and including 60 degrees, with a separate section for each increment of 5 degrees.

(i) The standard radiation pattern shall be based on the theoretical radiation pattern. The theoretical radiation pattern shall be calculated in accordance with the following mathematical expression:

$$E(\phi,\theta)_{th} = \left| k\sum_{i=1}^{n} F_i f_i(\theta) / S_i \cos\theta \cos(\phi_i - \phi) + \psi_i \right| \qquad \text{(Eq. 1)}$$

where:

$E(\phi,\theta)_{th}$ Represents the theoretical inverse distance fields at one kilometer for the given azimuth and elevation.

k Represents the multiplying constant which determines the basic pattern size. It shall be chosen so that the effective field (RMS) of the theoretical pattern in the horizontal plane shall be no greater than the value computed on the assumption that nominal station power (see § 73.14) is delivered to the directional array, and that a lumped loss resistance of one ohm exists at the current loop of each element of the array, or at the base of each element of electrical height lower than 0.25 wavelength, and no less than the value required by § 73.189(b)(2) of this part for a station of the class and nominal power for which the pattern is designed.

n Represents the number of elements (towers) in the directional array.

i Represents the ith element in the array.

F_i Represents the field ratio of the ith element in the array.

θ Represents the vertical elevation angle measured from the horizontal plane.

$f_i(\theta)$ represents the vertical plane radiation characteristic of the ith antenna. This value depends on the tower height, as well as whether the tower is top-loaded or sectionalized. The various formulas for computing $f_i(\theta)$ are given in § 73.160.

S_i Represents the electrical spacing of the ith tower from the reference point.

ϕ_i Represents the orientation (with respect to true north) of the ith tower.

ϕ Represents the azimuth (with respect to true north).

ψ_i Represents the electrical phase angle of the current in the ith tower.

The standard radiation pattern shall be constructed in accordance with the following mathematical expression:

$$E(\phi,\theta)_{std} = 1.05\sqrt{\left[E(\phi,\theta)_{th}\right]^2 + Q^2}$$

(Eq. 2)

where:

$E(\phi,\theta)_{std}$ represents the inverse distance fields at one kilometer which are produced by the directional antenna in the horizontal and vertical planes. $E(\phi,\theta)_{th}$ represents the theoretical inverse distance fields at one kilometer as computed in accordance with Eq. 1, above.

Q is the greater of the following two quantities: $0.025g(\theta)\ E_{rss}$ or $10.0g(\theta)\sqrt{P_{kW}}$

where:

$g(\theta)$ is the vertical plane distribution factor, $f(\theta)$, for the shortest element in the array (see Eq. 2, above; also see § 73.190, Figure 5). If the shortest element has an electrical height in excess of 0.5 wavelength, $g(\theta)$ shall be computed as follows:

$$g(\theta) = \frac{\sqrt{\left\{f(\theta)\right\}^2 + 0.0625}}{1.030776}$$

E_{rss} is the root sum square of the amplitudes of the inverse fields of the elements of the array in the horizontal plane, as used in the expression for $E(\phi,\theta)_{th}$ (see Eq. 1, above), and is computed as follows:

$$E_{rss} = k\sqrt{\sum_{i=1}^{n} F_i^2}$$

P_{kW} is the nominal station power expressed in kilowatts, see § 73.14. If the nominal power is less than one kilowatt, $P_{kW}=1$.

(ii) Where the orthogonal addition of the factor Q to $E(\phi,\theta)_{th}$ results in a standard pattern whose minimum fields are lower than those found necessary or desirable, these fields may be increased by appropriate adjustment of the parameters of $E(\phi,\theta)_{th}$.

(2) All patterns shall be computed for integral multiples of five degrees, beginning with zero degrees representing true north, and, shall be plotted to the largest scale possible on unglazed letter-size paper (main engraving approximately 7″ × 10″) using only scale divisions and subdivisions of 1,2,2.5, or 5 times 10^{nth}. The horizontal plane pattern shall be plotted on polar coordinate paper, with the zero degree point corresponding to true north. Patterns for elevation angles above the horizontal plane may be plotted in polar or

rectangular coordinates, with the pattern for each angle of elevation on a separate page. Rectangular plots shall begin and end at true north, with all azimuths labelled in increments of not less than 20 degrees. If a rectangular plot is used, the ordinate showing the scale for radiation may be logarithmic. Such patterns for elevation angles above the horizontal plane need be submitted only upon specific request by Commission staff. Minor lobe and null detail occurring between successive patterns for specific angles of elevation need not be submitted. Values of field strength on any pattern less than ten percent of the maximum field strength plotted on that pattern shall be shown on an enlarged scale. Rectangular plots with a logarithmic ordinate need not utilize an expanded scale unless necessary to show clearly the minor lobe and null detail.

(3) The effective (RMS) field strength in the horizontal plane of $E(\phi,\theta)_{std}$, $E(\phi,\theta)_{th}$ and the root-sum-square (RSS) value of the inverse distance fields of the array elements at 1 kilometer, derived from the equation for $E(\phi,\theta)_{th}$. These values shall be tabulated on the page on which the horizontal plane pattern is plotted, which shall be specifically labelled as the Standard Horizontal Plane Pattern.

(4) Physical description of the array, showing:

(i) Number of elements.

(ii) Type of each element (i.e., guyed or self-supporting, uniform cross section or tapered (specifying base dimensions), grounded or insulated, etc.)

(iii) Details of top loading, or sectionalizing, if any.

(iv) Height of radiating portion of each element in feet (height above base insulator, or base, if grounded).

(v) Overall height of each element above ground.

(vi) Sketch of antenna site, indicating its dimensions, the location of the antenna elements, thereon, their spacing from each other, and their orientation with respect to each other and to true north, the number and length of the radials in the ground system about each element, the dimensions of ground screens, if any, and bonding between towers and between radial systems.

(5) Electrical description of the array, showing:

(i) Relative amplitudes of the fields of the array elements.

(ii) Relative time phasing of the fields of the array elements in degrees leading [+] or lagging [−].

(iii) Space phasing between elements in degrees.

(iv) Where waiver of the content of this section is requested or upon request of the Commission staff, all assumptions made and the basis therefor, particularly with respect to the electrical height of the elements, current distribution along elements, efficiency of each element, and ground conductivity.

(v) Where waiver of the content of this section is requested, or upon request of the Commission staff, those formulas used for computing $E(\phi,\theta)_{th}$ and $E(\phi,\theta)_{std}$. Complete tabulation of final computed data used in plotting patterns, including data for the determination of the RMS value of the pattern, and the RSS field of the array.

(6) The values used in specifying the parameters which describe the array must be specified to no greater precision than can be achieved with available monitoring equipment. Use of greater precision raises a rebuttable presumption of instability of the array. Following are acceptable values of precision; greater precision may be used only upon showing that the monitoring equipment to be installed gives accurate readings with the specified precision.

(i) Field Ratio: 3 significant figures.

(ii) Phasing: to the nearest 0.1 degree.

(iii) Orientation (with respect to a common point in the array, or with respect to another tower): to the nearest 0.1 degree.

(iv) Spacing (with respect to a common point in the array, or with respect to another tower): to the nearest 0.1 degree.

(v) Electrical Height (for all parameters listed in Section 73.160): to the nearest 0.1 degree.

(vi) Theoretical RMS (to determine pattern size): 4 significant figures.

(vii) Additional requirements relating to modified standard patterns appear in § 73.152(c)(3) and (c)(4).

(7) Any additional information required by the application form.

(c) Sample calculations for the theoretical and standard radiation follow. Assume a five kilowatt (nominal power) station with a theoretical RMS of 685 mV/m at one kilometer. Assume that it is an in-line array consisting of three towers. Assume the following parameters for the towers:

Tower	Field ratio	Relative phasing	Relative spacing	Relative orientation
1	1.0	−128.5	0.0	0.0
2	1.89	0.0	110.0	285.0
3	1.0	128.5	220.0	285.0

Assume that tower 1 is a typical tower with an electrical height of 120 degrees. Assume that tower 2 is top-loaded in accordance with the method described in § 73.160(b)(2) where A is 120 electrical degrees and B is 20 electrical degrees. Assume that tower 3 is sectionalized in accordance with the method described in § 73.160(b)(3) where A is 120 electrical degrees, B is 20 electrical degrees, C is 220 electrical degrees, and D is 15 electrical degrees.

The multiplying constant will be 323.6.

Following is a tabulation of part of the theoretical pattern:

Azimuth	0	30	60	Vertical angle
0	15.98	62.49	68.20	
105	1225.30	819.79	234.54	
235	0.43	18.46	34.56	
247	82.62	51.52	26.38	

If we further assume that the station has a standard pattern, we find that Q, for $\theta=0$, is 22.36.

Following is a tabulation of part of the standard pattern:

Azimuth	0	30	60	Vertical angle
0	28.86	68.05	72.06	
105	1286.78	860.97	246.41	
235	23.48	26.50	37.18	
247	89.87	57.03	28.87	

The RMS of the standard pattern in the horizontal plane is 719.63 mV/m at one kilometer.

[36 FR 919, Jan. 20, 1971, as amended at 37 FR 529, Jan. 13, 1972; 41 FR 24134, June 15, 1976; 46 FR 11991, Feb. 12, 1981; 48 FR 24384, June 1, 1983; 51 FR 2707, Jan. 21, 1986; 52 FR 36877, Oct. 1, 1987; 56 FR 64861, Dec. 12, 1991; 57 FR 43290, Sept. 18, 1992]

§ 73.151 Field strength measurements to establish performance of directional antennas.

(a) In addition to the information required by the license application form, the following showing must be submitted to establish for each mode of directional operation, that the effective measured field strength (RMS) at 1 mile is not less than 85 percent of the effective field strength specified for the standard radiation pattern for that mode of directional operation, or less than that specified in § 73.189(b) for the class of station involved, whichever is the higher value, and that the measured field strength at 1 mile in any direction does not exceed the field shown in that direction on the standard radiation pattern for that mode of directional operation:

(1) A tabulation of inverse field strengths in the horizontal plane at 1 mile, as determined from field strength measurements taken and analyzed in accordance with § 73.186, and a statement of the effective field strength (RMS), based on these measurements. Measurements shall be made in at least the following directions:

(i) Those specified in the instrument of authorization.

(ii) In major lobes. Generally at least three radials are necessary to establish a major lobe; however, additional radials may be required.

(iii) Along sufficient number of other radials to establish the effective field. In the case of a relatively simple directional antenna pattern, approximately five radials in addition to those in paragraphs (a)(1) (i) and (ii) of this section are sufficient. However, when more complicated patterns are involved, that is, patterns having several or sharp lobes or nulls, measurements shall be taken along as many radials as may be necessary, to definitely establish the pattern(s).

(2) A tabulation of:

(i) The phase difference of the current in each other element with respect to the reference element, and whether the current leads (+) or lags (−) the current in the reference element, as indicated by the station's antenna monitor.

(ii) The ratio of the amplitude of the radio frequency current in each other element to the current in the reference element, as indicated on the station's antenna monitor.

(iii) The value of the radio frequency current at the base of each element, and the ratio of the current in each other element to the base current in the reference element. If there are substantial differences between the ratios established in paragraph (a)(2)(ii) of this section and the ratios computed in this paragraphs (a)(2)(iii) and/or if there are substantial differences between the parameters established in paragraphs (a)(2) (i) and (ii) of this section and this paragraph (a)(2)(iii), and those used in the design of the standard radiation pattern, a full explanation of the reasons for these differences shall be given.

(3) The actual field strength measured at each monitoring point established in the various directions for which a limiting field was specified in the instrument of authorization together with accurate and detailed description of each monitoring point together with ordinary snapshots, clear and sharp, taken with the field strength meter in its measuring position and with the camera so located that its field of view takes in as many pertinent landmarks as possible. In addition, the directions for proceeding to each monitoring point together with a rough sketch or map upon which has been indicated the most accessible approaches to the monitoring points should be submitted.

(b) For stations authorized to operate with simple directional antenna systems (*e.g.,* two towers) in the 1605–1705 kHz band, the measurements to support pattern RMS compliance referred to in paragraphs (a)(1)(ii) and (a)(1)(iii) of this section are not required. In such cases, measured radials are required only in the direction of short-spaced allotments, or in directions specifically identified by the Commission.

[36 FR 919, Jan. 20, 1971, as amended at 42 FR 36828, July 18, 1977; 49 FR 23348, June 6, 1984; 50 FR 32416, Aug. 12, 1985; 56 FR 64862, Dec. 12, 1991]

§ 73.152 Modification of directional antenna data.

(a) If, after construction and final adjustment of a directional antenna, a measured inverse distance field in any direction exceeds the field shown on the standard radiation pattern for the pertinent mode of directional operation, an application shall be filed, specifying a modified standard radiation pattern and/or such changes as may be required in operating parameters so that all measured effective fields will be contained within the modified standard radiation pattern.

(b) Normally, a modified standard pattern is not acceptable at the initial construction permit stage, before a proof-of-performance has been completed. However, in certain cases, where it can be shown that modification is necessary, a modified standard pattern will be acceptable at the initial construction permit stage. Following is a non-inclusive list of items to be considered in determining whether a modification is acceptable at the initial construction permit stage:

(1) When the proposed pattern is essentially the same as an existing pattern at the same antenna site. (e.g., A DA–D station proposing to become a DA–1 station.)

(2) Excessive reradiating structures, which should be shown on a plat of the antenna site and surrounding area.

(3) Other environmental factors; they should be fully described.

(4) Judgment and experience of the engineer preparing the engineering portion of the application. This must be supported with a full discussion of the pertinent factors.

(c) The following general principles shall govern the situations in paragraphs (a) and (b) in this section:

(1) Where a measured field in any direction will exceed the authorized standard pattern, the license application may specify the level at which the input power to the antenna shall be limited to maintain the measured field

at a value not in excess of that shown on the standard pattern, and shall specify the common point current corresponding to this power level. This value of common point current will be specified on the license for that station.

(2) Where any excessive measured field does not result in objectionable interference to another station, a modification of construction permit application may be submitted with a modified standard pattern encompassing all measured fields. The modified standard pattern shall supersede the previously submitted standard radiation pattern for that station in the pertinent mode of directional operation. Following are the possible methods of creating a modified standard pattern:

(i) The modified pattern may be computed by making the entire pattern larger than the original pattern (i.e., have a higher RMS value) if the measured fields systematically exceed the confines of the original pattern. The larger pattern shall be computed by using a larger multiplying constant, k, in the theoretical pattern equation (Eq. 1) in § 73.150(b)(1).

(ii) Where the measured field exceeds the pattern in discrete directions, but objectionable interference does not result, the pattern may be expanded over sectors including these directions. When this ''augmentation'' is desired, it shall be achieved by application of the following equation:

$$E(\phi,\theta)_{aug} = \sqrt{\{ E(\phi,\theta)_{std} \}^2 + A\{g(\theta) \cos (180 \frac{D_A}{S} \}^2}$$

where:

$E(\phi,\theta)_{std}$ is the standard pattern field at some particular azimuth and elevation angle, before augmentation, computed pursuant to Eq. 2, § 73.150(b)(1)(i).

$E(\phi,\theta)_{aug.}$ is the field in the direction specified above, after augmentation.

$A = E(\phi, O)^2_{aug} - E(\phi, O)^2_{std}$ in which ϕ is the central azimuth of augmentation. $E(\phi, O)_{aug}$ and $E(\phi, O)_{std}$ are the fields in the horizontal plane at the central azimuth of augmentation.

NOTE: ''A'' must be positive, except during the process of converting non-standard patterns to standard patterns pursuant to the *Report and Order in Docket No. 21473,* and in making minor changes to stations with patterns developed during the conversion. However, even when ''A'' is negative, ''A'' cannot be so negative that $E(\phi,\alpha)_{aug}$ is less than $E(\phi,\theta)_{th}$ at any azimuth or vertical elevation angle.

$g(\theta)$ is defined in § 73.150(b)(1)(i).

S is the angular range, or ''span'', over which augmentation is applied. The span is centered on the central azimuth of augmentation. At the limits of the span, the augmented pattern merges into the unaugmented pattern. Spans may overlap.

D_A is the absolute horizontal angle between the azimuth at which the augmented pattern value is being computed and the central azimuth of augmentation. (D_A cannot exceed 1/2 S.)

In the case where there are spans which overlap, the above formula shall be applied repeatedly, once for each augmentation, in ascending order of central azimuth of augmentation, beginning with zero degrees representing true North. Note that, when spans overlap, there will be, in effect, an augmentation of an augmentation. And, if the span of an earlier augmentation overlaps the central azimuth of a later augmentation, the value of ''A'' for the later augmentation will be different than the value of ''A'' without the overlap of the earlier span.

(iii) A combination of paragraphs (c)(2) (i) and (ii), of this section, with (i) being applied before (ii) is applied.

(iv) Where the measured inverse distance field exceeds the value permitted by the standard pattern, and augmentation is allowable under the terms of this section, the requested amount of augmentation shall be centered upon the azimuth of the radial upon which the excessive radiation was measured and shall not exceed the following:

(A) The actual measured inverse distance field value, where the radial does not involve a required monitoring point.

(B) 120% of the actual measured inverse field value, where the radial has a monitoring point required by the instrument of authorization.

Whereas some pattern smoothing can be accommodated, the extent of the requested span(s) shall be minimized and in no case shall a requested augmentation span extend to a radial azimuth for which the analyzed measurement data does not show a need for augmentation.

(3) A Modified Standard Pattern shall be specifically labeled as such, and shall be plotted in accordance with the requirements of paragraph (b)(2) of § 73.150. The effective (RMS) field strength in the horizontal plane of $E(\phi,\alpha)_{std}$, $E(\phi,\alpha)_{th}$, and the root sum square (RSS) value of the inverse fields of the array elements (derived from the equation for $E(\phi,\alpha)_{th}$), shall be tabulated on the page on which the horizontal plane pattern is plotted. Where sector augmentation has been employed in designing the modified pattern, the direction of maximum augmentation (i.e., the central azimuth of augmentation) shall be indicated on the horizontal plane pattern for each augmented sector, and the limits of each sector shall also be shown. Field values within an augmented sector, computed prior to augmentation, shall be depicted by a broken line.

(4) There shall be submitted, for each modified standard pattern, complete tabulations of final computed data used in plotting the pattern. In addition, for each augmented sector, the central azimuth of augmentation, span, and radiation at the central azimuth of augmentation ($E(\phi,\alpha)_{aug}$) shall be tabulated.

(5) The parameters used in computing the modified standard pattern shall be specified with realistic precision. Following is a list of the maximum acceptable precision:

(i) Central Azimuth of Augmentation: to the nearest 0.1 degree.

(ii) Span: to the nearest 0.1 degree.

(iii) Radiation at Central Azimuth of Augmentation: 4 significant figures.

(d) Sample calculations for a modified standard pattern follow. First, assume the existing standard pattern in § 73.150(c). Then, assume the following augmentation parameters:

Augmentation number	Central azimuth	Span	Radiation at central azimuth
1	110	40	1,300
2	240	50	52
3	250	10	130

Following is a tabulation of part of the modified standard pattern:

Azimuth	0	30	60	Vertical angle
0	28.86	68.05	72.06	
105	1,299.42	872.14	254.21	
235	39.00	35.74	38.71	
247	100.47	66.69	32.78	

[46 FR 11992, Feb. 12, 1981, as amended at 56 FR 64862, Dec. 12, 1991]

§ 73.153 Field strength measurements in support of applications or evidence at hearings.

In the determination of interference, groundwave field strength measurements will take precedence over theoretical values, provided such measurements are properly taken and presented. When measurements of groundwave signal strength are presented, they shall be sufficiently complete in accordance with § 73.186 to determine the field strength at 1 mile in the pertinent directions for that station. The antenna resistance measurements required by § 73.186 need not be taken or submitted.

[44 FR 36037, June 20, 1979, as amended at 56 FR 64862, Dec. 12, 1991]

§ 73.154 AM directional antenna partial proof of performance measurements.

(a) A partial proof of performance consists of at least 10 field strength measurements made on each of the radials established in the latest complete proof of performance of the directional antenna system.

(b) The measurements are to be made within 2 to 10 miles (3 to 16 kilometers) from the center of the antenna array. When a monitoring point as designated on the station authorization is on a particular radial, one of the radial measurements must be made at that point.

(c) The results of the measurements are to be analyzed in either of two methods. Either the arithmetic average or the logarithmic average of the ratios of the field strength at each measurement point along each radial to the corresponding field strength in the most recent complete proof of performance may be used to establish the inverse distance fields. (The logarithmic average for each radial is the antilogarithm of the mean of the logarithms of the ratios of field strength

(new to old) for each measurement location along a given radial).

(d) The result of the most recent partial proof of performance measurements and analysis is to be retained in the station records available to the FCC upon request.

[50 FR 47054, Nov. 14, 1985]

§ 73.157 Antenna testing during daytime.

(a) The licensee of a station using a directional antenna during daytime or nighttime hours may, without further authority, operate during daytime hours with the licensed nighttime directional facilities or with a nondirectional antenna when conducting monitoring point field strength measurements or antenna proof of performance measurements.

(b) Operation pursuant to this section is subject to the following conditions:

(1) No harmful interference will be caused to any other station.

(2) The FCC may notify the licensee to modify or cease such operation to resolve interference complaints or when such action may appear to be in the public interest, convenience and necessity.

(3) Such operation shall be undertaken only for the purpose of taking monitoring point field strength measurements or antenna proof of performance measurements, and shall be restricted to the minimum time required to accomplish the measurements.

(4) Operating power in the nondirectional mode shall be adjusted to the same power as was utilized for the most recent nondirectional proof of performance covering the licensed facilities.

[50 FR 30947, July 31, 1985]

§ 73.158 Directional antenna monitoring points.

(a) When a licensee of a station using a directional antenna system finds that a field monitoring point, as specified on the station authorization, is no longer accessible for use or is unsuitable because of nearby construction or other disturbances to the measured field, an informal application to change the monitoring point location is to be promptly submitted to the FCC in Washington, DC. The application must include the following information:

(1) A partial proof of performance conducted on the radial containing the monitoring point to be changed.

(2) A written description of the routing to the new selected monitoring point.

(3) A map showing the location and routing to the new selected monitoring point.

(4) A photograph showing the new monitoring point in relation to nearby permanent landmarks that can be used in locating the point accurately at all times throughout the year. Do not use seasonal or temporary features in either the written descriptions or photographs as landmarks for locating field points.

(b) When the descriptive routing to reach any of the monitoring points as shown on the station license is no longer correct due to road or building construction or other changes, the licensee must prepare and file with the FCC, in Washington, DC, a request for a corrected station license showing the new routing description. A copy of the description is to be posted with the existing station license. The notification is to include the information specified in paragraphs (a) (2) and (3) of this section.

[47 FR 28387, June 30, 1982]

§ 73.160 Vertical plane radiation characteristics, f(θ).

(a) The vertical plane radiation characteristics show the relative field being radiated at a given vertical angle, with respect to the horizontal plane. The vertical angle, represented as θ, is 0 degrees in the horizontal plane, and 90 degrees when perpendicular to the horizontal plane. The vertical plane radiation characteristic is referred to as f(θ). The generic formula for f(θ) is:

$$f(\theta)=E(\theta)/E(O)$$

where:

$E(\theta)$ is the radiation from the tower at angle θ.

$E(O)$ is the radiation from the tower in the horizontal plane.

(b) Listed below are formulas for f(θ) for several common towers.

(1) For a typical tower, which is not top-loaded or sectionalized, the following formula shall be used:

$$f(\theta) = \frac{\cos(G \sin\theta) - \cos G}{(1 - \cos G)\cos\theta}$$

where:

G is the electrical height of the tower, not including the base insulator and pier. (In the case of a folded unipole tower, the entire radiating structure's electrical height is used.)

(2) For a top-loaded tower, the following formula shall be used:

$$f(\theta) = \frac{\cos B \cos(A \sin\theta) - \sin\theta \sin B \sin(A \sin\theta) - \cos(A + B)}{\cos\theta\,(\cos B - \cos(A + B))}$$

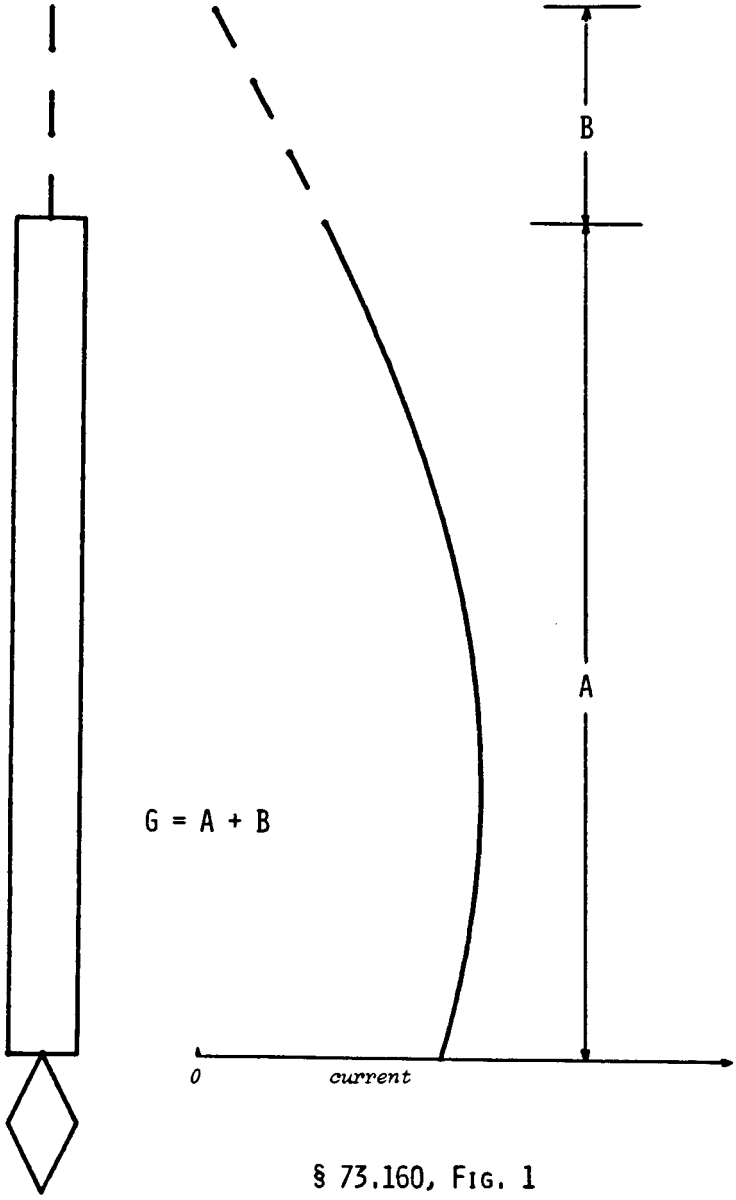
where:

A is the physical height of the tower, in electrical degrees, and

B is the difference, in electrical degrees, between the apparent electrical height (G, based on current distribution) and the actual physical height.

G is the apparent electrical height: the sum of A and B; A+B.

See Figure 1 of this section.



§ 73.160, FIG. 1

(3) For a sectionalized tower, the following formula shall be used:

$$f(\theta) = \frac{\{\sin\Delta\,[\cos B\cos(A\sin\theta) - \cos G] + \sin B\,[\cos D\cos(C\sin\theta) - \sin\theta\sin D\sin(C\sin\theta) - \cos\Delta\cos(A\sin\theta)]\}}{\cos\theta\,[\sin\Delta\,(\cos B - \cos G) + \sin B\,(\cos D - \cos\Delta)]}$$

where:

A is the physical height, in electrical degrees, of the lower section of the tower.

B is the difference between the apparent electrical height (based on current distribution) of the lower section of the tower and the physical height of the lower section of the tower.

C is the physical height of the entire tower, in electrical degrees.

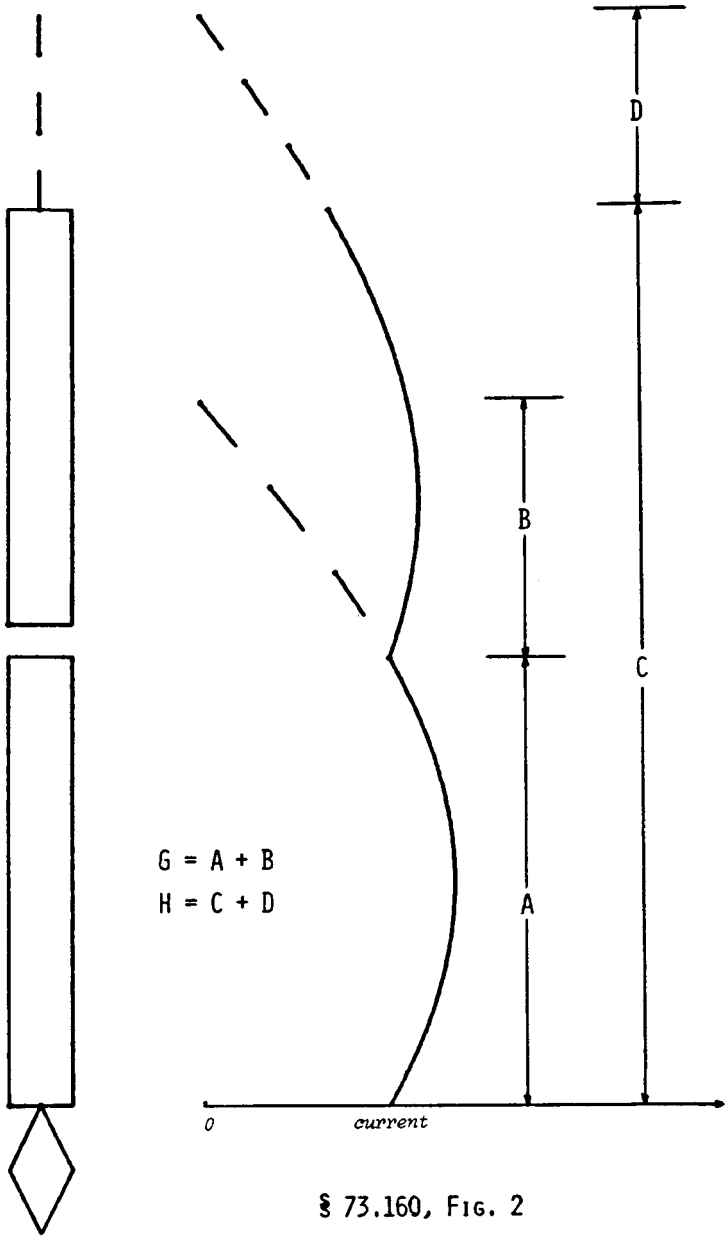
D is the difference between the apparent electrical height of the tower (based on current distribution of the upper section) and the physical height of the entire tower. D will be zero if the sectionalized tower is not top-loaded.

G is the sum of A and B; A+B.

H is the sum of C and D; C+D.

Δ is the difference between H and A; H − A.

See Figure 2 of this section.



§ 73.160, Fig. 2

(c) One of the above f(θ) formulas *must* be used in computing radiation in the vertical plane, unless the applicant submits a special formula for a particular type of antenna. If a special formula is submitted, it must be accompanied by a complete derivation and sample calculations. Submission of values for f(θ) only in a tabular or graphical format (i.e., without a formula) is not acceptable.

(d) Following are sample calculations. (The number of significant figures shown here should *not* be interpreted as a limitation on the number of significant figures used in actual calculations.)

(1) For a typical tower, as described in paragraph (b)(1) of this section, assume that G=120 electrical degrees:

θ	f(θ)
0	1.0000
30	0.7698
60	0.3458

(2) For a top-loaded tower, as described in paragraph (b)(2) of this section, assume A=120 electrical degrees, B=20 electrical degrees, and G=140 electrical degrees, (120+20):

θ	f(θ)
0	1.0000
30	0.7364
60	0.2960

(3) For a sectionalized tower, as described in paragraph (b)(3) of this section, assume A=120 electrical degrees, B=20 electrical degrees, C=220 electrical degrees, D=15 electrical degrees, G=140 electrical degrees (120+20), H=235 electrical degrees (220+15), and Δ=115 electrical degrees (235−120):

θ	f(θ)
0	1.0000
30	0.5930
60	0.1423

[46 FR 11993, Feb. 12, 1981]

§ 73.182 Engineering standards of allocation.

(a) Sections 73.21 to 73.37, inclusive, govern allocation of facilities in the AM broadcast band 535–1705 kHz. § 73.21 establishes three classes of channels in this band, namely, clear, regional and local. The classes and power of AM broadcast stations which will be assigned to the various channels are set forth in § 73.21. The classifications of the AM broadcast stations are as follows:

(1) Class A stations operate on clear channels with powers no less than 10kW nor greater than 50 kW. These stations are designed to render primary and secondary service over an extended area, with their primary services areas protected from objectionable interference from other stations on the same and adjacent channels. Their secondary service areas are protected from objectionable interference from co-channel stations. For purposes of protection, Class A stations may be divided into two groups, those located in any of the contiguous 48 States and those located in Alaska in accordance with § 73.25.

(i) The mainland U.S. Class A stations are those assigned to the channels allocated by § 73.25. The power of these stations shall be 50 kW. The Class A stations in this group are afforded protection as follows:

(A) Daytime. To the 0.1 mV/m groundwave contour from stations on the same channel, and to the 0.5 mV/m groundwave contour from stations on adjacent channels.

(B) Nighttime. To the 0.5 mV/m-50% skywave contour from stations on the same channels.

(ii) Class A stations in Alaska operate on the channels allocated by § 73.25 with a minimum power of 10 kW, a maximum power of 50 kW, and an antenna efficiency of 282 mV/m/kW at 1 kilometer. Stations operating on these channels in Alaska which have not been designated as Class A stations in response to licensee request will continue to be considered as Class B stations. During daytime hours a Class A station in Alaska is protected to the 100 μV/m groundwave contour from co-channel stations. During nighttime hours, a Class A station in Alaska is protected to the 100 μV/m-50 percent skywave contour from co-channel stations. The 0.5 mV/m groundwave contour is protected both daytime and nighttime from stations on adjacent channels.

NOTE: In the Report and Order in MM Docket No. 83–807, the Commission designated 15 stations operating on U.S. clear channels as Alaskan Class A stations. Eleven of these stations already have Alaskan Class A facilities and are to be protected accordingly. Permanent designation of the other four stations as Alaskan Class A is conditioned on their constructing minimum Alaskan Class A facilities no later than December 31, 1989. Until that date or until such facilities are obtained, these four stations shall be temporarily designated as Alaskan Class A stations, and calculations involving these stations should be based on existing facilities but with an assumed power of 10 kW. Thereafter, these stations are to be protected based on their actual Alaskan Class A facilities. If any of these stations does not obtain Alaskan Class A facilities in the period specified, it is to be protected as a Class B station based on its actual facilities. These four stations may increase power to 10 kW without regard to the impact on co-channel Class B stations. However, power increases by these stations above 10 kW (or by existing Alaskan Class A stations beyond their current power level) are subject to applicable protection requirements for co-channel Class B stations. Other stations not on the original list but which meet applicable requirements may obtain Alaskan Class A status by seeking such designation from the Commission. If a power increase or other change in facilities by a station not on the original list is required to obtain minimum Alaskan Class A facilities, any such application shall meet the interference protection requirements applicable to an Alaskan Class A proposal on the channel.

(2) Class B stations are stations which operate on clear and regional channels with powers not less than 0.25 kW nor more than 50 kW. These stations render primary service only, the area of which depends on their geographical location, power, and frequency. It is recommended that Class B stations be located so that the interference received from other stations will not limit the service area to a groundwave contour value greater than 2.0 mV/m nighttime and to the 0.5 mV/m groundwave contour daytime, which are the values for the mutual protection between this class of stations and other stations of the same class.

NOTE: See §§73.21(b)(1) and 73.26(b) concerning power restrictions and classifications relative to Class B, Class C, and Class D stations in Alaska, Hawaii, Puerto Rico and the U.S. Virgin Islands. Stations in the above-named places that are reclassified from Class C to Class B stations under §73.26(b) shall not be authorized to increase power to levels that would increase the nighttime interference-free limit of co-channel Class C stations in the conterminous United States.

(3) Class C stations operate on local channels, normally rendering primary service to a community and the suburban or rural areas immediately contiguous thereto, with powers not less than 0.25 kW, nor more than 1 kW, except as provided in §73.21(c)(1). Such stations are normally protected to the daytime 0.5 mV/m contour. On local channels the separation required for the daytime protection shall also determine the nighttime separation. Where directional antennas are employed daytime by Class C stations operating with more than 0.25 kW power, the separations required shall in no case be less than those necessary to afford protection, assuming nondirectional operation with 0.25 kW. In no case will 0.25 kW or greater nighttime power be authorized to a station unable to operate nondirectionally with a power of 0.25 kW during daytime hours. The actual nighttime limitation will be calculated. For nighttime protection purposes, Class C stations in the 48 contiguous United States may assume that stations in Alaska, Hawaii, Puerto Rico, and the U.S. Virgin Islands operating on 1230, 1240, 1340, 1400, 1450, and 1490 kHz are Class C stations.

(4) Class D stations operate on clear and regional channels with daytime powers of not less than 0.25 kW (or equivalent RMS field of 141 mV/m at one kilometer if less than 0.25 kW) and not more than 50 kW. Class D stations that have previously received nighttime authority operate with powers of less than 0.25 kW (or equivalent RMS fields of less than 141 mV/m at one kilometer) are not required to provide nighttime coverage in accordance with §73.24(j) and are not protected from interference during nighttime hours. Such nighttime authority is permitted on the basis of full nighttime protection being afforded to all Class A and Class B stations.

(b) When a station is already limited by interference from other stations to

a contour value greater than that normally protected for its class, the individual received limits shall be the established standard for such station with respect to interference from each other station.

(c) The four classes of AM broadcast stations have in general three types of service areas, i.e., primary, secondary and intermittent. (See §73.14 for the definitions of primary, secondary, and intermittent service areas.) Class A stations render service to all three areas. Class B stations render service to a primary area but the secondary and intermittent service areas may be materially limited or destroyed due to interference from other stations, depending on the station assignments involved. Class C and Class D stations usually have only primary service areas. Interference from other stations may limit intermittent service areas and generally prevents any secondary service to those stations which operate at night. Complete intermittent service may still be obtained in many cases depending on the station assignments involved.

(d) The groundwave signal strength required to render primary service is 2 mV/m for communities with populations of 2,500 or more and 0.5 mV/m for communities with populations of less than 2,500. See §73.184 for curves showing distance to various groundwave field strength contours for different frequencies and ground conductivities, and also see §73.183, ''Groundwave signals.''

(e) A Class C station may be authorized to operate with a directional antenna during daytime hours providing the power is at least 0.25 kW. In computing the degrees of protection which such antenna will afford, the radiation produced by the directional antenna system will be assumed to be no less, in any direction, than that which would result from non-directional operation using a single element of the directional array, with 0.25 kW.

(f) All classes of broadcast stations have primary service areas subject to limitation by fading and noise, and interference from other stations to the contours set out for each class of station.

(g) Secondary service is provided during nighttime hours in areas where the skywave field strength, 50% or more of the time, is 0.5 mV/m or greater (0.1 mV/m in Alaska). Satisfactory secondary service to cities is not considered possible unless the field strength of the skywave signal approaches or exceeds the value of the groundwave field strength that is required for primary service. Secondary service is subject to some interference and extensive fading whereas the primary service area of a station is subject to no objectionable interference or fading. Only Class A stations are assigned on the basis of rendering secondary service.

NOTE: Standards have not been established for objectionable fading because of the relationship to receiver characteristics. Selective fading causes audio distortion and signal strength reduction below the noise level, objectionable characteristics inherent in many modern receivers. The AVC circuits in the better designed receivers generally maintain the audio output at a sufficiently constant level to permit satisfactory reception during most fading conditions.

(h) Intermittent service is rendered by the groundwave and begins at the outer boundary of the primary service area and extends to a distance where the signal strength decreases to a value that is too low to provide any service. This may be as low as a few μV/m in certain areas and as high as several millivolts per meter in other areas of high noise level, interference from other stations, or objectionable fading at night. The intermittent service area may vary widely from day to night and generally varies over shorter intervals of time. Only Class A stations are protected from interference from other stations to the intermittent service area.

(i) Broadcast stations are licensed to operate unlimited time, limited time, daytime, share time, and specified hours. (See §§73.1710, 73.1725, 73.1720, 73.1715, and 73.1730.) Applications for new stations shall specify unlimited time operation only.

(j) Section 73.24 sets out the general requirements for modifying the facilities of a licensed station and for establishing a new station. Sections 73.24(b) and 73.37 include interference related

provisions that be considered in connection with an application to modify the facilities of an existing station or to establish a new station. Section 73.30 describes the procedural steps required to receive an authorization to operate in the 1605–1705 kHz band.

(k) Objectionable nighttime interference from a broadcast station occurs when, at a specified field strength contour with respect to the desired station, the field strength of an undesired station (co-channel or first adjacent channel, after application of proper protection ratio) exceeds for 10% or more of the time the values set forth in these standards. The value derived from the root-sum-square of all interference contributions represents the extent of a station's interference-free coverage.

(1) With respect to the root-sum-square (RSS) values of interfering field strengths referred to in this section, calculation of nighttime interference-free service is accomplished by considering the signals on the three channels of concern (co- and first adjacencies) in order of decreasing magnitude, adding the squares of the values and extracting the square root of the sum, excluding those signals which are less than 50% of the RSS values of the higher signals already included.

(2) With respect to the root-sum-square values of interfering field strengths referred to in this section, calculation of nighttime interference for non-coverage purposes is accomplished by considering the signals on the three channels of concern (co- and first adjacencies) in order of decreasing magnitude, adding the squares of the values and extracting the square root of the sum, excluding those signals which are less than 25% of the RSS values of the higher signals already included.

(3) With respect to the root-sum-square values of interfering field strengths referred to in this section, calculation is accomplished by considering the signals on the three channels of concern (co- and first adjacencies) in order of decreasing magnitude, adding the squares of the values and extracting the square root of the sum. The 0% exclusion method applies only to the determination of an improvement factor value for evaluating a station's eligibility for migration to the band 1605–1705 kHz.

(4) The RSS value will not be considered to be increased when a new interfering signal is added which is less than the appropriate exclusion percentage as applied to the RSS value of the interference from existing stations, and which at the same time is not greater than the smallest signal included in the RSS value of interference from existing stations.

(5) It is recognized that application of the above ''50% exclusion'' method (or any exclusion method using a per cent value greater than zero) of calculating the RSS interference may result in some cases in anomalies wherein the addition of a new interfering signal or the increase in value of an existing interfering signal will cause the exclusion of a previously included signal and may cause a decrease in the calculated RSS value of interference. In order to provide the Commission with more realistic information regarding gains and losses in service (as a basis for determination of the relative merits of a proposed operation) the following alternate method for calculating the proposed RSS values of interference will be employed wherever applicable.

(6) In the cases where it is proposed to add a new interfering signal which is not less than 50% (or 25%, depending on which study is being performed) of the RSS value of interference from existing stations or which is greater that the smallest signal already included to obtain this RSS value, the RSS limitation after addition of the new signal shall be calculated without excluding any signal previously included. Similarly, in cases where it is proposed to increase the value of one of the existing interfering signals which has been included in the RSS value, the RSS limitation after the increase shall be calculated without excluding the interference from any source previously included.

(7) If the new or increased signal proposed in such cases is ultimately authorized, the RSS values of interference to other stations affected will thereafter be calculated by the ''50% exclusion'' (or 25% exclusion, depending on which study is being performed)

method without regard to this alternate method of calculation.

(8) Examples of RSS interference calculations:

(i) Existing interferences:

Station No. 1—1.00 mV/m.
Station No. 2—0.60 mV/m.
Station No. 3—0.59 mV/m.
Station No. 4—0.58 mV/m.

The RSS value from Nos. 1, 2 and 3 is 1.31 mV/m; therefore interference from No. 4 is excluded for it is less than 50% of 1.31 mV/m.

(ii) Station A receives interferences from:

Station No. 1—1.00 mV/m.
Station No. 2—0.60 mV/m.
Station No. 3—0.59 mV/m.

It is proposed to add a new limitation, 0.68 mV/m. This is more than 50% of 1.31 mV/m, the RSS value from Nos. 1, 2 and 3. The RSS value of Station No. 1 and of the proposed station would be 1.21 m/Vm which is more than twice as large as the limitation from Station No. 2 or No. 3. However, under the above provision the new signal and the three existing interferences are nevertheless calculated for purposes of comparative studies, resulting in an RSS value of 1.47 mV/m. However, if the proposed station is ultimately authorized, only No. 1 and the new signal are included in all subsequent calculations for the reason that Nos. 2 and 3 are less than 50% of 1.21 mV/m, the RSS value of the new signal and No. 1.

(iii) Station A receives interferences from:

Station No. 1—1.00 mV/m.
Station No. 2—0.60 mV/m.
Station No. 3—0.59 mV/m.

No. 1 proposes to increase the limitation it imposes on Station A to 1.21 mV/m. Although the limitations from stations Nos. 2 and 3 are less than 50% of the 1.21 mV/m limitation, under the above provision they are nevertheless included for comparative studies, and the RSS limitation is calculated to be 1.47 mV/m. However, if the increase proposed by Station No. 1 is authorized, the RSS value then calculated is 1.21 mV/m because Stations Nos. 2 and 3 are excluded in view of the fact that the limitations they impose are less than 50% of 1.21 mV/m.

NOTE: The principles demonstrated in the previous examples for the calculation of the 50% exclusion method also apply to calculations using the 25% exclusion method after appropriate adjustment.

(l) Objectionable nighttime interference from a station shall be considered to exist to a station when, at the field strength contour specified in paragraph (q) of this section with respect to the class to which the station belongs, the field strength of an interfering station operating on the same channel or on a first adjacent channel after signal adjustment using the proper protection ratio, exceeds for 10% or more of the time the value of the permissible interfering signal set forth opposite such class in paragraph (q) of this section.

(m) For the purpose of estimating the coverage and the interfering effects of stations in the absence of field strength measurements, use shall be made of Figure 8 of § 73.190, which describes the estimated effective field (for 1 kW power input) of simple vertical omnidirectional antennas of various heights with ground systems having at least 120 quarter-wavelength radials. Certain approximations, based on the curve or other appropriate theory, may be made when other than such antennas and ground systems are employed, but in any event the effective field to be employed shall not be less than the following:

Class of station	Effective field (at 1 km)
All Class A (except Alaskan)	362 mV/m.
Class A (Alaskan), B and D	282 mV/m.
Class C	241 mV/m.

Note (1): When a directional antenna is employed, the radiated signal of a broadcasting station will vary in strength in different directions, possibly being greater than the above values in certain directions and less in other directions depending upon the design and adjustment of the directional antenna system. To determine the interference in any direction, the measured or calculated radiated field (unattenuated field strength at 1 kilometer from the array) must be used in conjunction with the appropriate propagation curves. (See § 73.185 for further discussion and solution of a typical directional antenna case.)

Note (2): For Class B stations in Alaska, Hawaii, Puerto Rico and the U.S. Virgin Islands, 241 mV/m shall be used.

(n) The existence or absence of objectionable groundwave interference from stations on the same or adjacent channels shall be determined by actual measurements made in accordance with the method described in § 73.186, or in the absence of such measurements, by reference to the propagation curves of § 73.184. The existence or absence of objectionable interference due to skywave propagation shall be determined by reference to Formula 2 in § 73.190.

(o) Computation of Skywave Field Strength Values:

(1) Fifty Percent Skywave Field Strength Values (Clear Channel). In computing the fifty percent skywave field strength values of a Class A clear channel station, use shall be made of Formula 1 of § 73.190, entitled ''Skywave Field Strength'' for 50 percent of the time.

(2) Ten Percent Skywave Field Strength Values. In computing the 10% skywave field strength for stations on a single signal or an RSS basis, Formula 2 in § 73.190 shall be used.

(3) Determination of Angles of Departure. In calculating skywave field strength for stations on all channels, the pertinent vertical angle shall be determined by use of the formula in § 73.190(d).

(p) The distance to any specified groundwave field strength contour for any frequency may be determined from the appropriate curves in § 73.184 entitled ''Ground Wave Field Strength vs. Distance.''

(q) Normally protected service contours and permissible interference signals for broadcast stations are as follows (for Class A stations, see also paragraph (a) of this section):

Class of station	Class of channel used	Signal strength contour of area protected from objectionable interference [1] (μV/m)		Permissible interfering signal (μV/m)	
		Day [2]	Night	Day [2]	Night [3]
A	Clear	SC 100 AC 500	SC 500 50% SW AC 500 GW	SC 5 AC 250	SC 25 AC 250
A (Alaskan)	do	SC 100 AC 500	SC 100 50% SW AC 500 GW	SC 5 AC 250	SC 5 AC 250
B	Clear Regional	500	2000 [2]	25 AC 250	25 250
C	Local	500	No presc.[4]	SC25	Not presc.
D	Clear Regional	500	Not presc	SC 25 AC 250	Not presc.

[1] When a station is already limited by interference from other stations to a contour of higher value than that normally protected for its class, this higher value contour shall be the established protection standard for such station. Changes proposed by Class A and B stations shall be required to comply with the following restrictions. Those interferers that contribute to another station's RSS using the 50% exclusion method are required to either reduce their contributions to that RSS by 10%, or to a level at which their contributions no longer enter into the 50% RSS value, whichever is the lesser amount of reduction. Those interferers that contribute to a station's RSS using the 25% exclusion method but do not contribute to that station's RSS using the 50% exclusion method may make changes not to exceed their present contribution. Interferers not included in a station's RSS using the 25% exclusion method are permitted to increase radiation as long as the 25% exclusion threshold is not equalled or exceeded. In no case will a reduction be required that would result in a contributing value that is below the pertinent value specified in the table. This note does not apply to Class C stations; or to the protection of Class A stations which are normally protected on a single signal, non-RSS basis.

[2] Groundwave.

[3] Skywave field strength for 10 percent or more of the time.

[4] During nighttime hours, Class C stations in the contiguous 48 States may treat all Class B stations assigned to 1230, 1240, 1340, 1400, 1450 and 1490 kHz in Alaska, Hawaii, Puerto Rico and the U.S. Virgin Islands as if they were Class C stations.

Note: SC=Same channel; AC=Adjacent channel; SW=Skywave; GW=Groundwave

(r) The following table of logarithmic expressions is to be used as required for determining the minimum permissible ratio of the field strength of a desired to an undesired signal. This table shall be used in conjunction with the protected contours specified in paragraph (q) of this section.

Frequency separation of desired to undesired signals (kHz)	Desired Groundwave to:		Desired 50% Skywave to Undesired 10% Skywave (dB)
	Undesired groundwave (dB)	Undesired 10% Skywave (dB)	
0	26	26	26
10	6	6	not presc.

(s) Two stations, one with a frequency twice of the other, should not be assigned in the same groundwave service area unless special precautions are taken to avoid interference from the second harmonic of the station operating on the lower frequency. Additionally, in selecting a frequency, consideration should be given to the fact that occasionally the frequency assignment of two stations in the same area may bear such a relation to the intermediate frequency of some broadcast

receivers as to cause ''image'' interference, However, since this can usually be rectified by readjustment of the intermediate frequency of such receivers, the Commission, in general, will not take this kind of interference into consideration when authorizing stations.

(t) The groundwave service of two stations operating with synchronized carriers and broadcasting identical programs will be subject to some distortion in areas where the signals from the two stations are of comparable strength. For the purpose of estimating coverage of such stations, areas in which the signal ratio is between 1:2 and 2:1 will not be considered as receiving satisfactory service.

NOTE: Two stations are considered to be operated synchronously when the carriers are maintained within 0.2 Hz of each other and they transmit identical program s.

[56 FR 64862, Dec. 12, 1991; 57 FR 43290, Sept. 18, 1992, as amended at 58 FR 27950, May 12, 1993]

§ 73.183 Groundwave signals.

(a) Interference that may be caused by a proposed assignment or an existing assignment during daytime hours should be determined, when possible, by measurements on the frequency involved or on another frequency over the same terrain and by means for the curves in § 73.184 entitled ''Ground Wave Field Strength versus Distance.''

NOTE: Groundwave field strength measurements will not be accepted or considered for the purpose of establishing that interference to a station in a foreign country other than Canada, or that the field strength at the border thereof, would be less than indicated by the use of the ground conductivity maps and engineering standards contained in this part and applicable international agreements. Satisfactory groundwave measurements offered for the purpose of demonstrating values of conductivity other than those shown by Figure M3 in problems involving protection of Canadian stations will be considered only if, after review thereof, the appropriate agency of the Canadian government notifies the Commission that they are acceptable for such purpose.

(b)(1) In all cases where measurements taken in accordance with the requirements are not available, the groundwave strength must be determined by means of the pertinent map of ground conductivity and the groundwave curves of field strength versus distance. The conductivity of a given terrain may be determined by measurements of any broadcast signal traversing the terrain involved. Figure M3 (See Note 1) shows the conductivity throughout the United States by general areas of reasonably uniform conductivity. When it is clear that only one conductivity value is involved, Figure R3 of § 73.190, may be used. It is a replica of Figure M3, and is contained in these standards. In all other situations Figure M3 must be employed. It is recognized that in areas of limited size or over a particular path, the conductivity may vary widely from the values given; therefore, these maps are to be used only when accurate and acceptable measurements have not been made.

(2) For determinations of interference and service requiring a knowledge of ground conductivities in other countries, the ground conductivity maps comprising Appendix 1 to Annex 2 of each of the following international agreements may be used:

(i) For Canada, the U.S.-Canada AM Agreement, 1984;

(ii) For Mexico, the U.S.-Mexico AM Agreement, 1986; and

(iii) For other Western Hemisphere countries, the Regional Agreement for the Medium Frequency Broadcasting Service in Region 2.

Where different conductivities appear in the maps of two countries on opposite sides of the border, such differences are to be considered as real, even if they are not explained by geophysical cleavages.

(c) Example of determining interference by the graphs in § 73.184:

It is desired to determine whether objectionable interference exists between a proposed 5 kW Class B station on 990 kHz and an existing 1 kW Class B station on first adjacent channel, 1000 kHz. The distance between the two stations is 260 kilometers and both stations operate nondirectionally with antenna systems that produce a horizontal effective field of 282 in mV/m at one kilometer. (See § 73.185 regarding use of directional antennas.) The ground conductivity at the site of each station and along the intervening terrain is 6 mS/m. The protection to Class B stations during daytime is to the 500 μV/m

(0.5 Vm) contour using a 6 dB protection factor. The distance to the 500 μV/m groundwave contour of the 1 kW station is determined by the use of the appropriate curve in § 73.184. Since the curve is plotted for 100 mV/m at a 1 kilometer, to find the distance of the 0.5 mV/m contour of the 1 kw station, it is necessary to determine the distance to the 0.1773 m/Vm contour.

(100×0.5/282=0.1773)

Using the 6 mS/m curve, the estimated radius of the 0.5 mV/m contour is 62.5 kilometers. Subtracting this distance from the distance between the two stations leaves 197.5 kilometers. Using the same propagation curve, the signal from the 5 kW station at this distance is seen to be 0.059 mV/m. Since a protection ratio of 6 dB, desired to undesired signal, applies to stations separated by 10 kHz, the undesired signal could have had a value of up to 0.25 mV/m without causing objectionable interference. For co-channel studies, a desired to undesired signal ratio of no less than 20:1 (26 dB) is required to avoid causing objectionable interference.

(d) Where a signal traverses a path over which different conductivities exist, the distance to a particular groundwave field strength contour shall be determined by the use of the equivalent distance method. Reasonably accurate results may be expected in determining field strengths at a distance from the antenna by application of the equivalent distance method when the unattenuated field of the antenna, the various ground conductivities and the location of discontinuities are known. This method considers a wave to be propagated across a given conductivity according to the curve for a homogeneous earth of that conductivity. When the wave crosses from a region of one conductivity into a region of a second conductivity, the equivalent distance of the receiving point from the transmitter changes abruptly but the field strength does not. From a point just inside the second region the transmitter appears to be at that distance where, on the curve for a homogeneous earth of the second conductivity, the field strength equals the value that occurred just across the boundary in the first region. Thus the equivalent distance from the receiving point to the transmitter may be either greater or less than the actual distance. An imaginary transmitter is considered to exist at that equivalent distance. This technique is not intended to be used as a means of evaluating unattenuated field or ground conductivity by the analysis of measured data. The method to be employed for such determinations is set out in § 73.186.

(e) Example of the use of the equivalent distance method;

It is desired to determine the distance to the 0.5 mV/m and 0.025 mV/m contours of a station on a frequency of 1000 kHz with an inverse distance field of 100 mV/m at one kilometer being radiated over a path having a conductivity of 10 mS/m for a distance of 20 kilometers, 5 mS/m for the next 30 kilometers and 15 mS/m thereafter. Using the appropriate curve in § 73.184, Graph 12, at a distance of 20 kilometers on the curve for 10 mS/m, the field strength is found to be 2.84 mV/m. On the 5mS/m curve, the equivalent distance to this field strength is 14.92 kilometers, which is 5.08 (20−14.92 kilometers nearer to the transmitter. Continuing on the propagation curve, the distance to a field strength of 0.5 mV/m is found to be 36.11 kilomteres.

The actual length of the path travelled, however, is 41.19 (36.11+5.08) kilometers. Continuing on this propagation curve to the conductivity change at 44.92 (50.00−5.08) kilometers, the field strength is found to be 0.304 mV/m. On the 15 mS/m propagation curve, the equivalent distance to this field strength is 82.94 kilometers, which changes the effective path length by 38.02 (82.94−44.92) kilometers. Continuing on this propagation curve, the distance to a field strength of 0.025 mV/m is seen to be 224.4 kilometers. The actual length of the path travelled, however, is 191.46 (224.4+5.08−38.02) kilometers.

[28 FR 13574, Dec. 14, 1963, as amended at 44 FR 36037, June 20, 1979; 48 FR 9011, Mar. 3, 1983; 50 FR 18822, May 2, 1985; 50 FR 24522, June 11, 1985; 51 FR 9965, Mar. 24, 1986; 54 FR 39736, Sept. 28, 1989; 56 FR 64866, Dec. 12, 1991; 57 FR 43290, Sept. 18, 1992]

§ 73.184 Groundwave field strength graphs.

(a) Graphs 1 to 20 show, for each of 20 frequencies, the computed values of groundwave field strength as a function of groundwave conductivity and distance from the source of radiation. The groundwave field strength is considered to be that part of the vertical component of the electric field which has not been reflected from the ionosphere nor from the troposphere. These 20 families of curves are plotted on log-log graph paper and each is to be used for the range of frequencies shown

thereon. Computations are based on a dielectric constant of the ground (referred to air as unity) equal to 15 for land and 80 for sea water and for the ground conductivities (expressed in mS/m) given on the curves. The curves show the variation of the groundwave field strength with distance to be expected for transmission from a vertical antenna at the surface of a uniformly conducting spherical earth with the groundwave constants shown on the curves. The curves are for an antenna power of such efficiency and current distribution that the inverse distance (unattenuated) field is 100 mV/m at 1 kilometer. The curves are valid for distances that are large compared to the dimensions of the antenna for other than short vertical antennas.

(b) The inverse distance field (100 mV/m divided by the distance in kilometers) corresponds to the groundwave field intensity to be expected from an antenna with the same radiation efficiency when it is located over a perfectly conducting earth. To determine the value of the groundwave field intensity corresponding to a value of inverse distance field other than 100 mV/m at 1 kilometer, multiply the field strength as given on these graphs by the desired value of inverse distance field at 1 kilometer divided by 100; for example, to determine the groundwave field strength for a station with an inverse distance field of 2700 mV/m at 1 kilometer, simply multiply the values given on the charts by 27. The value of the inverse distance field to be used for a particular antenna depends upon the power input to the antenna, the nature of the ground in the neighborhood of the antenna, and the geometry of the antenna. For methods of calculating the interrelations between these variables and the inverse distance field, see ''The Propagation of Radio Waves Over the Surface of the Earth and in the Upper Atmosphere,'' Part II, by Mr. K.A. Norton, Proc. I.R.E., Vol. 25, September 1937, pp. 1203–1237.

NOTE: The computed values of field strength versus distance used to plot Graphs 1 to 20 are available in tabular form. For information on obtaining copies of these tabulations call or write the Consumer Affairs Office, Federal Communications Commission, Washington, DC 20554, (202) 632–7000.

(c) Provided the value of the dielectric constant is near 15, the ground conductivity curves of Graphs 1 to 20 may be compared with actual field strength measurement data to determine the appropriate values of the ground conductivity and the inverse distance field strength at 1 kilometer. This is accomplished by plotting the measured field strengths on transparent log-log graph paper similar to that used for Graphs 1 to 20 and superimposing the plotted graph over the Graph corresponding to the frequency of the station measured. The plotted graph is then shifted vertically until the plotted measurement data is best aligned with one of the conductivity curves on the Graph; the intersection of the inverse distance line on the Graph with the 1 kilometer abscissa on the plotted graph determines the inverse distance field strength at 1 kilometer. For other values of dielectric constant, the following procedure may be used to determine the dielectric constant of the ground, the ground conductivity and the inverse distance field strength at 1 kilometer. Graph 21 gives the relative values of groundwave field strength over a plane earth as a function of the numerical distance *p* and phase angle *b*. On graph paper with coordinates similar to those of Graph 21, plot the measured values of field strength as ordinates versus the corresponding distances from the antenna in kilometers as abscissae. The data should be plotted only for distances greater than one wavelength (or, when this is greater, five times the vertical height of the antenna in the case of a nondirectional antenna or 10 times the spacing between the elements of a directional antenna) and for distances less than $80f^{1/3}$MHz kilometers (i.e., 80 kilometers at 1 MHz). Then, using a light box, place the plotted graph over Graph 21 and shift the plotted graph vertically and horizontally (making sure that the vertical lines on both sheets are parallel) until the best fit with the data is obtained with one of the curves on Graph 21. When the two sheets are properly lined up, the value of the field strength corresponding to the intersection of the inverse distance line of Graph 21 with the 1 kilometer

abscissa on the data sheet is the inverse distance field strength at 1 kilometer, and the values of the numerical distance at 1 kilometer, p_1, and of b are also determined. Knowing the values of b and p_1 (the numerical distance at one kilometer), we may substitute in the following approximate values of the ground conductivity and dielectric constant.

$$x \cong \frac{\pi}{p} \cdot \left(\frac{R}{\lambda}\right)_1 \cdot \cos b \qquad \text{(Eq. 1)}$$

$(R/\lambda)_1$= Number of wavelengths in 1 kilometer,

* * * * *

f_{MHz}=frequency expressed in megahertz,

$$\varepsilon \cong \chi \tan b - 1 \qquad \text{(Eq. 3)}$$

ε=dielectric constant on the ground referred to air as unity.

First solve for χ by substituting the known values of p_1, $(R/\lambda)_1$, and cos b in equation (1). Equation (2) may then be solved for δ and equation (3) for ε. At distances greater than $80/f^{1/3}$ MHz kilometers the curves of Graph 21 do not give the correct relative values of field strength since the curvature of the earth weakens the field more rapidly than these plane earth curves would indicate. Thus, no attempt should be made to fit experimental data to these curves at the larger distances.

NOTE: For other values of dielectric constant, use can be made of the computer program which was employed by the FCC in generating the curves in Graphs 1 to 20. For information on obtaining a printout of this program, call or write the Consumer Affairs Office, Federal Communications Commission, Washington, DC 200554, (202) 632–7000.

(d) At sufficiently short distances (less than 55 kilometers at AM broadcast frequencies), such that the curvature of the earth does not introduce an additional attenuation of the waves, the curves of Graph 21 may be used to determine the groundwave field strength of transmitting and receiving antennas at the surface of the earth for any radiated power, frequency, or set of ground constants. First, trace the straight inverse distance line corresponding to the power radiated on transparent log-log graph paper similar to that of Graph 21, labelling the ordinates of the chart in terms of field strength, and the abscissae in terms of distance. Next, using the formulas given on Graph 21, calculate the value of the numerical distance, p, at 1 kilometer, and the value of b. Then superimpose the log-log graph paper over Graph 21, shifting it vertically until both inverse distance lines coincide and shifting it horizontally until the numerical distance at 1 kilometer on Graph 21 coincides with 1 kilometer on the log-log graph paper. The curve of Graph 21 corresponding to the calculated value of b is then traced on the log-log graph paper giving the field strength versus distance in kilometers.

(e) This paragraph consists of the following Graphs 1 to 20 and 21.

NOTE: The referenced graphs are not published in the CFR, nor will they be included in the Commission's automated rules system. For information on obtaining copies of the graphs call or write the Consumer Affairs Office, Federal Communications Commission, Washington, DC 20554, Telephone: (202) 632–7000.

[28 FR 13574, Dec. 14, 1963, as amended at 50 FR 18823, May 2, 1985; 51 FR 45891, Dec. 23, 1986; 52 FR 36878, Oct. 1, 1987; 56 FR 64866, Dec. 12, 1991; 57 FR 43290, Sept. 18, 1992]

§ 73.185 Computation of interfering signal.

(a) Measured values of radiation are not to be used in calculating overlap, interference, and coverage.

(1) In the case of an antenna which is intended to be non-directional in the horizontal plane, an ideal non-directional radiation pattern shall be used in determining interference, overlap, and coverage, even if the antenna is not actually non-directional.

(2) In the case of an antenna which is directional in the horizontal plane, the radiation which shall be used in determining interference, overlap, and coverage is that calculated pursuant to § 73.150 or § 73.152, depending on whether the station has a standard or modified standard pattern.

(3) In the case of calculation of interference or overlap to (not from) a foreign station, the notified radiation

shall be used, even if the notified radiation differs from that in paragraphs (a) (1) or (2) of this section.

(b) For skywave signals from stations operating on all channels, interference shall be determined from the appropriate formulas and Figure 6a contained in § 73.190.

(c) The formulas in § 73.190(d) depicted in Figure 6a of § 73.190, entitled ''Angles of Departure versus Transmission Range'' are to be used in determining the angles in the vertical pattern of the antenna of an interfering station to be considered as pertinent to transmission by one reflection. To provide for variation in the pertinent vertical angle due to variations of ionosphere height and ionosphere scattering, the curves 2 and 3 indicate the upper and lower angles within which the radiated field is to be considered. The maximum value of field strength occurring between these angles shall be used to determine the multiplying factor to apply to the 10 percent skywave field intensity value determined from Formula 2 in § 73.190. The multiplying factor is found by dividing the maximum radiation between the pertinent angles by 100 mV/m.

(d) Example of the use of skywave curves and formulas: Assume a proposed new Class B station from which interference may be expected is located at a distance of 724 kilometers from a licensed Class B station. The proposed station specifies geographic coordinates of 40°00′00″N and 100° 00′00″W and the station to be protected is located at an azimuth of 45° true at geographic coordinates of 44°26′05″N and 93°32′54″W. The critical angles of radiation as determined from Figure 6a of § 73.190 for use with Class B stations are 9.6° and 16.6°. If the vertical pattern of the antenna of the proposed station in the direction of the existing station is such that, between the angles of 9.6° and 16.6° above the horizon the maximum radiation is 260 mV/m at one kilometer, the value of the 50% field, as derived from Formula 1 of § 73.190, is 0.06217 mV/m at the location of the existing station. To obtain the value of the 10% field, the 50% value must be adjusted by a factor derived from Formula 2 of § 73.190. The value in this case is 8.42 dB. Thus, the 10% field is 0.1616 mV/m. Using this in conjunction with the co-channel protection ratio of 26 dB, the resultant nighttime limit from the proposed station to the licensed station is 3.232 mV/m.

(e) In the case of an antenna which is non-directional in the horizontal plane, the vertical distribution of the relative fields should be computed pursuant to § 73.160. In the case of an antenna which is directional in the horizontal plane, the vertical pattern in the great circle direction toward the point of reception in question must first be calculated. In cases where the radiation in the vertical plane, at the pertinent azimuth, contains a large lobe at a higher angle than the pertinent angle for one reflection, the method of calculating interference will not be restricted to that just described; each such case will be considered on the basis of the best knowledge available.

(f) In performing calculations to determine permissible radiation from stations operating presunrise or postsunset in accordance with § 73.99, calculated diurnal factors will be multiplied by the values of skywave field strength for such stations obtained from Formula 1 or 2 of § 73.190.

(1) The diurnal factor is determined using the time of day at the mid-point of path between the site of the interfering station and the point at which interference is being calculated. Diurnal factors are computed using the formula $D_f = a + bF + cF^2 + dF^3$ where:

D_f represents the diurnal factor,
F is the frequency in MHz,
a,b,c, and d are constants obtained from the tables in paragraph (k)(2)

A diurnal factor greater than one will not be used in calculations and interpolation is to be used between calculated values where necessary. For reference purposes, curves for presunrise and postsunset diurnal factors are contained in Figures 13 and 14 of § 73.190.

(2) Constants used in calculating diurnal factors for the presunrise and postsunset periods are contained in paragraphs (f)(2) (i) and (ii) of this section respectively. The columns labeled T_{mp} represent the number of hours before and after sunrise and sunset at the path midpoint.

(i) PRESUNRISE CONSTANTS

T_{mp}	a	b	c	d
−2	1.3084	.0083	−.0155	.0144
−1.75	1.3165	−.4919	.6011	−.1884
−1.5	1.0079	.0296	.1488	−.0452
−1.25	.7773	.3751	−.1911	.0736
−1	.6230	.1547	.2654	−.1006
−.75	.3718	.1178	.3632	−.1172
−.5	.2151	.0737	.4167	−.1413
−.25	.2027	−.2560	.7269	−.2577
SR	.1504	−.2325	.5374	−.1729
+.25	.1057	−.2092	.4148	−.1239
+5.	.0642	−.1295	.2583	−.0699
+.75	.0446	−.1002	.1754	−.0405
+1	.0148	.0135	.0462	.0010

(ii) POSTSUNSET CONSTANTS

T_{mp}	a	b	c	d
1.75	.9495	−.0187	.0720	−.0290
1.5	.7196	.3583	−.2280	.0611
1.25	.6756	.1518	.0279	−.0163
1.0	.5486	.1401	.0952	−.0288
.75	.3003	.4050	−.0961	.0256
.5	.1186	.4281	−.0799	.0197
.25	.0382	.3706	−.0673	.0171
SS	.0002	.3024	−.0540	.0086
−.25	.0278	.0458	.1473	−.0486
−.5	.0203	.0132	.1166	−.0340
−.75	.0152	−.0002	.0786	−.0185
−1.0	−.0043	.0452	−.0040	.0103
−1.25	.0010	.0135	.0103	.0047
−1.5	.0018	.0052	.0069	.0042
−1.75	−.0012	.0122	−.0076	.0076
−2.0	−.0024	.0141	−.0141	.0091

EDITORIAL NOTE: At 56 FR 64867, Dec. 12, 1991, § 73.185 was amended by redesignating paragraphs (d), (e), (h), and (k) as (c), (d), (e), and (f), resulting in two consecutive paragraph (f)'s. These paragraphs will be correctly designated by a Federal Communication Commission document published in the FEDERAL REGISTER at a later date.

(f) For stations operating on regional and local channels, interfering skywave field intensities shall be determined in accordance with the procedure specified in (d) of this section and illustrated in (e) of this section, except that Figure 2 of § 73.190 is used in place of Figure 1a and 1b and the formulas of § 73.190. In using Figure 2 of § 73.190, one additional parameter must be considered, i.e., the variation of received field with the latitude of the path.

(g) Figure 2 of § 73.190, ''10 percent Skywave Signal Range Chart,'' shows the signal as a function of the latitude of the transmission path, which is defined as the geographic latitude of the midpoint between the transmitter and receiver. When using Figure 2 of § 73.190, latitude 35° should be used in case the mid-point of the path lies below 35° North and latitude 50° should be used in case the mid-point of the path lies above 50° North.

[30 FR 13783, Oct. 29, 1965, as amended at 33 FR 15420, Oct. 17, 1968; 46 FR 11995, Feb. 12, 1981; 48 FR 42958, Sept. 20, 1983; 50 FR 18843, May 2, 1985; 56 FR 64867, Dec. 12, 1991]

§ 73.186 Establishment of effective field at one kilometer.

(a) Section 73.189 provides that certain minimum field strengths are acceptable in lieu of the required minimum physical heights of the antennas proper. Also, in other situations, it may be necessary to determine the effective field. The following requirements shall govern the taking and submission of data on the field strength produced:

(1) Beginning as near to the antenna as possible without including the induction field and to provide for the fact that a broadcast antenna is not a point source of radiation (not less than one wave length or 5 times the vertical height in the case of a single element, i.e., nondirectional antenna or 10 times the spacing between the elements of a directional antenna), measurements shall be made on eight or more radials, at intervals of approximately 0.2 kilometer up to 3 kilometers (1.87 miles) from the antenna, at intervals of approximately 1 kilometer from 3 kilometers (1.87 miles) to 10 kilometers (6.2 miles) from the antenna, at intervals of approximately 3 kilometers from 10 kilometers (6.2 miles) to 25 or 34 kilometers (15.5 miles or 20 miles) from the antenna, and a few additional measurements if needed at greater distances from the antenna. Where the antenna is rurally located and unobstructed measurements can be made, there shall be as many as 18 measurements on each radial. However, where the antenna is located in a city where unobstructed measurements are difficult to make, measurements shall be made on each radial at as many unobstructed locations as possible, even though the intervals are considerably less than stated above, particularly within 3 kilometers of the antenna. In cases where it is not possible to obtain accurate measurements at the closer distances (even out to 8 or 10 kilometers due to

the character of the intervening terrain), the measurements at greater distances should be made at closer intervals. (It is suggested that ''wave tilt'' measurements may be made to determine and compare locations for taking field strength measurements, particularly to determine that there are no abrupt changes in ground conductivity or that reflected waves are not causing abnormal strengths.

(2) The data required by paragraph (a)(1) of this section should be plotted for each radial in accordance with either of the two methods set forth below:

(i) Using log-log coordinate paper, plot field strengths as ordinate and distance as abscissa.

(ii) Using semi-log coordinate paper, plot field strength times distance as ordinate on the log scale and distance as abscissa on the linear scale.

(3) However, regardless of which of the methods in paragraph (a)(2) of this section is employed, the proper curve to be drawn through the points plotted shall be determined by comparison with the curves in § 73.184 as follows: Place the sheet on which the actual points have been plotted over the appropriate Graph in § 73.184, hold to the light if necessary and adjust until the curve most closely matching the points is found. This curve should then be drawn on the sheet on which the points were plotted, together with the inverse distance curve corresponding to that curve. The field at 1 kilometer for the radial concerned shall be the ordinate on the inverse distance curve at 1 kilometer.

(4) When all radials have been analyzed in accordance with paragraph (a)(3) of this section, a curve shall be plotted on polar coordinate paper from the fields obtained, which gives the inverse distance field pattern at 1 kilometer. The radius of a circle, the area of which is equal to the area bounded by this pattern, is the effective field. (See § 73.14.)

(5) The antenna power of the station shall be maintained at the authorized level during all field measurements. The power determination will be made using the direct method as described in § 73.51(a) with instruments of acceptable accuracy specified in § 73.1215.

(b) Complete data taken in conjunction with the field strength measurements shall be submitted to the Commission in affidavit form including the following:

(1) Tabulation by number of each point of measurement to agree with the map required in paragraph (b)(2) of this section, the date and time of each measurement, the field strength (E), the distance from the antenna (D) and the product of the field strength and distance (ED) (if data for each radial are plotted on semilogarithmic paper, see above) for each point of measurement.

(2) Map showing each point of measurement numbered to agree with tabulation required above.

(3) Description of method used to take field strength measurements.

(4) The family of theoretical curves used in determining the curve for each radial properly identified by conductivity and dielectric constants.

(5) The curves drawn for each radial and the field strength pattern.

(6) The antenna resistance at the operating frequency.

(7) Antenna current or currents maintained during field strength measurements.

[28 FR 13574, Dec. 14, 1963, as amended at 41 FR 44178, Oct. 7, 1976; 46 FR 11995, Feb. 12, 1981; 49 FR 49851, Dec. 24, 1984; 50 FR 18843, May 2, 1985; 50 FR 47055, Nov. 14, 1985; 51 FR 2707, Jan. 21, 1986; 52 FR 10570, Apr. 2, 1987]

§ 73.187 Limitation on daytime radiation.

(a)(1) Except as otherwise provided in paragraphs (a)(2) and (3) of this section, no authorization will be granted for a Class B or Class D station on a frequency specified in § 73.25 if the proposed operation would radiate during the period of critical hours (the two hours after local sunrise and the two hours before local sunset) toward any point on the 0.1 mV/m contour of a co-channel U.S. Class A station, at or below the pertinent vertical angle determined from Curve 2 of Figure 6a of § 73.190, values in excess of those obtained as provided in paragraph (b) of this section.

(2) The limitation set forth in paragraph (a)(1) of this section shall not apply in the following cases:

(i) Any Class B or Class D operation authorized before November 30, 1959; or

(ii) For Class B and Class D stations authorized before November 30, 1959, subsequent changes of facilities which do not involve a change in frequency, an increase in radiation toward any point on the 0.1 mV/m contour of a co-channel U.S. Class A station, or the move of transmitter site materially closer to the 0.1 mV/m contour of such Class A station.

(3) A Class B or Class D station authorized before November 30, 1959, and subsequently authorized to increase daytime radiation in any direction toward the 0.1 mV/m contour of a co-channel U.S. Class A station (without a change in frequency or a move of transmitter site materially closer to such contour), may not, during the two hours after local sunrise or the two hours before local sunset, radiate in such directions a value exceeding the higher of:

(i) The value radiated in such directions with facilities last authorized before November 30, 1959, or

(ii) The limitation specified in paragraph (a)(1) of this section.

(b) To obtain the maximum permissible radiation for a Class B or Class D station on a given frequency from 640 through 990 kHz, multiply the radiation value obtained for the given distance and azimuth from the 500 kHz chart (Figure 9 of § 73.190) by the appropriate interpolation factor shown in the K_{500} column of paragraph (c) of this section; and multiply the radiation value obtained for the given distance and azimuth from the 1000 kHz chart (Figure 10 of § 73.190) by the appropriate interpolation factor shown in the K_{1000} column of paragraph (c) of this section. Add the two products thus obtained; the result is the maximum radiation value applicable to the Class B or Class D station in the pertinent directions. For frequencies from 1010 to 1580 kHz, obtain in a similar manner the proper radiation values from the 1000 and 1600 kHz charts (Figures 10 and 11 of § 73.190), multiply each of these values by the appropriate interpolation factors in the K'_{1000} and K'_{1600} columns in paragraph (c) of this section, and add the products.

(c) *Interpolation factors.* (1) Frequencies below 1000 kHz.

fkHz	K_{500}	K_{1000}
640	0.720	0.280
650	0.700	0.300
660	0.680	0.320
670	0.660	0.340
680	0.640	0.360
690	0.620	0.380
700	0.600	0.400
710	0.580	0.420
720	0.560	0.440
730	0.540	0.460
740	0.520	0.480
750	0.500	0.500
760	0.480	0.520
770	0.460	0.540
780	0.440	0.560
800	0.400	0.600
810	0.380	0.620
820	0.360	0.640
830	0.340	0.660
840	0.320	0.680
850	0.300	0.700
860	0.280	0.720
870	0.260	0.740
880	0.240	0.760
890	0.220	0.780
900	0.200	0.800
940	0.120	0.880
990	0.020	0.980

(2) Frequencies above 1000 kHz.

f′kHz	K'_{1000}	K'_{1600}
1010	0.983	0.017
1020	0.967	0.033
1030	0.950	0.050
1040	0.933	0.067
1050	0.917	0.083
1060	0.900	0.100
1070	0.883	0.117
1080	0.867	0.133
1090	0.850	0.150
1100	0.833	0.167
1110	0.817	0.183
1120	0.800	0.200
1130	0.783	0.217
1140	0.767	0.233
1160	0.733	0.267
1170	0.717	0.283
1180	0.700	0.300
1190	0.683	0.317
1200	0.667	0.333
1210	0.650	0.350
1220	0.633	0.367
1500	0.167	0.833
1510	0.150	0.850
1520	0.133	0.867
1530	0.117	0.883
1540	0.100	0.900
1550	0.083	0.917
1560	0.067	0.933
1570	0.050	0.950
1580	0.033	0.967

[28 FR 13574, Dec. 14, 1963, as amended at 49 FR 43962, Nov. 1, 1984; 56 FR 64868, Dec. 12, 1991]

§ 73.189 Minimum antenna heights or field strength requirements.

(a) Section 73.45 requires that all applicants for new, additional, or different broadcast facilities and all licensees requesting authority to move 0the transmitter of an existing station, shall specify a radiating system, the efficiency of which complies with the requirements of good engineering practice for the class and power of the station.

(b) The specifications deemed necessary to meet the requirements of good engineering practice at the present state of the art are set out in detail below.

(1) The licensee of a AM broadcast station requesting a change in power, time of operation, frequency, or transmitter location must also request authority to install a new antenna system or to make changes in the existing antenna system which will meet the minimum height requirements, or submit evidence that the present antenna system meets the minimum requirements with respect to field strength, before favorable consideration will be given thereto. (See § 73.186.) In the event it is proposed to make substantial changes in an existing antenna system, the changes shall be such as to meet the minimum height requirements or will be permitted subject to the submission of field strength measurements showing that it meets the minimum requirements with respect to effective field strength.

(2) These minimum actual physical vertical heights of antennas permitted to be installed are shown by curves A, B, and C of Figure 7 of § 73.190 as follows:

(i) Class C stations, and stations in Alaska, Hawaii, Puerto Rico and the U.S. Virgin Islands on 1230, 1240, 1340, 1400, 1450 and 1490 kHz that were formerly Class C and were redesignated as Class B pursuant to § 73.26(b), 45 meters or a minimum effective field strength of 241 mV/m for 1 kW (121 mV/m for 0.25 kW). (This height applies to a Class C station on a local channel only. Curve A shall apply to any Class C stations in the 48 conterminous States that are assigned to Regional channels.)

(ii) Class A (Alaska), Class B and Class D stations other than those covered in § 73.189(b)(2)(i), a minimum effective field strength of 282 mV/m for 1 kW.

(iii) Class A stations, a minimum effective field strength of 362 mV/m for 1 kW.

(3) The heights given on the graph for the antenna apply regardless of whether the antenna is located on the ground or on a building. Except for the reduction of shadows, locating the antenna on a building does not necessarily increase the efficiency and where the height of the building is in the order of a quarter wave the efficiency may be materially reduced.

(4) At the present development of the art, it is considered that where a vertical radiator is employed with its base on the ground, the ground system should consist of buried radial wires at least one-fourth wave length long. There should be as many of these radials evenly spaced as practicable and in no event less than 90. (120 radials of 0.35 to 0.4 of a wave length in length and spaced 3° is considered an excellent ground system and in case of high base voltage, a base screen of suitable dimensions should be employed.)

(5) In case it is contended that the required antenna efficiency can be obtained with an antenna of height or ground system less than the minimum specified, a complete field strength survey must be supplied to the Commission showing that the field strength at a mile without absorption fulfills the minimum requirements. (See § 73.186.) This field survey must be made by a qualified engineer using equipment of acceptable accuracy.

(6) The main element or elements of a directional antenna system shall meet the above minimum requirements with respect to height or effective field strength. No directional antenna system will be approved which is so designed that the effective field of the array is less than the minimum prescribed for the class of station concerned, or in case of a Class A station less than 90 percent of the ground wave field which would be obtained from a perfect antenna of the height specified by Figure 7 of § 73.190 for operation on frequencies below 1000 kHz, and in the case of a Class B or Class D station less than 90 percent of the ground wave

field which would be obtained from a perfect antenna of the height specified by Figure 7 of § 73.190 for operation on frequencies below 750 kHz.

[28 FR 13574, Dec. 14, 1963, as amended at 31 FR 8069, June 8, 1966; 33 FR 15420, Oct. 17, 1968; 44 FR 36038, June 20, 1979; 50 FR 18844, May 2, 1985; 51 FR 2707, Jan. 21, 1986; 51 FR 4753, Feb. 7, 1986; 52 FR 10570, Apr. 2, 1987; 56 FR 64868, Dec. 12, 1991]

§ 73.190 Engineering charts and related formulas.

(a) This section consists of the following Figures: 2, r3, 5, 6a, 7, 8, 9, 10, 11, 12, and 13. Additionally, formulas that are directly related to graphs are included.

(b) Formula 1 is used for calculation of 50% skywave field strength values.

FORMULA 1. Skywave field strength, 50% of the time (at SS+6):

The skywave field strength, $F_c(50)$, for a characteristic field strength of 100 mV/m at 1 km is given by:

$$F_c(50) = (97.5 - 20\log D) - \left(2\pi + 4.95\tan^2\phi_M\right)\sqrt{\left(\frac{D}{1000}\right)} \quad dB(\mu V/m) \qquad \text{(Eq. 1)}$$

The slant distance, D, is given by:

$$D = \sqrt{40{,}000 + d^2} \quad km \qquad \text{(Eq. 2)}$$

The geomagnetic latitude of the midpoint of the path, Φ_M, is given by:

Φ_M = arcsin[sin a_M sin 78.5°

+ cos a_M cos 78.5° cos(69 + b_M)]

degrees (Eq. 3)

The short great-circle path distance, d, is given by:

$$d = 111.18 d^\circ \; km \qquad \text{(Eq. 4)}$$

Where:

$d°$ = arccos[sin a_T sin a_R

+ cos a_T cos a_R cos(b_R − b_T)]

degrees (Eq.5)

Where:

a_T is the geographic latitude of the transmitting terminal (degrees)

a_R is the geographic latitude of the receiving terminal (degrees)

b_T is the geographic longitude of the transmitting terminal (degrees)

b_R is the geographic longitude of the receiving terminal (degrees)

a_M is the geographic latitude of the midpoint of the great-circle path (degrees) and is given by:

b_M is the geographic longitude of the midpoint of the great-circle path (degrees) and is given by:

$$a_M = 90 - \arccos\left[\sin a_R \cos\left(\frac{d^\circ}{2}\right) + \cos a_R \sin\left(\frac{d^\circ}{2}\right)\left(\frac{\sin a_T - \sin a_R \cos d^\circ}{\cos a_R \sin d^\circ}\right)\right] \qquad \text{(Eq. 6)}$$

$$b_M = b_R + k\left[\arccos\left(\frac{\cos\left(\frac{d^\circ}{2}\right) - \sin a_R \sin a_M}{\cos a_R \cos a_M}\right)\right] \qquad \text{(Eq. 7)}$$

Note (1): If | F_M| is greater than 60 degrees, equation (1) is evaluated for | F_M| = 60 degrees.

Note (2): North and east are considered positive; south and west negative.

Note (3): In equation (7), $k = -1$ for west to east paths (i.e., $b_R > b_T$), otherwise $k = 1$.

(c) Formula 2 is used for calculation of 10% skywave field strength values.

FORMULA 2. Skywave field strength, 10% of the time (at SS+6):

The skywave field strength, $F_c(10)$, is given by:

$F_c(10) = F_c(50) + \Delta \quad dB(\mu V/m)$

Where:

$\Delta = 6$ when $|F_M| < 40$

$\Delta = 0.2\,|F_M| - 2$ when $40 \leq |F_M| \leq 60$

$\Delta = 10$ when $|F_M| > 60$

(d) Figure 6a depicts angles of departure versus transmission range. These angles may also be computed using the following formulas:

$$\theta^\circ = \tan^{-1}\left(k_n \cot\frac{d}{444.54}\right) - \frac{d}{444.54}$$

Where:

d=distance in kilometers
n=1 for 50% field strength values
n=2 or 3 for 10% field strength values
and where
K_1=0.00752
K_2=0.00938
K_3=0.00565

NOTE: Computations using these formulas should not be carried beyond 0.1 degree.

(e) In the event of disagreement between computed values using the formulas shown above and values obtained directly from the figures, the computed values will control.

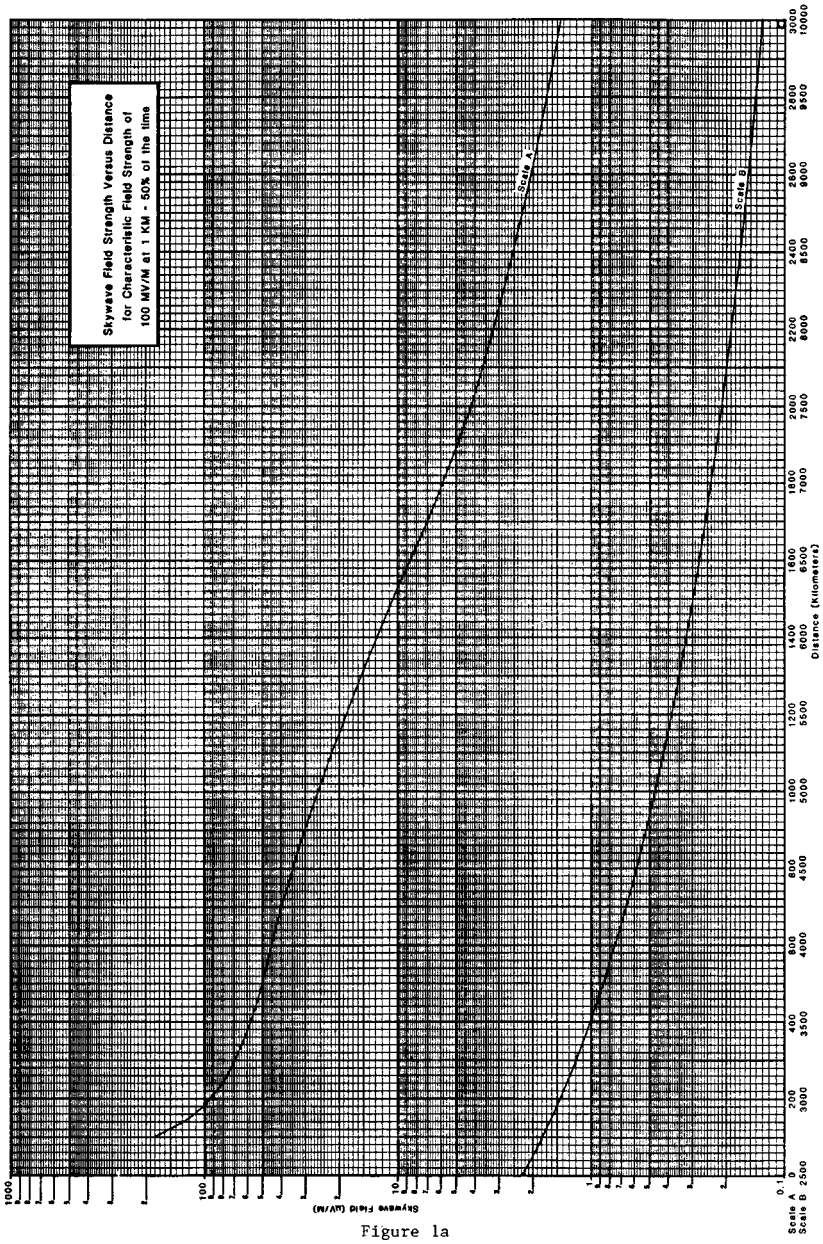

Skywave Field Strength Versus Distance
for Characteristic Field Strength of
100 MV/M at 1 KM - 50% of the time
Scale A
Scale B
Distance (kilometers)
Skywave Field (uV/M)
1000
100
10
1
0.1
Scale A 0 200 400 600 800 1000 1200 1400 1600 1800 2000 2200 2400 2600 2800 3000
Scale B 2500 3000 3500 4000 4500 5000 5500 6000 6500 7000 7500 8000 8500 9000 9500 10000

Figure 1a

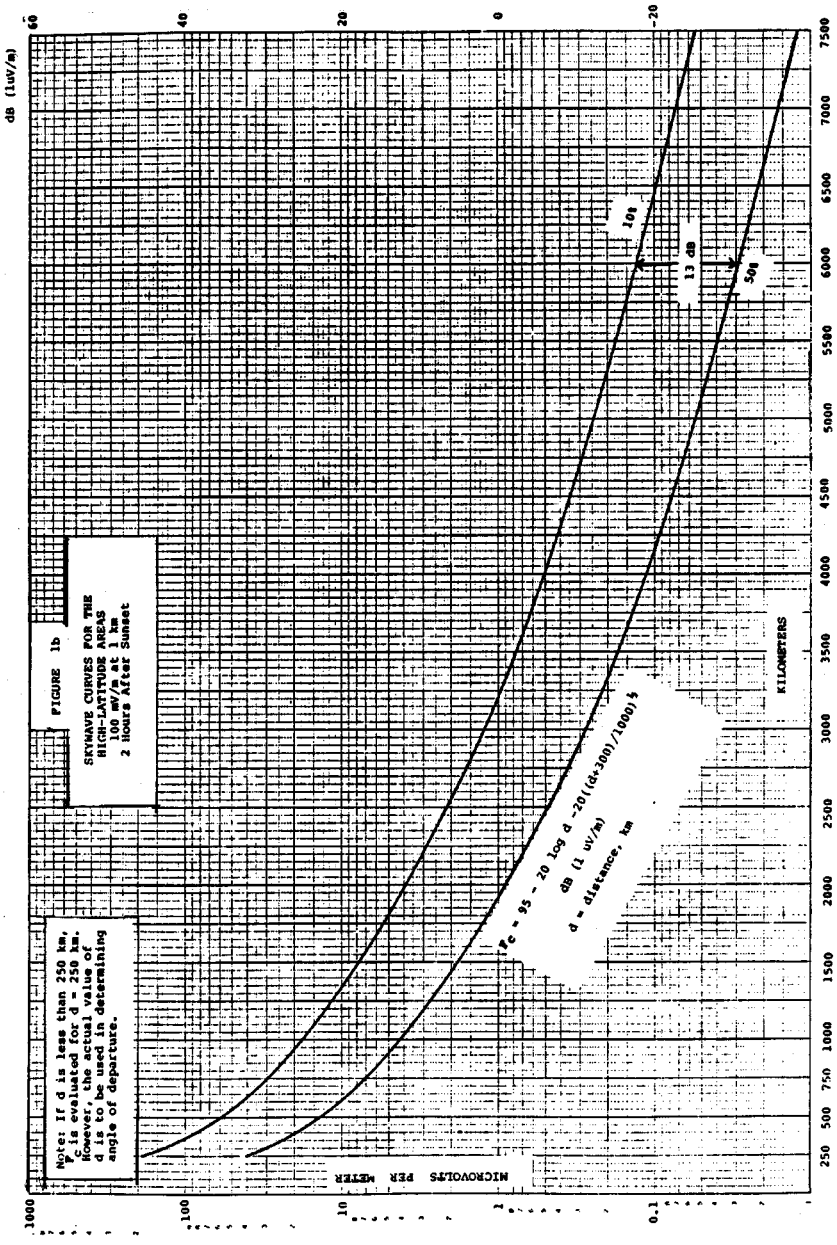
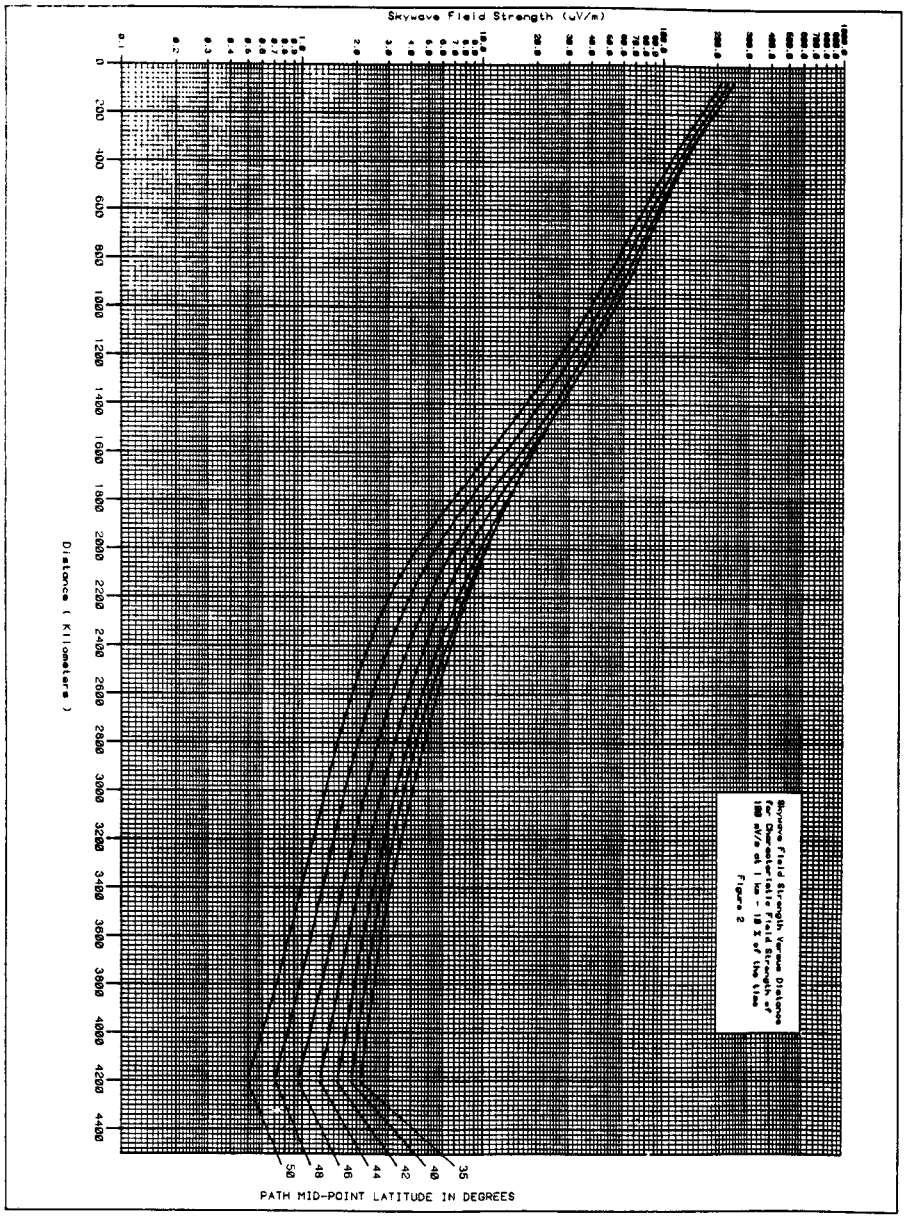


FIGURE 1b
SKYWAVE CURVES FOR THE HIGH-LATITUDE AREAS 100 mV/m at 1 km 2 Hours After Sunset
Note: If d is less than 250 km, Fc is evaluated for d = 250 km. However, the actual value of d is to be used in determining angle of departure.
Fc = 95 - 20 log d -20((d+300)/1000)½
dB (1 uV/m)
d = distance, km
10%
50%
13 dB
KILOMETERS
MICROVOLTS PER METER
dB (1uV/m)
60
40
20
0
-20
250
500
750
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
6500
7000
7500
1000
100
10
1
0.1


Skywave Field Strength (uV/m)
Distance (Kilometers)
PATH MID-POINT LATITUDE IN DEGREES
35
40
42
44
46
48
50
Skywave Field Strength Versus Distance
for Characteristic Field Strength of
100 mV/m at 1 km - 10 % of the time
Figure 2

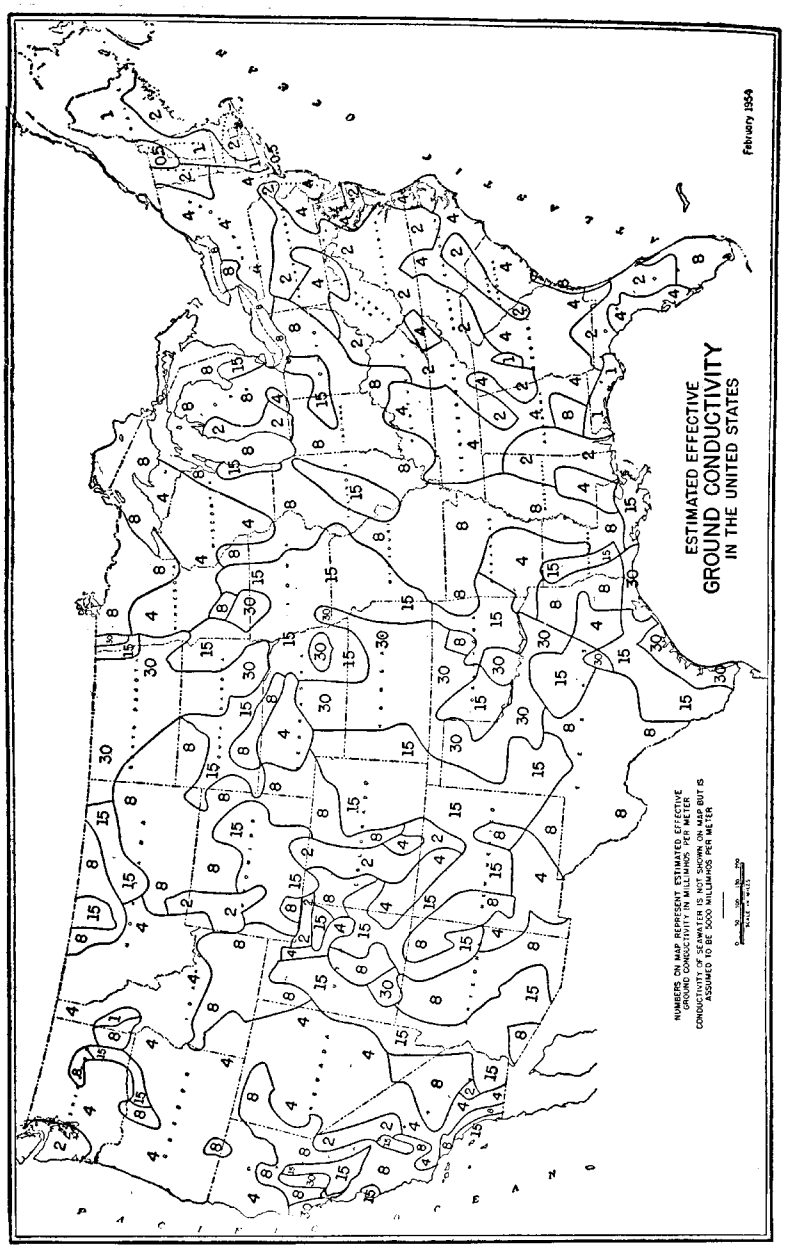

ESTIMATED EFFECTIVE
GROUND CONDUCTIVITY
IN THE UNITED STATES
February 1954
NUMBERS ON MAP REPRESENT ESTIMATED EFFECTIVE GROUND CONDUCTIVITY IN MILLIMHOS PER METER
CONDUCTIVITY OF SEAWATER IS NOT SHOWN ON MAP BUT IS ASSUMED TO BE 5000 MILLIMHOS PER METER

FIGURE R3.

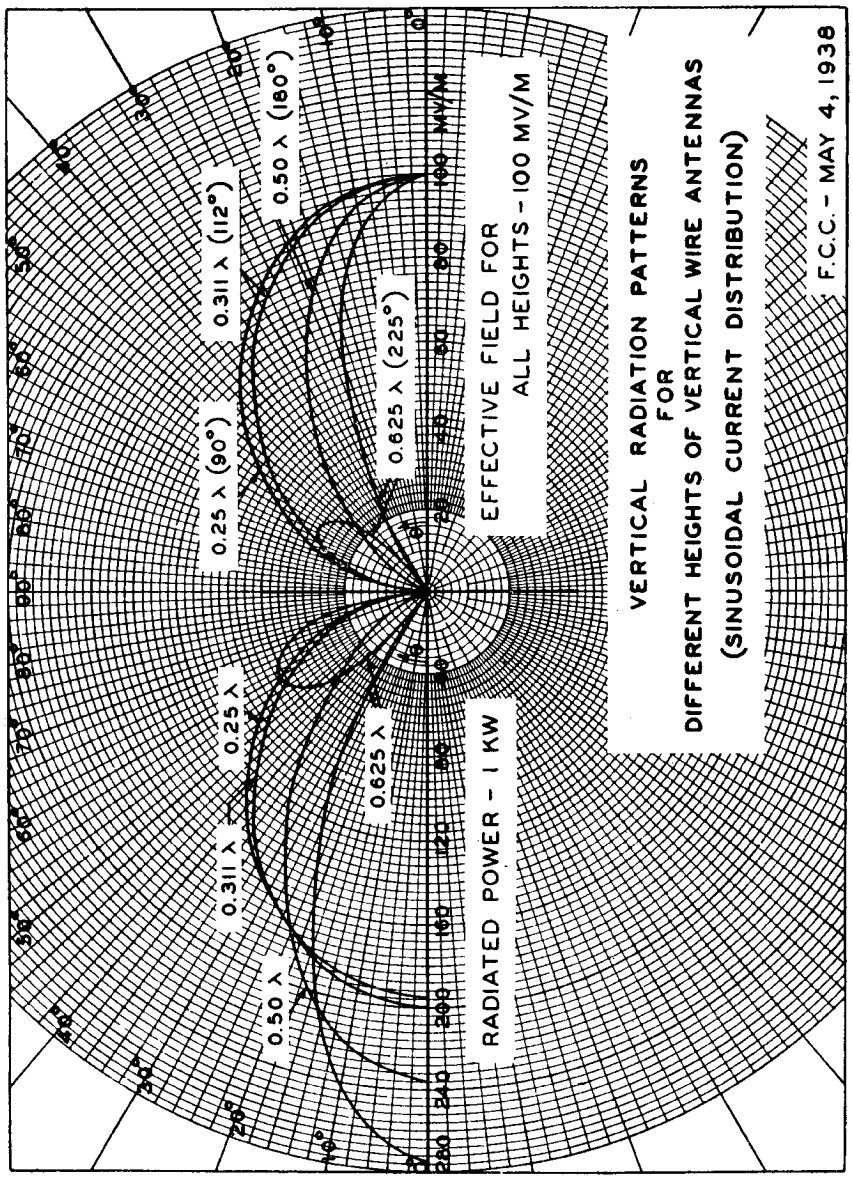
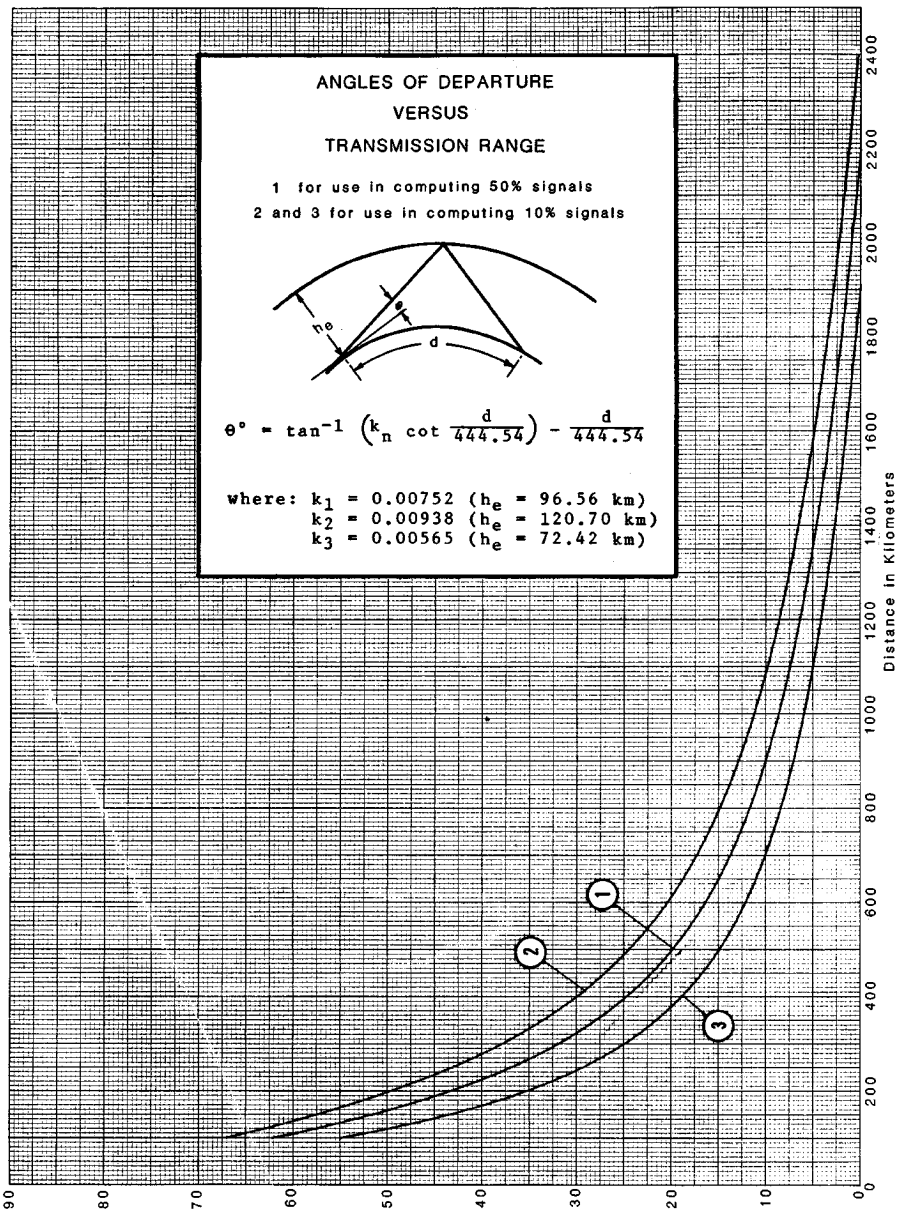

VERTICAL RADIATION PATTERNS
FOR
DIFFERENT HEIGHTS OF VERTICAL WIRE ANTENNAS
(SINUSOIDAL CURRENT DISTRIBUTION)
F.C.C. - MAY 4, 1938
EFFECTIVE FIELD FOR
ALL HEIGHTS - 100 MV/M
RADIATED POWER - 1 KW
0.25 λ (90°)
0.311 λ (112°)
0.50 λ (180°)
0.625 λ (225°)
0.311 λ
0.25 λ
0.625 λ
0.50 λ
100 MV/M
90
80
70
60
50
40
30
20
10
0°
10°
20°
30°
40°
50°
60°
70°
80°
90°
100°
110°
120°
130°
140°
150°
160°
170°
180°
190°
200°
210°
220°
230°
240°
250°
260°
270°

Figure 5



FCC §73.190 FIGURE 6a Corr. 11/86

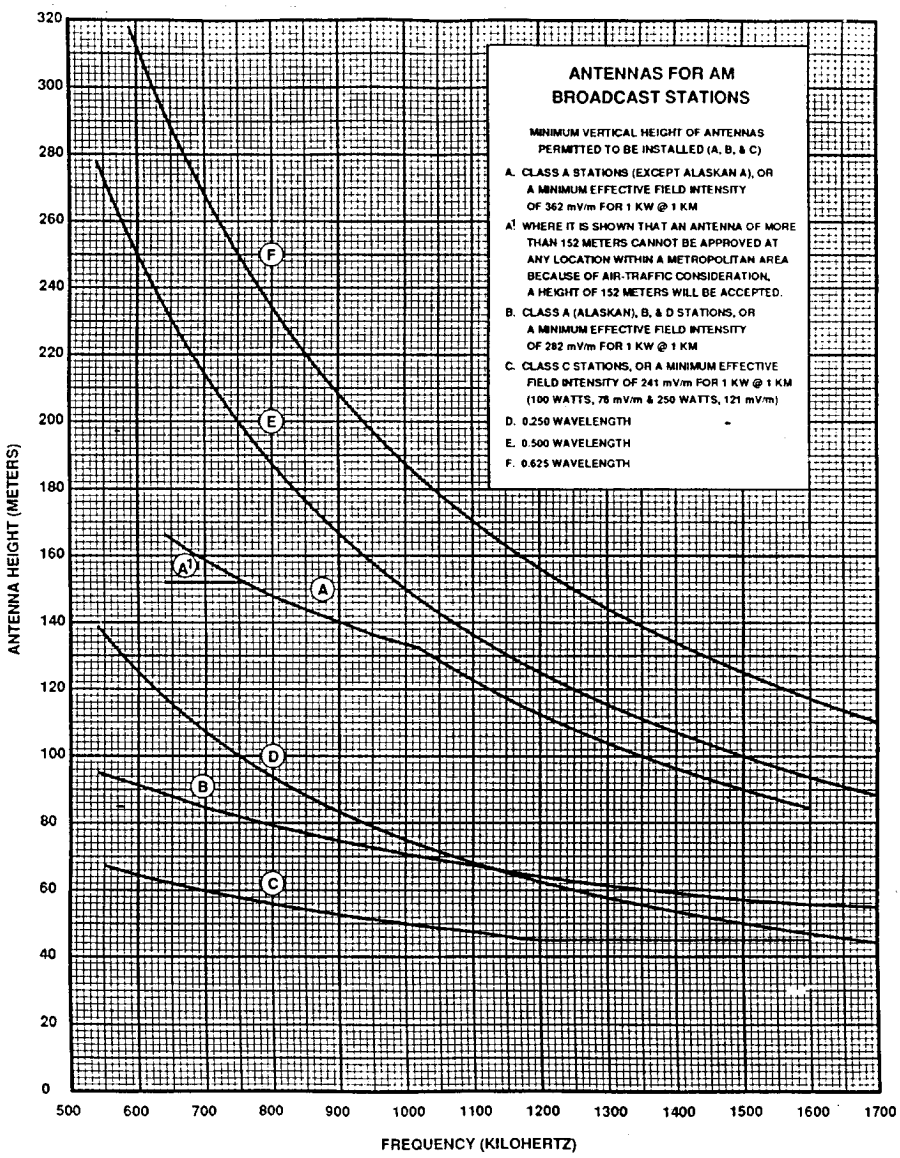

ANTENNAS FOR AM BROADCAST STATIONS
MINIMUM VERTICAL HEIGHT OF ANTENNAS PERMITTED TO BE INSTALLED (A, B, & C)
A. CLASS A STATIONS (EXCEPT ALASKAN A), OR A MINIMUM EFFECTIVE FIELD INTENSITY OF 362 mV/m FOR 1 KW @ 1 KM
A1 WHERE IT IS SHOWN THAT AN ANTENNA OF MORE THAN 152 METERS CANNOT BE APPROVED AT ANY LOCATION WITHIN A METROPOLITAN AREA BECAUSE OF AIR-TRAFFIC CONSIDERATION, A HEIGHT OF 152 METERS WILL BE ACCEPTED.
B. CLASS A (ALASKAN), B, & D STATIONS, OR A MINIMUM EFFECTIVE FIELD INTENSITY OF 282 mV/m FOR 1 KW @ 1 KM
C. CLASS C STATIONS, OR A MINIMUM EFFECTIVE FIELD INTENSITY OF 241 mV/m FOR 1 KW @ 1 KM (100 WATTS, 76 mV/m & 250 WATTS, 121 mV/m)
D. 0.250 WAVELENGTH
E. 0.500 WAVELENGTH
F. 0.625 WAVELENGTH
ANTENNA HEIGHT (METERS)
FREQUENCY (KILOHERTZ)
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
300
320
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
F
E
A1
A
D
B
C

Figure 7

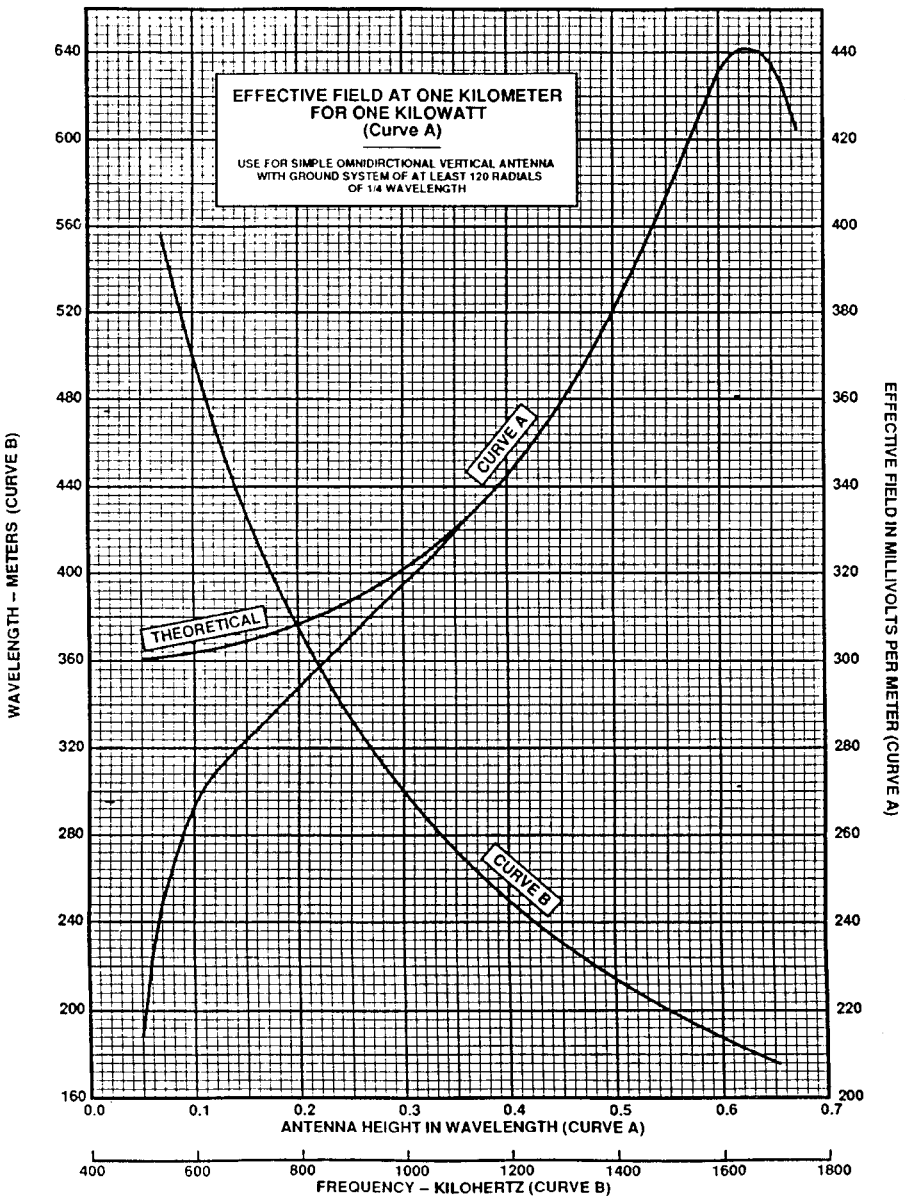

EFFECTIVE FIELD AT ONE KILOMETER
FOR ONE KILOWATT
(Curve A)
USE FOR SIMPLE OMNIDIRCTIONAL VERTICAL ANTENNA
WITH GROUND SYSTEM OF AT LEAST 120 RADIALS
OF 1/4 WAVELENGTH
THEORETICAL
CURVE A
CURVE B
WAVELENGTH – METERS (CURVE B)
EFFECTIVE FIELD IN MILLIVOLTS PER METER (CURVE A)
640
600
560
520
480
440
400
360
320
280
240
200
160
440
420
400
380
360
340
320
300
280
260
240
220
200
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
ANTENNA HEIGHT IN WAVELENGTH (CURVE A)
400
600
800
1000
1200
1400
1600
1800
FREQUENCY – KILOHERTZ (CURVE B)

Figure 8

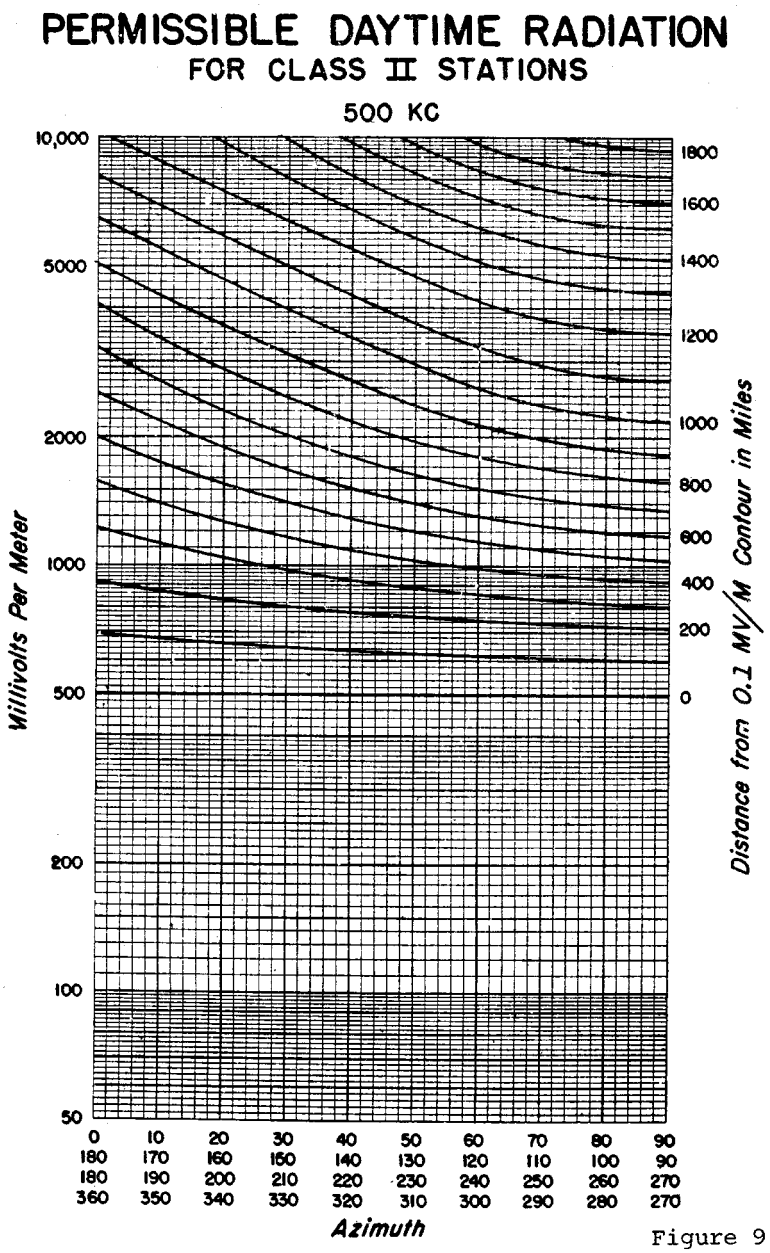

PERMISSIBLE DAYTIME RADIATION
FOR CLASS II STATIONS
500 KC
Millivolts Per Meter
10,000
5000
2000
1000
500
200
100
50
Distance from 0.1 MV/M Contour in Miles
1800
1600
1400
1200
1000
800
600
400
200
0
0 10 20 30 40 50 60 70 80 90
180 170 160 150 140 130 120 110 100 90
180 190 200 210 220 230 240 250 260 270
360 350 340 330 320 310 300 290 280 270
Azimuth

Figure 9

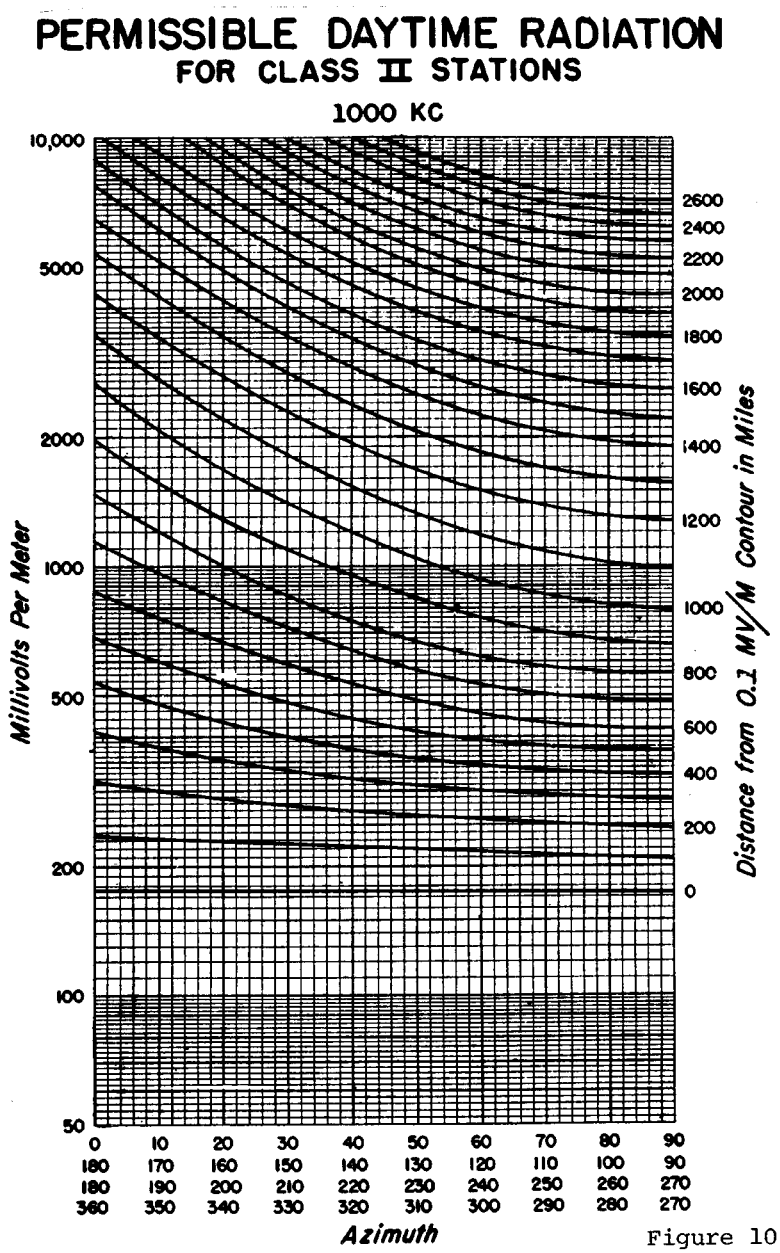

PERMISSIBLE DAYTIME RADIATION
FOR CLASS II STATIONS
1000 KC
10,000
5000
2000
1000
500
200
100
50
Millivolts Per Meter
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Distance from 0.1 MV/M Contour in Miles
0 10 20 30 40 50 60 70 80 90
180 170 160 150 140 130 120 110 100 90
180 190 200 210 220 230 240 250 260 270
360 350 340 330 320 310 300 290 280 270
Azimuth

Figure 10

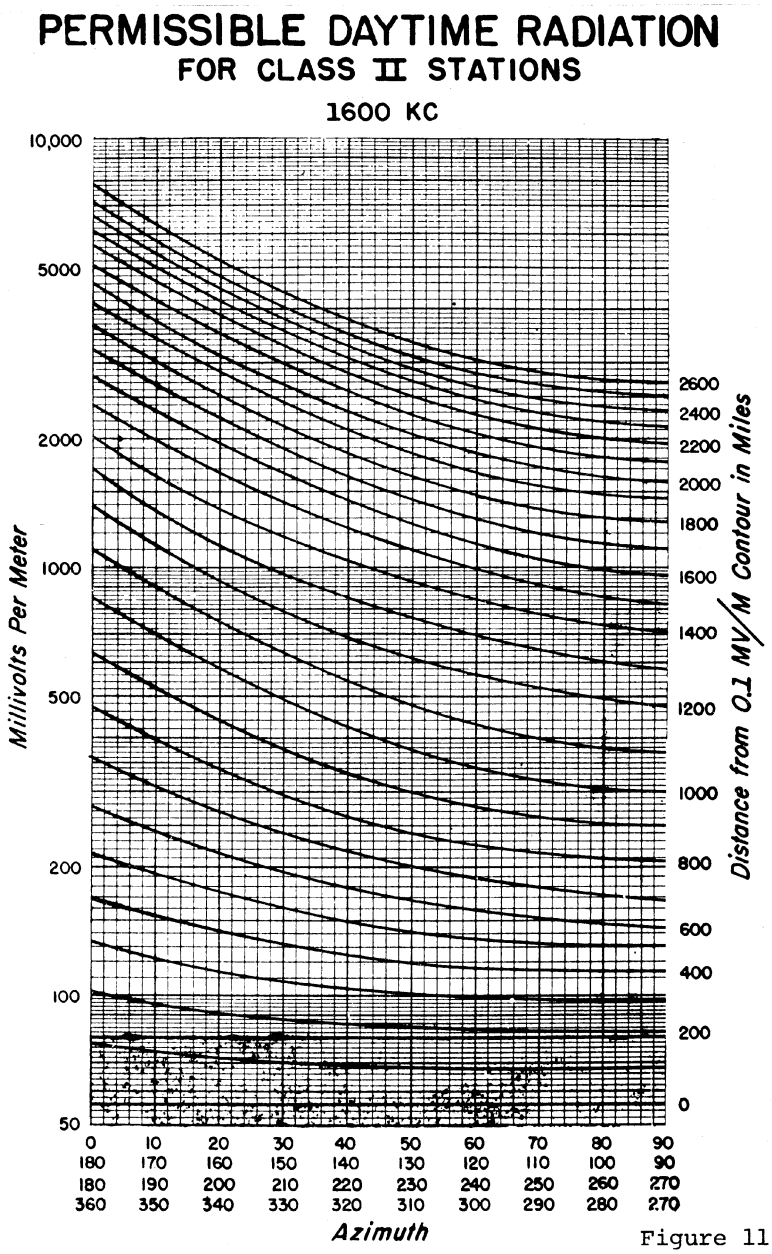
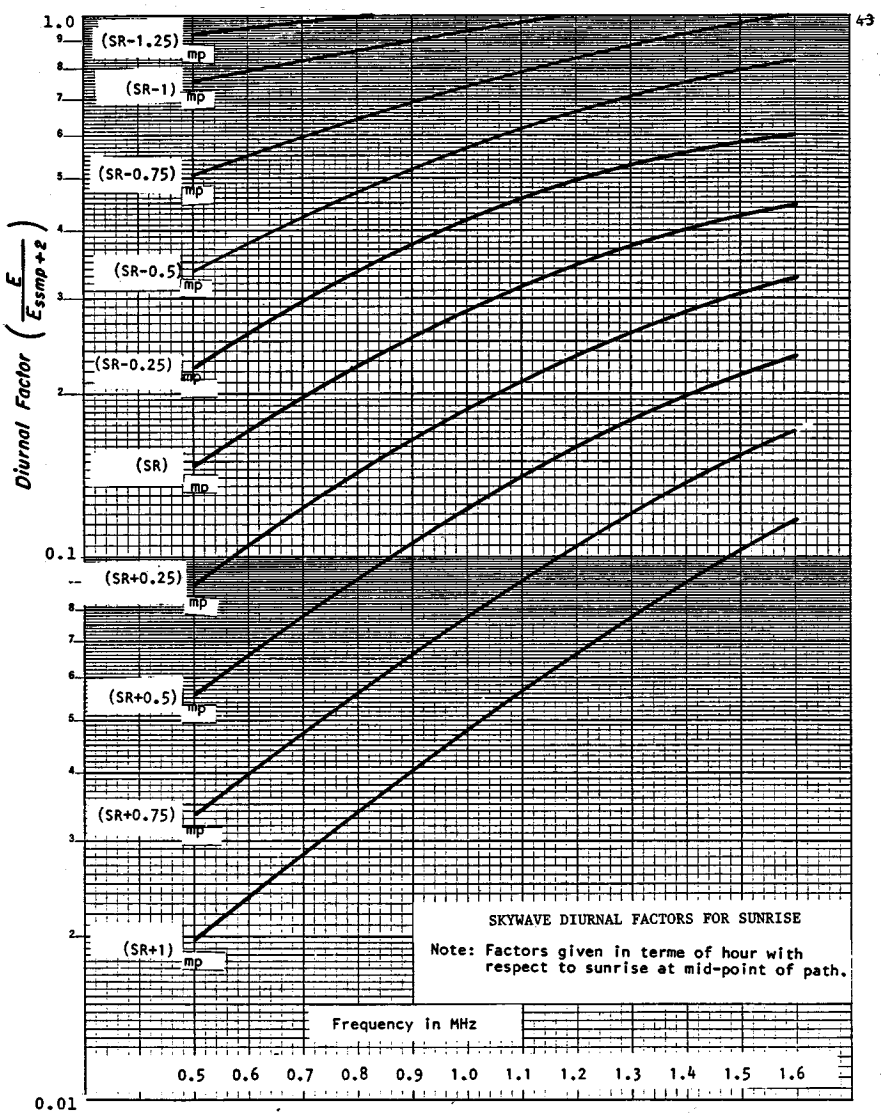
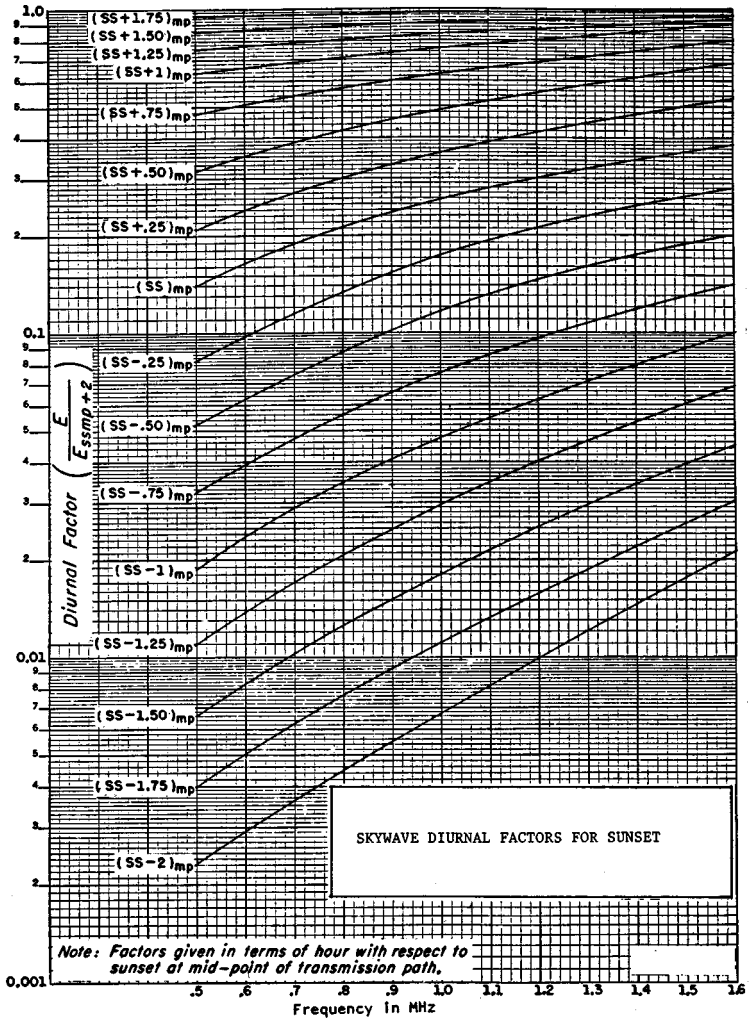

PERMISSIBLE DAYTIME RADIATION
FOR CLASS II STATIONS
1600 KC
Millivolts Per Meter
10,000
5000
2000
1000
500
200
100
50
Distance from 0.1 MV/M Contour in Miles
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0 10 20 30 40 50 60 70 80 90
180 170 160 150 140 130 120 110 100 90
180 190 200 210 220 230 240 250 260 270
360 350 340 330 320 310 300 290 280 270
Azimuth

Figure 11



FCC §73.190 Figure 12



FCC § 73.190 Figure 13

[28 FR 13574, Dec. 14, 1963, as amended at 30 FR 12720, Oct. 6, 1965; 33 FR 15420, Oct 17, 1968; 48 FR 42959, Sept. 20, 1983; 49 FR 43963, Nov. 1, 1984; 50 FR 18844, May 2, 1985; 51 FR 4753, Feb. 7, 1986; 52 FR 36879, Oct. 1, 1987; 56 FR 64869, Dec. 12, 1991]

Subpart B—FM Broadcast Stations

§ 73.201 Numerical designation of FM broadcast channels.

The FM broadcast band consists of that portion of the radio frequency spectrum between 88 MHz and 108 MHz. It is divided into 100 channels of 200 kHz each. For convenience, the frequencies available for FM broadcasting (including those assigned to noncommercial educational broadcasting) are given numerical designations which are shown in the table below:

Frequency (Mc/s)	Channel No.
88.1	201
88.3	202
88.5	203
88.7	204
88.9	205
89.1	206
89.3	207
89.5	208
89.7	209
89.9	210
90.1	211
90.3	212
90.5	213
90.7	214
90.9	215
91.1	216
91.3	217
91.5	218
91.7	219
91.9	220
92.1	221
92.3	222
92.5	223
92.7	224
92.9	225
93.1	226
93.3	227
93.5	228
93.7	229
93.9	230
94.1	231
94.3	232
94.5	233
94.7	234
94.9	235
95.1	236
95.3	237
95.5	238
95.7	239
95.9	240
96.1	241
96.3	242
96.5	243
96.7	244
96.9	245
97.1	246
97.3	247
97.5	248
97.7	249
97.9	250
98.1	251
98.3	252
98.5	253
98.7	254
98.9	255
99.1	256
99.3	257
99.5	258
99.7	259
99.9	260
100.1	261
100.3	262
100.5	263
100.7	264
100.9	265
101.1	266
101.3	267
101.5	268
101.7	269
101.9	270
102.1	271
102.3	272
102.5	273
102.7	274
102.9	275
103.1	276
103.3	277
103.5	278
103.7	279
103.9	280
104.1	281
104.3	282
104.5	283
104.7	284
104.9	285
105.1	286
105.3	287
105.5	288
105.7	289
105.9	290
106.1	291
106.3	292
106.5	293
106.7	294
106.9	295
107.1	296
107.3	297
107.5	298
107.7	299
107.9	300

NOTE: The frequency 108.0 MHz may be assigned to VOR test stations subject to the condition that interference is not caused to the reception of FM broadcasting stations, present or future.

[28 FR 13623, Dec. 14, 1963, as amended at 30 FR 4480, Apr. 7, 1965; 52 FR 10570, Apr. 2, 1987]

§ 73.202 Table of Allotments.

(a) *General.* The following Table of Allotments contains the channels (other than noncommercial educational Channels 201–220) designated for use in communities in the United States, its territories, and possessions. All listed channels are for Class B stations in Zones I and I–A and for Class C stations in Zone II unless otherwise specifically designated.

(1) Channels designated with an asterisk may be used only by noncommercial educational broadcast stations. The rules governing the use of those channels are contained in § 73.501.

(2) Each channel listed in the Table of Allotments reflects the class of station that is authorized, or has an application filed, to use it based on the minimum and maximum facility requirements for each class contained in § 73.211.

NOTE: The provisions of this paragraph [(a)(2) of this section] become effective [3 years from the effective date of the Report and Order in BC Docket 80–90].

(b) *Table of FM Allotments.*

ALABAMA

	Channel No.
Abbeville	232C3
Addison	289A
Albertville	286C
Alexander City	291C1
Andalusia	251C1, 279A
Anniston	263C
Arab	224A
Ashland	238A
Athens	282C
Atmore	290A
Auburn	249A
Bay Minette	288A
Birmingham	229C, 233C, 243C, 258C, 284C, 295C, 299C
Brantley	262A
Brewton	292A
Brundidge	234A
Butler	228C2
Camden	272A
Carrollton	231C
Centre	290A
Chickasaw	252C2
Citronelle	271C3
Clanton	249A
Columbia	221A
Columbiana	268A
Cordova	237A
Cullman	221A, 266C
Dadeville	247A
Daphne	293C2
Decatur	245C, 271C1
Demopolis	293C3
Dora	223A
Dothan	238C, 259C1, 267A, 273C3
East Brewton	239A
Elba	266A
Enterprise	245C, 294C
Eufaula	224C2, 250A
Eutaw	282A
Eva	260A
Evergreen	227C1
Fairhope	221C3
Fayette	251C1
Florence	241A, 297C
Fort Mitchell	252A
Fort Rucker	263A
Fruithurst	274A
Gadsden	279C
Geneva	229C1

ALABAMA—Continued

	Channel No.
Georgiana	299C2
Glencoe	226A
Greensboro	256A
Greenville	232A, 240A
Grovehill	291C3
Guntersville	240C3
Haleyville	224A
Hamilton	221A
Hartselle	291C3
Headland	287C3
Homewood	247A
Huntsville	236C2, 256C
Jackson	233C2
Jasper	273C
Linden	275C2, 253C1
Lisman	299A
Luverne	282C1
Meridianville	231A
Millbrook	246A
Mobile	225C, 235C, 241C, 248C, 260C
Monroeville	257C2
Montgomery	222C, 241A, 255C1, 255C2, 270C, 277C
Moulton	276A
Muscle Shoals	288A
Northport	264C3
Oneonta	249A
Opelika	244A
Opp	272A
Orange Beach	289A
Orrville	274A
Oxford	250A
Ozark	280C3, 285A
Phoenix City	261A
Pine Hill	244C3
Prattville	236C2
Reform	269C2
Repton	266A
Roanoke	272C3
Rogersville	230A
Russellville	249A
Scottsboro	252A
Selma	261C2, 265C2, 287C2
Sheffield	292C3
Smiths	267A
Stevenson	269A
Sylacauga	252A
Talladega	224A, 248A
Tallassee	260A
Thomaston	249A
Thomasville	238C3
Trinity	223A
Troy	289C
Trussville	290A
Tuscaloosa	225C1, 239C1, 288A
Tuscumbia	262C
Tuskegee	240A
Union Springs	231A
Uniontown	298A
Valley	237A
Vernon	293A
Warrior	254C1, 254C2
Wetumpka	250A
Winfield	290A
York	285C2

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Anchorage	225C, 229C2, 247C1, 251C1, 255C1, 263C2, 267C2, 271C3, 276C1, 281C1,287C1, 293C, 298C1
Bethel	252C3, 261C3
College	280A
Cordova	265A
Delta Junction	228A
Dillingham	256A
Fairbanks	240C3, 245C3, 251C1, 266C2, 273C, 284C3
Haines	*272A
Homer	278C
Houston	221A, 234C2, 241A, 242A
Juneau	264A, 274A, 282A, 286A, 292C3
Kasilof	295A
Kenai	261C3
Ketchikan	260A, 290C3, 294A
Kodiak	261A, 266A
Kotzebue	280A
Naknek	265A
Nikiski	227C2
Nome	241A, 262A
North Pole	262C1
Palmer	238C1
Petersburg	*265A
Seward	290A
Sitka	276C2, 284A
Soldotna	243C3, 269C3
Valdez	227A
Wasilla	259C1
Wrangell	*269A
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Apache junction	296C2
Arizona City	293A
Bagdad	276C3
Benson	249A
Bisbee	222A
Buckeye	295C2
Bullhead City	274C
Casa Grande	288C2
Chandler	300C
Chinle	297C2
Chino Valley	280C3
Claypool	291A
Clifton	271C1
Colorado City	296C3
Comobabi	*275A
Cottonwood	240C1, 289C3
Douglas	237A, 243A
Duncan	264A
Eager	223C1
Flagstaff	225C, 230C, 248C, 261C2
Florence	276C1
Gilbert	280C2
Glendale	222C, 278C
Globe	247C3, 262C
Green Valley	221C2, 246A
Holbrook	221C1
Kachina Village	286C2
Kearny	287C2
Kingman	234C, 260C2, 290C1
Lake Havasu City	224C2, 244C2, 266C3, 283C2, 286C2
Marana	252A

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Mesa	284C, 227C
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Nogales	252A, 256A
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Oro Valley	248A, 270A
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Paradise Valley	290C3
Parker	230C3, 257C2
Payson	266C1, 282C
Phoenix	233C, 238C, 245C, 254C, 260C, 268C, 273C
Pinetop	294C1
Prescott	256C, 271C
Prescott Valley	252C2, 294C2
Quartzsite	232A
Safford	231C
Seligman	277A
St. Johns	239C
Strasburg	272A
Scottsdale	264C
Sedona	275C, 298C
Show Low	228C3, 243C
Sierra Vista	265A, 269A
Springerville	269A
Sun City	292C2
Tempe	250C
Thatcher	256C
Tuba City	250C1
Tucson	225C, 229C, 235C, 241C, 258C, 281A, 298C
Tusayan	221A
Wellton	283C2
Wickenburg	231C3, 287C2
Willcox	223C3, 285C3
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Window Rock	241C1, 274C3
Winslow	236C
Yuma	226C, 236C, 265A

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Ashdown	221A, 280A
Atkins	257A
Augusta	249C2
Bald Knob	296C3
Barling	233A
Batesville	226C, 258A
Beebe	268A
Bella Vista	293C2
Benton	294C2
Bentonville	239A, 252C1
Berryville	296C3
Blossom	224C2
Blytheville	242C1
Booneville	284C2
Brinkley	272A
Cabot	273A
Camden	246C2, 283A
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Clarendon	281A
Clarksville	224A, 295A
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Coalgate	288C2
Conway	224A, 286C1
Corning	228A
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De Witt	247C2
DeQueen	226C2
Dermott	276A, 289A
Des Arc	284A
Dumas	295C3
Earle	280C3
East Camden	237C1
El Dorado	227C3, 240A, 254C3, 268A, 277C1
England	243C3
Eudora	268A
Eureka Springs	265A
Fairfield Bay	291C2
Fayetteville	221C3, 280C1, 300C
Fordyce	272A
Forrest City	228C3
Fort Smith	229C, 256C, 260C, 264C2
Glenwood	283A
Gosnell	297A
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Greenwood	268A, 292C3
Grosnell	230A
Gurdon	224A
Hamburg	258A
Hampton	293C3
Hardy	284A
Harrisburg	240C3
Harrison	244A, 241C2, 275C1
Hatfield	281C2
Heber Springs	264C2
Helena	233C3, 276C3
Hope	269C2, 285A
Horseshoe Bend	293A
Hot Springs	244A, 248C1, 290C1
Hot Springs Village	225A
Hoxie	287A
Humnoke	269A
Huntsville	258C3
Jacksonville	262C1
Jonesboro	263C2, 270C, 300C1
Lakeview	228C3
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Lake Village	240A, 278A
Little Rock	231C, 239C, 253C, 258A, 279C
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Malvern	227A, 268A
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Marianna	287A
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Marked Tree	229A
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Maumelle	235C, 245A
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Monticello	228A, 260C3
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Mountain Pine	270A
Mountain View	277C
Murfreesboro	258C3
Nashville	245A, 288A
Newport	244C2
North Crossett	274C3
North Little Rock	266A
Ola	267A
Ozark	244A
Pangburn	256A
Paragould	296A
Paris	237C2
Piggott	288A
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Prairie Grove	235C2
Rogers	232C2
Russellville	265A
Salem	265A
Searcy	260C2
Sheridan	275C2
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Springdale	285A
Stamps	263C2, 282A
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Texarkana	284A, 292C2, 296A
Trumann	294A
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Viola	232C3
Waldo	256A
Waldron	276C3
Walnut Ridge	292A
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West Helena	233C3, 285A
White Hall	283A
Wilson	234A
Wrightsville	299C2
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Alturas	267C, 293C1, 297C
Anaheim	240A
Anderson	234C2
Apple Valley	272A
Arcadia	296A
Arcata	226C
Arnold	240A, 291B1
Arvin	223A
Atascadero	283B
Atwater	223A
Auberry	286B1
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Avalon	224A
Avenal	289A
Baker	235B1, 268B
Bakersfield	221A, 231B, 243B, 257B1, 268B, 296A, 300B
Barstow	232B1, 240B1
Beaumont	265A
Berkeley	231B, 275B
Big Bear City	227A
Big Bear Lake	269A
Big Pine	227B
Bishop	264B
Blythe	262B
Brawley	233B, 241B
Burney	291C
Calexico	249A
California City	295A
Calipatria	265A
Calistoga	265A
Camarillo	212B, 240B1
Cambria	235B1, 278A
Carlsbad	239B
Carmel	238A, 269A
Carnelian Bay	279C1
Carpinteria	269A
Cartago	275A
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Chester	255C, 259A
Chico	230B1, 236B, 224A
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Chowchilla	227A
Clovis	221B1
Coachella	229B
Coalinga	261B
Columbia	255A
Colusa	276A, 298B
Compton	272A
Copperopolis	288A
Corcoran	272B1
Corning	264C1
Cresent City	232C3
Cresent North	250C2
Davis	282A
Delano	253B, 287B
Desert Center	288A
Dinuba	255B
Dunnigan	288B1
Dunsmuir	261C3
Earlimart	228A
East Hemet.	
East Los Angeles	250B
East Porterville	263B1
El Cajon	227B
El Centro	298B
El Rio	279A
Ellwood	233B
Escondido	221A
Esparto	250A
Essex	255B, 280B
Eureka	222C1, 242C, 268C, 288C1
Fair Oaks	234B1
Fallbrook	296A
Farmington	232A
Felton	229A
Ferndale	257A
Firebaugh	234A
Ford City	271A
Fort Bragg	228B, 237B1, 253B1
Fortuna	262C1
Fowler	244B1
Freedom	298A
Fremont	285A
Fresno	229B, 239B, 250B, 257A, 266B, 270B, 274B, 290B
Garberville	279C1, 284C
Garden Grove	232A
George	264A
Gilroy	233B
Glendale	270B
Goleta	292A
Gonzales	282A
Grass Valley	232B1, 257A, 277A
Greenacres	291B1
Greenfield	258B, 300B
Gridley	268A
Grover City	297B
Guadalupe	288A
Gualala	263b1
Hanford	233A, 279B, 298B
Healdsburg	225B, 240A, 244A
Hollister	228A
Holtville	261A
Huron	252A
Hydesville	231C1
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Jackson	259A
Johannesburg	280B1
Joshua Tree	221A
Julian	261A
Kerman	232A, 237A
Kernville	273A
King City	230B1, 271B
Kings Beach	299C3
Kingsburg	292A
La Quinta	244A
Lake Arrowhead	280A
Lake Isabella	283A
Lakeport	252A, 258B
Lancaster	292A
Lenwood	245A, 283A
Lindsay	277B1
Livermore	269A
Livingston	240A
Lodi	249A
Lompoc	262B1, 281B1, 285A, 294B1
Long Beach	288A
Los Altos	249A
Los Angeles	222B, 226B, 230B, 234B, 238B, 242B, 246B, 254B, 258B, 262B, 266B, 274B, 278B, 282B, 286B, 290B, 298B
Los Banos	284B, 295A
Los Gatos	237A
Los Molinos	269A
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Lucerne Valley	293A
Ludlow	261B1, 289A
Madera	296B1
Mammoth Lakes	293B1
Manteca	244A
Marina	224B1
Mariposa	242B, 280A
Marysville	260B
McCloud	238C3
McFarland	275B1
Mecca	249A
Mendocino	224A
Mendota	263A
Merced	231A, 248B, 292A, 299A
Middletown	254A
Modesto	230A, 272A, 277B, 281B
Mojave	249A
Monte Rio	249B1
Montecito	225A
Monterey	245B
Morro Bay	231A, 259A
Morgan Hill	241A
Mount Bullion	260B
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Newberry Springs	279A
Newport Beach	276A
Oakdale	236B
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Oceanside	271B
Oildale	237B1
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Ontario	228A
Orange Cove	262A
Orcutt	239B1
Orland	294B
Oroville	249B1
Oxnard	252B1, 275A, 284B
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Pasadena	294B
Paso Robles	223B, 276A
Patterson	226B, 246A
Pismo Beach	237A
Placerville	221A
Point Arena	272B1
Porterville	259B
Quincy	240A, 262A
Rancho Mirage	258A
Red Bluff	239B, 274C2
Redding	247C, 251C, 282C
Redlands	244A
Redondo Beach	228A
Ridgecrest	224B1, 285B1
Rio Del	297C2
Riverside	224A, 248B, 256B
Rohnert Park	285A
Rosamond	228A, 288A
Roseville	229B1
Sacramento	223B, 241B, 245B, 253B, 263B, 278A, 286B, 293B, 300B
Salinas	250A, 264B, 273B, 278A
San Bernardino	236B, 260B
San Clemente	300B
San Diego	231B, 235B, 243B, 247B, 251B, 264B, 268B, 275B, 279B, 287B, 293B
San Fernando	232A
San Francisco	227B, 235B, 239B, 243B, 247B, 251B, 255B, 259B, 267B, 271B, 279B, 283B, 287B, 291B, 295B
San Jacinto	241A
San Joaquin	288A
San Jose	222B, 253B, 262B, 293B
San Luis Obispo	227B, 241B, 246B1, 251B
San Mateo	299B
San Rafael	264A
Santa Ana	244A, 292A
Santa Barbara	229B, 248B, 260B, 277B, 299B1
Santa Clara	289B
Santa Cruz	256B
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Santa Maria	256B, 273B
Santa Paula	244A
Santa Rosa	261B1, 269A
Santa Ynez	290A
Searcy	260C2
Seaside	280A, 296A
Sebastopol	229A
Shafter	249A, 282A
Shasta Lake City	257C3, 296C3
Shingle Springs	270B
Shingletown	241A, 287C2
Soledad	292A
Solvang	244A
Sonora	224A
South Lake Tahoe	230B1, 275C
South Oroville	285A
St. Helena	257A
Stockton	257A, 261A, 297B
Sun City	225A
Susanville	222C2, 227C, 242C3
Sutter Creek	298A
Taft	280A
Tahoe City	243C1
Tehachapi	261A, 276A
Temecula	233A, 277A
Templeton	263A
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Tracy	265A
Truckee	268A
Tulare	235B, 294B
Tulelake	243C
Turlock	252A
Twin Harte	228A
Twentynine Palms	242A, 299B1
Ukiah	233B, 246A, 277B, 290B
Vacaville	237B1
Ventura	236B, 264B, 296A
Victorville	276A
Visalia	255B, 241A, 246B
Walnut Creek	221A
Weaverville	266A, 276C2
Weed	272C1
West Covina	252A
Williams	256A
Willows	292A
Windon	254A
Windsor	281A
Woodlake	281B
Woodland	281B
Yermo	251B
Yreka	280C1
Yuba City	280B1
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Alamosa	228A
Aspen	249C3, 296C3
Avon	276C2
Basalt	291A
Boulder	247C
Buena Vista	281C3
Breckenridge	272A
Brush	292A, 296A
Burlington	257C1, 281C1
Canon City	280A
Castle Rock	221C2
Colorado Springs	225C, 232C, 236C, 251C, 270C
Cortez	250C, 254C
Craig	229C1, 273C
Delta	236C, 277C2
Denver	239C, 253C, 258C, 262C, 266C, 278C, 286C, 290C, 294C
Dolores	227C2
Durango	259C2, 263C1, 267C1, 287A
Eagle	268C
Estes Park	271A
Evergreen	243C
Fort Collins	227C, 300C1
Fort Morgan	269A
Fountain	241C3
Frisco	230A
Fruita	260C
Glenwood Springs	224C, 238A, 256C3
Grand Junction	222C, 226C, 264C1, 282C, 300C
Greeley	223C1, 241C1
Gunnison	252C3, 272A
Hayden	240C3, 297A
Holyoke	222C2
Idalia	231A
Julesburg	243C1
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La Junta	221C3, 293C1,
Lafayette	234C
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Las Animas	297A
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Monte Vista	237A
Montrose	231C, 241C
Oak Creek	281C3
Ouray	289C3
Pagosa Springs	292C3
Pueblo	245C, 255C, 260C, 264C, 283C2, 296C2, 300C1
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Salida	222C3, 229C3
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Snowmass Village	280A
Strasburg	*249C3, 272A
Steamboat Springs	245A, 255A
Sterling	284C1, 288A
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Trinidad	223C1
Vail	284C1
Walsenburg	272C3
Wellington	232C3
Widefield	292C2
Windsor	256C
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Brookfield	236B
Danbury	252A
East Lyme	254A
Enfield	250A
Groton	288A
Hamden	267B
Hartford	229B, 243B, 275B, 290B, 295B
Hartford-Meriden	239B
Ledyard	293A
Litchfield	247A
Middletown	285A
New Britain	263B
New Haven	232A, 256B
New London	265A
Norwalk	240A
Norwich	249A
Pawcatuck	299A
Salisbury	251A
Sharon	277A
Stamford	244A
Stonington	272A
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Laurel	237A
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Milford	249A, 267A
Millsboro	228B
Ocean View	269A
Rehoboth Beach	224A
Seaford	252A
Selbyville	250A
Smyrna	225A
Wilmington	229B, 258B

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Arcadia	252C3
Atlantic Beach	283C
Avon Park	256C3
Baldwin	289A
Belle Glade	228A
Beverly Hills	292C3
Big Pine Key	284C
Blountstown	272A
Boca Raton	260C
Bonifay	249C1
Bonita Springs	241C
Bradenton	278C
Callahan	227C2
Callaway	278C1
Cape Coral	280C1, 292A
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Century	286C3
Charlotte Harbor	225C1
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Clearwater	239C1, 250C
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Cocoa	257C2
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Coral Cove	300C2
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Crawfordville	231A
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Cross City	295C1
Crystal City	253C
Dade City	241A
Daytona Beach	233C, 270C1
Defuniak Springs	276C2
Deland	290C
Destin	221C3
Dunnellon	272C2
Edgewater	226C3
Englewood	290A
Fernandina Beach	287A
Five Points	293A
Fort Lauderdale	264C, 278C, 290C, 294C
Fort Myers	237C1, 245C, 270C
Fort Myers Beach	257C2
Fort Myers Villas	292A

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Gainesville	265A, 279C1, 287A
Gifford	234A
Goulds	252C
Graceville	269A
Green Cove Springs	224A
Gretna	227A
Gulf Breeze	291A
Havana	285C2
Hialeah	222C2
High Springs	285A
Hobe Sound	288C2
Holiday	246C2
Holly Hill	277A
Holmes Beach	254C3
Homosassa Springs	237A
Immokalee	221A
Indian River Shores	246C3
Indiantown	276C2
Inglis	282A
Jacksonville	236C, 241C, 245C, 256C, 275C, 297C1
Jensen Beach	272C3
Jupiter	258A
Key Colony Beach	280C2
Key Largo	292C2
Key West	223C1, 228C2, 254C1, 258C1, 296A, 300C1
LaBelle	223A
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Lafayette	260C2
LaCrosse	258A
Lake City	232C2
Lakeland	231C
Lehigh Acres	296C2
Live Oak	251C2, 291A
MacClenny	221C3
Madison	274A
Marathon	232C2, 249C1, 288C2
Marco	255A, 266C1
Marianna	231A, 265A
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Melbourne	236A, 292A, 296C1
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Miami	226C, 243C 247C, 256C1, 268C1, 298C
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Micanopy	247C2
Midway	264C3
Milton	274C
Miramar Beach	292A
Monticello	289C3
Mount Dora	299C
Murdock	255A
Naples	228A, 233C, 276C3
Naples Park	288C2
Newberry	263C3
New Port Richey	288C1
Niceville	262A
Nocatee	287A
North Miami Beach	239C2
Ocala	224A, 229C
Orlando	222C, 243C, 255C2, 262C, 286C
Ormond-By-The-Sea	239C3
Othello	248C2
Palatka	260C
Palm Beach	250C
Panama City	223C1, 253C, 290C2, 300C1
Panama City Beach	261C3, 286C2
Parker	233C
Pensacola	231C, 254C2, 264C, 268C, 297C

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Port Charlotte	261C1
Port St. Joe	228C2
Port St. Lucie	267A
Punta Rassa	249A
Quincy	268C1
Riviera Beach	232C3
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Rockledge	274C2
Safety Harbor	223C2
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Santa Rosa Beach	271C3
Sarasota	273C, 282A, 293C2
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Sebring	289C3
Silver Springs	238A
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Springfield	240C2, 266A
St. Augustine	231C3, 250C2
St. Augustine Beach	288C3
St. Petersburg	258C, 268C1, 297C1
Starke	292A
Stuart	224C2
Summerland Key	273C2
Tallahassee	235C1, 241C2, 255C1, 276C2, 281C, 291A
Tampa	227C, 235C, 264C, 284C1
Tavares	294C1
Tavernier	245A
Tice	229A
Titusville	251C1
Trenton	269C3
Venice	221C3
Vero Beach	229C2, 259C2, 269C3, 279C2
Watertown	271C3, 289A
West Palm Beach	221C3, 282C, 300C1
White City	284A
Williston	267A
Wilson Creek	277C3
Winter Haven	248C
Winter Park	276C3
Woodville	250A
Yankeetown	242A
Zolfo Springs	295A

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Adel	221A
Albany	242C1, 269A, 283C1
Alma	282A
Americus	234C3, 254C3
Ashburn	289A
Athens	238C, 284C
Atlanta	225C1, 235C, 241C, 253C, 259C, 277C
Augusta	272A, 276A, 282C, 289C
Bainbridge	247C, 270A
Baxley	233C
Blackshear	286C3
Blakely	266C3
Blue Ridge	280A
Bolingbroke	271A
Boston	292A
Bostwick	222A
Bowdon	288A
Broxton	279A

GEORGIA—Continued

	Channel No.
Brunswick	264C1, 268C, 281A
Buford	272A
Cairo	272A
Camilla	288A
Canton	289C2
Carrollton	221A
Chatsworth	255A
Chauncey	267C2
Clarkesville	275C3
Claxton	297C3
Clayton	281A
Cleveland	270A
Cochran	244A
Columbus	275C, 285A, 297C
Coosa	237A
Cordele	252A
Cornelia	257C2
Crawford	271C3
Cusseta	279A
Cuthbert	264A
Dahlonega	282A
Dalton	283A
Dawson	221A
Dock Junction	290C3
Donalsonville	292A, 298A
Douglas	258C1, 294C1
Dublin	224C2, 240C1
Eastman	248A
Eatonton	249C3
Elberton	221A, 286A
Ellijay	228A
Evans	222A
Fayetteville	248C3
Fitzgerald	245A
Folkston	223A
Forsyth	261A
Fort Valley	250C3, 292C2
Gainesville	246C
Gainsville	294C
Gibson	232A
Glennville	292A
Gordon	296A
Gray	243A
Greensboro	280A
Greenville	239C3
Harlem	236C3
Hawkinsville	280C3
Hazlehurst	228C2
Helen	286A
Hinesville	222C2, 284C3
Hogansville	251C3
Homerville	254A
Irwinton	279A
Jackson	221A
Jeffersonville	229C2
Jesup	288C3
Kingsland	292A
LaFayette	298A
La Grange	281C1
Lakeland	290C3
Leesburg	278C3
Louisville	221A
Lumpkin	257C2
Lyons	265A
Mableton	273A
Macon	222A, 256C1, 287C1, 300C1
Manchester	227C
Marietta	268C
Martinez	230C3, 299C2
McRae	274A
Metter	279A
Midway	252C1

GEORGIA—Continued

	Channel No.
Milan	285C2
Milledgeville	264A, 272A
Millen	235C3
Montezuma	236A
Moultrie	230C1
Mt. Vernon	269A
Nashville	237C3
Ocilla	249A, 253A
Omega	298A
Peachtree City	244A
Pearson	270A
Pelham	222A
Perry	265A
Quitman	287A
Reidsville	281A
Richmond Hill	287C3
Ringgold	229A, 270A
Rockmart	296C2
Rome	249C3, 272A
Rossville	288A
Roswell	298A
Royston	279C3
Sandersville	260A
Savannah	226C1, 231C, 238C1, 243C, 247C, 271C
Smithville	293A
Smyrna	231C
Soperton	291A
Sparta	274A
Springfield	280A
St. Marys	227C2
St. Simons Island	224A
Statenville	248A
Statesboro	261C2, 275C3
Swainsboro	251A, 263A
Sylvania	293A
Sylvester	271A, 291A
Talking Rock	261A
Tennille	270A
Thomaston	266A
Thomasville	296C1
Thomson	269A
Tifton	223C3, 262C
Toccoa	291C
Trenton	274A
Trion	239A
Unadilla	260A
Valdosta	225C1, 239C2, 244C2, 266C1, 299A
Vidalia	249A
Warner Robins	269A, 273A
Warrenton	226A
Washington	261A
Waycross	249A, 273C1, 277C
Waynesboro	265A, 296C3
Westpoint	265A
Wrens	245C3
Wrightsville	298A
Zebulon	223A

EFFECTIVE DATE NOTE: At 62 FR 47762, Sept. 11, 1997, Georgia was amended by adding channel 270A at Bainbridge, effective Oct. 20, 1997

HAWAII

	Channel No.
Aiea	300C
Hali'imaile	288A

HAWAII—Continued

	Channel No.
Hilo	224A, 234C1, 240C2, 246C2, 250C1, 262C1
Honolulu	226C, 230C1, 234C1, 238C, 248C1, 253C1, 258C1, 262C1, 286C, 290C
Kahalu'u	291C
Kahului	260C1
Kailua	242C
Kailua-Kona	230C
Kaneohe	282C
Kawaihae	295A
Keaau	286C2
Kealakekua	268C1
Kekaha	277C1
Lahaina	228C, 266C1
Lanai City	284C2
Lihue	228C1, 245C1, 251C
Makawao	232A
Paauilo	279C
Pearl City	270C
Poipu	240A
Princeville	255C1, 260C1
Pukalani	252C2
Volcano	299C3
Wailuku	236C
Waimea	256C
Waipahu	222C, 274C

IDAHO

	Channel No.
American Falls	281C1
Blackfoot Falls	247C, 268C,
Boise	222C, 250C, 282C, 286C
Bonners Ferry	221A
Burley	260C
Caldwell	231C, 277C, 296C
Chubbuck	253C2
Coeur D'Alene	272A, 276C2
Driggs	271A
Eagle	300C
Emmett	270C
Franklin	249A
Fruitland	258C1
Garden City	290C
Gooding	264C3
Grangeville	224C3
Hayden	233C
Homedale	292C
Idaho Falls	241C, 256C1, 277C1, 288C1, 296A
Island Park	293C
Jerome	275C1
Ketchum	284C
Lewiston	243C1, 268C1, 286A, 295C
McCall	252A, 266C1, 294A
Moscow	291C1
Mountain Home	256C1
Nampa	235C, 245C
New Plymouth	226C
Orofino	237C3, 253A
Payette	262C1
Pocatello	221A, 229C, 235C, 273C
Preston	244C1
Rexburg	232C3, 251C1, 263C1
Rupert	223C
Salmon	224A
Sandpoint	237C1, 273A
Shelley	300C
Soda Springs	261A
Sun Valley	237C1, 279C, 298C

IDAHO—Continued

	Channel No.
Twin Falls	239C1, 243C1, 252C1
Victor	222A, 282A
Weston	240A
Wallace	248C2, 264C

ILLINOIS

	Channel No.
Aledo	272A
Alton	262B
Anna	243C2
Arcola	300A
Arlington Heights	224A
Atlanta	242A
Augusta	253A
Aurora	240A, 300B
Ava	280A
Bartonville	260A
Beardstown	232A
Belvidere	285A
Benton	292B1
Bethalto	238A
Bloomington	268B
Breese	248A
Bushnell	284A
Canton	266A, 300B1
Carbondale	268B
Carlyle	244A
Carmi	247B
Carrier Mills	283A
Carterville	236A
Carthage	221B1, 230A
Casey	282B1
Centralia	237A
Champaign	233B, 248B, 262B1
Charleston	221A
Chicago	226B, 230B, 234B, 238B, 242B, 246B, 250B, 254B, 258B, 262B, 266B, 278B, 282B, 298B
Chillicothe	232A
Christopher	278A
Clinton	240A
Coal City	264A
Colchester	281A
Colfax	255A
Columbia	285C3
Crest Hill	252A
Crete	272A
Danville	235A, 256B, 271B
Decatur	226A, 236B, 275B
DeKalb	223B, 235A
Des Planes	294B
Dixon	269A
Duquoin	240A
Dundee	280A
Dwight	255A
Earlville	275A
East Moline	267B
East St. Louis	266C2
Effingham	239B, 249A
Eldorado	272A
Elgin	232A
Elmwood	247B1
Elmwood Park	290B
Eureka	253A
Evanston	286B
Fairbury	299B1
Fairfield	285A, 290A
Farmer City	252A
Farmington	234A

ILLINOIS—Continued

	Channel No.
Fisher	273A
Flora	280A
Freeport	221A, 253B
Galatia	255A
Galena	298A
Galesburg	224A, 235B
Galva	273A
Geneseo	285A
Gibson City	292A
Golconda	232A
Granite City	293C1
Greenville	269A
Harrisburg	260B
Havana	257A
Henry	263A
Herrin	224B1
Highland Park	276A
Hillsboro	259B
Hoopeston	265A
Jacksonville	263B
Jerseyville	281B
Joliet	228A, 244A
Kankakee	224A, 236A, 260B
Kewanee	230A
Knoxville	287A
La Salle	257B1
Lansing	292A
Lawrenceville	276A
Le Roy	281B
Lena	271A
Lexington	258A
Lincoln	230B1
Litchfield	291B
Loves Park	244A
Lynnville	296A
Macomb	240A, 261A, 274B1
Mahomet	290A
Marion	297B
Maroa	297A
Marseilles	243A
Marshall	290A
Mattoon	245B
Mendota	261A
Metropolis	252C2, 288A
Moline	245B
Monmouth	249A
Monticello	288A
Morris	276A, 284B
Morrison	274A
Morton	272A
Mount Carmel	235B
Mount Morris	239A
Mount Olive	287A
Mount Vernon	231B, 271B1
Mount Zion	257A
Murphysboro	286B1
Nashville	284A
Neoga	255A, 267B1
Newton	278B1
Normal	244A
Oak Park	274B
Ogelsby	271A
Olney	225B
Oregon	291A
Ottawa	237A
Pana	265A
Paris	253B
Paxton	285A
Pekin	238B1, 285A
Peoria	222A, 227B, 289B, 295B
Peru	265A
Petersburg	249A

ILLINOIS—Continued

	Channel No.
Pinckneyville	282A
Pittsfield	248B1
Plano	296A
Polo	299A
Pontiac	229B1
Princeton	251A
Quincy	258B, 280A, 286B
Ramsey	227A
Rantoul	237A, 241A
Robinson	269A
Rochelle	272A
Rock Island	255B
Rockford	248B, 265A
Rockton	276A
Rushville	223A
Salem	261A
Savanna	262B1
Seneca	239A
Shelbyville	286B1
Skokie	270B
South Jacksonville	288A
Spring Valley	277A
Springfield	254B, 270B, 279B, 283B
Sterling	232A
Streator	249A, 291A
Sullivan	294B1
Taylorville	224B1, 232A, 247A
Teutopolis	272A
Tower Hill	252A
Tuscola	228A
Urbana	223B1, 296A
Vandalia	296A
Virden	244A
Virginia	267A
Watseka	231B
Waukegan	272A
West Frankfort	249A
Wilmington	288A
Winnebago	237A
Woodlawn	295A
Woodstock	288A
Zion	245B

INDIANA

	Channel No.
Alexandria	224A
Anderson	250B, 254A
Angola	262A
Attica	239A
Auburn	272A
Aurora	257A
Austin	224A, 242A
Batesville	280A
Battle Ground	254A
Bedford	288A
Berne	224A
Bicknell	289A
Bloomfield	266A
Bloomington	222B, 224A, 279B
Bluffton	261A
Booneville	296A
Brazil	249A
Bremen	245A
Brookston	237A
Brownsburg	270A
Cannelton	275C3
Chandler	228A
Charlestown	282A
Churubusco	242B1

INDIANA—Continued

	Channel No.
Clarksville	226A
Clinton	230A
Columbia City	292A
Columbus	268B, 285A
Connersville	262B
Corydon	243A, 299B
Covington	276A
Crawfordsville	280A, 292A
Crown Point	280A
Danville	296A
Decatur	286B1
Delphi	275A
Earl Park	251B1
Edinburgh	275A
Elkhart	264B, 284B
Ellettsville	286A
Elwood	269A
Evansville	281B, 287B, 298A
Ferdinand	253A
Fort Branch	268A
Fort Wayne	222A, 236B, 247B, 269A, 280A
Frankfort	259B
Franklin	240A
French Lick	261A
Goshen	249A
Greencastle	232A
Greenfield	258B
Greensburg	297B
Greenwood	294A
Hammond	222B
Hardinsburg	245A
Hartford City	228A
Huntingburg	265B1
Huntington	275A
Indianapolis	226B, 234B, 238B, 242A, 277B, 283B, 289B, 300B
Jasper	284B
Jeffersonville	239B
Kendallville	227B
Kentland	269A
Knox	257A
Kokomo	223A, 263B
La Porte	244A
Lafayette	228A, 243B, 287B
Lagrange	288A
Lebanon	265A
Ligonier	274A
Linton	227B1
Logansport	272A
Loogootee	231A
Lowell	296A
Madison	244A
Marion	295B
Martinsville	272A
Michigan City	240A
Mitchell	273A
Monticello	299A
Mount Vernon	294A
Muncie	221A, 281B, 285A
Nappanee	239A
Nashville	236A
New Albany	234A
New Carlisle	272A
New Castle	273B
New Haven	300A
Newburgh	291A
Noblesville	230A
North Vernon	291B
Paoli	237A
Peru	252A
Petersburg	272A
Plainfield	252A

INDIANA—Continued

	Channel No.
Plymouth	232B1
Portland	265A
Princeton	251B, 263A
Rensselaer	249A
Richmond	241B, 267B
Roann	270A
Roanoke	231A
Rochester	221A
Rockville	285A
Royal Center	279A
Rushville	232A
Salem	250A
Santa Clause	277A
Scottsburg	287A
Seelyville	240A
Seymour	229B
Shelbyville	246B
South Bend	225B, 268B, 276A, 280A, 292A
South Whitley	266A
Spencer	224A
Sullivan	237A
Syracuse	278A
Tell City	289A
Terre Haute	260B, 264B, 274B, 298B
Valparaiso	288A
Van Buren	257A
Veedersburg	225A
Versailles	276A
Vevay	240A
Vincennes	221A, 244A
Wabash	240A, 290A
Walton	229A
Warsaw	297B
Washington	293B, 300A
West Lafayette	*267A, 294A
West Terre Haute	288A
Winamac	261A
Winchester	252A

IOWA

	Channel No.
Albia	244C3
Algona	224C2
Alta	248A
Ames	281C, 286C3
Ankeny	223C2, 292A
Asbury	277C3
Atlantic	239C3
Audubon	243C1
Belle Plaine	238C3
Bettendorf	228A
Bloomfield	292C3
Boone	252C2, 257A
Britt	258A
Brooklyn	256C2
Burlington	228A, 297C1, 276C3
Carroll	229C1
Castana	298A
Cedar Falls	253C3
Cedar Rapids	243C1, 251C1, 275C1, 283C1
Centerville	254C1
Chariton	287C2
Charles City	240A
Cherokee	221A 272A
Clarinda	257C2
Clarion	245C1
Clear Lake	276A
Clinton	241C1, 234A
Council Bluffs	253C

IOWA—Continued

	Channel No.
Cresco	272A
Creston	267C3
Davenport	279C, 293C1
Decorah	263C2, 284A
Denison	296A
Des Moines	227C, 235C, 247C1, 262C, 273C, 298C1
Dubuque	225C1, 272A, 287C2
Dyersville	257A
Eagle Grove	264C3
Eddyville	268C2
Eldon	282C3
Eldora	258A
Emmetsburg	252A, 261A
Epworth	247C3
Estherville	240C3
Fairfield	240A
Forest City	297C2
Fort Dodge	221A, 233C1
Fort Madison	269A
Garnavillo	261A
Glenwood	279C
Grinnell	294C2
Grundy Center	249C3
Hampton	285A
Harlan	287C3
Hudson	241A
Humboldt	249A
Ida Grove	225C3
Independence	237A
Iowa City	231C1, 264C1
Iowa Falls	237A
Jefferson	255C3
Keokuk	237C1
Knoxville	221C3
Lake City	294C3
Lamoni	250C3
Le Mars	258C1
Madrid	241A
Manchester	234C3
Maquoketa	236A
Marshalltown	266C1
Mason City	230C1, 250A, 291C1
Milford	271C2
Mount Pleasant	288C3
Muscatine	226A, 259C1
New Hampton	236A
New Sharon	260C3
Newton	240A
Northwood	274A
Oelwein	222C
Onawa	272C1
Osage	279A
Osceola	295C2
Oskaloosa	285C2
Ottumwa	224C3, 249C3
Parkersburg	255A
Pella	277C1
Perry	288A
Red Oak	237C3
Rock Valley	295C3
Sac City	284A
Sageville	291A
St. Ansgar	238A
Sheldon	287C2
Sibley	262A
Sioux Center	230C2
Sioux City	238C1, 250C1, 277C1
Sioux Rapids	275C2
Spencer	285C3, 299C1
Spirit Lake	280C2
Storm Lake	269C1

IOWA—Continued

	Channel No.
Stuart	300C3
Twin Lakes	290C3
Washington	291A
Waterloo	270C, 289C, 300C
Waukon	278C2
Waverly	257A
Webster City	239C3
Winterset	258A

KANSAS

	Channel No.
Abilene	253C1
Andover	230C3
Arkansas City	273A, 293C
Atkins	257A
Augusta	283C2
Baxter Springs	296A
Belle Plaine	224C3
Belleville	221C3
Beloit	288C2
Burlington	237A
Caney	266A
Cawker City	242C3
Chanute	228A
Clay Center	265A
Clearwater	254C2
Coffeyville	225A
Colby	250C1, 262C1
Columbus	287C3
Concordia	237A
Copeland	251C1, 256C1, *280C1
Dearing	251A
Derby	242C2
Dodge City	230C1, 238C1
Downs	231C2
El Dorado	256C1
Emporia	258A, 269A, 285A
Eureka	228A
Fort Scott	280A, 284C3
Fredonia	281A
Galena	282A
Garden City	247C1
Girard	256A
Goodland	273C1, 299C1
Great Bend	282C1, 300C1
Hays	258C1, 277C1
Haysville	287C
Herington	289C3
Hiawatha	280C2
Hill City	270C
Hoisington	264C1
Horton	229C3
Hugoton	294C2
Humboldt	232C3
Hutchinson	246C3, 271C, 275C
Independence	275A
Ingalls	242C1, 290A
Iola	257A
Junction City	233C1
Kansas City	231C, 251C
Kingman	232C2, 262C2
Kiowa	252C1
Larned	244A, 295C1
Lawrence	290C1
Leavenworth	255C
Leoti	260C1
Liberal	268C1, 274C1, 286C1, 298C1
Lindsborg	238C3
Lyons	291C1

KANSAS—Continued

	Channel No.
Manhattan	268C2, 284C2
Marysville	276C3
McPherson	244A
Medicine Lodge	269C2
Minneapolis	224C2
Ness City	285A
Newton	222C1
North Fort Riley	273C1
Norton	294A
Oberlin	266C1
Ogden	278C2
Olathe	222C3
Osage City	225C2
Ottawa	239C1
Parsons	228A
Phillipsburg	223C1, 237A
Pittsburg	245C1
Plainville	244A
Pratt	226C
Riley	242C3
Russell	240A
Salina	229C1, 260C1, 285A
Scott City	223C1
Seneca	221A
Silver Lake	223A
Sterling	234C3
St. Marys	275C2
Topeka	247C, 257A, 262C, 295C, 299C
Wamego	237A
Wellington	228A
Wichita	236C1, 250C, 267C, 279C1, 297C1
Winfield	240C3, 300C2

KENTUCKY

	Channel No.
Albany	292A
Allen	261A
Ashland	229C1
Barbourville	241C3
Bardstown	244A
Beattyville	271A
Beaver Dam	264A
Benton	256A
Berea	294A
Bowling Green	244C3, 227C3
Brandenburg	228A
Burkesville	300A
Burnside	230C2
Calvert City	239A
Campbellsville	281C3
Campton	279A
Carlisle	221C3, 264A
Carrollton	237A
Catlettsburg	224A
Cave City	279C3
Central City	270C1
Clinton	271C3
Columbia	228A
Corbin	258C2, 297C2
Cumberland	274A
Cynthiana	272A
Danville	296A
Drakesboro	280A
Edmonton	256A
Elizabethtown	252C3, 261A
Elkhorn City	276A
Eminence	289A
Erlanger	265A
Falmouth	298A

KENTUCKY—Continued

	Channel No.
Flemingsburg	236A
Fort Campbell	300C1
Fort Knox	288A
Frankfort	279A, 285A
Fulton	257A
Garrison	252A
Georgetown	277A
Glasgow	231A, 236C, 287C3
Grayson	272A
Greensburg	276A
Greenup	289C3
Greenville	228C3
Hardinsburg	232C2, 282A
Harlan	286A
Harold	285A
Harrodsburg	257A
Hartford	292A
Hawesville	246A
Hazard	266C, 284A
Henderson	258C, 276A
Hindman	296A
Hodgenville	292A
Hopkinsville	248A, 254C1, 262C
Horse Cave	294A
Hyden	250C3
Irvine	264C3, 291A
Jackson	293A
Jamestown	285A
Jeffersontown	267A
Jenkins	232C2
Lancaster	286A
Lawrenceburg	271A
Lebanon	265C3
Leitchfield	285A
Lexington	225C1, 233C1, 251C1
Lexington-Fayette	283C2
Liberty	254C3
London	222C2, 280A
Louisa	222A
Louisville	248C1, 259B, 263C2, 272A, 280A, 295B
Madisonville	230C2
Manchester	276A, 289A
Mannsville	260C3
Marion	274A
Mayfield	234C2
Maysville	240A
McKee	300A
Middlesboro	224A
Midway	300A
Monticello	226A, 269A
Morehead	221A, 242A, 291C3
Morganfield	237A
Mount Sterling	288A, 294B1
Mount Vernon	275A
Munfordville	272A
Murray	279C1
Nicholasville	273A
Oak Grove	293C3
Owensboro	223C, 241C
Owingsville	299A
Paducah	227C1, 245C1
Paintsville	255C1
Paris	245C2
Philpot	234A
Pikeville	226C2
Pineville	292A
Prestonsburg	238C, 288A
Princeton	285A
Providence	249A
Radcliff	278C3
Reidland	294A

KENTUCKY—Continued

	Channel No.
Richmond	268C3
Russellville	266C1
Russell Springs	224A
St. Matthews	276A
Salyersville	247A
Scottsville	257A
Shelbyville	269A
Shepherdsville	286A
Smiths Grove	296C2
Somerset	246C2, 272A
Springfield	274A
Stamping Ground	241A
Stanford	242C3
Stanton	285A
Tompkinsville	221A, 274A
Valley Station	290A
Vanceburg	285A
Vancleve	260A
Versailles	292A
Vine Grove	268A
Virgie	298A
Whitesburg	280A
Whitley City	252A
Wickliffe	240A
Williamsburg	282A
Williamstown	293A
Wilmore	290A
Winchester	261C2
West Liberty	275A
Westwood	259A

EFFECTIVE DATE NOTE: At 62 FR 45764, Aug. 29, 1997, Kentucky was amended by removing channel 264A and adding channel 221C3 at Carlisle; by removing channel 291A and adding channel 264C3 at Irvine; and by removing channel 221A and adding channel 291C3 at Morehead, effective Oct. 9, 1997.

LOUISIANA

	Channel No.
Abbeville	286C3
Alexandria	226C, 230A, 245C, 262C, 295A
Amite	243A
Arcadia	223A
Atlanta	293A
Baker	297A
Ball	288A
Basile	271C1
Bastrop	230C3, 232A, 261C2, 247A
Baton Rouge	251C, 264C1, 268C, 273C
Bayou Vista	237C3
Belle Chasse	275C3
Benton	221A
Berwick	290A
Blanchard	271C3
Boyce	272C3
Breaux Bridge	243C3
Brusly	241C2
Bunkie	282C3
Clayton	257A
Clinton	224C2
Columbia	276C3
Coushatta	235C3
Crowley	275C
Delhi	228A
Deridder	221C3, 269A
Donaldsonville	285A

LOUISIANA—Continued

	Channel No.
Dubach	249C3
Erath	300C1
Eunice	288A
Farmerville	224A
Ferriday	296C3
Folsom	285A
Franklin	288A
Franklinton	255A
Galliano	232C1
Gibsland	283A
Grand Isle	283A
Hammond	277C, 296A
Haughton	279A
Haynesville	288A
Homer	272A, 294C2
Houma	281C, 298C1
Jackson	283A
Jena	274A
Jennings	225C2
Jonesboro	285C3
Jonesville	286A
Kaplan	247C2
Kenner	287C1
Kentwood	231C1
Lacombe	234A
Lafayette	233C, 238C2, 260C
Lake Arthur	298C2
Lake Charles	241C, 258C1, 279C1, 287C2
Lake Providence	224A
LaPlace	222C
Larose	262C2
Leesville	224A, 289C3
Mamou	266C3
Mansfield	224A, 284C3
Mansura	240A
Many	296C3
Marksville	249A
Maurice	292A
Minden	239C2
Monroe	270C, 281C, 287C2, 291C
Moreauville	221A
Morgan City	244A
Natchitoches	247C3, 264A
New Iberia	229C1, 256C
New Orleans	227C, 239C, 246C, 253C1, 258C, 266C, 270C
New Roads	293C2
North Fort Polk	294A
Oak Grove	244C3
Oakdale	254C1
Opelousas	290A, 296A
Port Sulphur	294C1
Rayne	294A
Rayville	222C2
Reserve	235C3
Richwood	265A
Ruston	258A, 298C
Shreveport	229C, 233C, 243C1, 259C2, 266C, 275C2
Slidell	287C1
South Fort Polk	239A
Springhill	225C3
Sulphur	267C3
Tallulah	283C3
Thibodaux	292C3
Tioga	278C2
Varnado	225A
Vidalia	284A
Ville Platte	223A
Vivian	287A
Washington	284C3
West Monroe	252C2

LOUISIANA—Continued

	Channel No.
Winnfield	221A
Winnsboro	240A

EFFECTIVE DATE NOTES: 1. At 62 FR 45763, Aug. 29, 1997, Louisiana was amended by adding Grand Isle, channel 283A, effective Oct. 6, 1997.

2. At 62 FR 50875, Sept. 29, 1997, Louisiana was amended by removing Slidell, channel 287C1, and adding Kenner, channel 287C1, effective Nov. 3, 1997.

MAINE

	Channel No.
Auburn	260B
Augusta	222B, 267B
Bangor	225B, 246B
Bar Harbor	256B, 299B1
Bath	290B
Belfast	284B
Biddeford	232B1
Boothbay Harbor	244B1
Brewer	262B, 293C
Brunswick	255B
Calais	224A
Camden	273B
Caribou	249C3
Dennysville	275C1
Dexter	271C2
Dover-Foxcroft	276A
Ellsworth	233B, 239B
Fairfield	228C3
Farmington	257A
Fort Kent	*293C3
Gardiner	282B
Houlton	261C3
Howland	280C
Islesboro	288B1
Kennebunk	257A
Kennebunkport	284A
Kittery	287A
Lewiston	230B, 298B
Lincoln	289C2
Machias	237A, 266B
Madawaska	272A
Madison	248A
Mexico	264A
Milbridge	229B
Millinocket	235C2
North Windham	294A
Norway	224A
Old Town	297C2
Pittsfield	258A
Portland	226B, 250B, 270B, 275C
Presque Isle	241C, 245C, 270C2, 291C
Rockland	277B
Rumford	242C
Saco	240A
Sanford	221A
Scarborough	292A
Searsport	269A
Skowhegan	286C, 300C3
Thomaston	295, 295B
Topsham	238A
Van Buren	251A
Waterville	253C2
Westbrook	265B1
Winslow	237A

MAINE—Continued

	Channel No.
Winter Harbor	249B
York Center	237A

MARYLAND

	Channel No.
Annapolis	256B, 300B
Baltimore	222B, 226B, 236B, 250B, 270B, 274B, 282B, 293B
Berlin	280A
Bethesda	234B, 272A
Braddock Heights	280A
California	275A
Cambridge	292A
Catonsville	289B
Crisfield	245A
Cumberland	275B, 291B
Easton	244B1
Federalsburg	296A
Frederick	260B
Frostburg	*246A, 287B
Glen Burnie	240A
Grasonville	276A
Hagerstown	284B, 295B
Halfway	244A
Havre De Grace	279B
Hurlock	263A
Lexington Park	249A
Mechanicsville	252A
Middletown	276A
Morningside	238B
Mountain Lake Park	283A
Oakland	222A
Ocean City	260B, 295A
Ocean City-Salisbury	284B
Ocean Pines	246A
Pocomoke City	223A, 293A
Prince Frederick	224A
Princess Anne	273B
Salisbury	248A, 255A, 288A
Snow Hill	266A
St. Michaels	232A
Waldorf	281, 281B
Westernport	266A
Westminster	264B
Williamsport	240A

MASSACHUSETTS

	Channel No.
Amherst	265A
Athol	260A
Barnstable	260B
Boston	233B, 245B, 253B, 264B, 277B, 281B, 294B
Brockton	249A
Brookline	225B
Cambridge	237A
Chatham	298B
Fairhaven	296A
Falmouth	270B
Fitchburg	283B
Framingham	289B
Gloucester	285A
Great Barrington	286A
Greenfield	237A, 252A
Harwichport	228A
Haverhill	223B

MASSACHUSETTS—Continued

	Channel No.
Hyannis	275A, 291B
Lawrence	229B
Lowell	258B
Lynn	269A
Marshfield	240A
Mashpee	266A
Medford	300B
Nantucket	242B
New Bedford	247B, 251B
North Adams	261A
Northampton	257A, 292A
Orange	247A
Orleans	284B
Pittsfield	240A, 269A, 288A
Plymouth	256B
Provincetown	*221A
Southbridge	261A
South Yarmouth	280A
Springfield	226B, 234B, 271B
Taunton	227B
Tisbury	224A
Truro	272A
Turners Falls	230A
Waltham	273B
Webster	255A
West Yarmouth	235B
Winchendon	249A
Worcester	241B, 297B

MICHIGAN

	Channel No.
Adrian	237A, 280A
Albion	244A
Allegan	222A
Alma	285A
Alpena	257C2, 299C1
Ann Arbor	275B, 296A
Ashley	223A
Atlanta	223C
Bad Axe	271C2
Baraga	282C1
Battle Creek	237A, 277B
Bay City	241C, 273B
Bear Lake	261A
Beaverton	249A
Benton Harbor	235A, 260B
Beulah	221A
Big Rapids	265A, 272C3
Birmingham	234B
Boyne City	228C2
Bridgman	248A
Bronson	*234A
Brooklyn	287A
Buchanan	256A
Cadillac	225C, 244C3, 296A
Caro	221A
Carrollton	263A
Charlevoix	290C1, 300A
Charlotte	224A
Cheboygan	286C1
Clare	237A
Coldwater	253B
Coleman	269A
Crystal Falls	264C1
Dearborn	262B
Detroit	222B, 226B, 238B, 242B, 246B, 250B, 254B, 258B, 266B, 270B, 278B, 282B, 286B, 290B, 294B, 298B

MICHIGAN—Continued

	Channel No.
Dewitt	243A
Dowagiac	221A
East Jordan	265A
East Lansing	235B, 256B
Escanaba	284C, 246C
Essexville	247A
Fife Lake	240A
Flint	224A, 236B, 288B1, 300B
Frankenmuth	229A
Frankfort	257C2
Fremont	261A
Gaylord	237A, 294C1
Gladstone	288C1
Gladwin	276C3,
Glen Arbor	227A, 238C2, 251C2
Grand Haven	221A
Grand Rapids	229B, 239B, 245B, 250B, 254A, 267B, 275B, 281B, 289B
Grayling	262C1
Greenville	297B
Gulliver	234C1
Hancock	228C3, 254C2
Harbor Beach	279C2
Harbor Springs	280C2
Harrietta	229A
Harrison	221A
Hart	287C1
Hartford	279A
Hastings	261A
Hillman	235C2
Hillsdale	221A
Holland	233B, 241B
Honor	264A
Houghton	242C1, 249A, 272C2
Houghton Lake	253C1
Howell	228A
Hudson	273A
Iron Mountain	226C1, 268C1, 294A
Iron River	256C2
Ironwood	259C1, 295C1
Ishpeming	222C, 298C1
Jackson	231B, 283A, 291B
Kalamazoo	271B, 293B, 299B
Kalkaska	248C2
Kingsford	251A
L'Anse	291C2
Lake City	*285A
Lakeview	292A
Lansing	248B, 264B, 269A
Lapeer	276A
Leland	232C2
Lexington	245A
Ludington	292A
Mackinaw City	233C3
Manistee	249A, 268A
Manistique	260A
Marlette	223A
Marquette	239C1, 277C1, 231A
Marshall	285A
Menominee	279C3
Midland	227C2, 259C
Mio	280C2
Monroe	252A
Mount Clemens	274B
Mount Pleasant	233C1, 282A
Munising	252 C2
Muskegon	283B, 295B, 300B1
Muskegon Heights	269B1
Negaunee	258A, 270A
Newberry	229A, 250C2
Niles	237A
North Muskegon	252A

MICHIGAN—Continued

	Channel No.
Norway	232C3
Ontonagon	266C2
Oscoda	239 C2, 264C3
Otsego	265A
Owosso	280A
Pentwater	231C3, 276A
Petoskey	242C1, 255C1
Pickford	288A
Pinconning	265A, 281A
Port Huron	272A, 296A
Portage	243A
Reed City	247A
Rogers City	244C2, 260C2
Roscommon	266A
Saginaw	251B, 283A, 292A, 296A
Sandusky	249A
Saugatuck	224A
Sault Ste. Marie	252C3, 258C2, 267C1
Scottville	235C3
South Haven	252A
Spring Arbor	295A
St. Ignace	275C
St. Johns	221A
St. Joseph	296A
Standish	245A
Stephenson	257A, 292C2
Sturgis	257A
Tawas City	277A, 284C2, 291C3
Three Rivers	240A
Traverse City	270C1, 278C, 283A, 29C2
Tuscola	268A
Vassar	255A
Walker	263A
West Branch	288A
Whitehall	237A, 248A
Zeeland	257A

MINNESOTA

	Channel No.
Ada	292A
Aitkin	232C3
Albany	288A
Albert Lea	235A, 241A
Alexandria	222C3, 257A, 264C1
Anoka	300C
Atwater	231A
Austin	260C1
Babbitt	294C2
Bagley	244C3
Bemidji	238C1, 266C1, 279C1
Benson	228A
Belview	290A
Blackduck	252C2
Blooming Prarie	265C1
Blue Earth	251C3, 283C2
Brainerd	278C3, 294C1, 298C1
Breckenridge	286C1
Breezy Point	282 C2
Browerville	259A
Buhl	*223C2
Caledonia	234A
Cambridge	287C3
Cloquet	243C3, 263C1
Cold Spring	235C2
Coleraine	241C1
Crookston	241C1, 246C1
Crosby	268C3
Deer River	288C1
Detroit Lakes	236C1, 272C2

MINNESOTA—Continued

	Channel No.
Duluth	225C1, 235C1, 239C1, *240C2, 255C2, 269C2, 277C1, 286C1
East Grand Forks	282C1
Eden Prairie	289A
Ely	233A
Eveleth	250C1
Farimont	293C1
Fairbault	298C2
Fergus Falls	243C1, 277C1
Forest Lake	240A
Fosston	296C2
Glencoe	242C2
Glenwood	296A
Golden Valley	223C
Grand Marais	237C1
Grand Rapids	245C1
Granite Falls	230A
Hermantown	221C3
Hibbing	230C1, 292C3
Hutchinson	296A
International Falls	258C1, 281C3
Jackson	289C3
La Crescent	274C3
Lake City	235A, 273C3
Lakeville	286A
Little Falls	221A, 231A
Luverne	266C
Madison	221A
Mahnomen	268C3
Mankato	256C1, 278C1
Marshall	259C1, 298C3
Minneapolis	229C, 246C, 253C, 258C, 262C1, 275C
Mantevideo	288A
Moose Lake	296C3
Moorhead	254C1, 260C1
Mora	238C3
Morris	239C1
Nashwauk	275C3
New Prague	238A
New Ulm	226C1
Nisswa	227C
North Mankato	244C3
Olivia	261C3
Ortonville	268C, 292A
Osakis	280A
Owatonna	285A
Park Rapids	223A, 248C1
Paynesville	255C2
Pelican Rapids	281C2
Perham	258A
Pequot Lakes	261A, 274C2
Pillager	240A
Pine City	265A
Pipestone	254C
Preston	276C3
Princeton	291C2
Proctor	299C2
Red Lake	231C1
Red Wing	290A, 290C3
Redwood Falls	249C1
Richfield	267C
Rochester	*225A, 243C2, 248C, 269C2, 295C
Roseau	271C2, 278C2
Rushford	257C3
Saint Joseph	260A
Sartell	244C2
Sauk Centre	232A
Sauk Rapids	269C2
Slayton	291C2
Sleepy Eye	297A
Spring Grove	252C2

MINNESOTA—Continued

	Channel No.
Spring Valley	282A
Springfield	234C2
St. Charles	299A
St. Cloud	251C, 284C
St. James	263C2, 268C3
St. Joseph	225C3
St. Louis Park	281C
St. Paul	233C, 237A, 271C
St. Peter	288A
Staples	234C2
Starbuck	247C2
Stewartville	287C2
Thief River Falls	257C3, 262C1, 274C1
Tracy	286C2
Two Harbors	282C2
Virginia	260C1
Wadena	290C1
Waite Park	279C3
Walker	256C1, 270A, 275C3
Warroad	223C1
Waseca	221C3
Willmar	237C2, 273C1
Windom	232A
Winona	237C3, 266C3
Worthington	228A, 236C1

EFFECTIVE DATE NOTE: At 62 FR 50876, Sept. 29, 1997, Minnesota was amended by adding channel 235A at Lake City, effective Nov. 3, 1997.

MISSISSIPPI

	Channel No.
Aberdeen	287C2
Ackerman	300C
Amory	237A
Artesia	261A, 260C2
Baldwyn	223A
Batesville	263C2
Bay Springs	232C2
Bay St. Louis	300C
Belzoni	292A, 296C3
Biloxi	229C
Booneville	257A
Brandon	249A
Brookhaven	221A
Brooksville	255C3
Bruce	233A
Bude	282C3
Byhalia	235A
Calhoun City	272A
Canton	269A
Carthage	252C3
Centreville	285A
Charleston	239A
Clarksdale	221A, 243A, 268C3, 293C2
Cleveland	225C2, 252C3, 280C3
Clinton	228A
Coldwater	237A
Collins	296A
Columbia	244A
Columbus	235C2, 276C2, 280C2
Como	278C
Corinth	232A, 237A
Crenshaw	295A
D'Iberville	250C2
De Kalb	289C2
Drew	237A
Durant	266A

MISSISSIPPI—Continued

	Channel No.
Ellisville	273C2
Eupora	241C2
Fayette	249A
Flora	247C3
Forest	223C
Fulton	270C2
Gluckstadt	269C2
Greenville	250C2, 264C1, 284C2
Greenwood	230C3, 256C, 282C2
Grenada	222A, 261C2, 267A
Gulfport	244A, 272C3, 296A
Hattiesburg	221A, 226A, 279C, 283C1
Hazlehurst	225A
Heidelberg	257C2
Holly Springs	224A
Houston	227C
Indianola	245C2, 288A
Iuka	285C2
Jackson	234C, 238C, 242C, 259C, 275C
Kosciusko	277C3, 286C1
Laurel	251A, 262C
Leland	232C2, 272A
Lexington	273C3
Liberty	299C3
Long Beach	233A
Louisville	296C3
Lucedale	295A
Lumberton	237C1
Magee	298C
Marion	236C2
McComb	289C1
McLain	245A
Meridian	246C, 267C1, 271A
Monticello	271C2
Moss Point	285C2
Mound Bayou	271A
Natchez	236C, 247A
New Albany	294C2
Newton	250A
Ocean Springs	223A, 276C2
Olive Brance	239A
Oxford	229C3, 238A, 248C1, 286A
Pascagoula	256C1, 290C3
Pearl	230C3
Petal	292C3
Philadelphia	272A
Picayune	291C2
Pickens	290C2
Pontotoc	244A
Port Gibson	263A
Potts Camp	240A
Prentiss	252A
Quitman	255C3
Richtown	243A
Ripley	272A
Rosedale	298C3
Starkville	221A, 291C2
State College	283C3
Stonewall	295A
Sumrall	247A
Taylorsville	240C2
Tunica	241C3
Tupelo	253C1
Tylertown	249A
Union	281C2
University	221A
Utica	265C2
Vicksburg	254C1, 267A, 294C
Water Valley	288A
Waynesboro	288A
West Point	265A
Winona	236A

MISSISSIPPI—Continued

	Channel No.
Yazoo City	221C3, 226A

MISSOURI

	Channel No.
Ash Grove	281C3
Asbury	278C3
Ashland	791C1
Aurora	263C2
Ava	221A
Bethany	238C2
Birch Tree	296C3
Bismarck	258C3
Bonne Terre	282A
Boonville	226A, 257C2
Bowling Green	231C3
Bourbon	231A
Branson	292C2
Brookfield	245C2
Brookline	271A
Buffalo	260C3
Butler	221A
Cabool	251A
California	232C2
Cameron	261C2
Campbell	298C3
Canton	265C2
Cape Girardeau	264C, 275B
Carrollton	264C1
Carthage	236C2
Caruthersville	286A
Centralia	221A
Chaffee	284A
Channel	223A
Charleston	291C2
Chillicothe	280C3
Clayton	256C
Clinton	237C3, 241C
Columbia	244C1, 252C2, 268C1, 272A
Crestwood	234C
Cuba	271A, 297C3
De Soto	261A
Deerfield	264C3
Dexter	272A
Dixon	221A
Doniphan	248C2
Doolittle	283A
East Prairie	287A
Eldon	224C2, 270A
Eldorado Springs	288A
Ellington	280A
Farmington	253C
Fayette	230C3
Florissant	246C1
Fulton	263A
Gainesville	259C2
Gallatin	269C3
Garden City	287A
Gordonville	257A
Halfway	256C3
Hannibal	225C1
Harrisonville	264C1
Houston	257C2
Huntsville	278C2
Ironton	225A
Jefferson City	261C2, 281A, 295C
Joplin	223C1, 273C1
Kansas City	227C, 235C, 243C, 259C, 271C, 277C, 282C
Kennett	255C, 282A

MISSOURI—Continued

	Channel No.
Kimberling City	261C2
Kirksville	229C2, 233C1, 299C2, 300C1
Knob Noster	289C2
Lake Ozark	274A
Lamar	260A
La Monte	246C3
Lebanon	279C, 300C2
Lexington	297C
Liberty	293C1
Louisiana	269A, 271C3
Lutesville	281A
Macon	260A
Malden	225C3
Malta Bend	248C3
Mansfield	240A
Marble Hill	247A
Marshall	275C1
Marshfield	284C2
Maryville	246C3
Memphis	263C3
Mexico	239C
Miner	296A
Moberly	247C3, 284C, 288C2
Monett	240A
Monroe City	298A
Montgomery City	280A
Mount Vernon	294C3
Mountain Grove	223A
Mountain View	245C2
Neosho	259A
Nevada	249A
New London	290C3
New Madrid	293C2
Nixa	290C2
Osage Beach	228C3
Osceola	222A
Otterville	299A
Owensville	237A
Ozark	225C2
Palmyra	250C2
Perryville	266A
Piedmont	285C3
Pleasant Hope	238C2
Poplar Bluff	223A, 233C, 238C1, 244A, 278C2
Potosi	249C3
Republic	258A
Richmond	223A
Rolla	248A, 287C1
Saint Robert	255A
Salem	240A
Savannah	224C2
Scott City	230A
Sedalia	221A
Seligman	227C1
Shell Knob	249A
Sikeston	250C2
Southwest City	262A
Sparta	243C2
Springfield	234C, 247C1, 254C1, 267C
St. Genevieve	289C
St. James	259C3
St. Joseph	286C1
St. Louis	222C, 229C1, 242C1, 251C1, 273C, 277C1, 299C
Steelville	227C2
Stockton	299A
Sullivan	265A
Tarkio	228C3
Thayer	222A
Trenton	222C3
Troy	264A
Union	269A

MISSOURI—Continued

	Channel No.
Vandalia	282A
Versailles	236C3
Warrenton	260C3
Warsaw	249A, 253A
Washington	283A
Waynesville	249A, 250A, 272A
Webb City	250A
West Plains	230C1, 273C2
Wheeling	290A
Willard	286C2
Willow Springs	262C2

EFFECTIVE DATE NOTE: At 62 FR 45763, Aug. 29, 1997, Missouri was amended by adding Deerfield, channel 264C3, effective Oct. 6, 1997.

MONTANA

	Channel No.
Anaconda	249C3
Baker	263C1
Belgrade	244C2, 256A
Big Sky	283A
Billings	227C1, 231C1, 242C1, 246C2, 253C1, 275C1, 279C1, 286A, 298C
Bozeman	229C1, 236C1, 260C1, *271C2, 278C1
Butte	223C1, 231C, 238C, *295A
Cascade	285C
Chinook	267C1
Colstrip	229A
Columbia Falls	240C2
Conrad	229C1
Cut Bank	274C1
Deer Lodge	243C2
Dillon	252C3
East Helena	281C3
Ennis	254C2
Forsyth	267C
Glasgow	228A
Glendive	243C1
Great Falls	225C1, 233C1, 255C1, 262C, 291C1, 297C
Hamilton	240C3, 251C3
Hardin	238C
Havre	223C, 236C
Helena	258C1, 266C, *276C, 287C
Kalispell	246C, 253C, 280C1, 292C
Lewistown	240A
Laurel	269C1
Libby	269A
Livingston	248C1, 264C
Malta	261A
Miles City	223C
Missoula	227C, 235C, 261C1, 273C1
Outlook	289C
Plentywood	261A
Red Lodge	257A
Ronan	222C
Scobey	239C1
Shelby	242C1, 250C
Sidney	226C1, 236C1
Superior	298A
West Yellowstone	243A
Wolf Point	224A

NEBRASKA

	Channel No.
Ainsworth	224A
Albion	224C2
Alliance	271C1, 290C1
Auburn	288A
Aurora	247C1
Beatrice	225C1
Bennington	227A
Blair	247C3, 268C3
Bridgeport	267C
Broken Bow	252A
Central City	262C
Chadron	234C1, 248C1
Columbus	228C1, 266C1
Cozad	283C1
Crete	280A
Crookston	241C1
Fairbury	258C1
Falls City	267A
Fremont	288A
Gering	280C1
Gordon	238C2
Grand Island	239C1, 243C1, 299C1
Hastings	233C2, 268C
Holdrege	249C1
Imperial	276A
Kearney	255C1, 272C3, 290C
Kimball	261A
Lexington	226C1
Lincoln	236C2, 270C, 274C1, 287A, 292C2, 297C1
McCook	230C2, 241A, 253C2, 287C1
Milford	251C
Nebraska City	249C1
Norfolk	234C1, 294C
North Platte	235C, 246C1, 278C1
O'Neil	275C1
Ogallala	259C1, 293C1
Omaha	222C, 231C, 241C, 260C, 264C, 283C, 290C2
Orchard	287C1
Ord	280C3
Plattsmouth	295A
Sargent	221C1
Scottsbluff	225C, 231C1
Seward	245C1
Sidney	254C1
South Sioux City	296A
Superior	280A
Terrytown	245C1
Wayne	285A
West Point	300C2
Winnebago	289C2
York	285C3

NEVADA

	Channel No.
Amargosa Valley	266A
Battle Mountain	253A
Beatty	262A
Boulder City	288C2
Carson City	247C, 251C
Elko	229C2, 237C1
Ely	224C3, 243A, 269C3
Fallon	257A, 267C2
Gardnerville-Minden	256C3
Hawthorne	228A
Henderson	231C, 238C, 263C
Incline Village	261C2
Indian Springs	257A

NEVADA—Continued

	Channel No.
Las Vegas	222C, 226C, 242C, 246C, 253C, 270C, 278C, 286C2, 293C
Laughlin	228C1
Mesquite	248C1
Moapa Valley	284A
North Las Vegas	282C
Pahrump	236A, 298C
Pioche	255A
Reno	225C, 238C, 271C3, 283C, 289C, 295C
Smith	222C3
Sparks	221A, 265A
Sun Valley	229A, 233C2
Tonopah	224A
Wendover	272C
Winnemucca	224C3

NEW HAMPSHIRE

	Channel No.
Bedford	243A
Belmont	227A
Berlin	279C
Campton	289A
Claremont	291B
Concord	272A, 288A
Conway	228A, 283A
Dover	248B
Exeter	296A
Farmington	293A
Franklin	231A
Gorham	296A
Hampton	271A
Hanover	222A, 257A
Haverhill	267A
Henniker	256A
Hillsboro	299A
Hinsdale	285A
Jackson	258A
Keene	279B
Laconia	252A
Lancaster	272A
Lebanon	263C3
Lisbon	244A
Littleton	292A
Manchester	239B, 266B
Meredith	268A
Moultonborough	295A
Mount Washington	235C
Nashua	292A
Newport	269A
New London	259A
Peterborough	221A
Plymouth	261A
Portsmouth	262B
Rochester	244A
Somersworth	254A
Walpole	242A
Winchester	254A
Wolfeboro	285A

NEW JERSEY

	Channel No.
Asbury Park	232A
Atlantic City	236B, 245B, 279B, 297B1
Avalon	232A
Belvidere	296A

NEW JERSEY—Continued

	Channel No.
Blairstown	292A
Bridgeton	299B
Camden	295B
Canton	269A
Cape May	272A
Cape May Court House.	288A
Dover	288A
Eatontown	292A
Egg Harbor	285B1
Franklin	272A
Long Branch	296A
Manahawkin	261A, 289B1
Margate City	241A
Millville	247B
New Brunswick	252A
Newark	234B, 262B, 290B1
Newton	279B1
North Cape May	294A
Ocean Acres	253A
Ocean City	252A, 292A
Paterson	226B
Peterson	274A
Pleasantville	257A
Point Pleasant	240A
Princeton	277B
Toms River	224A
Trenton	233B, 248B, 268B
Tuckerton	259A
Villas	254A
Vineland	221A
Wildwood	264B
Wildwood Crest	226A
Zarephath	256B

NEW MEXICO

	Channel No.
Alamogordo	232C3, 279A, 287C2, 300A
Albuquerque	222C, 227C, 231C, 242C, 258C, 262C, 267A, 277C, 300C
Angel Fire	256C2
Armijo	296C2
Artesia	225C
Aztec	235C1
Bayard	275C1
Belen	249C1
Bloomfield	283C
Bosque Farms	284C
Carlsbad	221A, 281C1, 291C2
Chama	255A
Clayton	228A
Cloudcroft	244C, 250C1
Clovis	256C1, 260C1, 268C1, 272C3, 298C1
Corrales	236C1
Deming	232A
Espanola	225C2
Eunice	265A
Farmington	225C1, 239C1, 245C, 271C
Gallup	229C, 233C, 256C, 268A, 291C2
Grants	224C2, 264C2, 279C, 288C
Hatch	266C
Hobbs	231C1, 239C3, 243A, 275C1
Jal	279C1
Kirtland	275C
La Luz	224A
Las Cruces	258C, 276A, 280A
Las Vegas	244A, 251C, 264C3
Lordsburg	250C, 279C3, 289C3

NEW MEXICO—Continued

	Channel No.
Los Alamos	253C, 294C1, 298C1
Los Lunas	273C, 292C1
Lovington	269C3
Maljamar	*254C1, 286C
Mesilla Park	285A
Portales	237A
Raton	229C2, 243A, 249A
Reserve	283C3
Rio Rancho	269A
Roswell	235C, 246C1, *258A, 263C1, 284C2, 293C1
Ruidoso	228C3, 268A
Santa Clara	237C1
Santa Fe	234C1, 238C1, 247C, 281C, 286C, 290C
Santa Rosa	240A
Silver City	225C2
Socorro	225A
Taos	260, 268C1
Tatum	296C
Texico	243A
Thoreau	260C
Truth or Consequences.	254C
Tucumcari	224A
White Rock	266A

NEW YORK

	Channel No.
Albany	238B, 265A, 276A, 293B, 299B
Albion	238A
Alfred	270A
Amsterdam	249A
Arlington	245A
Attica	269A
Auburn	295B
Avon	227A
Babylon	272A
Baldwinsville	221B1
Ballston Spa	272A
Bath	252A, 276A
Bay Shore	276A
Big Flats	249A
Binghamton	251B, 256B
Boonville	267A
Briarcliff Manor	296A
Bridgehampton	273A
Bridgeport	258A
Brighton	231A
Brockport	288A
Buffalo	225B, 233B, 241B, 245B, 258B, 273B, 277B, 281B, 293B
Calverton-Roanoke	287A
Canajoharie	227A
Canandaigua	272A
Canton	268A
Cape Vincent	234A, 274A
Carthage	276A
Catskill	253A
Center Moriches	241A
Chateaugay	234C2
Chenango Bridge	281A
Cherry Valley	270B
Clifton Park	244A
Clyde	229A
Cobleskill	278B
Conklin	263A
Copenhagen	294C3
Corinth	228A

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	Channel No.
Corning	254A, 291B
Cortland	260B
Dansville	230A
Delhi	262A
Depew	229B
Deposit	234A
Deruyter	286B
Dundee	240A
East Hampton	244A
Ellenville	257A
Elmira	224A, 232A
Endicott	289B
Endwell	298A
Essex	267A
Port Plain	266A
Frankfort	235B
Fredonia	243A
Fulton	284B
Garden City	224A
Geneva	269A
Glens Falls	240A
Gouverneur	237A
Grand Gorge	287A
Hague	229A
Hammondsport	252A
Hampton Bays	296A
Hempstead	252A
Henderson	264A
Herkimer	224A
Highland	297A
Homer	268A
Honeoye Falls	297A
Hoosick Falls	248A
Hornell	221A, 287B
Horseheads	265A
Hudson	228A
Hudson Falls	269A, 296A
Hyde Park	249A
Irondequoit	294A
Ithaca	228A, 247B, 279B
Jamestown	227B, 270A
Jeffersonville	271A, 291A
Jewett	250A
Johnstown	285A
Kingston	232A
Lake George	253A
Lake Luzerne	234A
Lake Placid	288A
Lake Success	278B
Lakewood	295B1
Liberty	240A
Little Falls	288A
Lowville	257A
Malone	243A
Manlius	237A
Mechanicville	283A
Mexico	280A
Middletown	224A
Minetto	293A
Montauk	235A, 284A
Monticello	252A, 259A
Montour Falls	285A
Morristown	275A
Mount Kisco	292A
New Paltz	277A
New Rochelle	228A
New York	222B, 230B, 238B, 242B, 246B, 250B, 254B, 258B, 266B, 270B, 274B, 282B, 286B, 294B, 298B
Newburgh	276A
Niagara Falls	253B
North Syracuse	265A

NEW YORK—Continued

	Channel No.
Norwich	237A, 230B
Norwood	241A
Ogdensburg	224A, 254A
Old Forge	231A, 259A
Olean	239B, 268A
Oneonta	276A, 280A
Oneida	292A
Oswego	244A, 288A
Owego	269A
Palmyra	259A
Patchogue	248B, 291B
Patterson	288A
Peekskill	264B
Phoenix	271A
Plattsburgh	260C, 286C3
Port Henry	221C3
Port Jervis	244A
Potsdam	257A
Poughkeepsie	221A, 241A, 268B, 284B
Pulaski	269A
Queensbury	289B1
Ravena	233A
Remsen	228A
Rensselaer	280A
Riverhead	280A
Rochester	223B, 243B, 250B, 255B, 263B, 267B, 280A, 290A
Rome	240A, 273B
Rosendale	273A
Rotterdam	252A
Sag Harbor	221A
Salamanca	252A
Saranac Lake	269A, 292C3
Saugerties	225A
Schenectady	258B
Seneca Falls	257A
Sidney	265A
Smithtown	232A
Sodus	278A
South Bristol Twsp	236B
Southampton	225A, 237A
Southhold	269A
Southport	258A
Star Lake	290B1
Stillwater	267A
Sylvan Beach	262A
Syracuse	226B, 233B, 275B, 290A, 300B
Ticonderoga	280A
Troy	222B
Tupper Lake	272A
Utica	245B, 254B, 264A, 282B, 297B
Vestal	277B1
Walton	221A
Warrensburg	262B1
Waterloo	253A
Watertown	228A, 248C1
Waverly	271A
Webster	274A
Wellsville	278A
Westhampton	253A
Westport	273A
Wethersfield Townsh	299B
White Plains	280A
Whitehall	231A
Whitesboro	250A
Woodstock	261A
Wurtsboro	247A

NORTH CAROLINA

	Channel No.
Ahoskie	257A
Albemarle	265A
Asheboro	222C
Ashville	260C
Atlantic	297C3
Aurora	283A
Banner Elk	264A
Bayboro	250C3
Beech Mountain	272A
Belhaven	266C2
Biltmore Forest	243A
Black Mountain	295C
Burgaw	260C1
Burlington	230C, 266C
Calabash	285C3
Carolina Beach	294A
Charlotte	236C, 279C, 284C, 300C
Clinton	297C3
Columbia	273C1, 289C1
Concord	250C
Dunn	278C2
Durham	286C, 296A
Eden	233C1
Edenton	261C2
Elizabeth City	244A
Elizabethtown	289A
Elkin	265A
Fairbluff	287A
Fairmont	265C2
Farmville	232A
Fayetteville	251C1
Forest City	227C
Franklin	244A
Fuquay-Varina	280C3
Gaston	250A
Gastonia	270C
Goldsboro	245C, 272A
Greensboro	246C, 254C
Greenville	300C
Grifton	258C2
Hamlet	282A
Harkers Island	262C1
Harrisburg	224A
Hatteras	233C1, 246C2
Havelock	286C3
Henderson	223C
Hendersonville	273C1
Hertford	285C2
Hickory	239C, 275C1
Highlands	283A
High Point	238C1, 258C, 262C
Hope Mills	283A
Jacksonville	222C2, 254C1, 288C2
Jefferson	291C3
Iniannapolis	259C
Kill Devil Hills	281C1
Kinston	236C, 249A, 275A
Laurinburg	243C
Leland	231A
Lenoir	277A
Lexington	231C
Louisburg	273A
Lumberton	239C, 272A
Manteo	252A, 256C2
Morehead City	242C1
Morganton	221A
Moyock	221C3
Murfreesboro	252A
Murphy	274A
Nags Head	223C3
Nashville	259A
New Bern	270C1, 293C1

NORTH CAROLINA—Continued

	Channel No.
Newport	277C1
Norlina	232A
North Wilkesboro	247C
Ocean Isle Beach	228A
Ocracoke	224C1
Old Fort	282A
Oriental	231C3
Pinetops	238C3
Plymouth	240A
Raleigh	234C, 241C, 268C, 275A
Reidsville	271C
Roanoke Rapids	272A
Robbins	276A
Robbinsville	240A
Rocky Mount	221A, 253C3, 264C
Rose Hill	284A
Roxboro	244A
St. Pauls	297A, 299A
Salisbury	293C
Sanford	288A
Semora	294A
Shallottee	252C3, 279C3, 292A
Shelby	241C
Southern Pines	273A, 295C2
Southern Shores	265C2
Southport	298C2
Statesville	245C, 289C
Tarboro	282C1
Thomasville	252A
Topsail Beach	280C3
Wadesboro	228C3
Wallace	232A
Wanchese	237C3
Warrenton	297C2
Washington	227C, 252A
Waxhaw	291C3
Waynesville	285A
Whiteville	256C1
Williamston	279C1
Wilmington	247C1, 267C2, 274C1, 283A
Wilson	291C
Windsor	249A, 255A
Winston-Salem	226C, 281C, 298C
Wrightsville Beach	229A

NORTH DAKOTA

	Channel No.
Arthur	244A
Beulah	250A
Bismarck	225C, 233C, 243C, 248C, 254C, 268C
Bottineau	270C1
Carrington	252A
Cavalier	286C2
Devils Lake	244C2, 273C1, 278C1
Dickinson	221C3, 256C1
Fargo	229C, 250C, 270C1, 300C1
Grafton	265C3
Grand Forks	225C1, 234C1, 298C1
Harwood	264C3
Hettinger	228A
Hope	284A
Jamestown	227C1, 238C1
Kindred	224C3
Langdon	239A
Lisbon	291C2
Mandan	284C1
Mayville	288C3
Minot	229C1, 246C, 260C1, 287C1, 295A

NORTH DAKOTA—Continued

	Channel No.
Rugby	237A
Sarles	290C
Tioga	280A
Valley City	266C2
Wahpeton	295C2
Walhalla	294C2
Williston	241C1, 253C1, 266C1
Wishek	262C1

OHIO

	Channel No.
Ada	235A
Akron	243B, 248B
Alliance	223B
Archbold	241A
Ashland	267B
Ashtabula	246B, 252A
Athens	240A, 288A
Barnesville	228A
Beavercreek	280A
Bellaire	263A
Bellefontaine	252A
Bellevue	221A
Belpre	296A
Bowling Green	228A
Bryan	265A
Bucyrus	224A
Byesville	249A
Cadiz	292A
Caldwell	285A
Cambridge	244A
Canton	231B, 251B, 295B
Castalia	249A
Celina	232A, 244A
Chillicothe	227B, 232B1
Cincinnati	223B, 227B, 231B, 253B, 270B, 274B, 286B
Circleville	296A
Cleveland	226B, 238B, 253B, 258B, 264B, 271B, 277B, 281B, 289B, 293B 300B
Cleveland Heights	222B
Clyde	265A
Coal Grove	246A
Columbus	222B, 234B, 242B, 246B, 250B, 259B, 298A
Conneaut	288A
Coshocton	257A
Crestline	254A
Crooksville	297A
Dayton	256B, 284B, 299B
Defiance	251B, 290A
Delaware	300A
Delphos	296A
Delta	293A
Dover	269A
East Liverpool	282B
Eaton	225B
Edgewood	273A
Elyria	297B
Englewood	233A
Fairfield	235B
Findlay	263B
Fort Shawnee	298A
Fostoria	244A
Fredericktown	252A
Fremont	256B1
Gahanna	285A
Galion	272A

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	Channel No.
Gallipolis	268B
Geneva	284A
Georgetown	249A
Gibsonburg	239A
Greenfield	248A
Greenville	293B
Grove City	266A
Hamilton	243B, 278B
Harrison	282A
Hicksville	294A
Hillsboro	294B
Holland	272A
Hubbard	270A
Huron	241A
Ironton	296A
Jackson	249A
Johnstown	276A
Kent	261A
Kenton	237A
Kettering	260B
Lancaster	238B, 278A
Lebanon	247A
Lima	226A, 249A, 271B, 285A
Logan	252A
London	292A
Lorain	285A
Loudonville	299A
Manchester	267A
Mansfield	287B, 291B
Marietta	271B1
Marion	232A, 295B
Marysville	289A
McArthur	254A
McConnelsville	265A
Medina	235B
Miamisburg	229B
Middleport	221A
Middletown	290B
Milford	296A
Millersburg	237A
Montpelier	283A
Mount Gilead	236
Mount Vernon	229B
Napoleon	276A
Nelsonville	299A
New Lexington	292A
New Philadelphia	240A
Newark	262B, 269A
Niles	291A
North Baltimore	299A
North Kingsville	298A
North Madison	229A
Norwalk	237A
Oak Harbor	247A
Ottawa	292A
Oxford	249A
Paulding	259A
Piketon	261A
Piqua	239B
Pleasant City	221A
Port Clinton	233B
Portsmouth	257A, 281C, 298A
Richwood	282A
Ripley	258C3
St. Marys	277A
Salem	286B
Sandusky	274B
Shadyside	239B1
Shelby	261A
Sidney	288A
South Webster	235A
South Zanesville	224B1

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	Channel No.
Springfield	264B, 275B
Steubenville	278B
Swanton	297A
Sylvania	288A
Tiffin	279B
Toledo	223B, 260B, 268B, 284B
Troy	245A
Uhrichsville	260A
Union City	248A
Upper Arlington	255A
Upper Sandusky	240A
Urbana	269A
Van Wert	230A, 255B
Wapakoneta	221A
Washington Court-house.	288A
Wauseon	245A
Waverly	265A
Wellston	244B1
West Carrollton	221A
West Union	276A
Westerville	280A
Willard	245A
Wilmington	272A
Wooster	283B
Xenia	237A
Youngstown	227B, 255B, 266B
Zanesville	273B

OKLAHOMA

	Channel No.
Ada	257A
Altus	228C2, 300C3
Alva	259C1, 278C1, 289C2
Anadarko	279C1
Antlers	284A
Ardmore	239C1, 253A
Atoka	276C2
Bartlesville	261C1
Bethany	285A
Bixby	287C2
Blossom	224C2
Bristow	285A
Broken Arrow	221C2
Broken Bow	291C2
Byng	261C2
Chelsea	264A
Chickasha	288A
Clinton	238C2, 295C1
Coalgate	288C2
Collinsville	268C3
Comanche	246A
Cordell	229A, 257A
DeQueen	227A
Dickson	278C3
Duncan	272A
Durant	248C2, 296C2
Edmond	250A
Eldorado	246A
Elk City	232C3, 243C1, 253C
Enid	245C1, 276C3
Eufaula	273C3
Frederick	240A
Grove	257A
Guymon	224C3
Healdton	229C2
Heavener	223A
Henryetta	258C1
Hobart	290C

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	Channel No.
Holdenville	293C3
Hollis	223A
Hugo	238C2
Idabel	244C3
Ketchum	298C1
Kingfisher	287A
Lahoma	239C3
Lawton	231C, 237C3, 251C1, 258C3, 268C1, 297C2
Lindsay	286A
Locust Grove	233A
Lone Grove	294A
Madill	273A
Mangum	249A
Marlow	221C1
McAlester	267C1, 286A
Miami	265A
Muskogee	246C, 295C
Newcastle	227C1
Norman	292A
Nowata	285A
Oklahoma City	223C, 234C, 241C, 255C, 263C, 270C, 274C, 281C, 299C
Okmulgee	231C1
Owosso	291C
Pauls Valley	249C3
Pawhuska	280A
Perry	286A
Ponca City	257A, 265A, 284A
Poteau	250C, 297C
Pryor	283C1
Roland	222A
Sallisaw	240C2
Sand Springs	272A
Sapulpa	265A
Seminole	290A
Shawnee	236C
Snyder	262A
Spencer	289A
Stillwater	229C2, 251A, 288A
Sulphur	265C3
Taft	262A
Tahlequah	269C3
Tishomingo	259C3
Tulsa	225C, 238C, 243C, 248C, 253C, 277C
Vinita	240A, 241C2
Warner	271A
Watonga	230A
Weatherford	247C1
Wewoka	284A
Wilburton	279C1
Woodward	221C3, 240A, 261C1, 266C, 272A

OREGON

	Channel No.
Albany	260C, 300C
Altamont	249C1, 267C1
Ashland	270C, 298C2
Astoria	225C1
Baker	237C3, 284C
Bandon	243C3
Banks	298C3
Beaverton	277C
Bend	231C, 248C1, 252C3, 259A, 264C1, 289C1
Bonanza	275A
Brookings	237C2
Brownsville	272C1

OREGON—Continued

	Channel No.
Burns	224A
Cannon Beach	243A
Canyon City	233A
Cave Junction	274C
Coos Bay	228A, 254C2, 290C2
Coquille	247C1
Corvallis	268C2, 292C
Cottage Grove	263A, 288A
Creswell	237C3
Depoe Bay	288A
Eagle Point	292C3
Enterprise	221A
Eugene	233C, 241C, 250C, 256C
Florence	284C, 295A
Gleneden Beach	248C2
Gold Beach	224C1
Gold Hill	262C1
Grants Pass	245C
Harbeck-Fruitdale	252C2
Hermiston	257A
Hood River	288A
Keno	253A
Klamath Falls	223C, 258C1, 284C1, 295C1
La Grande	254C2, 260C1
Lake Oswego	294C
Lakeview	228C2, 237C2
Lebanon	279C
Lincoln City	236C2, 244C2
Malin	263A
Medford	229C, 239C1, 278C1
Merrill	289A
Milton-Freewater	250C2
Myrtle Point	231A
Newport	224C2, 274C1
North Bend	235C1, 297C1
Nyssa	254C1
Oakridge	221A
Ontario	241C1
Pendleton	279C1, 299C
Phoenix	286C1
Portland	222C, 229C, 238C, 246C, 254C1, 258C1, 262C, 266C, 270C
Prineville	236C1
Redmond	275C1, 298C1
Reed City	247A
Reedsport	221A, 258C3
Rogue River	234A
Roseburg	276A
Salem	286C
Seaside	251A, 272A
Sisters	281C1
Springfield-Eugene	226C
Sutherlin	266A
Sweet Home	296C1
The Dalles	224C3, 244C3, 249C2, 283C
Tillamook	231A, 281C3
Toledo	264C2
Tri-City	282C2
Warm Springs	243C

PENNSYLVANIA

	Channel No.
Allentown	264B, 281B
Altoona	251B, 261B1
Avis	260A
Barnesboro	228A
Beaver Falls	294B
Beaver Springs	291A
Bedford	265A, 298A

PENNSYLVANIA—Continued

	Channel No.
Bellefonte	237A
Bellwood	280A
Benton	240A
Berwick	278A
Bethlehem	236B
Blairsville	292A
Bloomsburg	293B
Boalsburg	229A
Boyertown	298B
Braddock	245B
Bradford	261A
Brookville	277B1, 288B1
Burnham	244A
Butler	249A
Cambridge Springs	283A
Canton	262B1
Carbondale	232A
Carlisle	272A
Central City	269A
Chambersburg	236B
Charleroi	252A
Clarendon	282A
Clarion	224A
Clearfield	226B1
Cooperstown	299A
Coudersport	244A
Covington	268A
Cresson	232A
Curwensville	275A
Dallas	229A
Danville	244A
Dubois	271B, 297B
Easton	241B, 260B
Ebensburg	256B
Edinboro	250B1
Elizabethville	263A
Ellwood City	221A
Emporium	257A
Ephrata	286B
Erie	234A, 260B, 272A, 279B
Everett	282A
Fairview	230A
Forest City	261A
Franklin	257B1
Freeland	276A
Galeton	264B1
Gettysburg	299B
Greencastle	232A
Greensburg	296A
Greenville	296A
Grove City	236B
Harrisburg	235B, 247B, 257A, 281B
Hawley	287A
Hazleton	250B
Hershey	294B
Hollidaysburg	285A
Honesdale	237A
Huntingdon	278A, 292A
Indiana	223A
Jenkintown	280A
Jersey Shore	242B1, 249A
Johnsonburg	263A
Johnstown	221A, 238B, 243B
Kane	280A
Lancaster	233B, 245B, 267B
Laporte	280A
Lebanon	261A
Lewisburg	279A
Lewistown	240A, 288A
Linesville	269A
Lock Haven	221A
Mansfield	222A

PENNSYLVANIA—Continued

	Channel No.
Martinsburg	224A
Masontown	295A
McConnellsburg	279A
Meadville	262B
Mechanicsburg	228A
Media	262B
Mercer	244A, 280A
Mercersburg	221A
Mexico	223A
Meyersdale	227A
Mifflinburg	252A
Mifflintown	296A
Mill Hall	254A
Millersburg	255A
Milton	265A
Montrose	243B
Mountaintop	246A
Mount Carmel	259A
Mount Union	258A
Muncy	227B1
Nanticoke	221A
New Kensington	264B
North East	265B1
Northumberland	297A
Oil City	242A, 253B1
Oliver	235B1
Olyphant	239A
Palmyra	221A
Patton	234A
Philadelphia	223B, 227B, 231B, 239B, 243B, 251B, 255B, 266B, 271B, 275B, 283B, 287B, 291B
Philipsburg	290A
Pittsburgh	225B, 229B, 233B, 241B, 259B, 268B, 273B, 284B, 290B, 300B
Pittston	272A
Pocono Pines	290A
Port Allegany	235A
Port Matilda	300A
Portage	289A
Pottsville	270B
Punxsutawney	281A
Reading	273B
Red Lion	241B
Renovo	295A
Reynoldsville	293A
Ridgebury	245A
Riverside	222A
Russell	276A
Saegertown	232A
Salladsburg	238A
Scottdale	280A
Scranton	258, 267B, 285A, 295A
Shamokin	237A
Sharon	275B
Sharpsville	240A
Smethport	292A
Somerset	249A
South Waverly	241A
South Williamsport	257A
Spangler	247A
St. Marys	230B1, 248B
Starview	224A
State College	233A, 276A
Stroudsburg	228A
Sunbury	231B
Susquehanna	223A
Tamaqua	288A
Tioga	234B1
Tobyhanna	300A
Towanda	237A
Tunkhannock	299A

PENNSYLVANIA—Continued

	Channel No.
Tyrone	266B
Union City	292A
Uniontown	257A
University Park	246A
Warren	222B
Washington	237A
Waynesboro	268B
Waynesburg	276A
Wellsboro	283B
Whitneyville	296A
Wilkes-Barre	225B, 253B
Williamsport	274B, 286B, 300A
York	277B, 289B
York-Hanover	253B

RHODE ISLAND

	Channel No.
Block Island	257A
Middletown	262A
Narragansett Pier	274A
Providence	222B, 231B, 238B, 268B, 286B
Wakefield-Peacedale	259A
Westerly	279B
Woonsocket	292A

SOUTH CAROLINA

	Channel No.
Abbeville	225A
Aiken	242C2, 258C2
Allendale	228A
Anderson	266C, 297C
Andrews	264A
Atlantic Beach	262A
Bamberg	239A
Barnwell	256C3
Batesburg	226A
Beaufort	254C1
Bishopville	229A
Blackville	250A
Bluffton	295C1
Bowman	233A
Branchville	286A
Bucksport	300C2
Camden	274A
Cayce	244A
Charleston	236C, 245C, 263C3, 278C1
Cheraw	277C2
Chester	257C3
Chesterfield	297A
Clearwater	252A
Clemson	285A
Columbia	228A, 248C1, 276A, 284C
Conway	230A
Cross Hill	231A
Darlington	288C3
Dillon	225C
Easley	280A
Elloree	262A, 262C3
Florence	292A
Folly Beach	251C2
Forest Acres	232A
Gaffney	287C
Garden City	249C1
Georgetown	229A, 249C1, 293C2
Goose Creek	232C3
Gray Court	263C

SOUTH CAROLINA—Continued

	Channel No.
Greenville	223C, 229C, 233C
Greenwood	244A, 278C3
Greer	277A
Hampton	276A
Hanahan	241C1
Hardeeville	266C2
Hartsville	253A
Hilton Head Island	291C2, 300C2
Honea Path	276A
Johnsonville	286A
Johnston	224A
Kingstree	231A, 257C3
Ladson	292A
Lake City	261A
Lancaster	296A
Latta	232C3
Lexington	253A
Loris	235A
Manning	223C
Marion	263C3
McClellanville	255C2
Moncks Corner	287C3
Mount Pleasant	283C2
Mullins	296C2
Murrell's Inlet	233A
Myrtle Beach	221C2, 269C2, 281C1
New Ellenton	274A
Newberry	292C3
North Charleston	273C
North Myrtle Beach	290C3
Orangeburg	275A, 280C3, 294C1
Pageland	272A
Pamplico	271C2
Parris Island	221A
Pawley's Island	253A
Port Royal	259C
Ravenel	269C3
Ridgeland	285C3
Ridgeville	265C3
St. Andrews	272A
St. George	298C
St. Matthews	230A
St. Stephen	291A
Saluda	221A
Scranton	275A
Seneca	251C
Socastee	258C3
South Congaree	237A
Spartanburg	255C
Summerton	252A
Summerville	227C2
Sumter	234A, 267C
Surfside Beach	276C3
Walhalla	242A
Walterboro	229A
Wedgefield	238A
West Columbia	261A
Williston	234A

EFFECTIVE DATE NOTE: At 62 FR 47763, Sept. 11, 1997, South Carolina was amended by removing channel 249C1 at Georgetown and adding Garden City, channel 249C1, effective Oct. 20, 1997

SOUTH DAKOTA

	Channel No.
Aberdeen	231C1, 235C, 294C1

SOUTH DAKOTA—Continued

	Channel No.
Belle Fourche	240C1, 271C3
Brookings	229C1
Canton	274C2
Clear Lake	296C3
Custer	286C2
Deadwood	236C
Dell Rapids	239C3
Faith	246C
Flandreau	300C3
Gregory	268C1
Hot Springs	244C2
Huron	256A, 286A
Lead	232C
Lowry	264C1
Madison	276C2
Martin	273C1
Milbank	282C1
Mission	264A
Mitchell	290C1, 297C1
Mobridge	258C1
Pierre	224C1, 237C2
Pine Ridge	228A
Rapid City	222C, 230C1, 250C1, 254C1, 262C1, 281C1, 292C
Redfield	249A, 279C1
Reliance	233C
Salem	263C1
Sioux Falls	223C, 233A, 243C, 247C1, 270C2, 279C2, 284C
Sisseton	258C2, 275C1
Spearfish	266C, 297C
Sturgis	226C
Vermillion	292C2
Volga	272C3
Watertown	225C1, 241C1, 245C
Winner	229C1, 253C1
Yankton	226C1, 281C1

TENNESSEE

	Channel No.
Alamo	226C3
Athens	269C3
Atwood	229A
Baxter	299C3
Belle Meade	294A
Benton	226A
Bolivar	244A
Bristol	245C
Brownsville	237A
Bulls Gap	264A
Byrdstown	244A
Calhoun	281A
Camden	240A
Carthage	281A
Celina	268A
Centerville	244A
Chattanooga	222C, 243C, 293C
Cleveland	237A, 264C
Clifton	293A
Clinton	237A
Coalmont	284A
Collinwood	235C3
Colonial Heights	240C2
Columbia	269A
Cookeville	234C, 253C2
Covington	228A
Crossville	257A, 273C3
Dayton	285A
Dickson	229A, 273C1

TENNESSEE—Continued

	Channel No.
Dresden	236A
Dyer	232A
Dyersburg	261C2
East Ridge	300C3
Elizabethton	257C3
Erwin	280A
Etowah	276C2
Fayetteville	288A
Franklin	261A
Gallatin	283C1
Gatlinburg	288A
Germantown	231C2, 298C3
Goddlettsville	246C2
Graysville	239A
Greensville	235C
Harriman	224A
Harrogate	243A
Henderson	239A, 299C3
Hendersonville	221A
Humboldt	272A, 287A
Huntingdon	265C3
Jackson	268A, 276C2, 281C1
Jamestown	280A, 286A
Jefferson City	257A
Jellico	274A
Johnson City	268C
Karns	226A
Kingsport	253C, 285A
Kingston Springs	229A
Knoxville	248C, 278C, 283A, 299C
Lafayette	271A
La Follette	285A
Lawrenceburg	240A, 248A
Lebanon	255A, 298C
Lenoir City	228A
Lewisburg	232A
Lexington	257A
Livingston	240C2
Lobelville	233C2
Loudon	256A, 287A
Madisonville	258A
Manchester	259C
Martin	269A
Maryville	239A
McKenzie	295C1
McKinnon	268A
McMinnville	280A
Memphis	246C1, 259C, 266C1, 274C1, 283C1, 290C
Middleton	264C3
Milan	222C
Millington	251C
Minor Hill	221A
Monterey	226A, 284A, 295C2
Morristown	231A
Murfreesboro	242C1
Nashville	225C, 238C, 250C, 277C, 290C
Newport	225A
Norris	294A
Oak Ridge	232A, 262C
Oliver Springs	254C3
Oneida	288A
Paris	231C3
Parsons	247A
Pulaski	252A
Red Bank	232A
Ripley	235A
Rockwood	289A
Rogersville	293A
St. Joseph	268A
Savannah	228A, 269A
Selmer	230A, 288A

TENNESSEE—Continued

	Channel No.
Sevierville	271C1
Seymour	242A
Shelbyville	275C1
Signal Mountain	251A
Smithville	269A
Smyrna	231A
Soddy-Daisy	272A
South Pittsburg	247C2
Sparta	288A
Spencer	297A
Spring City	230C3
Springfield	232A
Surgoinsville	282A
Sweetwater	252A
Tazewell	290A
Tiptonville	267C3
Trenton	248C3
Tullahoma	227C
Tusculum	276A
Union City	285A, 289A
Wartburg	267C3
Waverly	286C2
Waynesboro	235C3
Woodbury	285A

EFFECTIVE DATE NOTES: 1. At 62 FR 47762, Sept. 11, 1997, Tennessee was amended by removing Waynesboro, channel 235C3, and adding Collinwood, channel 235C3, effective Oct. 20, 1997.

2. At 62 FR 49171, Sept. 19, 1997, Tennessee was amended by removing channel 229A at Dickson and by adding Kingston Springs, channel 229A, effective Oct. 27, 1997

TEXAS

	Channel No.
Abilene	223C2, 264C, 286C1, 292C2, 300C1
Alamo	285A
Alice	221A, 272A
Alpine	224A
Amarillo	226C1, 231C, 245C1, 250C, 254C1, 259A, 265C1, 270C1, 275C1, 289C3
Andrews	288A
Anson	252A
Arlington	235C
Atlanta	261C2
Austin	229C, 238C, 251C1, 264C, 272C2
Ballinger	276A
Bandera	252A
Bastrop	296C2
Bay City	269C1, 273C1
Beaumont	231C, 236C1, 248C, 273C2, 300C
Beeville	250C2, 289C3
Bells	226A
Belton	292C3
Benavides	299C2
Big Lake	252A, 280A
Big Spring	240C3, 232C3
Bishop	295C3
Bloomington	295C3
Blossom	224C2
Bonham	252C3
Borger	282C1, 294A
Bowie	264C3
Brackettville	234A
Brady	237A

TEXAS—Continued

	Channel No.
Breckenridge	228C2
Brenham	231C3, 291C2
Bridgeport	252A
Brownfield	282C2
Brownsville	258C, 262C
Brownwood	257C2, 268C1, 281C1
Bryan	252A, 258A, 284C2
Burkburnett	284C
Burnet	223A, 295A
Caldwell	297A
Cameron	232A, 280C2
Campwood	256A
Canadian	235C1
Canyon	296A, 300C1
Carrizo Springs	221A, 228A
Carthage	255C1, 282A
Center	272A
Centerville	290A
Childress	241C2
Claude	239C1
Clarksville	253C
Cleveland	246C
Clifton	277C3
Coahoma	288A
Coalgate	288C2
Coleman	296C3
College Station	263C2
Colorado City	291A
Columbus	252A
Comanche	232C2
Comfort	236C2
Commerce	277C3
Conroe	295C
Copperas Cove	276C3
Corpus Christi	230C1, 234C3, 238C, 243C1, 256C1
Corsicana	300C1
Cotulla	249A
Crane	267C1
Crockett	224C2, 228C2
Crystal Beach	268C3
Crystal City	232A
Cuero	249C3
Daingerfield	295A
Dalhart	240A
Dallas	223C, 250C, 254C, 262C, 266C, 275C, 283C, 287C
Decatur	289C1
Del Rio	232A, 242C1
Denison-Sherman	269C1
Denton	256C, 291C
Denver City	248C2
DeQueen	227A
Devine	221A
Diboll	238C1
Dilley	255C2
Dimmitt	263C3
Dublin	226C3
Dumas	237C3
Eagle Pass	224A
Eastland	236A, 249A
Edinburg	281C, 300C1
Edna	241C3
El Campo	245C1
El Paso	222C, 226C, 230C, 234C, 238C, 242C, 248C, 260C, 271C
Electra	235C2
Elgin	223A
Fabens	276A
Fairfield	256C3
Falfurrias	292A
Farmersville	221A
Farwell	222C1, 252C2

TEXAS—Continued

	Channel No.
Floresville	231C2
Flower Mound	244C
Floydada	237A
Fort Stockton	232A
Fort Worth	231C, 242C, 258C, 298C1
Fort Worth-Dallas	246C, 271C
Franklin	270C3
Fredericksburg	266C
Freeport	277C
Freer	240A
Friona	234C2
Gainesville	233C, 300C2
Galveston	285A, 293C
Ganado	284C2
Gatesville	252A
George West	281A
Georgetown	244C1, 299C3
Giddings	268C1
Gilmer	237C3
Glen Rose	221C2
Goliad	240C3
Gonzales	292C2
Graham	296C3
Granbury	294C
Greenville	228C3
Gregory	283A
Groves	223C2
Haltom City	227C2
Hamlin	279C
Harker Heights	288C2
Harlingen	233C, 241C
Haskell	238C
Hearne	276A
Hebbronville	269A
Hemphill	280A
Hempstead	287C3
Hereford	278C2, 292C3
Higland Park-Dallas	279C
Hillsboro	273C1
Hondo	253A
Hooks	240C3
Houston	229C, 233C, 239C, 243C, 250C, 256C, 262C, 266C, 271C, 275C, 281C, 289C
Howe	237C3
Hudson	242A
Huntington	270C2
Huntsville	259C3, 269A
Hutto	221A
Idalou	289A, 299A
Ingleside	297C3
Jacksboro	299A
Jacksonville	272A, 293C
Jasper	274C2, 297A
Jefferson	283A
Johnson City	300C2
Jourdanton	239A
Junction	228A
Karnes City	276C2
Kennedy	221A
Kermit	292A
Kerrville	222C2, 232C2
Kilgore	241C2
Killeen	222A, 227C
Kingsville	224C2, 248C1
La Grange	285A
Lake Jackson	298C
Lamesa	284C1
Lampasas	255C1
Laredo	224A, 235C1, 251C1, 291A
Leakey	282A
Levelland	288A

TEXAS—Continued

	Channel No.
Liberty	260C2
Linden	257C2
Littlefield	238C3
Livingston	222C2
Llano	242A
Lometa	270A
Longview	247C2, 289C
Lorenzo	251C2
Los Ybanez	253C2
Lubbock	229C1, 233C1, 242C1, 258C1, 266C1, 273C1, 293C2
Lufkin	257C2, 286C
Luling	234C
Madisonville	241C2, 263C3
Malakoff	240A
Marble Falls	285C3
Marfa	228A
Markham	223A
Marlin	225C2
Marshall	222A, 280A
Mason	249C2
McAllen	245C, 253C
Mc Camey	237A
McKinney	295A
Memphis	287C1
Mercedes	292A
Merkel	274C1
Mexia	285A
Midland	222C, 227C1, 236C3, 277C1, 294C1
Mineola	260A
Mineral Wells	240C1
Mirando City	263C2
Mission	288A
Monahans	260C1, 271C
Mt. Enterprise	260A
Mount Pleasant	264C
Muenster	293A
Muleshoe	276A
Nacogdoches	221A, 277C1
Navasota	223A
New Boston	236A, 278C2
New Braunfels	221A
New Ulm	222A
Nolanville	297A
Odem	252C2
Odessa	241C2, 245C1, 250C1, 256C1, 300C1
Olney	248C2
Orange	283C, 291C
Ozona	232A
Palacios	259A
Palestine	244A, 252C2
Pampa	262C2
Paris	230C2, 282C2, 299C2
Pasadena	225C
Pearsall	237A, 281A
Pecos	247C1, 252A
Perryton	240A
Pilot Point	285C2
Pittsburg	245A, 276A
Plainview	247C1, 280C1, 295C2
Pleasanton	252A
Point Comfort	231C3
Port Arthur	227C, 253C
Port Isabel	266A
Port Lavaca	227C1
Portland	288A
Post	297C2
Premont	264C3
Quanah	265C3
Raymondville	271C2, 289A
Refugio	291C3

TEXAS—Continued

	Channel No.
Rio Grande City	276A
Robstown	260C1, 286A
Rockdale	253A
Rockport	272C2
Roma	249A
Rosenberg	285A
Round Rock	290C2
Rusk	249C3
San Angelo	225C1, 230C1, 234C1, 248C1, 254C, 261C2, 270C1, 289C3, 298C1
San Antonio	225C, 241C1, 247C, 258C, 262C, 270C1, 274Cl, 283C1, 298C
San Augustine	223A
San Diego	290C3
San Marcos	278C
Sanger	281C3
San Saba	246A
Seabrook	221C1
Seadrift	286a
Seguin	287C
Seminole	292A
Seymour	230C2
Shamrock	224A
Silsbee	269A
Sinton	267C1, 279C1
Slaton	224C1
Snyder	246A, 268C2
Sonora	221A
South Padre Island	224A, 237A
Spearman	252A
Stamford	221C2
Stanton	290C2
Stephenville	252A
Sterling City	243C2
Sulphur Springs	240A
Sweetwater	244A
Tahoka	237A, 262C1
Tatum	262A
Taylor	221A, 282C2
Temple	269C3, 282C2
Terrell	296A
Terrell Hills	294C
Texarkana	251C, 273C1
Thorndale	257A
Three Rivers	233C2
Tulia	285C3
Tye	259C1
Tyler	221C3, 226C1, 268C, 281C2
Uvalde	229A, 272A, 285C3
Vernon	272A
Victoria	222A, 236C1, 254C1, 265A, 300C1
Waco	233A, 238C, 248C, 260C, 296A
Wake Village	233A
Whitehouse	297C2
Wichita Falls	225C1, 260C1, 277C1, 273A, 292C2
Willis	279C3
Winfield	249C3
Winnie	264C
Winnsboro	285A
Winona	274A
Winters	241A
Woodville	234C2
Yoakum	223A
Zapata	228A

EFFECTIVE DATE NOTE: At 62 FR 49622, Sept. 23, 1997, Texas was amended by removing channel 282C2 at Temple; by removing channel 221A and adding channel 282C2 at Taylor; and by adding Hutto, channel 221A, effective Oct. 27, 1997.

UTAH

	Channel No.
Blanding	221A
Bountiful	258C
Brian Head	251C
Brigham City	264C, 295C
Cedar City	223C, 235C1
Centerville	289C
Coalville	223A
Delta	239C1
Huntsville	276C3
Kanab	266C1
Levan	256A
Logan	225C2, 233C
Manti	286C
Midvale	274C
Moab	246C1
Nephi	224A, 280C1
Oakley	268C1
Ogden	238C1, 250C, 266C, 270C
Orem	298C
Payson	222A
Price	252C3, 265A
Provo	235C, 242C
Randolph	272A
Richfield	229C, 248
Roosevelt	230A, 253C2
Roy	300C
St. George	228A, 240C, 259C
Salt Lake City	227C, 231C, 246C, 254C, 262C, 278C, 282C
Smithfield	280A
Spanish Fork	293C1
Tooele	221C3
Torrey	253A
Tremonton	286C2
Vernal	290C3

EFFECTIVE DATE NOTE: At 62 FR 47763, Sept. 11, 1997, Utah was amended by adding Levan, channel 256A; and by adding Oakley, channel 268C1; effective Oct. 20, 1997.

VERMONT

	Channel No.
Barre	296A
Bellows Falls	296A
Bennington	232A
Brandon	268A
Brattleboro	224A, 244A
Burlington	225C, 255C1, 300C
Canaan	231C3
Danville	239A
Derby Center	221C3
Hartford	282A
Killington	287C2
Lyndon	249C3
Manchester	274B
Marlboro	268A
Middlebury	265A
Montpelier	284C2
Randolph	271C3
Royalton	276A
Rupert	281A
Rutland	233C3, 246C2, 251C2
South Burlington	238C3
Springfield	228A

VERMONT—Continued

	Channel No.
St. Albans	272A
St. Johnsbury	288A
Stowe	269A
Vergennes	244A, 294C2
Warren	241A
Waterbury	277C3
West Rutland	298C3
White River Junction	237A
Wilmington	264A
Woodstock	230A

VIRGINIA

	Channel No.
Abingdon	224A
Accomac	257B1
Alberta	276A
Alta Vista	288A
Amherst	300C1
Appomattox	274C1, 296A
Arlington	286B
Ashland	261A
Bedford	295A
Berryville	288A
Big Stone Gap	228C2
Blacksburg	287C3
Blackstone	228C3
Bluefield	292A
Bowling Green	245A
Bridgewater	286A
Broadway	238A
Buena Vista	244A
Buffalo Gap	238A
Cape Charles	241B
Cedar Bluff	299A
Charlottesville	224A, 236A, 248B, 298A
Chase City	260C3
Chesa-Portsm-Va Bea	271A
Chesapeake	229C1
Chester	266A
Chincoteague	243A
Christiansburg	264A
Churchville	292B1
Clarksville	252C3
Clifton Forge	280A
Clinchco	221A
Coeburn	259C3
Colonial Beach	240A
Colonial Heights	237B1
Covington	265A
Crewe	284C1
Crozet	272A, 278A
Culpeper	276A
Danville	277C1
Deltaville	222A
Dillwyn	287A
Elkton	252A
Emporia	258A
Ettrick	226A
Exmore	291B1, 298B
Falmouth	283A
Farmville	225A, 239B, 267A
Fort Lee	243B
Franklin	269A
Fredericksburg	227B, 268B
Front Royal	237A, 257A
Galax	251C
Gloucester	256A
Goochland	263A
Gretna	292A

VIRGINIA—Continued

	Channel No.
Grundy	249A
Hampton	267B
Harrisonburg	264B, 282B
Hot Springs	296A
Jonesville	256A
Kilmarnock	269A
Lawrenceville	288A
Lebanon	297A
Louisa	288A
Luray	280A, 289A
Lynchburg	250C3, 261C3, 269C3, 290A
Manassas	294B
Marion	230C, 273A, 278A
Martinsville	242C1
Mechanicsville	221B1
Mount Jackson	245A
Narrows	267A
Newport News	247B
Norfolk	239B, 254B, 259B, 263B, 275B, 283B, 287B
Norton	292A
Onley-Onancock	277B
Orange	244A
Pennington Gap	288A
Petersburg	257A, 262A
Pound	272A
Pulaski	296C3
Radford	269A
Richlands	264A, 288A
Richmond	233B, 251B, 271B, 279B, 289A, 293B
Roanoke	222C, 235C, 256C, 285C3
Ruckersville	270A
Rural Retreat	237A
Salem	228A
Shawsville	273A
South Boston	237A, 248C1
South Hill	255C3
Spotsylvania	257A
Stanleytown	260C3
Staunton	228A, 232B1, 259B
Strasburg	285A
Suffolk	225B, 295C
Tappahannock	288A
Tazewell	261A
Vinton	268A, 291A, 296A
Virginia Beach	235B
Warrenton	232A, 299B
Warsaw	265A
West Point	300A
White Stone	285A
Winchester	223B, 273B
Windsor	299A
Woodbridge	290B
Woodstock	229B1
Yorktown	231B

WASHINGTON

	Channel No.
Aberdeen	257C1, 284C2
Bellevue	223C
Bellingham	225C, 282C
Bremerton	295C
Camas	234C2
Cashmere	294A
Castle Rock	296C3
Centralia	275C
Chelan	228A
Cheney	266C

WASHINGTON—Continued

	Channel No.
Clarkston	231C, 275A
Cle Elum	229A
Colfax	273C3
Colville	221A
Davenport	247C3
Dayton	223C1, 272A
Deer Park	296C3
Dishman	293A
East Wenatchee	249A
Eatonville	285A
Edmonds	287C1
Ellensburg	237C2, 276C2
Elma	271C3
Ephrata	222C2, 230C2
Forks	280A
Goldendale	272C3
Grand Coulee	253C
Grandview	265C2
Hoquiam	237C3
Ilwaco	280C3
Kelso	233A
Kennewick	287C
Leavenworth	266A
Long Beach	232A
Longview	288A
Lynden	293C
Mabton	254A
McCleary	245C3
Medical Lake	270C2
Moses Lake	257A, 262C1
Naches	245A, 257A
Newport	285A
Olympia	241C
Omak	224C2, 282C2
Opportunity	241C
Othello	248C3
Pasco	252A, 267C3, 229A
Prosser	269C3
Pullman	249A, 258C1, 282C1
Quincy	240C3, 244A
Raymond	249C3
Richland	235C, 274C, 293C
Rock Island	258A
Royal City	242C3
Seattle	227C, 231C, 235C1, 239C, 243C, 251C, 255C, 260C, 264C, 268C, 273C, 299C
Shelton	233A
South Bend	289C3
Spokane	225C, 229C, 245C3, 251C, 255C, 260C, 280C2, 284A, 289C, 300C
Sunnyside	244A
Tacoma	247C, 279C, 291C
Toppenish	225C2
Vancouver	290C2
Wisp	292A
Walla Walla	227C1, 239C, 246C, 256A, 264C3, 265A
Wenatchee	271C, 285C2
Wilson Creek	278C1
Winlock	236A
Yakima	233C1, 252A, 259C3, 281C, 289C1, 297C

WEST VIRGINIA

	Channel No.
Barrackville	226A
Beckley	258B, 279B
Berkeley Springs	228A

WEST VIRGINIA—Continued

	Channel No.
Bethlehem	288B1
Bluefield	283C
Bridgeport	281A
Buckhannon	228B1, 267B
Charles Town	252A
Charleston	241B, 248B, 260B, 274B
Clarksburg	224A, 285A, 293B
Danville	223A
Dunbar	233A
Elkins	234B1, 255B1
Elizabeth	291A
Fairmont	232A, 250B
Fisher	279A
Grafton	240A
Hinton	272A
Huntington	263B, 277B, 300B
Keyser	231B, 296A
Kingwood	244A, 299A
Lewisburg	276A
Logan	270B
Lost Creek	242A
Mannington	274A
Martinsburg	248B
Matewan	294C3
Miami	297B
Milton	292B1
Morgantown	261A, 270B
Moundsville	243A
Mount Gay-Shamrock	234A
Mount Hope	290B
Mullens	224A
New Martinsville	258A, 280A
Oak Hill	231B
Parkersburg	236B, 256B1, 276A
Petersburg	269A
Pocatalico	254A
Point Pleasant	258A
Princeton	240A, 265A
Rainelle	237B1
Ravenswood	226A
Ripley	252A
Romney	261A, *281A
Ronceverte	249A
Salem	277A, 289A
South Charleston	265A
Spencer	284A
St. Albans	286B
St. Marys	230B1
Summersville	225B
Sutton	246B1
Vienna	261A
Webster Springs	262B
Welch	275A
Weston	272B1
Westover	265A
Wheeling	247B, 254B, 298B
White Sulphur Springs	227A
Williamson	243B
Williamstown	245A

WISCONSIN

	Channel No.
Adams	291A
Algoma	244C3, 281A
Allouez	294C3
Altoona	251C3
Antigo	287C1, 291C3
Appleton	289C
Ashland	244C2, 227C1

WISCONSIN—Continued

	Channel No.
Balsam Lake	285C3
Baradoo	235B
Barron	249A
Beaver Dam	237A
Berlin	284A
Birnamwood	225A
Black River Falls	259C3
Bloomer	236C3
Brillion	298C3
Brookfield	295A
Chetek	294C2
Chippewa Falls	289C3
Cleveland	251A
Clintonville	222A
Columbus	263A
Cornell	260C3
Crandon	276A
De Forest	226A
De Pere	240C3
Dickeyville	266A
Dodgeville	257A
Durand	240A
Eagle River	233C2
Eau Claire	231C1, 264C1, 283C
Elk Mound	225A
Evansville	290A
Fond Du Lac	296A
Forestville	271A
Fort Atkinson	297B
Green Bay	253C1, 266C
Hallie	279C1
Hartford	285A
Hayward	222A, 266A
Iron River	297C3
Janesville	260B1
Kaukauna	276C3, 285A
Kenosha	236B
Kewaunee	224A
La Crosse	227C, 239C2, 285A, 292C3
Ladysmith	224A, 226A
Lake Geneva	241A
Lancaster	249C3
Lomira	249A
Madison	251B, 268B, 273B, 281B
Manitowoc	221A, 272A
Marathon	285C3
Marinette	236C1
Marshfield	293C1
Mauston	221A
Mayville	254A
Medford	257C3
Menomonee Falls	252A
Merrill	281C3
Middleton	292A
Milwaukee	227B, 233B, 239B, 243B, 247B, 256B, 271B, 275B, 299B
Minocqua	240C3
Mishicot	234A
Monomonie	221C3
Monroe	229B
Mosinee	234C2
Mount Horeb	294A
Mukwonago	287A
Neehah-Menasha	232C3, 262C2
Neillsville	224A, 298C1
Nekoosa	230C3, 288A
New Holstein	225A
New London	228C2
New Richmond	296C3
Oconto	296A
Omro	258C2
Oshkosh	245A

WISCONSIN—Continued

	Channel No.
Park Falls	254C2
Peshtigo	242C2
Platteville	296A
Plymouth	283A
Port Washington	261A
Portage	240A, 261A
Prairie Du Chien	232C2
Racine	221A, 264B
Reedsburg	275A, 285A
Rhinelander	248C1, 261C1
Rice Lake	242C1, 256C2
Richland Center	265A
Ripon	241A
River Falls	292A
Rudolph	260C3
Sauk City	242B1
Seymour	282A
Shawano	257C3
Sheboygan	229A
Sheboygan Falls	293A
Shell Lake	237C3
Siren	289A
Sparta	246C1
Spencer	222A
Spooner	292A
Sturgeon Bay	230C1, 249A, 259C2
Sturtevant	284A
Sun Prairie	221A
Superior	273C1
Suring	274C1
Three Lakes	229C2
Tomah	241C2, 255C, 233C3
Tomahawk	223C3
Trempealeau	288A
Two Rivers	255A,
Verona	288A
Viroqua	272A
Washburn	290C1
Watertown	231B
Waukesha	291B
Waunakee	286A
Waupaca	224A
Wausau	238C, 270C, 300C
Wautoma	272A
Wauwatosa	279B
West Bend	223B
West Salem	261A
Whitehall	272A
Whitewater	283A, 293A
Whiting	244C2
Winneconne	280C3
Wisconsin Dells	295A
Wisconsin Rapids	277C1

WYOMING

	Channel No.
Afton	254A
Albin	297C2
Buffalo	225C1
Burns	270C2
Casper	233C, 238C, 247A, 273A, 279C, 284A, 295C
Centennial	224A
Cheyenne	250C1, 260A, 264C1, 285A, 292C3
Cody	250C
Diamondville	287C2
Douglas	257A
Evanston	291C3
Fort Bridger	257A

WYOMING—Continued

	Channel No.
Gillette	245C1, 249A, 264C1
Glendo	261A
Glenrock	252A
Green River	221C, 268C
Greybull	262C
Jackson	227C, 237C, 245C1
Kemmerer	297A
Lander	248C1
Laramie	236C, 244A, 275C, 283C2, 288C3
Lost Cabin	256C
Midwest	300A
Newcastle	257A
Pine Bluffs	287C2
Pinedale	2266A
Powell	233C, 281C
Rawlins	224A
Riverton	226C1, 230C1
Rock Springs	236C, 243C, 283C
Sheridan	235C1, 243C3
Sundance	276C1
Thermopolis	252A, 269A
Torrington	252C3
Wheatland	269A
Worland	241C2

EFFECTIVE DATE NOTE: At 62 FR 47763, Sept. 11, 1997, Wyoming was amended by removing channel 268C and adding channel 221C at Green River, effective Oct. 20, 1997.

AMERICAN SAMOA

	Channel No.
Fagaitua	276C2
Leone	230C1
Pago Pago	221C3, 226C1

CENTRAL MARIANAS

	Channel No.
Saipan	230A

GARAPAN

	Channel No.
Saipan	258C1, 262C2, 266A, 280A

GUAM

	Channel No.
Agana	230C2, 238C2, 248C2, 262C2, 270C2, 275C
Dededo	286C

PUERTO RICO

	Channel No.
Aguada	288A
Aguadilla	225B, 262B
Arecibo	293B1, 297B
Bayamon	234B, 264B
Cabo Rojo	272A

PUERTO RICO—Continued

	Channel No.
Caguas	277B
Camuy	275B
Carolina	299B
Cidra	249A
Corozal	223B
Culebra	254A
Fajardo	243B
Guayama	295B
Hormigueros	221A, 291A
Isabela	268B
Lajas	279B
Las Piedras	252A
Luguillo	221A
Manati	245B
Maricao	241B
Mayaguez	231B, 248B, 254B
Naguabo	225A
Ponce	227B1, 266B, 270B, 286B
Quebradillas	258A
Rio Grande	247A
Rio Piedras	239B
San German	236B
San Juan	229B, 256B, 260B, 273B, 284B, 289B
Santa Isabel	251A
Utuado	281B
Vieques	291B

VIRGIN ISLANDS

	Channel No.
Charlotte Amalie	*226A, 241B1, 250B, 271B, *275A, 282B, 287B, 297B1
Christiansted	228B, 236B, 258B, 262B, 285A
Cruz Bay	267B
Frederiksted	253A, 269B1, 278A

(Sec. 316, 66 Stat. 717; 47 U.S.C. 316; sec. 5, 48 Stat., as amended, 1068; 47 U.S.C. 154, 155; secs. 2, 3, 4, 301, 303, 307, 308, 309, 315, 317, 48 Stat. as amended, 1064, 1065, 1066, 1081, 1082, 1083, 1084, 1085, 1088, 1089; (47 U.S.C. 152, 153, 301, 303, 307, 308, 309, 315, 317); secs 1, 201–205, 208, 215, 218, 313, 314, 403, 404, 410, 602; 48 Stat. as amended; 1070, 1071, 1072, 1073, 1076, 1077, 1087, 1094, 1098, 1102 (47 U.S.C. 151, 201–205, 208, 215, 218, 313, 314, 403, 404, 410, 602))

[FR 12711, Oct. 6, 1965]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 73.202 see the List of CFR Sections Affected in the Finding Aids section of this volume.

§ 73.203 Availability of channels.

(a) Except as provided for in paragraph (b) of this section, applications may be filed to construct FM broadcast stations only at the communities and on the channels contained in the Table of Allotments (§ 73.202(b)). Applications that fail to comply with this requirements, whether or not accompanied by

a petition to amend the Table, will not be accepted for tender.

(b) Applications filed on a first come, first served basis may propose a lower or higher class adjacent, intermediate frequency or co-channel. Applications for the modification of an existing FM broadcast station may propose a lower or higher class adjacent, intermediate frequency or co-channel, or an same class adjacent channel. In these cases, the applicant need not file a petition for rule making to amend the Table of Allotments (§ 73.202(b)) to specify the modified channel class.

NOTE: Changes in channel and/or class by application are limited to modifications on first, second and third adjacent channels, intermediate frequency (IF) channels, and co-channels which require no other changes to the FM Table of Allotments. Applications requesting such modifications must meet either the minimum spacing requirements of § 73.207 at the site specified in the application, without resort to the provisions of the Commission's Rules permitting short spaced stations as set forth in §§ 73.213 through 73.215 or demonstrate by a separate exhibit attached to the application the existence of a suitable allotment site that fully complies with §§ 73.207 and 73.315 without resort to §§ 73.213 through 73.215.

[54 FR 11954, Mar. 23, 1989, as amended at 58 FR 38535, July 19, 1993]

§ 73.204 International agreements and other restrictions on use of channels.

See §§ 73.207, 73.220 and 73.1650.

[49 FR 10264, Mar. 20, 1984]

§ 73.205 Zones.

For the purpose of allotments and assignments, the United States is divided into three zones as follows:

(a) Zone I consists of that portion of the United States located within the confines of the following lines drawn on the United States Albers Equal Area Projection Map (based on standard parallels 291/2° and 451/2°; North American datum): Beginning at the most easterly point on the State boundary line between North Carolina and Virginia; thence in a straight line to a point on the Virginia-West Virginia boundary line located at north latitude 37°49′ and west longitude 80°12′30″; thence westerly along the southern boundary lines of the States of West Virginia, Ohio, Indiana, and Illinois to a point at the junction of the Illinois, Kentucky, and Missouri State boundary lines; thence northerly along the western boundary line of the State of Illinois to a point at the junction of the Illinois, Iowa, and Wisconsin State boundary lines; thence easterly along the northern State boundary line of Illinois to the 90th meridian; thence north along this meridian to the 43.5° parallel; thence east along this parallel to the United States-Canada border; thence southerly and following that border until it again intersects the 43.5° parallel; thence east along this parallel to the 71st meridian; thence in a straight line to the intersection of the 69th meridian and the 45th parallel; thence east along the 45th parallel to the Atlantic Ocean. When any of the above lines pass through a city, the city shall be considered to be located in Zone I. (See Figure 1 of § 73.699.)

(b) Zone I–A consists of Puerto Rico, the Virgin Islands and that portion of the State of California which is located south of the 40th parallel.

(c) Zone II consists of Alaska, Hawaii and the rest of the United States which is not located in either Zone I or Zone I–A.

[29 FR 14116, Oct. 14, 1964, and 31 FR 10125, July 27, 1966, as amended at 48 FR 29504, June 27, 1983]

§ 73.207 Minimum distance separation between stations.

(a) Except for assignments made pursuant to § 73.213 or 73.215, FM allotments and assignments must be separated from other allotments and assignments on the same channel (co-channel) and five pairs of adjacent channels by not less than the minimum distances specified in paragraphs (b) and (c) of this section. The Commission will not accept petitions to amend the Table of Allotments unless the reference points meet all of the minimum distance separation requirements of this section. The Commission will not accept applications for new stations, or applications to change the channel or location of existing assignments unless transmitter sites meet the minimum distance separation requirements of

this section, or such applications conform to the requirements of § 73.213 or 73.215. However, applications to modify the facilities of stations with short-spaced antenna locations authorized pursuant to prior waivers of the distance separation requirements may be accepted, provided that such applications propose to maintain or improve that particular spacing deficiency. Class D (secondary) assignments are subject only to the distance separation requirements contained in paragraph (b)(3) of this section. (See § 73.512 for rules governing the channel and location of Class D (secondary) assignments.)

(b) The distances listed in Tables A, B, and C apply to allotments and assignments on the same channel and each of five pairs of adjacent channels. The five pairs of adjacent channels are the first (200 kHz above and 200 kHz below the channel under consideration), the second (400 kHz above and below), the third (600 kHz above and below), the fifty-third (10.6 MHz above and below), and the fifty-fourth (10.8 MHz above and below). The distances in the Tables apply regardless of whether the proposed station class appears first or second in the ''Relation'' column of the table.

(1) Domestic allotments and assignments must be separated from each other by not less than the distances in Table A which follows:

TABLE A—MINIMUM DISTANCE SEPARATION REQUIREMENTS IN KILOMETERS (MILES)

Relation	Co-channel	200 kHz	400/600 kHz	10.6/10.8 MHz
A to A	115 (71)	72 (45)	31 (19)	10 (6)
A to B1	143 (89)	96 (60)	48 (30)	12 (7)
A to B	178 (111)	113 (70)	69 (43)	15 (9)
A to C3	142 (88)	89 (55)	42 (26)	12 (7)
A to C2	166 (103)	106 (66)	55 (34)	15 (9)
A to C1	200 (124)	133 (83)	75 (47)	22 (14)
A to C	226 (140)	165 (103)	95 (59)	29 (18)
B1 to B1	175 (109)	114 (71)	50 (31)	14 (9)
B1 to B	211 (131)	145 (90)	71 (44)	17 (11)

TABLE A—MINIMUM DISTANCE SEPARATION REQUIREMENTS IN KILOMETERS (MILES)—Continued

Relation	Co-channel	200 kHz	400/600 kHz	10.6/10.8 MHz
B1 to C3	175 (109)	114 (71)	50 (31)	14 (9)
B1 to C2	200 (124)	134 (83)	56 (35)	17 (11)
B1 to C1	233 (145)	161 (100)	77 (48)	24 (15)
B1 to C	259 (161)	193 (120)	105 (65)	31 (19)
B to B	241 (150)	169 (105)	74 (46)	20 (12)
B t0 C3	211 (131)	145 (90)	71 (44)	17(11)
B to C2	241 (150)	169 (105)	74 (46)	20 (12)
B to C1	270 (168)	195 (121)	79 (49)	27 (17)
B to C	274 (170)	217 (135)	105 (65)	35 (22)
C3 to C3	153 (95)	99 (62)	43 (27)	14 (9)
C3 to C2	177 (110)	117 (73)	56 (35)	17 (11)
C3 to C1	211 (131)	144 (90)	76 (47)	24 (15)
C3 to C	237 (147)	176 (109)	96 (60)	31 (19)
C2 to C2	190 (118)	130 (81)	58 (36)	20 (12)
C2 to C1	224 (139)	158 (98)	79 (49)	27 (17)
C2 to C	249 (155)	188 (117)	105 (65)	35 (22)
C1 to C1	245 (152)	177 (110)	82 (51)	34 (21)
C1 to C	270 (168)	209 (130)	105 (65)	41 (25)
C to C	290 (180)	241 (150)	105 (65)	48 (30)

(2) Under the Canada-United States FM Broadcasting Agreement, domestic U.S. allotments and assignments within 320 kilometers (199 miles) of the common border must be separated from Canadian allotments and assignments by not less than the distances given in Table B, which follows. When applying Table B, U.S. Class C2 allotments and assignments are considered to be Class B; also, U.S. Class C3 allotments and assignments and U.S. Class A assignments operating with more than 3 kW ERP and 100 meters antenna HAAT (or equivalent lower ERP and higher antenna HAAT based on a class contour distance of 24 km) are considered to be Class B1.

TABLE B—MINIMUM DISTANCE SEPARATION REQUIREMENTS IN KILOMETERS

Relation	Co-Channel	Adjacent Channels			I.F.
	0 kHz	200 kHz	400 kHz	600 kHz	10.6/10.8 MHz
A–A	132	85	45	37	8
A–B1	180	113	62	54	16
A–B	206	132	76	69	16
A–C1	239	164	98	90	32
A–C	242	177	108	100	32
B1–B1	197	131	70	57	24
B1–B	223	149	84	71	24
B1–C1	256	181	106	92	40
B1–C	259	195	116	103	40
B–B	237	164	94	74	24
B–C1	271	195	115	95	40
B–C	274	209	125	106	40
C1–C1	292	217	134	101	48
C1–C	302	230	144	111	48
C–C	306	241	153	113	48

(3) Under the 1992 Mexico-United States FM Broadcasting Agreement, domestic U.S. assignments or allotments within 320 kilometers (199 miles) of the common border must be separated from Mexican assignments or allotments by not less than the distances given in Table C in this paragraph (b)(3). When applying Table C—

(i) U.S. or Mexican assignments or allotments which have been notified internationally as Class A are limited to a maximum of 3.0 kW ERP at 100 meters HAAT, or the equivalent;

(ii) U.S. or Mexican assignments or allotments which have been notified internationally as Class AA are limited to a maximum of 6.0 kW ERP at 100 meters HAAT, or the equivalent;

(iii) U.S. Class C3 assignments or allotments are considered Class B1;

(iv) U.S. Class C2 assignments or allotments are considered Class B; and

(v) Class C1 assignments or allotments assume maximum facilities of 100 kW ERP at 300 meters HAAT. However, U.S. Class C1 stations may not, in any event, exceed the domestic U.S. limit of 100 kW ERP at 299 meters HAAT, or the equivalent.

TABLE C—MINIMUM DISTANCE SEPARATION REQUIREMENTS IN KILOMETERS

Relation	Co-Channel	200 kHz	400 kHz or 600 kHz	10.6 or 10.8 MHz (I.F.)
A to A	100	61	25	8
A to AA	111	68	31	9
A to B1	138	88	48	11
A to B	163	105	65	14
A to C1	196	129	74	21
A to C	210	161	94	28
AA to AA	115	72	31	10
AA to B1	143	96	48	12
AA to B	178	125	69	15
AA to C1	200	133	75	22
AA to C	226	165	95	29
B1 to B1	175	114	50	14
B1 to B	211	145	71	17
B1 to C1	233	161	77	24
B1 to C	259	193	96	31
B to B	237	164	65	20
B to C1	270	195	79	27
B to C	270	215	98	35
C1 to C1	245	177	82	34
C1 to C	270	209	102	41
C to C	290	228	105	48

(c) The distances listed below apply only to allotments and assignments on Channel 253 (98.5 MHz). The Commission will not accept petitions to amend the Table of Allotments, applications for new stations, or applications to change the channel or location of existing assignments where the following minimum distances (between transmitter sites, in kilometers) from any TV Channel 6 allotment or assignment are not met:

MINIMUM DISTANCE SEPARATION FROM TV CHANNEL 6 (82–88 MHz)

FM Class	TV Zone I	TV Zones II & III
A	17	22
B1	19	23
B	22	26
C3	19	23
C2	22	26
C1	29	33
C	36	41

[48 FR 29504, June 27, 1983, as amended at 49 FR 10264, Mar. 20, 1984; 49 FR 19670, May 9, 1984; 49 FR 50047, Dec. 26, 1984; 51 FR 26250, July 22, 1986; 54 FR 14963, Apr. 14, 1989; 54 FR 16366, Apr. 24, 1989; 54 FR 19374, May 5, 1989; 54 FR 35338, Aug. 25, 1989; 56 FR 27426, June 14, 1991; 56 FR 57293, Nov. 8, 1991; 62 FR 50256, Sept. 25, 1997]

§ 73.208 Reference points and distance computations.

(a)(1) The following reference points must be used to determine distance separation requirements when petitions to amend the Table of Allotments (§ 73.202(b)) are considered:

(i) First, transmitter sites if authorized, or if proposed in applications with cut-off protection pursuant to paragraph (a)(3) of this section;

(ii) Second, reference coordinates designated by the FCC;

(iii) Third, coordinates listed in the United States Department of Interior publication entitled Index to the National Atlas of the United States of America; or

(iv) Last, coordinates of the main post office.

(The community's reference points for which the petition is submitted will normally be the coordinates listed in the above publication.)

(2) When the distance between communities is calculated using community reference points and it does not meet the minimum separation requirements of § 73.207, the channel may still be allotted if a transmitter site is available that would meet the minimum separation requirements and still permit the proposed station to meet the minimum field strength requirements of § 73.315. A showing indicating the availability of a suitable site should be sumitted with the petition. In cases where a station is not authorized in a community or communities and the proposed channel cannot meet the separation requirement a showing should also be made indicating adequate distance between suitable transmitter sites for all communities.

(3) Petitions to amend the Table of Allotments that do not meet minimum distance separation requirements to transmitter sites specified in pending applications will not be considered unless they are filed no later than:

(i) The last day of a filing window if the application is for a new FM facility or a major change in the non-reserved band and is filed during a filing window established under section 73.3564(d)(3); or

(ii) The cut-off date established in a Commission Public Notice under § 73.3564(d) and 73.3573(e) if the application is for a new FM facility or a major change in the reserved band; or

(iii) The date of receipt of all other types of FM applications. If an application is amended so as to create a conflict with a petition for rule making filed prior to the date the amendment is filed, the amended application will be treated as if filed on the date of the amendment for purposes of this paragraph (a)(3).

NOTE: If the filing of a conflicting FM application renders an otherwise timely filed counterproposal unacceptable, the counterproposal may be considered in the rulemaking proceeding if it is amended to protect the site of the previously filed FM application within 15 days after being placed on the Public Notice routinely issued by the staff concerning the filing of counterproposals. No proposals involving communities not already included in the proceeding can be introduced during the reply comment period as a method of resolving conflicts. The counterproponent is required to make a showing that, at the time it filed the counterproposal, it did not know, and could not have known by exercising due diligence, of

the pendency of the conflicting FM application.

(b) Station separations in licensing proceedings shall be determined by the distance between the coordinates of the proposed transmitter site in one community and

(1) The coordinates of an authorized transmitter site for the pertinent channel in the other community; or, where such transmitter site is not available for use as a reference point,

(2) Reference coordinates designated by the FCC; or, if none are designated,

(3) The coordinates of the other community as listed in the publication listed in paragraph (a) of this section; or, if not contained therein,

(4) The coordinates of the main post office of such other community.

(5) In addition, where there are pending applications in other communities which, if granted, would have to be considered in determining station separations, the coordinates of the transmitter sites proposed in such applications must be used to determine whether the requirements with respect to minimum separations between the proposed stations in the respective cities have been met.

(c) The method given in this paragraph shall be used to compute the distance between two reference points, except that, for computation of distance involving stations in Canada and Mexico, the method for distance computation specified in the applicable international agreement shall be used instead. The method set forth in this paragraph is valid only for distances not exceeding 475 km (295 miles).

(1) Convert the latitudes and longitudes of each reference point from degree-minute-second format to degree-decimal format by dividing minutes by 60 and seconds by 3600, then adding the results to degrees.

(2) Calculate the middle latitude between the two reference points by averaging the two latitudes as follows:

$$ML=(LAT1_{dd}+LAT2_{dd})\div 2$$

(3) Calculate the number of kilometers per degree latitude difference for the middle latitude calculated in paragraph (c)(2) as follows:

$$KPD_{lat}=111.13209-0.56605\cos(2ML)+0.00120\cos(4ML)$$

(4) Calculate the number of kilometers per degree longitude difference for the middle latitude calculated in paragraph (c)(2) as follows:

$$KPD_{lon}=111.41513\cos(ML)-0.09455\cos(3ML)+0.00012\cos(5ML)$$

(5) Calculate the North-South distance in kilometers as follows:

$$NS=KPD_{lat}(LAT1_{dd}-LAT2_{dd})$$

(6) Calculate the East-West distance in kilometers as follows:

$$EW=KPD_{lon}(LON1_{dd}-LON2_{dd})$$

(7) Calculate the distance between the two reference points by taking the square root of the sum of the squares of the East-West and North-South distances as follows:

$$DIST=(NS^{2}+EW^{2})^{0.5}$$

(8) Round the distance to the nearest kilometer.

(9) Terms used in this section are defined as follows:

(i) $LAT1_{dd}$ and $LON1_{dd}$=the coordinates of the first reference point in degree-decimal format.

(ii) $LAT2_{dd}$ and $LON2_{dd}$=the coordinates of the second reference point in degree-decimal format.

(iii) ML=the middle latitude in degree-decimal format.

(iv) KPD_{lat}=the number of kilometers per degree of latitude at a given middle latitude.

(v) KPD_{lon}=the number of kilometers per degree of longitude at a given middle latitude.

(vi) NS=the North-South distance in kilometers.

(vii) EW=the East-West distance in kilometers.

(viii) DIST=the distance between the two reference points, in kilometers.

[28 FR 13623, Dec. 14, 1963, as amended at 29 FR 14116, Oct. 14, 1964; 48 FR 29505, June 27, 1983; 52 FR 37788, Oct. 9, 1987; 52 FR 39920, Oct. 26, 1987; 54 FR 9806, Mar. 8, 1989; 57 FR 36020, Aug. 12, 1992; 58 FR 38537, July 19, 1993]

§ 73.209 Protection from interference.

(a) Permittees and licensees of FM broadcast stations are not protected from any interference which may be caused by the grant of a new station, or of authority to modify the facilities of an existing station, in accordance with

the provisions of this subpart. However, they are protected from interference caused by Class D (secondary) noncommercial educational FM stations. See § 73.509.

(b) The nature and extent of the protection from interference afforded FM broadcast stations operating on Channels 221–300 is limited to that which results when assignments are made in accordance with the rules in this subpart.

[43 FR 39715, Sept. 6, 1978 and 48 FR 29505, June 27, 1983; 54 FR 9802, Mar. 8, 1989]

§ 73.210 Station classes.

(a) The rules applicable to a particular station, including minimum and maximum facilities requirements, are determined by its class. Possible class designations depend upon the zone in which the station's transmitter is located, or proposed to be located. The zones are defined in § 73.205. Allotted station classes are indicated in the Table of Allotments, § 73.202. Class A, B1 and B stations may be authorized in Zones I and I–A, Class A, C3, C2, C1, and C stations may be authorized in Zone II.

(b) The power and antenna height requirements for each class are set forth in § 73.211. If a station has an ERP and an antenna HAAT such that it cannot be classified using the maximum limits and minimum requirements in § 73.211, its class shall be determined using the following procedure:

(1) Determine the reference distance of the station using the procedure in paragraph (b)(1)(i) of § 73.211. If this distance is less than or equal to 28 km, the station is Class A; otherwise,

(2) For a station in Zone I or Zone I–A, except for Puerto Rico and the Virgin Islands:

(i) If this distance is greater than 28 km and less than or equal to 39 km, the station is Class B1.

(ii) If this distance is greater than 39 km and less than or equal to 52 km, the station is Class B.

(3) For a station in Zone II:

(i) If this distance is greater than 28 km and less than or equal to 39 km, the station is Class C3.

(ii) If this distance is greater than 39 km and less than or equal to 52 km, the station is Class C2.

(iii) If this distance is greater than 52 km and less than or equal to 72 km, the station is Class C1.

(iv) If this distance is greater than 72 km and less than or equal to 92 km, the station is Class C.

(4) For a station in Puerto Rico or the Virgin Islands:

(i) If this distance is less than or equal to 42 km, the station is Class A.

(ii) If this distance is greater than 42 km and less than or equal to 46 km, the station is Class B1.

(iii) If this distance is greater then 46 km and less than or equal to 78 km, the station is Class B.

[52 FR 37788, Oct. 9, 1987; 52 FR 39920, Oct. 26, 1987, as amended at 54 FR 16367, Apr. 24, 1989; 54 FR 19374, May 5, 1989; 54 FR 35339, Aug. 25, 1989]

§ 73.211 Power and antenna height requirements.

(a) *Minimum requirements.* (1) Except as provided in paragraphs (a)(3) and (b)(2) of this section, FM stations must operate with a minimum effective radiated power (ERP) as follows:

(i) The minimum ERP for Class A stations is 0.1 kW.

(ii) The ERP for Class B1 stations must exceed 6 kW.

(iii) The ERP for Class B stations must exceed 25 kW.

(iv) The ERP for Class C3 stations must exceed 6 kW.

(v) The ERP for Class C2 stations must exceed 25 kW.

(vi) The ERP for Class C1 stations must exceed 50 kW.

(vii) The minimum ERP for Class C stations is 100 kW.

(2) Class C stations must have an antenna height above average terrain (HAAT) of at least 300 meters (984 feet). No minimum HAAT is specified for Classes A, B1, B, C3, C2, or C1 stations.

(3) Stations of any class except Class A may have an ERP less than that specified in paragraph (a)(1) of this section, provided that the reference distance, determined in accordance with paragraph (b)(1)(i) of this section, exceeds the distance to the class contour for the next lower class. Class A stations may have an ERP less than 100 watts provided that the reference distance, determined in accordance with

paragraph (b)(1)(i) of this section, equals or exceeds 6 kilometers.

(b) *Maximum limits.* (1) Except for stations located in Puerto Rico or the Virgin Islands, the maximum ERP in any direction, reference HAAT, and distance to the class contour for each FM station class are listed below:

Station class	Maximum ERP	Reference HAAT in meters (ft.)	Class contour distance in kilometers
A	6kW (7.8 dBk)	100 (328)	28
B1	25kW (14.0 dBk)	100 (328)	39
B	50kW (17.0 dBk)	150 (492)	52
C3	25kW (14.0 dBk)	100 (328)	39
C2	50kW (17.0 dBk)	150 (492)	52
C1	100kW (20.0 dBk)	299 (981)	72
C	100kW (20.0 dBk)	600 (1968)	92

(i) The reference distance of a station is obtained by finding the predicted distance to the 1mV/m contour using Figure 1 of § 73.333 and then rounding to the nearest kilometer. Antenna HAAT is determined using the procedure in § 73.313. If the HAAT so determined is less than 30 meters (100 feet), a HAAT of 30 meters must be used when finding the predicted distance to the 1 mV/m contour.

(ii) If a station's ERP is equal to the maximum for its class, its antenna HAAT must not exceed the reference HAAT, regardless of the reference distance. For example, a Class A station operating with 6 kW ERP may have an antenna HAAT of 100 meters, but not 101 meters, even though the reference distance is 28 km in both cases.

(iii) Except as provided in paragraph (b)(3) of this section, no station will be authorized in Zone I or I–A with an ERP equal to 50 kW and a HAAT exceeding 150 meters. No station will be authorized in Zone II with an ERP equal to 100 kW and a HAAT exceeding 600 meters.

(2) If a station has an antenna HAAT greater than the reference HAAT for its class, its ERP must be lower than the class maximum such that the reference distance does not exceed the class contour distance. If the antenna HAAT is so great that the station's ERP must be lower than the minimum ERP for its class (specified in paragraphs (a)(1) and (a)(3) of this section), that lower ERP will become the minimum for that station.

(3) For stations located in Puerto Rico or the Virgin Islands, the maximum ERP in any direction, reference HAAT, and distance to the class contour for each FM station class are listed below:

Station class	Maximum ERP	Reference HAAT in meters (ft.)	Class contour distance in kilometers
A	6kW (7.8 dBk)	240 (787)	42
B1	25kW (14.0 dBk)	150 (492)	46
B	50kW (17.0 dBk)	472 (1549)	78

(c) *Existing stations.* Stations authorized prior to March 1, 1984 that do not conform to the requirements of this section may continue to operate as authorized. Stations operating with facilities in excess of those specified in paragraph (b) of this section may not increase their effective radiated powers or extend their 1 mV/m field strength contour beyond the location permitted by their present authorizations. The provisions of this section will not apply to applications to increase facilities for those stations operating with less than the minimum power specified in paragraph (a) of this section.

[53 FR 17042, May 13, 1988, as amended at 54 FR 16367, Apr. 24, 1989; 54 FR 19374, May 5, 1989; 54 FR 35339, Aug. 25, 1989]

§ 73.212 Administrative changes in authorizations.

(a) In the issuance of FM broadcast station authorizations, the Commission will specify the transmitter output power and effective radiated power in accordance with the following tabulation:

Power (watts or kW)	Rounded out to nearest figure (watts or kW)
1 to 3	.05
3 to 10	.1
10 to 30	.5
30 to 100	1
100 to 300	5
300 to 1,000	10

(b) Antenna heights above average terrain will be rounded out to the nearest meter.

[28 FR 13623, Dec. 14, 1963, as amended at 48 FR 29506, June 27, 1983]

§73.213 Grandfathered short-spaced stations.

(a) Stations at locations authorized prior to November 16, 1964 that did not meet the separation distances required by §73.207 and have remained continuously short-spaced since that time may be modified or relocated with respect to such short-spaced stations, provided that no area previously receiving interference-free service would receive co-channel or first-adjacent channel interference as predicted in accordance with paragraph (a)(1) of this section, or that a showing is provided pursuant to paragraph (a)(2) of this section that demonstrates that the public interest would be served by the proposed changes.

(1) The F(50,50) curves in Figure 1 of §73.333 are to be used in conjunction with the proposed effective radiated power and antenna height above average terrain, as calculated pursuant to §73.313(c), (d)(2) and (d)(3), using data for as many radials as necessary, to determine the location of the desired (service) field strength. The F(50,10) curves in Figure 1a of §73.333 are to be used in conjunction with the proposed effective radiated power and antenna height above average terrain, as calculated pursuant to §73.313(c), (d)(2) and (d)(3), using data for as many radials as necessary, to determine the location of the undesired (interfering) field strength. Predicted interference is defined to exist only for locations where the desired (service) field strength exceeds 0.5 mV/m (54 dBu) for a Class B station, 0.7 mV/m (57 dBu) for a Class B1 station, and 1 mV/m (60 dBu) for any other class of station.

(i) Co-channel interference is predicted to exist, for the purpose of this section, at all locations where the undesired (interfering station) F(50,10) field strength exceeds a value 20 dB below the desired (service) F(50,50) field strength of the station being considered (e.g., where the protected field strength is 60 dBu, the interfering field strength must be 40 dBu or more for predicted interference to exist).

(ii) First-adjacent channel interference is predicted to exist, for the purpose of this section, at all locations where the undesired (interfering station) F(50,10) field strength exceeds a value 6 dB below the desired (service) F(50,50) field strength of the station being considered (e.g., where the protected field strength is 60 dBu, the interfering field strength must be 54 dBu or more for predicted interference to exist).

(2) For co-channel and first-adjacent channel stations, a showing that the public interest would be served by the changes proposed in an application must include exhibits demonstrating that the total area and population subject to co-channel or first-adjacent channel interference, caused and received, would be maintained or decreased. In addition, the showing must include exhibits demonstrating that the area and the population subject to co-channel or first-adjacent channel interference caused by the proposed facility to each short-spaced station individually is not increased. In all cases, the applicant must also show that any area predicted to lose service as a result of new co-channel or first-adjacent-channel interference has adequate aural service remaining. For the purpose of this section, adequate service is defined as 5 or more aural services (AM or FM).

(3) For co-channel and first-adjacent-channel stations, a copy of any application proposing interference caused in any areas where interference is not currently caused must be served upon the licensee(s) of the affected short-spaced station(s).

(4) For stations covered by this paragraph (a), there are no distance separation or interference protection requirements with respect to second-adjacent and third-adjacent channel short-spacings that have existed continuously since November 16, 1964.

(b) Stations at locations authorized prior to May 17, 1989, that did not meet the IF separation distances required by §73.207 and have remained short-spaced since that time may be modified or relocated provided that the overlap area of the two stations' 36 mV/m field strength contours is not increased.

(c) Short spacings involving at least one Class A allotment or authorization. Stations that became short spaced on or after November 16, 1964 (including stations that do not meet

the minimum distance separation requirements of paragraph (c)(1) of this section and that propose to maintain or increase their existing distance separations) may be modified or relocated in accordance with paragraph (c)(1) or (c)(2) of this section, except that this provision does not apply to stations that became short spaced by grant of applications filed after October 1, 1989, or filed pursuant to § 73.215. If the reference coordinates of an allotment are short spaced to an authorized facility or another allotment (as a result of the revision of § 73.207 in the Second Report and Order in MM Docket No. 88–375), an application for the allotment may be authorized, and subsequently modified after grant, in accordance with paragraph (c)(1) or (c)(2) of this section only with respect to such short spacing. No other stations will be authorized pursuant to these paragraphs.

(1) *Applications for authorization under requirements equivalent to those of prior rules.* Each application for authority to operate a Class A station with no more than 3000 watts ERP and 100 meters antenna HAAT (or equivalent lower ERP and higher antenna HAAT based on a class contour distance of 24 km) must specify a transmitter site that meets the minimum distance separation requirements in this paragraph. Each application for authority to operate a Class A station with more than 3000 watts ERP (up to a maximum of 5800 watts), but with an antenna HAAT lower than 100 meters such that the distance to the predicted 0.05 mV/m (34 dBμ V/m) F(50,10) field strength contour does not exceed 98 km must specify a transmitter site that meets the minimum distance separation requirements in this paragraph. Each application for authority to operate an FM station of any class other than Class A must specify a transmitter site that meets the minimum distance separation requirements in this paragraph with respect to Class A stations operating pursuant to this paragraph or paragraph (c)(2) of this section, and that meets the minimum distance separation requirements of § 73.207 with respect to all other stations.

MINIMUM DISTANCE SEPARATION REQUIREMENTS IN KILOMETERS (MILES)

Relation	Co-channel	200 kHz	400/600 kHz	10.6/10.8 MHz
A to A	105 (65)	64 (40)	27 (17)	8 (5)
A to B1	138 (86)	88 (55)	48 (30)	11 (6)
A to B	163 (101)	105 (65)	69 (43)	14 (9)
A to C3	138 (86)	84 (52)	42 (26)	11 (6)
A to C2	163 (101)	105 (65)	55 (34)	14 (9)
A to C1	196 (122)	129 (80)	74 (46)	21 (13)
A to C	222 (138)	161 (100)	94 (58)	28 (17)

(2) Applications for authorization of Class A facilities greater than 3,000 watts ERP and 100 meters HAAT. Each application to operate a Class A station with an ERP and HAAT such that the reference distance would exceed 24 kilometers must contain an exhibit demonstrating the consent of the licensee of each co-channel, first, second or third adjacent channel station (for which the requirements of § 73.207 are not met) to a grant of that application. Each such application must specify a transmitter site that meets the applicable IF-related channel distance separation requirements of § 73.207. Applications that specify a new transmitter site which is short-spaced to an FM station other than another Class A station which is seeking a mutual increase in facilities may be granted only if no alternative fully-spaced site or less short-spaced site is available. Licensees of Class A stations seeking mutual increases in facilities need not show that a fully spaced site or less short-spaced site is available. Applications submitted pursuant to the provisions of this paragraph may be granted only if such action is consistent with the public interest.

[52 FR 37789, Oct. 9, 1987, as amended at 54 FR 14964, Apr. 14, 1989; 54 FR 35339, Aug. 25, 1989; 56 FR 27426, June 14, 1991; 62 FR 50521, Sept. 26, 1997]

EFFECTIVE DATE NOTE: At 62 FR 50521, Sept. 26, 1997, § 73.213 was amended by revising paragraph (a), effective Nov. 25, 1997. For

the convenience of the user, the superseded text is set forth as follows:

§73.213 Grandfathered short-spaced stations.

(a) Stations at locations authorized prior to November 16, 1964 that did not meet the separation distances required by §73.207 and have remained short-spaced since that time may be modified or relocated provided that the predicted distance to the 1 mV/m field strength contour is not extended toward the 1 mV/m field strength contour of any short-spaced station. Mutual increase in the facilities of such stations up to the limits set forth in §73.211 may be permitted pursuant to an agreement between the affected stations and a showing of public interest. *See* §73.4235.

* * * * *

§73.215 Contour protection for short-spaced assignments.

The Commission will accept applications that specify short-spaced antenna locations (locations that do not meet the domestic co-channel and adjacent channel minimum distance separation requirements of §73.207); Provided That, such applications propose contour protection, as defined in paragraph (a) of this section, with all short-spaced assignments, applications and allotments, and meet the other applicable requirements of this section. Each application to be processed pursuant to this section must specifically request such processing on its face, and must include the necessary exhibit to demonstrate that the requisite contour protection will be provided. Such applications may be granted when the Commission determines that such action would serve the public interest, convenience, and necessity.

(a) *Contour protection*. Contour protection, for the purpose of this section, means that on the same channel and on the first, second and third adjacent channels, the predicted interfering contours of the proposed station do not overlap the predicted protected contours of other short-spaced assignments, applications and allotments, and the predicted interfering contours of other short-spaced assignments, applications and allotments do not overlap the predicted protected contour of the proposed station.

(1) The protected contours, for the purpose of this section, are defined as follows. For all Class B and B1 stations on Channels 221 through 300 inclusive, the F(50,50) field strengths along the protected contours are 0.5 mV/m (54 dBμ) and 0.7 mV/m (57 dBμ), respectively. For all other stations, the F(50,50) field strength along the protected contour is 1.0 mV/m (60 dBμ).

(2) The interfering contours, for the purpose of this section, are defined as follows. For co-channel stations, the F(50,10) field strength along the interfering contour is 20 dB lower than the F(50,50) field strength along the protected contour for which overlap is prohibited. For first adjacent channel stations (±200 kHz), the F(50,10) field strength along the interfering contour is 6 dB lower than the F(50,50) field strength along the protected contour for which overlap is prohibited. For both second and third adjacent channel stations (±400 kHz and ±600 kHz), the F(50,10) field strength along the interfering contour is 40 dB higher than the F(50,50) field strength along the protected contour for which overlap is prohibited.

(3) The locations of the protected and interfering contours of the proposed station and the other short-spaced assignments, applications and allotments must be determined in accordance with the procedures of paragraphs (c), (d)(2) and (d)(3) of §73.313, using data for as many radials as necessary to accurately locate the contours.

(4) Stations in Puerto Rico and the Virgin Islands may submit application for short-spaced locations provided the predicted distance to their 1 mV/m field strength contour is not extended toward the 1 mV/m field strength contour of any short-spaced station.

(b) Applicants requesting short-spaced assignments pursuant to this section must take into account the following factors in demonstrating that contour protection is achieved:

(1) The ERP and antenna HAAT of the proposed station in the direction of the contours of other short-spaced assignments, applications and allotments. If a directional antenna is proposed, the pattern of that antenna must be used to calculate the ERP in particular directions. See §73.316 for

additional requirements for directional antennas.

(2) The ERP and antenna HAAT of other short-spaced assignments, applications and allotments in the direction of the contours of the proposed station. The ERP and antenna HAATs in the directions of concern must be determined as follows:

(i) For vacant allotments, contours are based on the presumed use, at the allotment's reference point, of the maximum ERP that could be authorized for the station class of the allotment, and antenna HAATs in the directions of concern that would result from a non-directional antenna mounted at a standard eight-radial antenna HAAT equal to the reference HAAT for the station class of the allotment.

(ii) For existing stations that were not authorized pursuant to this section, including stations with authorized ERP that exceeds the maximum ERP permitted by § 73.211 for the standard eight-radial antenna HAAT employed, and for applications not requesting authorization pursuant to this section, contours are based on the presumed use of the maximum ERP for the applicable station class (as specified in § 73.211), and the antenna HAATs in the directions of concern that would result from a non-directional antenna mounted at a standard eight-radial antenna HAAT equal to the reference HAAT for the applicable station class, without regard to any other restrictions that may apply (e.g. zoning laws, FAA constraints, application of § 73.213).

(iii) For stations authorized pursuant to this section, except stations with authorized ERP that exceeds the maximum ERP permitted by § 73.211 for the standard eight-radial antenna HAAT employed, contours are based on the use of the authorized ERP in the directions of concern, and HAATs in the directions of concern derived from the authorized standard eight-radial antenna HAAT. For stations with authorized ERP that exceeds the maximum ERP permitted by § 73.211 for the standard eight-radial antenna HAAT employed, authorized under this section, contours are based on the presumed use of the maximum ERP for the applicable station class (as specified in § 73.211), and antenna HAATs in the directions of concern that would result from a non-directional antenna mounted at a standard eight-radial antenna HAAT equal to the reference HAAT for the applicable station class, without regard to any other restrictions that may apply.

(iv) For applications containing a request for authorization pursuant to this section, except for applications to continue operation with authorized ERP that exceeds the maximum ERP permitted by § 73.211 for the standard eight-radial antenna HAAT employed, contours are based on the use of the proposed ERP in the directions of concern, and antenna HAATs in the directions of concern derived from the proposed standard eight-radial antenna HAAT. For applications to continue operation with an ERP that exceeds the maximum ERP permitted by § 73.211 for the standard eight-radial HAAT employed, if processing is requested under this section, contours are based on the presumed use of the maximum ERP for the applicable station class (as specified in § 73.211), and antenna HAATs in the directions of concern that would result from a non-directional antenna mounted at a standard eight-radial antenna HAAT equal to the reference HAAT for the applicable station class, without regard to any other restrictions that may apply.

NOTE TO PARAGRAPH (b): Applicants are cautioned that the antenna HAAT in any particular direction of concern will not usually be the same as the standard eight-radial antenna HAAT or the reference HAAT for the station class.

(c) Applications submitted for processing pursuant to this section are not required to propose contour protection of any assignment, application or allotment for which the minimum distance separation requirements of § 73.207 are met, and may, in the directions of those assignments, applications and allotments, employ the maximum ERP permitted by § 73.211 for the standard eight-radial antenna HAAT employed.

(d) Stations authorized pursuant to this section may be subsequently authorized on the basis of compliance with the domestic minimum separation distance requirements of § 73.207, upon

filing of an FCC Form 301 or FCC Form 340 (as appropriate) requesting a modification of authorization.

(e) The Commission will not accept applications that specify a short-spaced antenna location for which the following minimum distance separation requirements, in kilometers (miles), are not met:

Relation	Co-Channel	200 kHz	400/600 kHz
A to A	92(57)	49(30)	29(18)
A to B1	119(74)	72(45)	46(29)
A to B	143(89)	96(60)	67(42)
A to C3	119(74)	72(45)	40(25)
A to C2	143(89)	89(55)	53(33)
A to C1	178(111)	111(69)	73(45)
A to C	203(126)	142(88)	93(58)
B1 to B1	143(89)	96(60)	48(30)
B1 to B	178(111)	114(71)	69(43)
B1 to C3	143(89)	96(60)	48(30)
B1 to C2	175(109)	114(71)	55(34)
B1 to C1	200(124)	134(83)	75(47)
B1 to C	233(145)	165(103)	95(59)
B to B	211(131)	145(90)	71(44)
B to C3	178(111)	114(70)	69(43)
B to C2	211(131)	145(90)	71(44)
B to C1	241(150)	169(105)	77(48)
B to C	270(168)	195(121)	105(65)
C3 to C3	142(88)	89(55)	42(26)
C3 to C2	166(103)	106(66)	55(34)
C3 to C1	200(124)	133(83)	75(47)
C3 to C	226(140)	165(103)	95(59)
C2 to C2	177(110)	117(73)	56(35)
C2 to C1	211(131)	144(90)	76(47)
C2 to C	237(147)	176(109)	96(60)
C1 to C1	224(139)	158(98)	79(49)
C1 to C	249(155)	188(117)	105(65)
C to C	270(168)	209(130)	105(65)

[54 FR 9802, Mar. 8, 1989, as amended at 54 FR 35340, Aug. 25, 1989; 56 FR 57294, Nov. 8, 1991; 57 FR 46325, Oct. 8, 1992]

§ 73.220 Restrictions on use of channels.

(a) The frequency 89.1 MHz (channel 206) is revised in the New York City metropolitan area for the use of the United Nations with the equivalent of an antenna height of 150 meters (492 feet) above average terrain and effective radiated power of 20 kWs, and the FCC will make no assignments which would cause objectionable interference with such use.

(b) In Alaska, FM broadcast stations operating on Channels 221–300 (92.1–107.9 MHz) shall not cause harmful interference to and must accept interference from non-Government fixed operations authorized prior to January 1, 1982.

[43 FR 45845, Oct. 4, 1978, as amended at 46 FR 50376, Oct. 13, 1981, 47 FR 30068, July 12, 1982; 48 FR 29507, June 27, 1983]

§ 73.232 Territorial exclusivity.

No licensee of an FM broadcast station shall have any arrangement with a network organization which prevents or hinders another station serving substantially the same area from broadcasting the network's programs not taken by the former station, or which prevents or hinders another station serving a substantially different area from broadcasting any program of the network organization: *Provided, however,* That this section does not prohibit arrangements under which the station is granted first call within its primary service area upon the network's programs. The term ''network organization'' means any organization originating program material, with or without commercial messages, and furnishing the same to stations interconnected so as to permit simultaneous broadcast by all or some of them. However, arrangements involving only stations under common ownership, or only the rebroadcast by one station of programming from another with no compensation other than a lump-sum payment by the station rebroadcasting, are not considered arrangements with a network organization. The term ''arrangement'' means any contract, arrangement or understanding, express or implied.

[42 FR 16422, Mar. 28, 1977, as amended at 57 FR 48333, Oct. 23, 1992]

§ 73.239 Use of common antenna site.

No FM broadcast station license or renewal of FM broadcast station license will be granted to any person who owns, leases, or controls a particular site which is peculiarly suitable for FM broadcasting in a particular area and (a) which is not available for use by other FM broadcast station licensees; and (b) no other comparable site is available in the area; and (c) where the exclusive use of such site by the applicant or licensee would unduly limit the number of FM broadcast stations that can be authorized in a particular area

or would unduly restrict competition among FM broadcast stations.

[28 FR 13623, Dec. 14, 1963]

§ 73.258 Indicating instruments.

(a) Each FM broadcast station shall be equipped with indicating instruments which conform with the specifications described in § 73.1215 for determining power by the indirect method; for indicating the relative amplitude of the transmission line radio frequency current, voltage, or power; and with such other instruments as are necessary for the proper adjustment, operation, and maintenance of the transmitting system.

(b) The function of each instrument shall be clearly and permanently shown in the instrument itself or on the panel immediately adjacent thereto.

(c) In the event that any one of these indicating instruments becomes defective when no substitute which conforms with the required specifications is available, the station may be operated without the defective instrument pending its repair or replacement for a period not in excess of 60 days without further authority of the FCC: *Provided that*, if the defective instrument is the transmission line meter of a station which determines the output power by the direct method, the operating power shall be determined by the indirect method in accordance with § 73.267(c) during the entire time the station is operated without the transmission line meter.

(d) If conditions beyond the control of the licensee prevent the restoration of the meter to service within the above allowed period, informal request in accordance with § 73.3549 may be filed with the Engineer in Charge of the radio district in which the station is located for such additional time as may be required to complete repairs of the defective instrument.

[41 FR 36818, Sept. 1, 1976, as amended at 48 FR 44805, Sept. 30, 1983; 50 FR 32416, Aug. 12, 1985]

§ 73.267 Determining operating power.

(a) The operating power of each FM station is to be determined by either the direct or indirect method.

(b) Direct method. The direct method of power determination for an FM station uses the indications of a calibrated transmission line meter (responsive to relative voltage, current, or power) located at the RF output terminals of the transmitter. This meter must be calibrated whenever there is any indication that the calibration is inaccurate or whenever any component of the metering circuit is repaired or replaced. The calibration must cover, as a minimum, the range from 90% to 105% of authorized power. The meter calibration may be checked by measuring the power at the transmitter terminals while either:

(1) Operating the transmitter into the transmitting antenna, and determining actual operating power by the indirect method described in § 73.267(c); or

(2) Operating the transmitter into a load (of substantially zero reactance and a resistance equal to the transmission line characteristic impedance) and using an electrical device (within ±5% accuracy) or temperature and coolant flow indicator (within ±4% accuracy) to determine the power.

(3) The calibration must cover, as a minimum, the range from 90% to 105% of authorized power and the meter must provide clear indications which will permit maintaining the operating power within the prescribed tolerance or the meter shall be calibrated to read directly in power units.

(c) *Indirect method.* The operating power is determined by the indirect method by applying an appropriate factor to the input power to the last radio-frequency power amplifier stage of the transmitter, using the following formula:

$$\text{Transmitter output power} = Ep \times Ip \times F$$

Where:

Ep=DC input voltage of final radio stage.

Ip=Total DC input current of final radio stage.

F=Efficiency factor.

(1) If the above formula is not appropriate for the design of the transmitter final amplifier, use a formula specified by the transmitter manufacturer with other appropriate operating parameters.

(2) The value of the efficiency factor, *F*, established for the authorized transmitter output power is to be used for maintaining the operating power, even though there may be some variation in *F* over the power operating range of the transmitter.

(3) The value of *F* is to be determined and a record kept thereof by one of the following procedures listed in order of preference:

(i) Using the most recent measurement data for calibration of the transmission line meter according to the procedures described in paragraph (b) of this section or the most recent measurements made by the licensee establishing the value of *F*. In the case of composite transmitters or those in which the final amplifier stages have been modified pursuant to FCC approval, the licensee must furnish the FCC and also retain with the station records the measurement data used as a basis for determining the value of *F*.

(ii) Using measurement data shown on the transmitter manufacturer's test data supplied to the licensee; *Provided*, That measurements were made at the authorized frequency and transmitter output power.

(iii) Using the transmitter manufacturer's measurement data submitted to the FCC for type acceptance and as shown in the instruction book supplied to the licensee.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[44 FR 58731, Oct. 11, 1979, as amended at 45 FR 28141, Apr. 28, 1980; 48 FR 38479, Aug. 24, 1983; 49 FR 4210, Feb. 3, 1984; 49 FR 49851, Dec. 24, 1984]

§ 73.277 Permissible transmissions.

(a) No FM broadcast licensee or permittee shall enter into any agreement, arrangement or understanding, oral or written, whereby it undertakes to supply, or receives consideration for supplying, on its main channel a functional music, background music, or other subscription service (including storecasting) for reception in the place or places of business of any subscriber.

(b) The transmission (or interruption) of radio energy in the FM broadcast band is permissible only pursuant to a station license, program test authority, construction permit, or experimental authorization and the provisions of this part of the rules.

[29 FR 7471, June 10, 1964. Redesignated at 39 FR 38655, Nov. 1, 1974 and amended at 48 FR 28454, June 22, 1983]

§ 73.293 Use of FM multiplex subcarriers.

Licensees of FM broadcast stations may transmit, without further authorization, subcarrier communication services in accordance with the provisions of §§ 73.319 and 73.322.

[51 FR 17028, May 8, 1986]

§ 73.295 FM subsidiary communications services.

(a) Subsidiary communication services are those transmitted on a subcarrier within the FM baseband signal, but do not include services which enhance the main program broadcast service, or exclusively relate to station operations (see § 73.293). Subsidiary communications include, but are not limited to services such as functional music, specialized foreign language programs, radio reading services, utility load management, market and financial data and news, paging and calling, traffic control signal switching, bilingual television audio, and point to point or multipoint messages.

(b) FM subsidiary communications services that are common carrier in nature are subject to common carrier regulation. Licensees operating such services are required to apply to the FCC for the appropriate authorization and to comply with all policies and rules applicable to the service. Responsibility for making the initial determinations of whether a particular activity is common carriage rests with the FM station licensee. Initial determinations by licensees are subject to FCC examination and may be reviewed at the FCC's discretion.

(c) Subsidiary communications services are of a secondary nature under the authority of the FM station authorization, and the authority to provide such communications services may not be retained or transferred in any manner separate from the station's authorization. The grant or renewal of an FM station permit or license is not furthered or promoted by proposed or past services. The permittee or licensee

must establish that the broadcast operation is in the public interest wholly apart from the subsidiary communications services provided.

(d) The station identification, delayed recording and sponsor identification announcements required by §§ 73.1201, 73.1208, and 73.1212 are not applicable to material transmitted under an SCA.

(e) The licensee or permittee must retain control over all material transmitted in a broadcast mode via the station's facilities, with the right to reject any material that it deems inappropriate or undesirable.

[48 FR 28454, June 22, 1983, as amended at 48 FR 44805, Sept. 30, 1983; 49 FR 33663, Aug. 15, 1984; 50 FR 32416, Aug. 12, 1985; 57 FR 48333, Oct. 23, 1992]

§ 73.297 FM stereophonic sound broadcasting.

(a) An FM broadcast station may, without specific authority from the FCC, transmit stereophonic (biphonic, quadraphonic, etc.) sound programs upon installation of stereophonic sound transmitting equipment under the provisions of §§ 2.1001, 73.322, and 73.1590 of the Rules. Prior to commencement of stereophonic sound broadcasting, equipment performance measurements must be made to ensure that the transmitted signal complies with all applicable rules and standards.

(b) Each licensee or permittee engaging in multichannel broadcasting must measure the pilot subcarrier frequency as often as necessary to ensure that it is kept at all times within 2 Hz of the authorized frequency.

[48 FR 28454, June 22, 1983, and 48 FR 38479, Aug. 24, 1983]

§ 73.310 FM technical definitions.

(a) *Frequency modulation.*

Antenna height above average terrain (HAAT). HAAT is calculated by: determining the average of the antenna heights above the terrain from 3 to 16 kilometers (2 to 10 miles) from the antenna for the eight directions evenly spaced for each 45° of azimuth starting with True North (a different antenna height will be determined in each direction from the antenna): and computing the average of these separate heights. In some cases less than eight directions may be used. (See § 73.313(d).) Where circular or elliptical polarization is used, the antenna height above average terrain must be based upon the height of the radiation of the antenna that transmits the horizontal component of radiation.

Antenna power gain. The square of the ratio of the root-mean-square (RMS) free space field strength produced at 1 kilometer in the horizontal plane in millivolts per meter for 1 kW antenna input power to 221.4 mV/m. This ratio is expressed in decibels (dB). If specified for a particular direction, antenna power gain is based on that field strength in the direction only.

Auxiliary facility. An auxiliary facility is an antenna separate from the main facility's antenna, permanently installed on the same tower or at a different location, from which a station may broadcast for short periods without prior Commission authorization or notice to the Commission while the main facility is not in operation (*e.g.,* where tower work necessitates turning off the main antenna or where lightning has caused damage to the main antenna or transmission system) (*See* § 73.1675).

Center frequency. The term ''center frequency'' means:

(1) The average frequency of the emitted wave when modulated by a sinusoidal signal.

(2) The frequency of the emitted wave without modulation.

Composite antenna pattern. The composite antenna pattern is a relative field horizontal plane pattern for 360 degrees of azimuth, for which the value at a particular azimuth is the greater of the horizontally polarized or vertically polarized component relative field values. The composite antenna pattern is normalized to a maximum of unity (1.000) relative field.

Composite baseband signal. A signal which is composed of all program and other communications signals that frequency modulates the FM carrier.

Effective radiated power. The term ''effective radiated power'' means the product of the antenna power (transmitter output power less transmission line loss) times: (1) The antenna power gain, or (2) the antenna field gain squared. Where circular or elliptical

polarization is employed, the term effective radiated power is applied separately to the horizontal and vertical components of radiation. For allocation purposes, the effective radiated power authorized is the horizontally polarized component of radiation only.

Equivalent isotropically radiated power (EIRP). The term ''equivalent isotropically radiated power (also known as ''effective radiated power above isotropic) means the product of the antenna input power and the antenna gain in a given direction relative to an isotropic antenna.

FM Blanketing. Blanketing is that form of interference to the reception of other broadcast stations which is caused by the presence of an FM broadcast signal of 115 dBu (562 mV/m) or greater signal strength in the area adjacent to the antenna of the transmitting station. The 115 dBu contour is referred to as the blanketing contour and the area within this contour is referred to as the blanketing area.

FM broadcast band. The band of frequencies extending from 88 to 108 MHz, which includes those assigned to noncommercial educational broadcasting.

FM broadcast channel. A band of frequencies 200 kHz wide and designated by its center frequency. Channels for FM broadcast stations begin at 88.1 MHz and continue in successive steps of 200 kHz to and including 107.9 MHz.

FM broadcast station. A station employing frequency modulation in the FM broadcast band and licensed primarily for the transmission of radiotelephone emissions intended to be received by the general public.

Field strength. The electric field strength in the horizontal plane.

Free space field strength. The field strength that would exist at a point in the absence of waves reflected from the earth or other reflecting objects.

Frequency departure. The amount of variation of a carrier frequency or center frequency from its assigned value.

Frequency deviation. The peak difference between modulated wave and the carrier frequency.

Frequency modulation. A system of modulation where the instantaneous radio frequency varies in proportion to the instantaneous amplitude of the modulating signal (amplitude of modulating signal to be measured after preemphasis, if used) and the instantaneous radio frequency is independent of the frequency of the modulating signal.

Frequency swing. The peak difference between the maximum and the minimum values of the instantaneous frequency of the carrier wave during modulation.

Multiplex transmission. The term ''multiplex transmission'' means the simultaneous transmission of two or more signals within a single channel. Multiplex transmission as applied to FM broadcast stations means the transmission of facsimile or other signals in addition to the regular broadcast signals.

Percentage modulation. The ratio of the actual frequency deviation to the frequency deviation defined as 100% modulation, expressed in percentage. For FM broadcast stations, a frequency deviation of ±75kHz is defined as 100% modulation.

(b) *Stereophonic sound broadcasting.*

Cross-talk. An undesired signal occurring in one channel caused by an electrical signal in another channel.

FM stereophonic broadcast. The transmission of a stereophonic program by a single FM broadcast station utilizing the main channel and a stereophonic subchannel.

Left (or right) signal. The electrical output of a microphone or combination of microphones placed so as to convey the intensity, time, and location of sounds originating predominately to the listener's left (or right) of the center of the performing area.

Left (or right) stereophonic channel. The left (or right) signal as electrically reproduced in reception of FM stereophonic broadcasts.

Main channel. The band of frequencies from 50 to 15,000 Hz which frequency-modulate the main carrier.

Pilot subcarrier. A subcarrier that serves as a control signal for use in the reception of FM stereophonic sound broadcasts.

Stereophonic separation. The ratio of the electrical signal caused in sound channel A to the signal caused in sound channel B by the transmission of only a channel B signal. Channels A and B

may be any two channels of a stereophonic sound broadcast transmission system.

Stereophonic sound. The audio information carried by plurality of channels arranged to afford the listener a sense of the spatial distribution of sound sources. Stereophonic sound broadcasting includes, but is not limited to, biphonic (two channel), triphonic (three channel) and quadrophonic (four channel) program services.

Stereophonic sound subcarrier. A subcarrier within the FM broadcast baseband used for transmitting signals for stereophonic sound reception of the main broadcast program service.

Stereophonic sound subchannel. The band of frequencies from 23 kHz to 99 kHz containing sound subcarriers and their associated sidebands.

(c) *Visual transmissions.* Communications or message transmitted on a subcarrier intended for reception and visual presentation on a viewing screen, teleprinter, facsimile printer, or other form of graphic display or record.

(d) *Control and telemetry transmissions.* Signals transmitted on a multiplex subcarrier intended for any form of control and switching functions or for equipment status data and aural or visual alarms.

[28 FR 13623, Dec. 14, 1963, as amended at 39 FR 10575, Mar. 21, 1974; 44 FR 36038, June 20, 1979; 48 FR 28454, June 22, 1983; 48 FR 29507, June 27, 1983; 48 FR 37216, Aug. 17, 1983; 49 FR 45145, Nov. 15, 1984; 57 FR 48333, Oct. 23, 1992; 62 FR 51058, Sept. 30, 1997]

EFFECTIVE DATE NOTE: At 62 FR 51058, Sept. 30, 1997, § 73.310 was amended by adding the definitions *Auxiliary facility* and *Composite antenna pattern*, effective Dec. 1, 1997.

§ 73.311 Field strength contours.

(a) Applications for FM broadcast authorizations must show the field strength contours required by FCC Form 301 or FCC Form 340, as appropriate.

(b) The field strength contours provided for in this section shall be considered for the following purposes only:

(1) In the estimation of coverage resulting from the selection of a particular transmitter site by an applicant for an FM broadcast station.

(2) In connection with problems of coverage arising out of application of § 73.3555.

(3) In determining compliance with § 73.315(a) concerning the minimum field strength to be provided over the principal community to be served.

(4) In determining compliance with § 73.215 concerning contour protection.

[28 FR 13623, Dec. 14, 1963, as amended at 31 FR 10126, July 27, 1966; 32 FR 11471, Aug. 9, 1967; 52 FR 10570, Apr. 2, 1987; 54 FR 9802, Mar. 8, 1989]

§ 73.312 Topographic data.

(a) In the preparation of the profile graphs previously described, and in determining the location and height above mean sea level of the antenna site, the elevation or contour intervals shall be taken from United States Geological Survey Topographic Quadrangle Maps, United States Army Corps of Engineers Maps or Tennessee Valley Authority maps, whichever is the latest, for all areas for which such maps are available. If such maps are not published for the area in question, the next best topographic information should be used. Topographic data may sometimes be obtained from state and municipal agencies. The data from the Sectional Aeronautical Charts (including bench marks) or railroad depot elevations and highway elevations from road maps may be used where no better information is available. In cases where limited topographic data can be obtained, use may be made of an altimeter in a car driven along roads extending generally radially from the transmitter site.

(b) The Commission will not ordinarily require the submission of typographical maps for areas beyond 24 km (15 miles) from the antenna site, but the maps must include the principal city or cities to be served. If it appears necessary additional data may be requested.

(c) The U.S. Geological Survey Topography Quadrangle Sheets may be obtained from the U.S. Geological Survey Department of the Interior, Washington, DC 20240. The Sectional Aeronautical Charts are available from the U.S. Coast and Geodetic Survey, Department of Commerce, Washington,

DC 20235. These maps may also be secured from branch offices and from authorized agents or dealers in most principal cities.

(d) In lieu of maps, the average terrain elevation may be computer generated except in cases of dispute, using elevations from a 30 second, point or better topographic data file. The file must be identified and the data processed for intermediate points along each radial using linear interpolation techniques. The height above mean sea level of the antenna site must be obtained manually using appropriate topographic maps.

[28 FR 13623, Dec. 14, 1963, as amended at 31 FR 10126, July 27, 1966; 49 FR 48937, Dec. 17, 1984; 58 FR 44950, Aug. 25, 1993]

§73.313 Prediction of coverage.

(a) All predictions of coverage made pursuant to this section shall be made without regard to interference and shall be made only on the basis of estimated field strengths.

(b) Predictions of coverage shall be made only for the same purposes as relate to the use of field strength contours as specified in §73.311.

(c) In predicting the distance to the field strength contours, the F(50,50) field strength chart, Figure 1 of §73.333 must be used. The 50% field strength is defined as that value exceeded for 50% of the time.

(1) The F(50,50) chart gives the estimated 50% field strengths exceeded at 50% of the locations in dB above 1 uV/m. The chart is based on an effective power radiated from a half-wave dipole antenna in free space, that produces an unattenuated field strength at 1 kilometer of about 107 dB above 1 uV/m (221.4 mV/m).

(2) To use the chart for other ERP values, convert the ordinate scale by the appropriate adjustment in dB. For example, the ordinate scale for an ERP of 50 kW (17 dBk) should be adjusted by 17 dB and, therefore, a field strength of 40 dBu would be converted to 57 dBu. When predicting the distance to field strength contours, use the maximum ERP of the main radiated lobe in the pertinent azimuthal direction. When predicting field strengths over areas not in the plane of the maximum main lobe, use the ERP in the direction of such areas, determined by considering the appropriate vertical radiation pattern.

(d) The antenna height to be used with this chart is the height of the radiation center of the antenna above the average terrain along the radial in question. In determining the average elevation of the terrain, the elevations between 3 and 16 kilometers from the antenna site are used.

(1) Profile graphs must be drawn for eight radials beginning at the antenna site and extending 16 kilometers therefrom. The radials should be drawn for each 45° of azimuth starting with True North. At least one radial must include the principal community to be served even though it may be more than 16 kilometers from the antenna site. However, in the event none of the evenly spaced radials include the principal community to be served, and one or more such radials are drawn in addition, these radials must not be used in computing the antenna height above average terrain.

(2) Where the 3 to 16 kilometers portion of a radial extends in whole or in part over a large body of water or extends over foreign territory but the 50 uV/m contour encompasses land area within the United States beyond the 16 kilometers portion of the radial, the entire 3 to 16 kilometers portion of the radial must be included in the computation of antenna height above average terrain. However, where the 50 uV/m contour does not so encompass United States land area and (i) the entire 3 to 16 kilometers portion of the radial extends over large bodies of water or foreign territory, such radial must be completely omitted from the computation of antenna height above average terrain, and (ii) where a part of the 3 to 16 kilometers portion of a radial extends over large bodies of water or foreign territory, only that part of the radial extending from the 3 kilometers sector to the outermost portion of land area within the United States covered by the radial must be used in the computation of antenna height above average terrain.

(3) The profile graph for each radial should be plotted by contour intervals of from 12 to 30 meters and, where the

data permits, at least 50 points of elevation (generally uniformly spaced) should be used for each radial. In instances of very rugged terrain where the use of contour intervals of 30 meters would result in several points in a short distance, 60 or 120 meter contour intervals may be used for such distances. On the other hand, where the terrain is uniform or gently sloping the smallest contour interval indicated on the topographic map should be used, although only relatively few points may be available. The profile graph should indicate the topography accurately for each radial, and the graphs should be plotted with the distance in kilometers as the abscissa and the elevation in meters above mean sea level as the ordinate. The profile graphs should indicate the source of the topographical data used. The graph should also show the elevation of the center of the radiating system. The graph may be plotted either on rectangular coordinate paper or on special paper that shows the curvature of the earth. It is not necessary to take the curvature of the earth into consideration in this procedure as this factor is taken care of in the charts showing signal strengths. The average elevation of the 13 kilometer distance between 3 and 16 kilometers from the antenna site should then be determined from the profile graph for each radial. This may be obtained by averaging a large number of equally spaced points, by using a planimeter, or by obtaining the median elevation (that exceeded for 50% of the distance) in sectors and averaging those values.

(4) Examples of HAAT calculations:

(i) The heights above average terrain on the eight radials are as follows:

	Meters
0°	120
45°	255
90°	185
135°	90
180°	−10
225°	−85
270°	40
315°	85

The antenna height above terrain (defined in § 73.310(a)) is computed as follows:

(120+255+185+90−10−85+40+85)/8=85 meters.

(ii) Same as paragraph (d)(4)(i) of this section, except the 0° radial is entirely over sea water. The antenna height above average terrain is computed as follows (note that the divisor is 7 not 8):

(255+185+90−10−85+40+85)/7=80 meters.

(iii) Same as paragraph (d)(4)(i) of this section, except that only the first 10 kilometers of the 90° radial are in the United States; beyond 10 kilometers the 90° radial is in a foreign country. The height above average terrain of the 3 to 10 kilometer portion of the 90° radial is 105 meters. The antenna height above average terrain is computed as follows (note that the divisor is 8 not 7.5):

(120+255+105+90−10−85+40+85)/8=75 meters.

(e) In cases where the terrain in one or more directions from the antenna site departs widely from the average elevation of the 3 to 16 kilometer sector, the prediction method may indicate contour distances that are different from what may be expected in practice. For example, a mountain ridge may indicate the practical limit of service although the prediction method may indicate otherwise. In such cases, the prediction method should be followed, but a supplemental showing may be made concerning the contour distances as determined by other means. Such supplemental showings should describe the procedure used and should include sample calculations. Maps of predicted coverage should include both the coverage as predicted by the regular method and as predicted by a supplemental method. When measurements of area are required, these should include the area obtained by the regular prediction method and the area obtained by the supplemental method. In directions where the terrain is such that antenna heights less than 30 meters for the 3 to 16 kilometer sector are obtained, an assumed height of 30 meters must be used for the prediction of coverage. However, where the actual contour distances are critical factors, a supplemental showing of expected coverage must be included together with a description of the method used in predicting such coverage. In special cases, the

FCC may require additional information as to terrain and coverage.

(f) The effect of terrain roughness on the predicted field strength of a signal at points distant from an FM transmitting antenna is assumed to depend on the magnitude of a terrain roughness factor (h) which, for a specific propagation path, is determined by the characteristics of a segment of the terrain profile for that path 40 kilometers in length located between 10 and 50 kilometers from the antenna. The terrain roughness factor has a value equal to the distance, in meters, between elevations exceeded by all points on the profile for 10% and 90% respectively, of the length of the profile segment. (See § 73.333, Figure 4.)

(g) If the lowest field strength value of interest is initially predicted to occur over a particular propagation path at a distance that is less than 50 kilometers from the antenna, the terrain profile segment used in the determination of terrain roughness factor over that path must be that included between points 10 kilometers from the transmitter and such lesser distances. No terrain roughness correction need be applied when all field strength values of interest are predicted to occur 10 kilometers or less from the transmitting antenna.

(h) Profile segments prepared for terrain roughness factor determinations are to be plotted in rectangular coordinates, with no less than 50 points evenly spaced within the segment using data obtained from topographic maps with contour intervals of approximately 15 meters (50 feet) or less if available.

(i) The field strength charts (§ 73.333, Figs. 1–1a) were developed assuming a terrain roughness factor of 50 meters, which is considered to be representative of average terrain in the United States. Where the roughness factor for a particular propagation path is found to depart appreciably from this value, a terrain roughness correction (ΔF) should be applied to field strength values along this path, as predicted with the use of these charts. The magnitude and sign of this correction, for any value of Δh, may be determined from a chart included in § 73.333 as Figure 5.

(j) Alternatively, the terrain roughness correction may be computed using the following formula:

$$\Delta F = 1.9 - 0.03(\Delta h)(1 + f/300)$$

Where:

ΔF=terrain roughness correction in dB
Δk=terrain roughness factor in meters
f=frequency of signal in MHz (MHz)

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[28 FR 13623, Dec. 14, 1963, as amended at 40 FR 27678, July 1, 1975; 48 FR 29507, June 27, 1983; 52 FR 11655, Apr. 10, 1987; 52 FR 37789, Oct. 9, 1987; 57 FR 48333, Oct. 23, 1992]

EFFECTIVE DATE NOTE: At 42 FR 25736, May 19, 1977, the effective date of § 73.313 paragraphs (i) and (j) was stayed indefinitely.

§ 73.314 Field strength measurements.

(a) Except as provided for in § 73.209, FM broadcast stations shall not be protected from any type of interference or propagation effect. Persons desiring to submit testimony, evidence or data to the Commission for the purpose of showing that the technical standards contained in this subpart do not properly reflect the levels of any given type of interference or propagation effect may do so only in appropriate rule making proceedings concerning the amendment of such technical standards. Persons making field strength measurements for formal submission to the Commission in rule making proceedings, or making such measurements upon the request of the Commission, shall follow the procedure for making and reporting such measurements outlined in paragraph (b) of this section. In instances where a showing of the measured level of a signal prevailing over a specific community is appropriate, the procedure for making and reporting field strength measurements for this purpose is set forth in paragraph (c) of this section.

(b) Collection of field strength data for propagation analysis.

(1) *Preparation for measurements.* (i) On large scale topographic maps, eight or more radials are drawn from the transmitter location to the maximum distance at which measurements are to be made, with the angles included between adjacent radials of approximately equal size. Radials should be

oriented so as to traverse representative types of terrain. The specific number of radials and their orientation should be such as to accomplish this objective.

(ii) Each radial is marked, at a point exactly 16 kilometers from the transmitter and, at greater distances, at successive 3 kilometer intervals. Where measurements are to be conducted over extremely rugged terrain, shorter intervals may be used, but all such intervals must be of equal length. Accessible roads intersecting each radial as nearly as possible at each 3 kilometer marker are selected. These intersections are the points on the radial at which measurements are to be made, and are referred to subsequently as measuring locations. The elevation of each measuring location should approach the elevation at the corresponding 3 kilometer marker as nearly as possible.

(2) *Measurement procedure.* All measurements must be made utilizing a receiving antenna designed for reception of the horizontally polarized signal component, elevated 9 meters above the roadbed. At each measuring location, the following procedure must be used:

(i) The instrument calibration is checked.

(ii) The antenna is elevated to a height of 9 meters.

(iii) The receiving antenna is rotated to determine if the strongest signal is arriving from the direction of the transmitter.

(iv) The antenna is oriented so that the sector of its response pattern over which maximum gain is realized is in the direction of the transmitter.

(v) A mobile run of at least 30 meters is made, that is centered on the intersection of the radial and the road, and the measured field strength is continuously recorded on a chart recorder over the length of the run.

(vi) The actual measuring location is marked exactly on the topographic map, and a written record, keyed to the specific location, is made of all factors which may affect the recorded field, such as topography, height and types of vegetation, buildings, obstacles, weather, and other local features.

(vii) If, during the test conducted as described in paragraph (b)(2)(iii) of this section, the strongest signal is found to come from a direction other than from the transmitter, after the mobile run prescribed in paragraph (b)(2)(v) of this section is concluded, additional measurements must be made in a ''cluster'' of at least five fixed points. At each such point, the field strengths with the antenna oriented toward the transmitter, and with the antenna oriented so as to receive the strongest field, are measured and recorded. Generally, all points should be within 60 meters of the center point of the mobile run.

(viii) If overhead obstacles preclude a mobile run of at least 30 meters, a ''cluster'' of five spot measurements may be made in lieu of this run. The first measurement in the cluster is identified. Generally, the locations for other measurements must be within 60 meters of the location of the first.

(3) *Method of reporting measurements.* A report of measurements to the Commission shall be submitted in affidavit form, in triplicate, and should contain the following information:

(i) Tables of field strength measurements, which, for each measuring location, set forth the following data:

(A) Distance from the transmitting antenna.

(B) Ground elevation at measuring location.

(C) Date, time of day, and weather.

(D) Median field in dBu for 0 dBk, for mobile run or for cluster, as well as maximum and minimum measured field strengths.

(E) Notes describing each measuring location.

(ii) U.S. Geological Survey topographic maps, on which is shown the exact location at which each measurement was made. The original plots shall be made on maps of the largest available scale. Copies may be reduced in size for convenient submission to the Commission, but not to the extent that important detail is lost. The original maps shall be made available, if requested. If a large number of maps is involved, an index map should be submitted.

(iii) All information necessary to determine the pertinent characteristics

of the transmitting installation, including frequency, geographical coordinates of antenna site, rated and actual power output of transmitter, measured transmission line loss, antenna power gain, height of antenna above ground, above mean sea level, and above average terrain. The effective radiated power should be computed, and horizontal and vertical plane patterns of the transmitting antenna should be submitted.

(iv) A list of calibrated equipment used in the field strength survey, which, for each instrument, specifies its manufacturer, type, serial number and rated accuracy, and the date of its most recent calibration by the manufacturer, or by a laboratory. Complete details of any instrument not of standard manufacture shall be submitted.

(v) A detailed description of the calibration of the measuring equipment, including field strength meters, measuring antenna, and connecting cable.

(vi) Terrain profiles in each direction in which measurements were made, drawn on curved earth paper for equivalent 4/3 earth radius, of the largest available scale.

(c) Collection of field strength data to determine FM broadcast service in specific communities.

(1) *Preparation for measurement.* (i) The population (P) of the community, and its suburbs, if any, is determined by reference to an appropriate source, e.g., the 1970 U.S. Census tables of population of cities and urbanized areas.

(ii) The number of locations at which measurements are to be made shall be at least 15, and shall be approximately equal to $0.1(P)^{1/2}$, if this product is a number greater than 15.

(iii) A rectangular grid, of such size and shape as to encompass the boundaries of the community is drawn on an accurate map of the community. The number of line intersections on the grid included within the boundaries of the community shall be at least equal to the required number of measuring locations. The position of each intersection on the community map determines the location at which a measurement shall be made.

(2) *Measurement procedure.* All measurements must be made using a receiving antenna designed for reception of the horizontally polarized signal component, elevated 9 meters above ground level.

(i) Each measuring location shall be chosen as close as feasible to a point indicated on the map, as previously prepared, and at as nearly the same elevation as that point as possible.

(ii) At each measuring location, after equipment calibration and elevation of the antenna, a check is made to determine whether the strongest signal arrives from a direction other than from the transmitter.

(iii) At 20 percent or more of the measuring locations, mobile runs, as described in paragraph (b)(2) of this section shall be made, with no less than three such mobile runs in any case. The points at which mobile measurements are made shall be well separated. Spot measurements may be made at other measuring points.

(iv) Each actual measuring location is marked exactly on the map of the community, and suitably keyed. A written record shall be maintained, describing, for each location, factors which may affect the recorded field, such as the approximate time of measurement, weather, topography, overhead wiring, heights and types of vegetation, buildings and other structures. The orientation, with respect to the measuring location shall be indicated of objects of such shape and size as to be capable of causing shadows or reflections. If the strongest signal received was found to arrive from a direction other than that of the transmitter, this fact shall be recorded.

(3) *Method of reporting measurements.* A report of measurements to the Commission shall be submitted in affidavit form, in triplicate, and should contain the following information:

(i) A map of the community showing each actual measuring location, specifically identifying the points at which mobile runs were made.

(ii) A table keyed to the above map, showing the field strength at each measuring point, reduced to dBu for the actual effective radiated power of the station. Weather, date, and time of each measurement shall be indicated.

(iii) Notes describing each measuring location.

(iv) A topographic map of the largest available scale on which are marked the community and the transmitter site of the station whose signals have been measured, which includes all areas on or near the direct path of signal propagation.

(v) Computations of the mean and standard deviation of all measured field strengths, or a graph on which the distribution of measured field strength values is plotted.

(vi) A list of calibrated equipment used for the measurements, which for each instrument, specifies its manufacturer, type, serial number and rated accuracy, and the date of its most recent calibration by the manufacturer, or by a laboratory. Complete details of any instrument not of standard manufacture shall be submitted.

(vii) A detailed description of the procedure employed in the calibration of the measuring equipment, including field strength meters, measuring antenna, and connecting cable.

[40 FR 27682, July 1, 1975; 40 FR 28802, July 9, 1975, as amended at 48 FR 29508, June 27, 1983]

§ 73.315 FM transmitter location.

(a) The transmitter location shall be chosen so that, on the basis of the effective radiated power and antenna height above average terrain employed, a minimum field strength of 70 dB above one uV/m (dBu), or 3.16 mV/m, will be provided over the entire principal community to be served.

NOTE: The requirements of paragraph (a) of this section do not apply to noncommercial educational FM broadcast stations operating on reserved channels. (Channels 200 through 220)

(b) The transmitter location should be chosen to maximize coverage to the city of license while minimizing interference. This is normally accomplished by locating in the least populated area available while maintaining the provisions of paragraph (a) of this section. In general, the transmitting antenna of a station should be located in the most sparsely populated area available at the highest elevation available. The location of the antenna should be so chosen that line-of-sight can be obtained from the antenna over the principle city or cities to be served; in no event should there be a major obstruction in this path.

(c) The transmitting location should be selected so that the 1 mV/m contour encompasses the urban population within the area to be served. It is recognized that topography, shape of the desired service area, and population distribution may make the choice of a transmitter location difficult. In such cases consideration may be given to the use of a directional antenna system, although it is generally preferable to choose a site where a nondirectional antenna may be employed.

(d) In cases of questionable antenna locations it is desirable to conduct propagation tests to indicate the field strength expected in the principal city or cities to be served and in other areas, particularly where severe shadow problems may be expected. In considering applications proposing the use of such locations, the Commission may require site tests to be made. Such tests should include measurements made in accordance with the measurement procedures described in § 73.314, and full data thereon shall be supplied to the Commission. The test transmitter should employ an antenna having a height as close as possible to the proposed antenna height, using a balloon or other support if necessary and feasible. Information concerning the authorization of site tests may be obtained from the Commission upon request.

(e) Cognizance must of course be taken regarding the possible hazard of the proposed antenna structure to aviation and the proximity of the proposed site to airports and airways. Procedures and standards with respect to the Commission's consideration of proposed antenna structures which will serve as a guide to persons intending to apply for radio station licenses are contained in Part 17 of this chapter (Construction, Marking, and Lighting of Antenna Structures).

[28 FR 13623, Dec. 14, 1963, as amended at 41 FR 22943, June 8, 1976; 49 FR 38131, Sept. 27, 1984; 49 FR 45146, Nov. 15, 1984; 51 FR 9965, Mar. 24, 1986; 52 FR 10570, Apr. 2, 1987]

§73.316 FM antenna systems.

(a) It shall be standard to employ horizontal polarization; however, circular or elliptical polarization may be employed if desired. Clockwise or counterclockwise rotation may be used. The supplemental vertically polarized effective radiated power required for circular or elliptical polarization shall in no event exceed the effective radiated power authorized.

(b) *Directional antennas.* A directional antenna is an antenna that is designed or altered for the purpose of obtaining a non-circular radiation pattern.

(1) Applications for the use of directional antennas that propose a ratio of maximum to minimum radiation in the horizontal plane of more than 15 dB will not be accepted.

(2) Directional antennas used to protect short-spaced stations pursuant to §73.213 or §73.215 of the rules, that have a radiation pattern which varies more than 2 dB per 10 degrees of azimuth will not be authorized.

(c) *Applications for directional antennas.* Applications proposing the use of directional antenna systems must be accompanied by the following:

(1) A complete description of the proposed antenna system, including the manufacturer and model number of the proposed directional antenna. It is not sufficient to label the antenna with only a generic term such as ''dipole''. A specific model number must be provided. In the case of individually designed antennas with no model number, or in the case of a composite antenna composed of two or more individual antennas, the antenna must be described as a ''custom'' or ''composite'' antenna, as appropriate. A full description of the design of the antenna must also be submitted.

(2) A relative field horizontal plane pattern of the proposed directional antenna. A single pattern encompassing both the horizontal and vertical polarization is required, rather than separate patterns for horizontal and vertical polarization. A value of 1.0 must be used to correspond to the direction of maximum radiation. The plot of the pattern must be oriented such that 0° corresponds to the direction of maximum radiation or alternatively, in the case of an asymmetrical antenna pattern, the plot must be oriented such that 0° corresponds to the actual azimuth with respect to true North. The horizontal plane pattern must be plotted to the largest scale possible on unglazed letter-size polar coordinate paper (main engraving approximately 18 cm x 25 cm (7 inches x 10 inches)) using only scale divisions and subdivisions of 1, 2, 2.5, or 5 times 10-nth. Values of field strength less than 10% of the maximum field strength plotted on that pattern must be shown on an enlarged scale. In the case of a composite antenna composed of two or more individual antennas, the pattern required is that for the composite antenna, not the patterns for each of the individual antennas.

(3) A tabulation of the relative field pattern required in paragraph (c)(2) of this section. The tabulation must use the same zero degree reference as the plotted pattern, and must contain values for at least every 10°. In addition, tabulated values of all maximas and minimas, with their corresponding azimuths, must be submitted.

(4) Sufficient vertical patterns to indicate clearly the radiation characteristics of the antenna above and below the horizontal plane. Complete information and patterns must be provided for angles of ±10° from the horizontal plane and sufficient additional information must be included on that portion of the pattern lying between +10° and the zenith and −10° and the nadir, to conclusively demonstrate the absence of undesirable lobes in these areas. The vertical plane pattern must be plotted on rectangular coordinate paper with reference to the horizontal plane. In the case of a composite antenna composed of two or more individual antennas, the pattern required is that for the composite antenna, not the patterns for each of the individual antennas.

(5) A statement that the antenna will be mounted on the top of an antenna tower recommended by the antenna manufacturer, or will be side-mounted on a particular type of antenna tower in accordance with specific instructions provided by the antenna manufacturer.

(6) A statement that the directional antennas will not be mounted on the

top of an antenna tower which includes a top-mounted platform larger than the nominal cross-sectional area of the tower in the horizontal plane.

(7) A statement that no other antennas of any type are mounted on the same tower level as a directional antenna, and that no antenna of any type is mounted within any horizontal or vertical distance specified by the antenna manufacturer as being necessary for proper directional operation.

(8) In the case of applications for license upon completion of antenna construction, a statement from an engineer (as well as a statement of the engineer's qualifications) that the antenna has been installed pursuant to the manufacturer's instructions and a statement from a licensed surveyor that the antenna is installed in the proper orientation.

(9) In the case of an application for license upon completion of antenna construction for a station authorized pursuant to § 73.215 or § 73.509, a showing that the root mean square (RMS) of the measured composite antenna pattern (encompassing both the horizontally and vertically polarized radiation components (in relative field)) is at least 85 percent of the RMS of the authorized composite directional antenna pattern (in relative field). The RMS values, for a composite antenna pattern specified in relative field values, may be determined from the following formula:

RMS = the square root of:

$$\frac{[(\text{relative field value 1})^2 + (\text{relative field value 2})^2 + \cdots + (\text{last relative field value})^2]}{\text{number of relative field values summed}}$$

where the relative field values are taken from at least 36 evenly spaced radials for the entire 360 degrees of azimuth. The application for license must also demonstrate that coverage of the community of license by the 70 dBu contour is maintained for stations authorized pursuant to § 73.215 on Channels 221 through 300, as required by § 73.315(a), while noncommercial educational stations operating on Channels 201 through 220 must show that the 60 dBu contour covers at least a portion of the community of license.

(d) Applications proposing the use of FM transmitting antennas in the immediate vicinity (*i.e.* 60 meters or less) of other FM or TV broadcast antennas must include a showing as to the expected effect, if any, of such approximate operation.

(e) Where an FM licensee or permittee proposes to mount its antenna on an AM antenna tower, or locate within 3.2 km of an AM antenna tower, the FM licensee or permittee must comply with § 73.1692.

(f) When an FM broadcast antenna is mounted on a nondirectional AM broadcast antenna, new resistance measurements must be made of the AM broadcast antenna after installation and testing of the FM broadcast antenna. During the installation and until the new resistance determination is approved, the AM broadcast station licensee should operate by the indirect method of power determination. The FM broadcast license application will not be considered until the application form concerning resistance measurements is filed for the AM broadcast station.

(g) When an FM broadcast antenna is mounted on an element of a AM broadcast directional antenna, a full engineering study concerning the effect of the FM broadcast antenna on the directional pattern must be filed with the application concerning the AM broadcast station. Depending upon the individual case, the Commission may require readjustment and certain field strength measurements of the AM broadcast station following the completion of the FM broadcast antenna system.

(h) When the proposed FM antenna is to be mounted on a tower in the vicinity of an AM station directional antenna system and it appears that the operation of the directional antenna system may be affected, an engineering study must be filed with the FM application concerning the effect of the FM antenna on the AM directional radiation pattern. Field strength measurements of the AM station may be required prior to and following construction of the FM station antenna, and readjustments made as necessary.

(i) Information regarding data required in connection with AM broadcast directional antenna systems may be found in § 73.150 of this chapter. (See

also AM Broadcast Technical Standards.)

[28 FR 13623, Dec. 14, 1963, as amended at 34 FR 14222, Sept. 10, 1969; 37 FR 25841, Dec. 5, 1972; 43 FR 53738, Nov. 17, 1978; 48 FR 29508, June 27, 1983; 51 FR 17028, May 8, 1986; 54 FR 9804, Mar. 8, 1989; 56 FR 57294, Nov. 8, 1991; 58 FR 44950, Aug. 25, 1993; 62 FR 51058, Sept. 30, 1997]

EFFECTIVE DATE NOTE: At 62 FR 51058, Sept. 30, 1997, §73.316 was amended by adding paragraph (c)(9); by revising paragraph (e); and by removing paragraphs (f) through (i), effective Dec. 1, 1997. For the convenience of the user, the superseded text is set forth as follows:

§73.316 FM antenna systems.

* * * * *

(e) In cases where it is proposed to use a tower of a AM broadcast station as a supporting structure for an FM broadcast antenna, an application for construction permit (or modification of construction permit) for such AM broadcast station must be filed for consideration with the FM application, only in the event the overall height of the AM broadcast station tower changes. Applications may be required for other classes of stations when their towers are to be used in connection with FM stations.

* * * * *

§73.317 FM transmission system requirements.

(a) FM broadcast stations employing transmitters authorized after January 1, 1960, must maintain the bandwidth occupied by their emissions in accordance with the specification detailed below. FM broadcast stations employing transmitters installed or type accepted before January 1, 1960, must achieve the highest degree of compliance with these specifications practicable with their existing equipment. In either case, should harmful interference to other authorized stations occur, the licensee shall correct the problem promptly or cease operation.

(b) Any emission appearing on a frequency removed from the carrier by between 120 kHz and 240 kHz inclusive must be attenuated at least 25 dB below the level of the unmodulated carrier. Compliance with this requirement will be deemed to show the occupied bandwidth to be 240 kHz or less.

(c) Any emission appearing on a frequency removed from the carrier by more than 240 kHz and up to and including 600 kHz must be attenuated at least 35 dB below the level of the unmodulated carrier.

(d) Any emission appearing on a frequency removed from the carrier by more than 600 kHz must be attenuated at least 43 + 10 Log_{10} (Power, in watts) dB below the level of the unmodulated carrier, or 80 dB, whichever is the lesser attenuation.

(e) Preemphasis shall not be greater than the impedance-frequency characteristics of a series inductance resistance network having a time constant of 75 microseconds. (See upper curve of Figure 2 of §73.333.)

[51 FR 17028, May 8, 1986]

§73.318 FM blanketing interference.

Areas adjacent to the transmitting antenna that receive a signal with a strength of 115 dBu (562 mV/m) or greater will be assumed to be blanketed. In determining the blanketed area, the 115 dBu contour is determined by calculating the inverse distance field using the effective radiated power of the maximum radiated lobe of the antenna without considering its vertical radiation pattern or height. For directional antennas, the effective radiated power in the pertinent bearing shall be used.

(a) The distance to the 115 dBu contour is determined using the following equation:

$$D \text{ (in kilometers)} = 0.394\sqrt{P}$$
$$D \text{ (in miles)} = 0.245\sqrt{P}$$

Where P is the maximum effective radiated power (ERP), measured in kilowatts, of the maximum radiated lobe.

(b) After January 1, 1985, permittees or licensees who either (1) commence program tests, or (2) replace their antennas, or (3) request facilities modifications and are issued a new construction permit must satisfy all complaints of blanketing interference which are received by the station during a one year period. The period begins with the commencement of program tests, or commencement of programming utilizing the new antenna. Resolution of complaints shall be at no

cost to the complainant. These requirements specifically do not include interference complaints resulting from malfunctioning or mistuned receivers, improperly installed antenna systems, or the use of high gain antennas or antenna booster amplifiers. Mobile receivers and non-RF devices such as tape recorders or hi-fi amplifiers (phonographs) are also excluded.

(c) A permittee collocating with one or more existing stations and beginning program tests on or after January 1, 1985, must assume full financial responsibility for remedying new complaints of blanketing interference for a period of one year. Two or more permittees that concurrently collocate on or after January 1, 1985, shall assume shared responsibility for remedying blanketing complaints within the blanketing area unless an offending station can be readily determined and then that station shall assume full financial responsibility.

(d) Following the one year period of full financial obligation to satisfy blanketing complaints, licensees shall provide technical information or assistance to complainants on remedies for blanketing interference.

[28 FR 13623, Dec. 14, 1963, as amended at 52 FR 25866, July 9, 1987]

§ 73.319 FM multiplex subcarrier technical standards.

(a) The technical specifications in this Section apply to all transmissions of FM multiplex subcarriers except those used for stereophonic sound broadcasts under the provisions of § 73.322.

(b) *Modulation.* Any form of modulation may be used for subcarrier operation.

(c) *Subcarrier baseband.* (1) During monophonic program transmissions, multiplex subcarriers and their significant sidebands must be within the range of 20 kHz to 99 kHz.

(2) During stereophonic sound program transmissions (see § 73.322), multiplex subcarriers and their significant sidebands must be within the range of 53 kHz to 99 kHz.

(3) During periods when broadcast programs are not being transmitted, multiplex subcarriers and their significant sidebands must be within the range of 20 kHz to 99 kHz.

(d) *Subcarrier injection.*

(1) During monophonic program transmissions, modulation of the carrier by the arithmetic sum of all subcarriers may not exceed 30% referenced to 75 kHz modulation deviation. However, the modulation of the carrier by the arithmetic sum of all subcarriers above 75 kHz may not modulate the carrier by more than 10%.

(2) During stereophonic program transmissions, modulation of the carrier by the arithmetic sum of all subcarriers may not exceed 20% referenced to 75 kHz modulation deviation. However, the modulation of the carrier by the arithmetic sum of all subcarriers above 75 kHz may not modulate the carrier by more than 10%.

(3) During periods when no broadcast program service is transmitted, modulation of the carrier by the arithmetic sum of all subcarriers may not exceed 30% referenced to 75 kHz modulation deviation. However, the modulation of the carrier by the arithmetic sum of all subcarriers above 75 kHz may not modulate the carrier by more than 10%.

(4) Total modulation of the carrier wave during transmission of multiplex subcarriers used for subsidiary communications services must comply with the provisions § 73.1570(b).

(e) Subcarrier generators may be installed and used with a type accepted FM broadcast transmitter without specific authorization from the FCC provided the generator can be connected to the transmitter without requiring any mechanical or electrical modifications in the transmitter FM exciter circuits.

(f) Stations installing multiplex subcarrier transmitting equipment must ensure the proper suppression of spurious or harmonic radiations. See §§ 73.317, 73.1590 and 73.1690. If the subcarrier operation causes the station's transmissions not to comply with the technical provisions for FM broadcast stations or causes harmful interference to other communication services, the licensee or permittee must correct the problem promptly or cease operation. The licensee may be required to verify the corrective measures with supporting data. Such data must be retained

at the station and be made available to the FCC upon request.

[48 FR 28455, June 22, 1983, as amended at 48 FR 37216, Aug. 17, 1983; 49 FR 15080, Apr. 17, 1984; 49 FR 38131, Sept. 27, 1984; 50 FR 1534, Jan. 11, 1985; 51 FR 17029, May 8, 1986; 57 FR 48333, Oct. 23, 1992]

§ 73.322 FM stereophonic sound transmission standards.

(a) An FM broadcast station shall not use 19 kHz ±20 Hz, except as the stereophonic pilot frequency in a transmission system meeting the following parameters:

(1) The modulating signal for the main channel consists of the sum of the right and left signals.

(2) The pilot subcarrier at 19 kHz ±2 Hz, must frequency modulate the main carrier between the limits of 8 and 10 percent.

(3) One stereophonic subcarrier must be the second harmonic of the pilot subcarrier (i.e. 38 kHz) and must cross the time axis with a positive slope simultaneously with each crossing of the time axis by the pilot subcarrier. Additional stereophomic subcarriers are not precluded.

(4) Double sideband, suppressed-carrier, amplitude modulation of the stereophonic subcarrier at 38 kHz must be used.

(5) The stereophonic subcarrier at 38 kHz must be suppressed to a level less than 1% modulation of the main carrier.

(6) The modulating signal for the required stereophonic subcarrier must be equal to the difference of the left and right signals.

(7) The following modulation levels apply:

(i) When a signal exists in only one channel of a two channel (biphonic) sound transmission, modulation of the carrier by audio components within the baseband range of 50 Hz to 15 kHz shall not exceed 45% and modulation of the carrier by the sum of the amplitude modulated subcarrier in the baseband range of 23 kHz to 53 kHz shall not exceed 45%.

(ii) When a signal exists in only one channel of a stereophonic sound transmission having more than one stereophonic subcarrier in the baseband, the modulation of the carrier by audio components within the audio baseband range of 23 kHz to 99 kHz shall not exceed 53% with total modulation not to exceed 90%.

(b) Stations not transmitting stereo with the method described in (a), must limit the main carrier deviation caused by any modulating signals occupying the band 19 kHz ±20 Hz to 125 Hz.

(c) All stations, regardless of the stereophonic transmission system used, must not exceed the maximum modulation limits specified in § 73.1570(b)(2). Stations not using the method described in (a), must limit the modulation of the carrier by audio components within the audio baseband range of 23 kHz to 99 kHz to not exceed 53%.

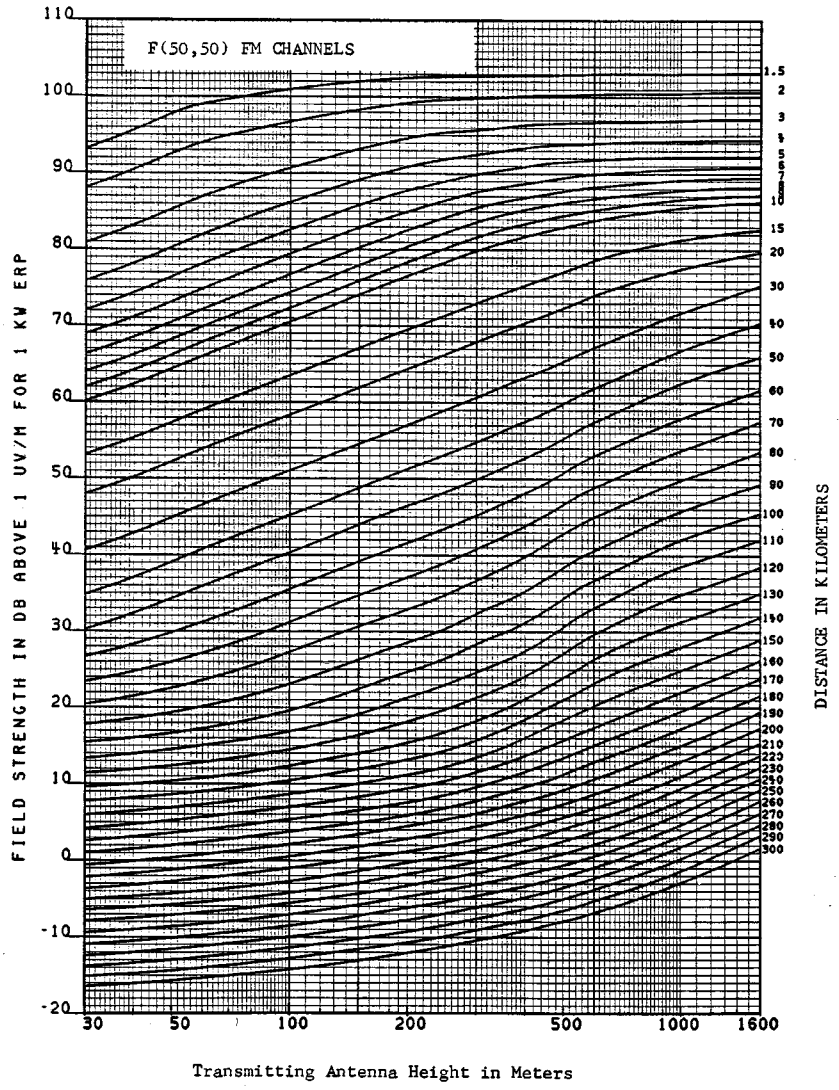
[51 FR 17029, May 8, 1986]

§ 73.333 Engineering charts.

This section consists of the following Figures 1, 1a, 2, and slider 4 and 5.

NOTE: The figures reproduced herein, due to their small scale, are not to be used in connection with material submitted to the F.C.C.

C16

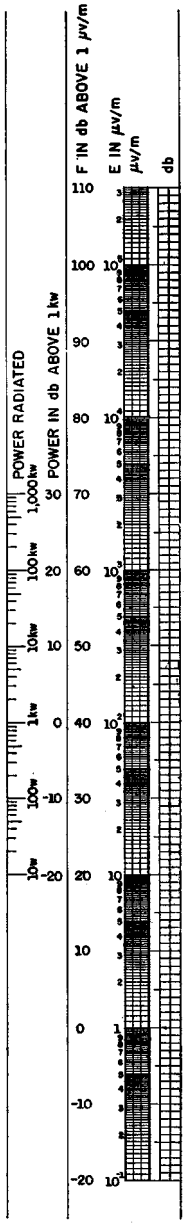


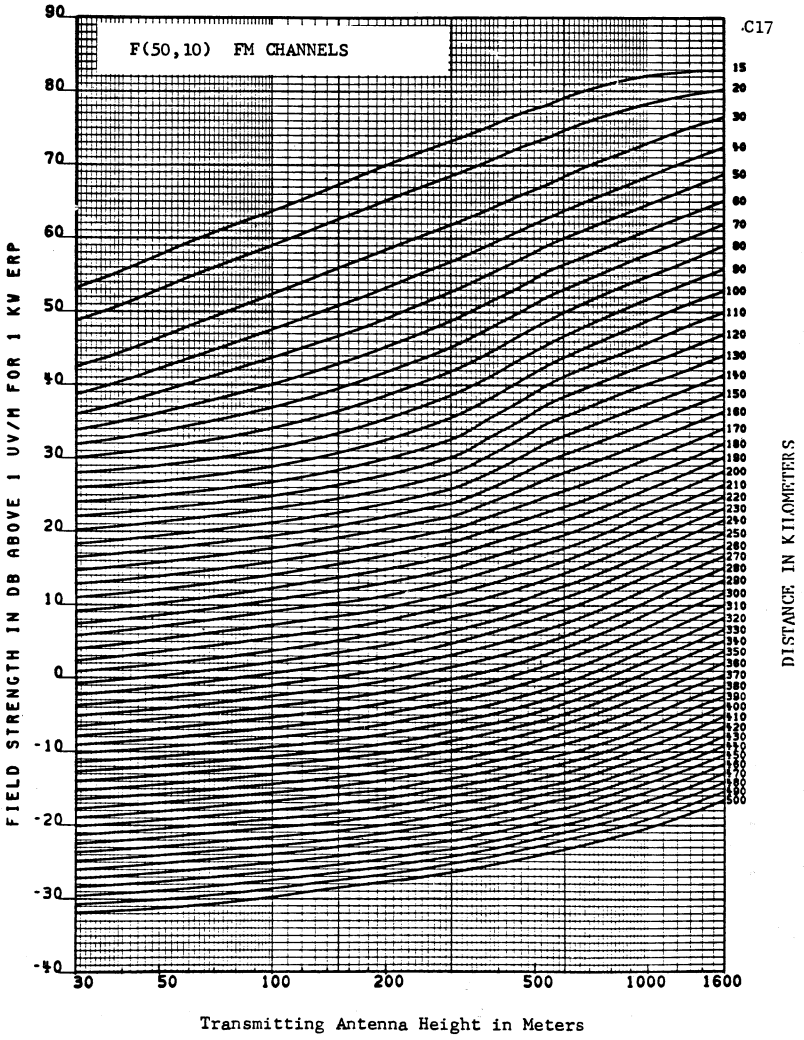
FCC §73.333 FIGURE 1

FM CHANNELS

ESTIMATED FIELD STRENGTH EXCEEDED AT 50 PERCENT OF THE POTENTIAL RECEIVER LOCATIONS FOR AT LEAST 50 PERCENT OF THE TIME AT A RECEIVING ANTENNA HEIGHT OF 9 METERS

Sliding Scale for use with Figure 1, § 73.333





FCC §73.333 FIGURE 1a

FM CHANNELS

ESTIMATED FIELD STRENGTH EXCEEDED AT 50 PERCENT OF THE POTENTIAL RECEIVER LOCATIONS FOR AT LEAST 10 PERCENT OF THE TIME AT A RECEIVING ANTENNA HEIGHT OF 9 METERS

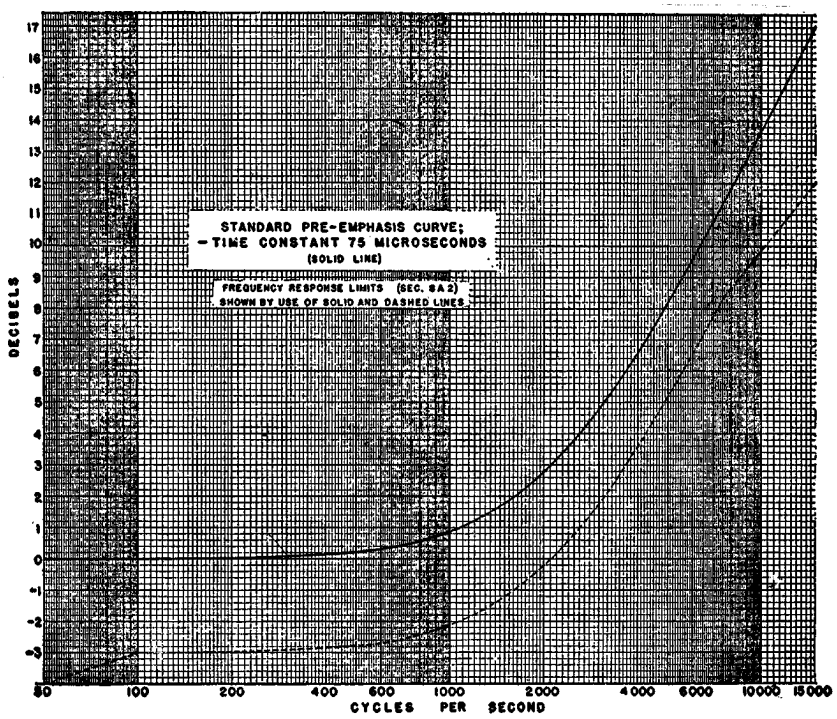
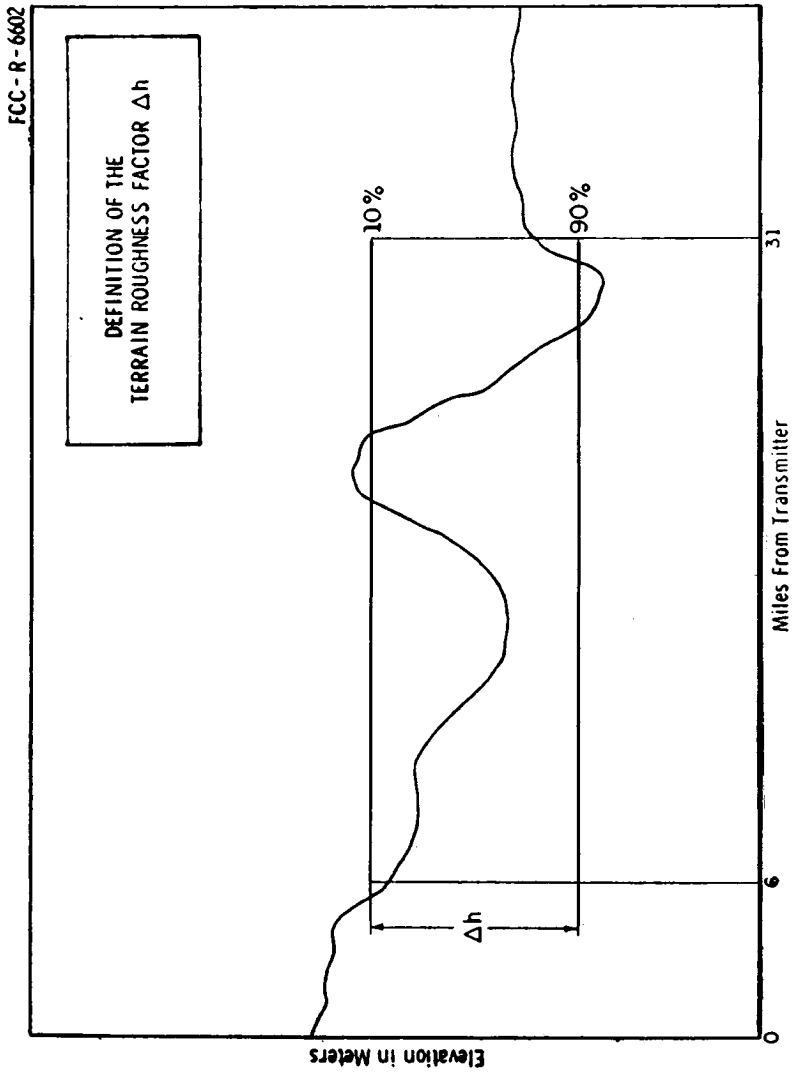
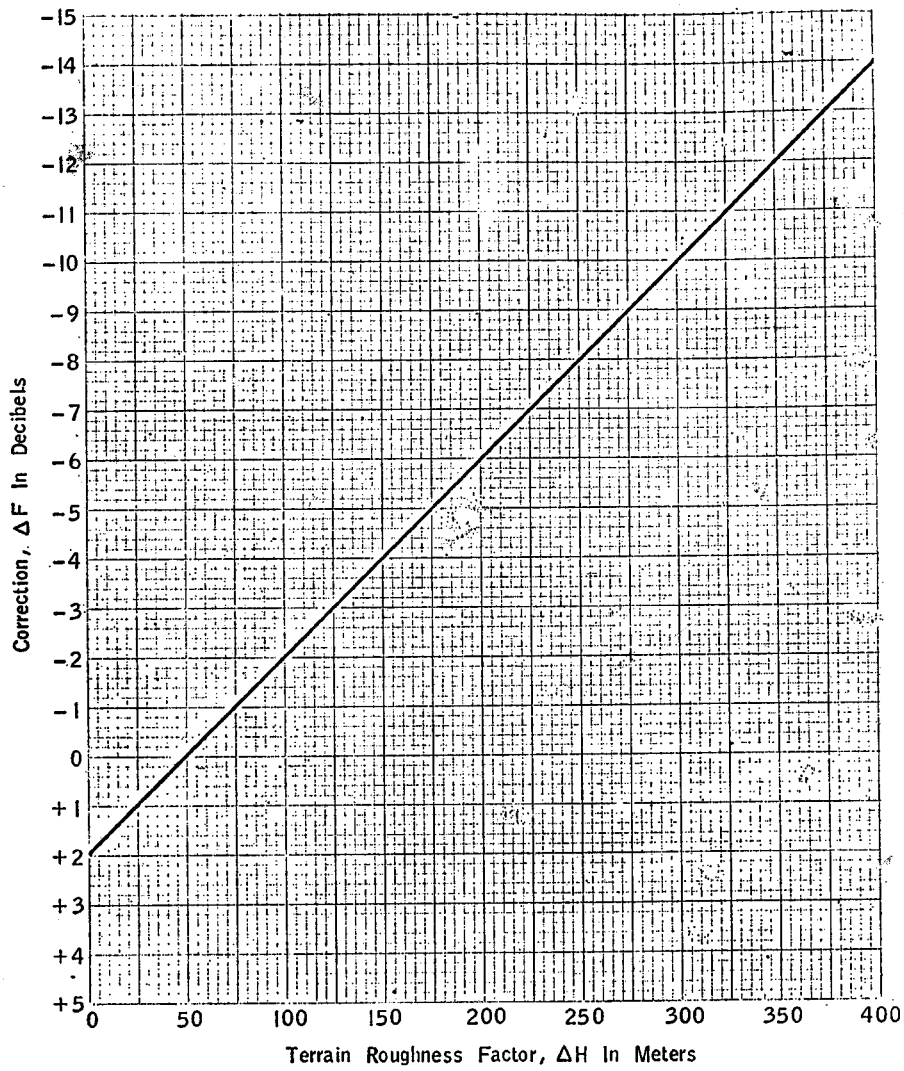

STANDARD PRE-EMPHASIS CURVE;
- TIME CONSTANT 75 MICROSECONDS
(SOLID LINE)
FREQUENCY RESPONSE LIMITS (SEC. 8A2)
SHOWN BY USE OF SOLID AND DASHED LINES.
DECIBELS
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
-1
-2
-3
50
100
200
400
600
1000
2000
4000
6000
10000
15000
CYCLES PER SECOND

FIGURE 2



FCC § 73.333 FIGURE 4
(new)



TERRAIN ROUGHNESS CORRECTION

for use with estimated FM F(50,50) and F(50,10) field strength curves

FCC §73.333 FIGURE 5

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))
[28 FR 13623, Dec. 14, 1963, as amended at 35 FR 2591, Feb. 5, 1970; 40 FR 27679, July 1, 1975; 45 FR 28141, Apr. 28, 1980; 48 FR 29508, June 27, 1983; 49 FR 19670, May 9, 1984]

EFFECTIVE DATE NOTE: At 42 FR 25736, May 19, 1977, the effective date of Figures 4 and 5 was stayed indefinitely.

Subpart C—Noncommercial Educational FM Broadcast Stations

§ 73.501 Channels available for assignment.

(a) The following frequencies, except as provided in paragraph (b) of this section, are available for noncommercial educational FM broadcasting:

Frequency (MHz)	Channel No.
87.9	[1] 200
88.1	201
88.3	202
88.5	203
88.7	204
88.9	205
89.1	[2] 206
89.3	207
89.5	208
89.7	209
89.9	210
90.1	211
90.3	212
90.5	213
90.7	214
90.9	215
91.1	216
91.3	217
91.5	218
91.7	219
91.9	220

[1] The frequency 87.9 MHz, Channel 200, is available only for use of existing Class D stations required to change frequency. It is available only on a noninterference basis with respect to TV Channel 6 stations and adjacent channel noncommercial educational FM stations. It is not available at all within 402 kilometers (250 miles) of Canada and 320 kilometers (199 miles) of Mexico. The specific standards governing its use are contained in § 73.512.

[2] The frequency 89.1 MHz, Channel 206, in the New York City metropolitan area, is reserved for the use of the United Nations with the equivalent of an antenna height of 150 meters (492 feet) above average terrain and effective radiated power of 20 kW and the Commission will make no assignments which would cause objectionable interference with such use.

(b) In Alaska, FM broadcast stations operating on Channels 200–220 (87.9–91.9 MHz) shall not cause harmful interference to and must accept interference from non-Government fixed operations authorized prior to January 1, 1982.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[43 FR 39715, Sept. 6, 1978, as amended at 47 FR 30068, July 12, 1982; 52 FR 43765, Nov. 16, 1987; 58 FR 44950, Aug. 25, 1993]

§ 73.502 State-wide plans.

In considering the assignment of a channel for a noncommercial educational FM broadcast station, the Commission will take into consideration the extent to which each application meets the requirements of any state-wide plan for noncommercial educational FM broadcast stations filed with the Commission, provided that such plans afford fair treatment to public and private educational institutions, urban and rural, at the primary, secondary, higher, and adult educational levels, and appear otherwise fair and equitable.

[28 FR 13651, Dec. 14, 1963]

§ 73.503 Licensing requirements and service.

The operation of, and the service furnished by noncommercial educational FM broadcast stations shall be governed by the following:

(a) A noncommercial educational FM broadcast station will be licensed only to a nonprofit educational organization and upon showing that the station will be used for the advancement of an educational program.

(1) In determining the eligibility of publicly supported educational organizations, the accreditation of their respective state departments of education shall be taken into consideration.

(2) In determining the eligibility of privately controlled educational organizations, the accreditation of state departments of education and/or recognized regional and national educational accrediting organizations shall be taken into consideration.

(b) Each station may transmit programs directed to specific schools in a system or systems for use in connection with the regular courses as well as routine and administrative material pertaining thereto and may transmit educational, cultural, and entertainment programs to the public.

(c) A noncommercial educational FM broadcast station may broadcast programs produced by, or at the expense of, or furnished by persons other than the licensee, if no other consideration than the furnishing of the program and the costs incidental to its production and broadcast are received by the licensee. The payment of line charges by another station network, or someone other than the licensee of a noncommercial educational FM broadcast station, or general contributions to the operating costs of a station, shall not

be considered as being prohibited by this paragraph.

(d) Each station shall furnish a nonprofit and noncommercial broadcast service. Noncommercial educational FM broadcast stations are subject to the provisions of § 73.1212 to the extent they are applicable to the broadcast of programs produced by, or at the expense of, or furnished by others. No *promotional* announcement *on behalf of for profit entities* shall be broadcast at any time in exchange for the receipt, in whole or in part, of consideration to the licensee, its principals, or employees. However, acknowledgements of contributions can be made. *The scheduling of any announcements and acknowledgements may not interrupt regular programming.*

NOTE: Commission interpretation of this rule, including the acceptable form of acknowledgements, may be found in the Second Report and Order in Docket No. 21136 (Commission Policy Concerning the Noncommercial Nature of Educational Broadcast Stations), 86 F.C.C. 2d 141 (1981); the Memorandum Opinion and Order in Docket No. 21136, 90 FCC 2d 895 (1982), and the Memorandum Opinion and Order in Docket 21136, 49 FR 13534, April 5, 1984.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[28 FR 13651, Dec. 14, 1963, as amended at 35 FR 7558, May 15, 1970; 47 FR 36178, Aug. 19, 1982; 49 FR 29069, July 18, 1984]

§ 73.504 Channel assignments in the Mexican border area.

(a) NCE–FM stations within 199 miles (320 km) of the United States-Mexican border shall comply with the separation requirements and other provisions of the ''Agreement between the United States of America and the United Mexican States Concerning Frequency Modulation Broadcasting in the 88 to 108 MHz Band'' as amended.

(b) Applicants for noncommercial educational FM stations within 199 miles (320 km) of the United States-Mexican border shall propose at least Class A minimum facilities (see § 73.211(a)). However, existing Class D noncommercial educational stations may apply to change frequency within the educational portion of the FM band in accordance with the requirements set forth in § 73.512.

(c) Section 73.208 of this chapter shall be complied with as to the determination of reference points and distance computations used in applications for new or changed facilities. However, if it is necessary to consider a Mexican channel assignment or authorization, the computation of distance will be determined as follows: if a transmitter site has been established, on the basis of the coordinates of the site; if a transmitter site has not been established, on the basis of the reference coordinates of the community, town, or city.

[52 FR 43765, Nov. 16, 1987]

§ 73.505 Zones.

For the purpose of assignment of noncommercial educational FM stations, the United States is divided into three zones, Zone I, Zone I–A, and Zone II, having the boundaries specified in § 73.205.

[42 FR 36828, July 18, 1977]

§ 73.506 Classes of noncommercial educational FM stations and channels.

(a) Noncommercial educational stations operating on the channels specified in § 73.501 are divided into the following classes:

(1) A Class D educational station is one operating with no more than 10 watts transmitter power output.

(2) A Class D educational (secondary) station is one operating with no more than 10 watts transmitter power output in accordance with the terms of § 73.512 or which has elected to follow these requirements before they become applicable under the terms of § 73.512.

(3) Noncommercial educational FM (NCE–FM) stations with more than 10 watts transmitter power output are classified as Class A, B1, B, C3, C2, C1, or C depending on the station's effective radiated power and antenna height above average terrain, and on the zone in which the station's transmitter is located, on the same basis as set forth in §§ 73.210 and 73.211 for commercial stations.

(b) Any noncommercial educational station except Class D may be assigned to any of the channels listed in § 73.501. Class D noncommercial educational FM stations applied for or authorized

prior to June 1, 1980, may continue to operate on their authorized channels subject to the provisions of § 73.512.

[43 FR 39715, Sept. 6, 1978, as amended at 49 FR 10264, Mar. 20, 1984; 52 FR 47569, Dec. 15, 1987; 54 FR 16367, Apr. 24, 1989; 54 FR 19374, May 5, 1989]

§ 73.507 Minimum distance separations between stations.

(a) *Minimum distance separations.* No application for a new station, or change in channel or transmitter site or increase in facilities of an existing station, will be granted unless the proposed facilities will be located so as to meet the adjacent channel distance separations specified in § 73.207(a) for the class of station involved with respect to assignment on Channels 221, 222, and 223 listed in § 73.201 (except where in the case of an existing station the proposed facilities fall within the provisions of § 73.207(b)), or where a Class D station is changing frequency to comply with the requirements of § 73.512.

(b) Stations authorized as of September 10, 1962, which do not meet the requirements of paragraph (a) of this section and § 73.511, may continue to operate as authorized; but any application to change facilities will be subject to the provisions of this section.

(c)(1) Stations separated in frequency by 10.6 or 10.8 MHz (53 or 54 channels) from allotments or assignments on non-reserved channels will not be authorized unless they conform to the separations in Table A given in § 73.207.

(2) Under the United States-Mexican FM Broadcasting Agreement, for stations and assignments differing in frequency by 10.6 to 10.8 MHz (53 or 54 channels), U.S. noncommercial educational FM allotments and assignments must meet the separations given in Table C of § 73.207 to Mexican allotments or assignments in the border area.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[42 FR 36828, July 18, 1977, as amended at 43 FR 39716, Sept. 6, 1978; 44 FR 65764, Nov. 15, 1979; 49 FR 10264, Mar. 20, 1984; 49 FR 19670, May 9, 1984]

§ 73.508 Standards of good engineering practice.

(a) All noncommercial educational stations operating with more than 10 watts transmitter output power shall be subject to all of the provisions of the FM Technical Standards contained in subpart B of this part. Class D educational stations shall be subject to the definitions contained in § 73.310 of subpart B of this part, and also to those other provisions of the FM Technical Standards which are specifically made applicable to them by the provisions of this subpart.

(b) The transmitter and associated transmitting equipment of each noncommercial educational FM station licensed for transmitter output power above 10 watts must be designed, constructed and operated in accordance with § 73.317.

(c) The transmitter and associated transmitting equipment of each noncommercial educational FM station licensed for transmitter power output of 10 watts or less, although not required to meet all requirements of § 73.317, must be constructed with the safety provisions of the current national electrical code as approved by the American Standards Association. These stations must be operated, tuned, and adjusted so that emissions are not radiated outside the authorized band causing or which are capable of causing interference to the communications of other stations. The audio distortion, audio frequency range, carrier hum, noise level, and other essential phases of the operation which control the external effects, must be at all times capable of providing satisfactory broadcast service. Studio equipment properly covered by an underwriter's certificate will be considered as satisfying safety requirements.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[28 FR 13651, Dec. 14, 1963. Redesignated at 42 FR 36828, July 18, 1977, and amended at 43 FR 53738, Nov. 17, 1978; 45 FR 28141, Apr. 28, 1980]

§ 73.509 Prohibited overlap.

(a) An application for a new or modified NCE–FM station other than a Class D (secondary) station will not be accepted if the proposed operation

would involve overlap of signal strength contours with any other station licensed by the Commission and operating in the reserved band (Channels 200–220, inclusive) as set forth below:

Frequency separation	Contour of proposed station	Contour of other station
Co-channel ...	0.1mV/m (40 dBu)	1 mV/m (60 dBu).
	1 mV/m (60 dBu)	0.1 mV/m (40 dBu).
200 kHz	0.5 mV/m (54 dBu) ..	1 mV/m (60 dBu).
	1 mV/m (60 dBu)	0.5 mV/m (54 dBu).
400 kHz	10 mV/m (80 dBu) ...	1 mV/m (60 dBu).
	1 mV/m (60 dBu)	10 mV/m (80 dBu).
600 kHz	100 mV/m (100 dBu)	1 mV/m (60 dBu).
	1 mV/m (60 dBu)	100 mV/m (100 dBu).

(b) An application by a Class D (secondary) station, other than an application to change class, will not be accepted if the proposed operation would involve overlap of signal strength contours with any other station as set forth below:

Frequency separation	Contour of proposed station	Contour of any other station
Co-channel ...	0.1 mV/m (40 dBu) ..	1 mV/m (60 dBu).
200 kHz	0.5 mV/m (54 dBu) ..	1 mV/m (60 dBu).
400 kHz	10 mV/m (80 dBu) ...	1 mV/m (60 dBu).
600 kHz	100 mV/m (100 dBu)	1 mV/m (60 dBu).

(c) The following standards must be used to compute the distances to the pertinent contours:

(1) The distance of the 60 dBu (1 mV/m) contours are to be computed using Figure 1 of §73.333 [F(50,50) curves] of this part.

(2) The distance to the other contours are to be computed using Figure 1a of §73.333 [F(50,10) curves]. In the event that the distance to the contour is below 16 kilometers (approximately 10 miles), and therefore not covered by Figure 1a, curves in Figure 1 must be used.

(3) The effective radiated power (ERP) that is the maximum ERP for any elevation plane on any bearing will be used.

(d) An application for a change (other than a change in channel) in the facilities of a NCE–FM broadcast station will be accepted even though overlap of signal strength contours, as specified in paragraphs (a) and (b) of this section, would occur with another station in an area where such overlap does not already exists, if:

(1) The total area of overlap with that station would not be increased;

(2) The area of overlap with any other station would not increase;

(3) The area of overlap does not move significantly closer to the station receiving the overlap; and,

(4) No area of overlap would be created with any station with which the overlap does not now exist.

(e) The provisions of this section concerning prohibited overlap will not apply where the area of such overlap lies entirely over water.

[50 FR 27962, July 9, 1985, as amended at 52 FR 43765, Nov. 16, 1987]

§73.510 Antenna systems.

(a) All noncommercial educational stations operating with more than 10 watts transmitter output power shall be subject to the provisions of §73.316 concerning antenna systems contained in subpart B of this part.

(b) *Directional antenna.* No application for a construction permit of a new station, or change in channel, or change in an existing facility on the same channel will be accepted for filing if a directional antenna with a maximum-to-minimum ratio of more than 15 dB is proposed.

[42 FR 36829, July 18, 1977]

§73.511 Power and antenna height requirements.

(a) No new noncommercial educational station will be authorized with less power than minimum power requirements for commercial Class A facilities. (See §73.211.)

(b) No new noncommercial educational FM station will be authorized with facilities greater than Class B in Zones I and I–A or Class C in Zone II, as defined in §73.211.

(c) Stations licensed before December 31, 1984, and operating above 50 kW in Zones I and I–A, and above 100 kW and in Zone II may continue to operate as authorized.

[50 FR 27963, July 9, 1985, as amended at 50 FR 31379, Aug. 2, 1985; 54 FR 3602, Jan. 25, 1989]

§ 73.512 Special procedures applicable to Class D noncommercial educational stations.

(a) All Class D stations seeking renewal of license for any term expiring June 1, 1980, or thereafter shall comply with the requirements set forth below and shall simultaneously file an application on FCC Form 340, containing full information regarding such compliance with the provisions set forth below.

(1) To the extent possible, each applicant shall select a commercial FM channel on which it proposes to operate in lieu of the station's present channel. The station may select any commercial channel provided no objectionable interference, as set forth in § 73.509(b), would be caused. The application shall include the same engineering information as is required to change the frequency of an existing station and any other information necessary to establish the fact that objectionable interference would not result. If no commerical channel is available where the station could operate without causing such interference, the application shall set forth the basis upon which this conclusion was reached.

(2) If a commercial channel is unavailable, to the extent possible each applicant should propose operation on Channel 200 (87.9 MHz) unless the station would be within 402 kilometers (250 miles) of the Canadian border or 320 kilometers (199 miles) of the Mexican border or would cause interference to an FM station operating on Channels 201, 202, or 203 or to TV Channel 6, as provided in § 73.509.

(3) If a channel is not available under either paragraph (a) (1) or (2) of this section, the renewal applicant shall study all 20 noncommercial educational FM channels and shall propose operation on the channel which would cause the least preclusion to the establishment of new stations or increases in power by existing stations. Full information regarding the basis for the selection should be provided.

(b) At any time before the requirements of paragraph (a) become effective, any existing Class D station may file a construction permit application on FCC Form 340 to change channel in the manner described above which shall be subject to the same requirements. In either case, any license granted shall specify that the station's license is for a Class D (secondary) station.

(c) Except in Alaska, no new Class D applications nor major change applications by existing Class D stations are acceptable for filing except by existing Class D stations seeking to change frequency. Upon the grant of such application, the station shall become a Class D (secondary) station.

(d) Class D noncommercial educational (secondary) stations (see § 73.506(a)(2)) will be permitted to continue to operate only so long as no interference (as defined in § 73.509) is caused to any TV or commercial FM broadcast stations. In the event that the Class D (secondary) station would cause interference to a TV or commercial FM broadcast station after that Class D (secondary) station is authorized, the Class D (secondary) station must cease operation when program tests for the TV or commercial FM broadcast station commence. The Class D (secondary) station may apply for a construction permit (see § 73.3533) to change to another frequency or antenna site where it would not cause interference (as defined in § 73.509). If the Class D (secondary) station must cease operation before the construction permit is granted, an application for temporary authorization (pursuant to § 73.3542) to operate with the proposed facilities may be submitted; where appropriate, such temporary authorization can be granted.

[43 FR 39716, Sept. 6, 1978, as amended at 44 FR 48226, Aug. 17, 1979; 47 FR 28388, June 30, 1982; 50 FR 8326, Mar. 1, 1985]

§ 73.513 Noncommercial educational FM stations operating on unreserved channels.

Noncommercial educational FM stations other than Class D (secondary) which operate on Channels 221 through 300 but which comply with § 73.503 as to licensing requirements and the nature of the service rendered, must comply with the provisions of the following sections of subpart B: §§ 73.201 through 73.213 (Classification of FM Broadcast Stations and Allocations of Frequencies) and such other sections of

subpart B as are made specially applicable by the provisions of this subpart C. Stations in Alaska authorized before August 11, 1982, using Channels 261–300 need not meet the minimum effective radiated power requirement specified in § 73.211(a). In all other respects, stations operating on Channels 221 through 300 are to be governed by the provisions of this subpart and not subpart B.

[47 FR 30068, July 12, 1982]

§ 73.525 TV Channel 6 protection.

The provisions of this section apply to all applications for construction permits for new or modified facilities for a NCE–FM station on Channels 200–220 unless the application is accompanied by a written agreement between the NCE–FM applicant and each affected TV Channel 6 broadcast station concurring with the proposed NCE–FM facilities.

(a) *Affected TV Channel 6 Station.*

(1) An affected TV Channel 6 station is a TV broadcast station which is authorized to operate on Channel 6 that is located within the following distances of a NCE–FM station operating on Channels 201–220:

TABLE A

NCE–FM channel	Distance (kilometers)	NCE–FM channel	Distance (kilometers)
201	265	211	196
202	257	212	195
203	246	213	193
204	235	214	187
205	225	215	180
206	211	216	177
207	196	217	174
208	196	218	166
209	196	219	159
210	196	220	154

(2) Where a NCE–FM application has been accepted for filing or granted, the subsequent acceptance of an application filed by a relevant TV Channel 6 station will not require revision of the pending NCE–FM application or the FM station's authorized facilities, unless the provisions of paragraph (e)(3) of this section for TV translator or satellite stations apply.

(b) *Existing NCE–FM Stations.* (1) A NCE–FM station license authorized to operate on channels 201–220 as of December 31, 1984, or a permittee, granted a construction permit for a NCE–FM station as of December 31, 1984, are not subject to this section unless they propose either:

(i) To make changes in operating facilities or location which will increase predicted interference as calculated under paragraph (e) of this section to TV Channel 6 reception in any direction; or,

(ii) To increase its ratio of vertically polarized to horizontally polarized transmissions.

(2) Applicants must comply with the provision of paragraphs (c) or (d) of this section unless the application for modification demonstrates that, for each person predicted to receive new interference as a result of the change, existing predicted interference to two person will be eliminated. Persons predicted to receive new interference are those located outside the area predicted to receive interference from the station's currently authorized facilities (''existing predicted interference area'') but within the area predicted to receive interference from the proposed facilities (''proposed predicted interference area''). Persons for whom predicted interference will be eliminated are those located within the existing predicted interference area and outside the proposed predicted interference area.

(i) In making this calculation, the provisions contained at paragraph (e) will be used except as modified by paragraph (b)(3) of this section.

(ii) The following adjustment to the population calculation may be made: up to 1,000 persons may be subtracted from the population predicted to receive new interference if, for each person substracted, the applicant effectively installs two filters within 90 days after commencing program tests with the proposed facilities and, no later than 45 days thereafter, provides the affected TV Channel 6 station (as defined in paragraph (a) of this section) with a certification containing sufficient information to permit verification of such installation. The required number of filters will be installed on television receivers located within the predicted interference area; provided that half of the installations are within

the area predicted to receive new interference.

(3) Where an NCE–FM applicant wishes to operate with facilities in excess of that permitted under the provisions of paragraphs (c) or (d) of this section, by proposing to use vertically polarized transmissions only, or to increase its ratio of vertically to horizontally polarized transmissions, the affected TV Channel 6 station must be given an option to pay for the required antenna and, if it takes that option, the NCE–FM vertically polarized component of power will be one half (−3 dB) that which would be allowed by the provisions of paragraph (e)(4) of this section.

(4) Applications for modification will include a certification that the applicant has given early written notice of the proposed modification to all affected TV Channel 6 stations (as defined in paragraph (a) of this section).

(5) Where the NCE–FM station demonstrates in its application that it must make an involuntary modification (*e.g.,* due to loss of its transmitter site) that would not otherwise be permitted under this section, its application will be considered on a case-by-case basis. In such cases, the provisions of paragaph (b)(3) of this section do not apply.

(c) *New NCE–FM Stations.* Except as provided for by paragraph (d) of this section, applicants for NCE–FM stations proposing to operate on Channels 201–220 must submit a showing indicating that the predicted interference area resulting from the proposed facility contains no more than 3,000 persons.

(1) In making these calculations, the provisions in paragraph (e) of this section will be used.

(2) The following adjustment to population may be made: up to 1,000 persons may be subtracted from the population within the predicted interference area if, for each person subtracted, the applicant effectively installs one filter within 90 days after commencing program tests and, no later than 45 days thereafter, provides the affected TV Channel 6 station with a certification containing sufficient information to permit verification of such installation. The required number of filters will be installed on television receivers located within the predicted interference area.

(d) *Collocated Stations.* As an alternative to the provisions contained in paragraphs (b) and (c) of this section, an application for a NCE–FM station operating on Channels 201–220 and located at 0.4 kilometer (approximately 0.25 mile) or less from a TV Channel 6 station will be accepted under the following requirements:

(1) The effective radiated power cannot exceed the following values:

TABLE B

NCE–FM channel	Power (kilowatt)	NCE–FM channel	Power (kilowatt)
201	1.1	211	26.3
202	1.9	212	31.6
203	3.1	213	38.0
204	5.0	214	46.8
205	8.3	215	56.2
206	10.0	216	67.6
207	12.0	217	83.2
208	14.8	218	100.0
209	17.8	219	100.0
210	21.4	220	100.0

(2) The NCE–FM application will include a certification that the applicant has coordinated its antenna with the affected TV station by employing either: The same number of antenna bays with radiation centers separated by no more than 30 meters (approximately 100 feet) verticially; or, the FM vertical pattern not exceeding the TV vertical pattern by more than 2dB.

(e) *Calculation of Predicted Interference Area and Population.* Predictions of interference required under this section and calculations to determine the number of persons within a predicted interference area for NCE–FM operation on Channels 201–220 are made as follows:

(1) The predicted interference area will be calculated as follows:

(i) The distances to the TV Channel 6 field strength contours will be predicted according to the procedures specified in § 73.684, ''Prediction of coverage,'' using the F(50,50) curves in Figure 9, § 73.699.

(ii) For each TV Channel 6 field strength contour, there will be an associated F(50,10) FM interference contour, the value of which (in units of dBu) is defined as the sum of the TV Channel 6 field strength (in dBu) and the appropriate undesired-to-desired (U/D) signal ratio (in dB) obtained from

Figures 1 and 2, § 73.599, corresponding to the channel of the NCE–FM applicant and the appropriate F(50,50) field strength contour of the TV Channel 6 station.

(iii) An adjustment of 6 dB for television receiving antenna directivity will be added to each NCE–FM interference contour at all points outside the Grade A field strength contour (§ 73.683) of the TV Channel 6 station and within an arc defined by the range of angles, of which the FM transmitter site is the vertex, from 110° relative to the azimuth from the FM transmitter site to the TV Channel 6 transmitter site, counterclockwise to 250° relative to that azimuth. At all points at and within the Grade A field strength contour of the TV Channel 6 station, the 6 dB adjustment is applicable over the range of angles from 70° clockwise to 110° and from 250° clockwise to 290°.

(iv) The distances to the applicable NCE–FM interference contours will be predicted according to the procedures specified in § 73.313, ''Prediction of Coverage,'' using the proposed antenna height and horizontally polarized, or the horizontal equivalent of the vertically polarized, effective radiated power in the pertinent direction and the F(50,10) field strength curves (Figure 1a, § 73.333).

(v) The predicted interference area will be defined as the area within the TV Channel 6 station's 47 dBu field strength contour that is bounded by the locus of intersections of a series of TV Channel 6 field strength contours and the applicable NCE–FM interference contours.

(vi) In cases where the terrain in one or more directions departs widely from the surrounding terrain average (for example, an intervening mountain), a supplemental showing may be made. Such supplemental showings must describe the procedure used and should include sample calculations. The application must also include maps indicating the predicted interference area for both the regular method and the supplemental method.

(vii) In cases where the predicted interference area to Channel 6 television from a noncommercial educational FM station will be located within the 90 dBu F(50,50) contour of the television Channel 6 station, the location of the FM interfering contour must be determined using the assumption that the Channel 6 field strength remains constant at 90 dBu everywhere within the 90 dBu TV contour. The FM to Channel 6 U/D signal strength ratio specified in § 73.599 corresponding to the Channel 6 TV field strength of 90 dBu shall be used.

(2) The number of persons contained within the predicted interference area will be based on data contained in the most recently published U.S. Census of Population and will be determined by plotting the predicted interference area on a County Subdivision Map of the state published for the Census, and totalling the number of persons in each County Subdivision (such as, Minor Civil Division (MCD), Census County Division (CCD), or equivalent areas) contained within the predicted interference area. Where only a portion of County Subdivision is contained within the interference area:

(i) The population of all incorporated places or Census designated places will be subtracted from the County Subdivision population;

(ii) Uniform distribution of the remaining population over the remaining area of the County Subdivision will be assumed in determining the number of persons within the predicted interference area in proportion to the share of the remaining area of the County Subdivision that lies within the predicted interference area; and,

(iii) The population of the incorporated places or Census designated places contained within the predicted interference area will then be added to the total, again assuming uniform distribution of the population within the area of each place and adding a share of the population proportional to the share of the area if only a portion of such a place is within the predicted interference area.

(iv) At the option of either the NCE–FM applicant or an affected TV Channel 6 station which provides the appropriate analysis, more detailed population data may be used.

(3) Adjustments to the population calculated pursuant to paragraph (e)(2) of this section may be made as follows:

(i) If any part of the predicted interference area is within the Grade A field strength contour (§ 73.683) of a TV translator station carrying the affected TV Channel 6 station, the number of persons within that overlap area will be subtracted, provided the NCE–FM construction permit and license will contain the following conditions:

(A) When the TV translator station ceases to carry the affected TV Channel 6 station's service and the cessation is not the choice of the affected TV Channel 6 station, the NCE–FM station will modify its facilities, within a reasonable transition period, to meet the requirements of this section which would have applied if no adjustment to population for translator service had been made in its application.

(B) The transition period may not exceed 1 year from the date the NCE–FM station is notified by the TV Channel 6 station that the translator station will cease to carry the affected TV Channel 6 station's service or 6 months after the translator station ceases to carry the affected TV Channel 6 station's service, whichever is earlier.

(ii) If any part of the interference area is within the Grade B field strength contour (§ 73.683) of a satellite station of the affected TV Channel 6 station, the number of persons within the overlap area will be subtracted, provided the NCE–FM permit and license will contain the following conditions:

(A) If the satellite station ceases to carry the affected TV Channel 6 station's service and the cessation is not the choice of the affected TV Channel 6 station, the NCE–FM station will modify its facilities, within a reasonable transition period, to meet the requirements of this rule which would have applied if no adjustment to population for satellite station service had been made in its application.

(B) The transition period may not exceed 1 year from the date the NCE–FM station is notified by the TV Channel 6 station that the satellite station will cease to carry the affected TV Channel 6 stations's service or 6 months after the satellite station ceases to carry the affected TV Channel 6 station's service, whichever is earlier.

(iii) If any part of the predicted interference area is located outside the affected TV Channel 6 station's Area of Dominant Influence (ADI), outside the Grade A field strength contour (§ 73.683), and within the predicted city grade field strength contour (73.685(a)) of a TV broadcast station whose only network affiliation is the same as the only network affiliation of the affected TV Channel 6 station, the number of persons within that part will be subtracted. (For purposes of this provision, a network is defined as ABC, CBS, NBC, or their successors.) In addition, the ADI of an affected TV Channel 6 station and the program network affiliations of all relevant TV broadcast stations will be assumed to be as they were on the filing date of the NCE–FM application or June 1, 1985, whichever is later.

(iv) In calculating the population within the predicted interference area, an exception will be permitted upon a showing (*e.g.,* as survey of actual television reception) that the number of persons within the predicted interference area should be reduced to account for persons actually experiencing co-channel or adjacent channel interference to reception of the affected TV Channel 6 station. The area within which such a showing may be made will be limited to the area calculated as follows:

(A) The distances to the field strength contours of the affected TV Channel 6 station will be predicted according to the procedures specified in § 73.684, ''Prediction of coverage,'' using the F(50,50) curves in Figure 9, §73.699.

(B) For each field strength contour of the affected TV Channel 6 station, there will be an associated co-channel or adjacent channel TV broadcast station interference contour, the value of which (in units of dBu) is defined as the sum of the affected TV Channel 6 station's field strength (in dBu) and the appropriate undesired-to-desired signal ratio (in dB) as follows:

Co-channel, normal offset, −22 dB
Co-channel, no offset, −39 dB
Adjacent channel, +12 dB

(C) The distances to the associated co-channel or adjacent channel TV broadcast station interference contour

will be predicted according to the procedures specified in § 73.684, ''Prediction of coverage,'' using the F(50,10) curves in Figure 9a, § 73.699.

(D) The area within which the showing of actual interference may be made will be the area bounded by the locus of intersections of a series of the affected TV Channel 6 station's field strength contours and the associated interference contours of the co-channel or adjacent channel TV broadcast station.

(4) The maximum permissible effective radiated power (ERP) and antenna height may be adjusted for vertical polarity as follows:

(i) If the applicant chooses to use vertically polarized transmissions only, the maximum permissible vertically polarized ERP will be the maximum horizontally polarized ERP permissible at the same proposed antenna height, calculated without the adjustment for television receiving antenna directivity specified in paragraph (e)(1)(iii) of this section, multiplied by either: 40 if the predicted interference area lies entirely outside the limits of a city of 50,000 persons or more; or 10 if it does not.

(ii) If the applicant chooses to use mixed polarity, the permissible ERP is as follows:

[H+(V/A)] is no greater than P

Where:

H is the horizontally polarized ERP in kilowatts for mixed polarity;

V is the vertically polarized ERP in kilowatts for mixed polarity;

A is 40 if the predicted interference area lies entirely outside the limits of a city of 50,000 persons or more, or 10 if it does not; and

P is the maximum permitted horizontally polarized-only power in kilowatts.

(f) *Channel 200 Applications.* No application for use of NCE–FM Channel 200 will be accepted if the requested facility would cause objectionable interference to TV Channel 6 operations. Such objectionable interference will be considered to exist whenever the 15 dBu contour based on the F(50,10) curves in § 73.333 Figure 1a would overlap the 40 dBu contour based on the F(50,50) curves in § 73.699, Figure 9.

[50 FR 27963, July 9, 1985; 50 FR 30187, July 24, 1985; 50 FR 31379, Aug. 2, 1985, as amended at 51 FR 26250, July 22, 1986; 52 FR 25867, July 9, 1987; 62 FR 51059, Sept. 30, 1997]

EFFECTIVE DATE NOTE: At 62 FR 51059, Sept. 30, 1997, § 73.525 was amended by adding paragraph (e)(1)(vii), effective Dec. 1, 1997.

§ 73.558 Indicating instruments.

The requirements for indicating instruments described in § 73.258 are applicable to all educational FM broadcast stations licensed with a transmitter power greater than 0.01 kw.

[51 FR 17029, May 8, 1986]

§ 73.561 Operating schedule; time sharing.

(a) All noncommercial educational FM stations will be licensed for unlimited time operation except those stations operating under a time sharing arrangement. All noncommercial educational FM stations are required to operate at least 36 hours per week, consisting of at least 5 hours of operation per day on at least 6 days of the week; however, stations licensed to educational institutions are not required to operate on Saturday or Sunday or to observe the minimum operating requirements during those days designated on the official school calendar as vacation or recess periods.

(b) All stations, including those meeting the requirements of paragraph (a) of this section, but which do not operate 12 hours per day each day of the year, will be required to share use of the frequency upon the grant of an appropriate application proposing such share time arrangement. Such applications shall set forth the intent to share time and shall be filed in the same manner as are applications for new stations. They may be filed at any time, but in cases where the parties are unable to agree on time sharing, action on the application will be taken only in connection with the renewal of application for the existing station. In order to be considered for this purpose, such an application to share time must be filed no later than the deadline for filing petitions to deny the renewal application of the existing licensee, or, in the case of renewal applications filed by the existing licensee on or before May 1, 1995, no later than the deadline for filing applications in conflict with the such renewal applications.

(1) The licensee and the prospective licensee(s) shall endeavor to reach an

agreement for a definite schedule of periods of time to be used by each. Such agreement shall be in writing and shall set forth which licensee is to operate on each of the hours of the day throughout the year. Such agreement shall not include simultaneous operation of the stations. Each licensee shall file the same in triplicate with each application to the Commission for initial construction permit or renewal of license. Such written agreements shall become part of the terms of each station's license.

(2) The Commission desires to facilitate the reaching of agreements on time sharing. However, if the licensees of stations authorized to share time are unable to agree on a division of time, the Commission shall be so notified by statement to that effect filed with the application proposing time sharing. Thereafter the Commission will designate the application for hearing on any qualification issues arising regarding the renewal or new applicants. If no such issues pertain, the Commission will set the matter for expedited hearing limited solely to the issue of the sharing of time. In the event the stations have been operating under a time sharing agreement but cannot agree on its continuation, a hearing will be held, and pending such hearing, the operating schedule previously adhered to shall remain in full force and effect.

(c) A departure from the regular schedule set forth in a time-sharing agreement will be permitted only in cases where an agreement to that effect is reduced to writing, is signed by the licensees of the stations affected thereby and filed in triplicate by each licensee with the Commission prior to the time of the proposed change. If time is of the essence, the actual departure in operating schedule may precede the actual filing of written agreement, provided appropriate notice is sent to the Commission in Washington, DC.

(d) In the event that causes beyond the control of a permittee or licensee make it impossible to adhere to the operating schedule in paragraphs (a) and (b) of this section or to continue operating, the station may limit or discontinue operation for a period of not more than 30 days without further authority from the Commission, *Provided,* That notification is sent to the Commission in Washington, DC no later than the 10th day of limited or discontinued operation. During such period, the permittee or licensee shall continue to adhere to the requirements of the station license pertaining to the lighting of antenna structures. In the event normal operation is restored prior to the expiration of the 30-day period, the permittee or licensee will so notify the Commission in Washington, DC, of this date. If the causes beyond the control of the permittee or licensee make it impossible to comply within the allowed period, informal written request shall be made to the Commission in Washington, DC, no later than the 30th day for such additional time as may be deemed necessary. The license of a broadcasting station that fails to transmit broadcast signals for any consecutive 12-month period expires as a matter of law at the end of that period, notwithstanding any provision, term, or condition of the license to the contrary.

NOTE 1: For allocations purposes, both (all) stations sharing time will be treated as unlimited time stations.

NOTE 2: See §§ 73.1705, 73.1715, and 73.1740.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[43 FR 39717, Sept. 6, 1978, as amended at 43 FR 45845, Oct. 4, 1978; 44 FR 3416, Jan. 19, 1979; 44 FR 65764, Nov. 15, 1979; 47 FR 54448, Dec. 3, 1982; 50 FR 13974, Apr. 9, 1985; 61 FR 18291, Apr. 25, 1996; 61 FR 28767, June 6, 1996]

§ 73.567 Determining operating power.

The procedures for determining operating power described in § 73.267 are applicable to noncommercial education FM stations.

[44 FR 58732, Oct. 11, 1979]

§ 73.593 Subsidiary communications services.

The licensee of a noncommercial educational FM station is not required to use its subcarrier capacity, but if it chooses to do so, it is governed by §§ 73.293 through 73.295 of the Commission's Rules regarding the types of permissible subcarrier uses and the manner in which subcarrier operations

shall be conducted; *Provided,* however, that remunerative use of a station's subcarrier capacity shall not be detrimental to the provision of existing or potential radio reading services for the blind or otherwise inconsistent with its public broadcasting responsibilities.

[48 FR 26615, June 9, 1983]

§ 73.597 FM stereophonic sound broadcasting.

A noncommercial educational FM broadcast station may, without specific authority from the FCC, transmit stereophonic sound programs upon installation of stereophonic sound transmitting equipment under the provisions of §§ 2.977, 2.1001, 73.322, and 73.1590 of the FCC's Rules.

[51 FR 17029, May 8, 1986]

§ 73.599 NCE–FM engineering charts.

This section consists of the following Figures 1 and 2.

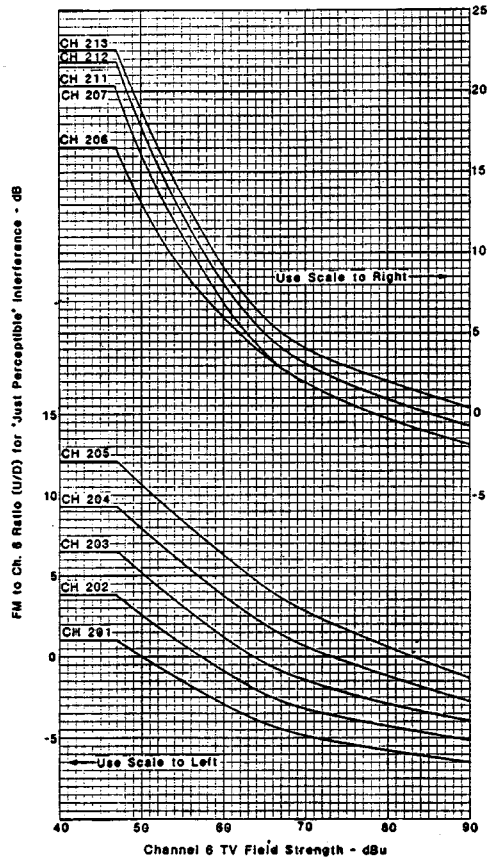


Figure 1
FM/TV 6 PROTECTION RATIOS
BASED ON MEDIAN RECEIVERS
CHANNELS 201-213

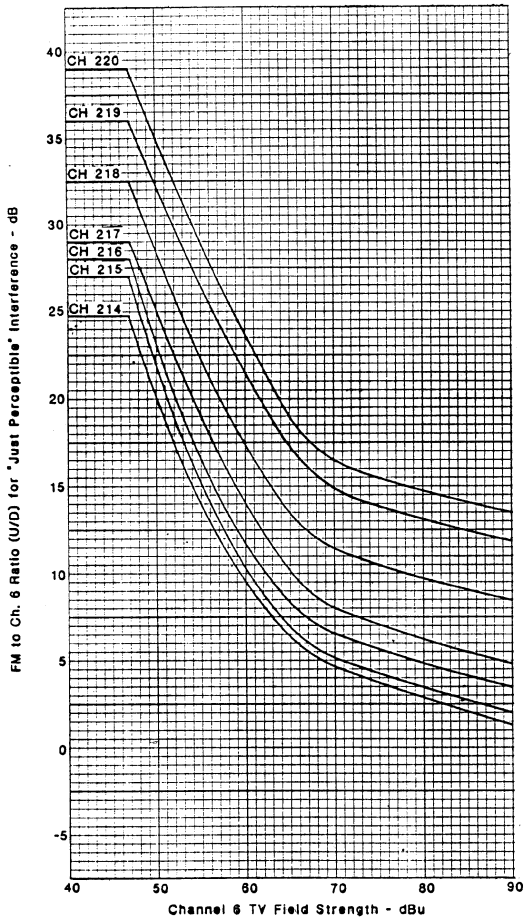


Figure 2
FM/TV 6 PROTECTION RATIOS
BASED ON MEDIAN RECEIVERS
CHANNELS 214-220

[50 FR 27965, July 9, 1985]

Subpart D [Reserved]

Subpart E—Television Broadcast Stations

§ 73.601 Scope of subpart.

This subpart contains the rules and regulations (including engineering standards) governing TV broadcast stations, including noncommercial educational TV broadcast stations and, where indicated, low power TV and TV translator stations in the United States, its Territories and possessions. TV broadcast, low power TV, and TV translator stations are assigned channels 6 MHz wide, designated as set forth in § 73.603(a).

[47 FR 21494, May 18, 1982]

§ 73.602 Cross reference to rules in other parts.

See § 73.1010.

[43 FR 32781, July 28, 1978]

§ 73.603 Numerical designation of television channels.

(a)

Channel No.	Frequency band (MHz)
2	54–60
3	60–66
4	66–72
5	76–82
6	82–88
7	174–180
8	180–186
9	186–192
10	192–198
11	198–204
12	204–210
13	210–216
14	470–476
15	476–482
16	482–488
17	488–494
18	494–500
19	500–506
20	506–512
21	512–518
22	518–524
23	524–530
24	530–536
25	536–542
26	542–548
27	548–554
28	554–560
29	560–566
30	566–572
31	572–578
32	578–584
33	584–590
34	590–596
35	596–602
36	602–608
37	608–614
38	614–620
39	620–626
40	626–632
41	632–638
42	638–644
43	644–650
44	650–656
45	656–662
46	662–668
47	668–674
48	674–680
49	680–686
50	686–692
51	692–698
52	698–704
53	704–710
54	710–716
55	716–722
56	722–728
57	728–734
58	734–740
59	740–746
60	746–752
61	752–758
62	758–764
63	764–770
64	770–776
65	776–782
66	782–788
67	788–794
68	794–800
69	800–806

(b) In Alaska, television broadcast stations operating on Channel 5 (76–82 MHz) and on Channel 6 (82–88 MHz) shall not cause harmful interference to and must accept interference from non-Government fixed operations authorized prior to January 1, 1982.

(c) Channel 37, 608–614 MHz is reserved exclusively for the radio astronomy service.

(d) In Hawaii, the frequency band 488–494 MHz is allocated for non-broadcast use. This frequency band (Channel 17) will not be assigned in Hawaii for use by television broadcast stations.

[28 FR 13660, Dec. 14, 1963, as amended at 35 FR 11179, July 11, 1970; 39 FR 10576, Mar. 21, 1974; 47 FR 16789, Apr. 20, 1982; 47 FR 30068, July 12, 1982; 47 FR 35989, Aug. 18, 1982; 51 FR 18450, May 20, 1986]

§ 73.606 Table of allotments.

(a) *General.* The following table of allotments contains the channels designated for the listed communities in the United States, its Territories, and possessions. Channels designated with

an asterisk are assigned for use by noncommercial educational broadcast stations only. A station on a channel identified by a plus or minus mark is required to operate with its carrier frequencies offset 10 kHz above or below, respectively, the nominal carrier frequencies.

(b) *Table of Allotments.*

ALABAMA

	Channel No.
Anniston	40-
Arab	56-
Bessemer	17
Birmingham	6-, *10-, 13-, 21-, 42+, *62+, 68-
Decatur.	
Demopolis	*41
Dothan	4, 18, *39+, 60-
Dozier	*2-
Florence	15, 26, *36-
Gadsden	44+, 60
Gulf Shores	55
Huntsville	19, *25+, 31+, 48-
Huntsville-Decatur	54
Louisville	*43+
Mobile	5+, 10+, 15+, 21+, *31, *42, and 61
Montgomery	12, 20, *26+, 32, 45-, *63
Mount Cheaha	*7-
Munford	*16-
Opelika	50, 66
Ozark	34
Selma	8, 29-
Troy	67
Tuscaloosa	23-, 33, *39-
Tuscumbia	52+
Tuskegee	22-

ALASKA

	Channel No.
Anchorage	2-, 4-, 5, *7-, *9, 11, 13-, and 33
Bethel	*4
Dillingham	*2, 10
Fairbanks	2+, 7+, *9+, 11+, 13+
Juneau	*3, 8, 10
Ketchikan	2, 4, *9
North Pole	4+
Seward	3-,
Sitka	13

ARIZONA

[See footnotes at end of tables]

	Channel No.
Ajo	*23-
Coolidge	*43
Douglas	3, *28
Flagstaff	2, 4+, 9, 13, and *16
Globe	*14+
Green Valley	46
Holbrook	11+, *18+
Kingman	6-, *14-
Lake Havasu City	34+
McNary	*22+
Mesa	12-
Nogales	*16+
Page	*17

ARIZONA—Continued

[See footnotes at end of tables]

	Channel No.
Parker	*17-
Phoenix	3+, 5-, *8+, 10-, 15-, 21, 33, *39, 45, 61
Prescott	7, *19
Safford	*23+
Sierra Vista	58
Tolleson	51
Tucson	4-, *6+, 9-, 13-, 18-, *27-, 40
Tucson-Nogales	[2] 11
Yuma	11-, 13+, *16-

ARKANSAS

	Channel No.
Arkadelphia	*9+
Camden	237A, 246
Cimarron	23
El Dorado	10-, *30+, 43-, and 49-
Eureka Springs	34+
Fayetteville	*13-, 36
Fort Smith	5-, 24+, 40-
Gosnell	46
Harrison	31+
Hot Springs	*20, 26
Jonesboro	8-, *19+, 48+
Little Rock	*2-, 4, 7-, 11, 16-, *36, and 42
Mountain Home	43+
Mountain View	*6-
Newark	*17
Pine Bluff	25-, 38-
Rogers	51-
Russellville	*28+
Springdale	57

CALIFORNIA

[See footnotes at end of tables]

	Channel No.
Alturas	13+
Anaheim	56-
Arcata	23
Avalon	54
Bakersfield	17, 23-, 29, *39-, 45, 65+
Barstow	*35+, 64
Big Bear Lake	59+
Bishop	*14-, 20+
Blythe	*22-
Brawley	*26
Calipatria	54
Ceres	*23+
Chico	12-, *18, 24+, *46-
Clovis	43
Coalinga	*27-
Concord	42
Corona	52
Cotati	*22-
El Centro	7+, 9+
Eureka	3-, 6-, *13-, and 29
Fort Bragg	8-
Fresno	*18+, 24, 30+, 47, 53,
Hanford	21
Huntington Beach	*50-
Indio	*19+
Los Angeles	2, 4, 5, 7, 9, 11, 13, 22, *28, 34, *58-, *68-
Merced	51
Modesto	19-

CALIFORNIA—Continued

[See footnotes at end of tables]

	Channel No.
Novato	68
Oakland	2+
Ontario	46
Oroville	28
Oxnard	63+
Palm Springs	36-, 42
Paradise	30
Porterville	61
Rancho Palos Verdes	44+
Redding	7, *9, 16
Ridgecrest	*25
Riverside	62
Sacramento	3, *6, 10, 29-, 31-, 40-, *52
Salinas-Monterey	8+, 35-, 46-, *56, 67-
San Bernardino	18-, *24-, 30
San Diego	8, 10, *15, 39, 51, 69
San Francisco	4-, 5+, 7-, *9+, 14+, 20-, 26-, *32+, 38, 44-
San Jose	11+, 36, 48-, *54, 65
San Luis Obispo	6+, *15+, and 33
San Mateo	*60
Sanger	59
Santa Anna	40,
Santa Barbara	3-, 14,1 *20,1 , 38, and *55
Santa Cruz	*16-
Santa Maria	12+, 42+
Santa Rosa	50-, *62
Stockton	13+, 58, 64
Susanville	*14
Twentynine Palms	31
Vallejo-Fairfield	66
Ventura	57
Visalia	26+, *49
Watsonville	*25+
Weaverville	32
Willits	11-
Yosemite Valley	41
Yreka City	*20+

COLORADO

	Channel No.
Alamosa	*16, 47
Boulder	14
Broomfield	*12
Castle Rock	53
Colorado Springs	11, 13, 21
Craig	*16+
Denver	2, 4-, *6-, 7, 9-, 20, 31, *41, 50, 59
Durango	6+, *20-, and 33+
Fort Collins	22-
Glenwood Springs	3-, *19+
Grand Junction	5-, 8-, *18+, 4*, 11+
Gunnison	*17-
La Junta	*22+
Lamar	12-, *14-
Leadville	*15-
Longmont	25
Montrose	10+, *22
Pueblo	5, *8, 26+, 32-
Salida	*23+
Steamboat Springs	24+
Sterling	3, *18+
Trinidad	*24

CONNECTICUT

	Channel No.
Bridgeport	43-, *49-
Hartford	3+, 18-, *24, 61+
New Britain	30+
New Haven	8, 59+, 55
New London	26+
Norwich	*53
Waterbury	20

DELAWARE

	Channel No.
Dover	*34
Seaford	38, *64
Wilmington	*12, 61

DISTRICT OF COLUMBIA

	Channel No.
Washington	4-, 5-, 7+, 9, 20+, *26-, *32+, 50

FLORIDA

	Channel No.
Boca Raton	*63
Bradenton	*19, 66
Bunnell	58
Cape Coral	36
Clearwater	22
Clermont	18-
Cocoa	*52, 68
Crystal River	39-
Daytona Beach	2-, 26
Destin	64+
Fort Lauderdale	51
Fort Myers	11+, 20+, *30
Fort Pierce	*21-, 34
Fort Walton Beach	35, 53, 58
Gainesville	*5-, 20, 61+
High Springs	53+
Hollywood	69
Inverness	64
Islamorada	*9+
Jacksonville	4+, *7, 12+, 17, 30+, 47-, *59
Kenansville	31
Key West	8, *13, and 22+
Lake City	*41
Lake Worth	67
Lakeland	32
Leesburg	*45-, 55
Live Oak	57-
Madison	*36-
Marathon	16+
Marianna	*16+, 51
Melbourne	43+, 56
Miami	*2, 4, 6, 7-, 10+, *17-, 23-, 33, 35, 39, and 45+
Naples	26-, 46
New Smyrna Beach	*15+
Ocala	*29, 51-
Orange Park	25-
Orlando	6-, 9, * 24-, 27, 35+, and 65
Palatka	*42, 63+
Palm Beach	61
Panama City	7+, 13, 28-, *56, 46
Panama City Beach	46
Pensacola	3-, *23, 33+, 44
St. Petersburg	10-, 38, 44+

FLORIDA—Continued

	Channel No.
Sarasota	40
Sebring	*48, 60
Stuart	59
Tallahassee	*11-, 24, 27+, 40+
Tampa	*3, 8-, 13-, *16, 28, and 50
Tequesta	25
Tice	49
Venice	62
West Palm Beach	5, 12, 29+, *42+,

GEORGIA

	Channel No.
Albany	10, 19-, 31-, and 52-
Ashburn	*23+
Athens	*8-, 34
Atlanta	2, 5-, 11+, 17-, *30, 36, 46-, *57+, 69
Augusta	6+, 12-, 26, 54-
Bainbridge	49
Baxley	34
Brunswick	21+
Carrollton	*49-
Carnesville	*52
Cedartown	*65-
Chatsworth	*18-
Cochran	*29+
Columbus	3, 9+, *28, 38+, *48, 54+
Cordele	55+
Dalton	23
Dawson	*25
Draketown	*27-
Elberton	*60+
Flintstone	*41-
Lafayette	*35
Macon	13+, 24+, 41+, *47+, 64-
Monroe	63
Pelham	*14-
Perry	58+
Rome	14+
Royston	*22+
Savannah	3, *9-, 11, 22,
Thomasville	6
Toccoa	32-, *68-
Valdosta	*33, 44-
Vidalia	*18+
Warm Springs.	
Warner Robbins	35-
Waycross	*8+
Wrens	*20-
Young Harris	*51-

HAWAII

	Channel No.
Hilo (Hawaii)	2, *4, 9, 11, 13, 14+, 20+, 26+, *32+, *38+
Honolulu (Oahu)	2+, 4-, 5, 9-, *11+, 13-, 14, 20, 26, 32, *38, and *44.
Kailua	50
Kailua-Kona (Hawaii)	6
Kaneohe	66+
Lihue (Kauai)	3+, *8-, 10+, 12-, 15-, *21-, *27-, *67
Wailuku (Maui)	3, 7, *10, 12, 15, 21, *27, *33, 39
Waimanalo	56

IDAHO

	Channel No.
Boise	2, *4+, 7, 14
Burley	*17+
Caldwell	9-
Coeur d'Alene	*26+
Filer	*19-
Grangeville	*15-
Idaho Falls	3, 8+, 20, *33+
Lewiston	3-
Moscow	*12-
Nampa	6, 12+
Preston	*28
Pocatello	6-, *10, 15, 25+, 31-
Sandpoint	*16+
Sun Valley	5-
Twin Falls	11, *13-, 35
Weiser	*17

ILLINOIS

[See footnotes at end of tables]

	Channel No.
Aurora	60
Bloomington	43
Carbondale	*8
Champaign	3+, 15-
Charleston	*51+
Chicago	2-, 5, 7, 9+, *11, *20, 26, 32, 38-, 44
Danville	68
Decatur	17, 23-
DeKalb	*33, *48-
East St. Louis	46
Edwardsville	*18-
Elgin	[4] 66+
Freeport	23, *65-
Galesburg	67
Harrisburg	3
Jacksonville	*14
Joliet	[1] 14-, 66+
Kankakee	*54-
LaSalle	35
Macomb	*22+
Marion	27
Moline	8, *24-
Mount Vernon	13+
Olney	*16-
Paris	46+
Peoria	19, 25+, 31+, *47-, 59+
Pontiac	53
Quincy	10-, 16+, *27+
Rockford	13, 17+, 39
Rock Island	4+
Springfield	20+, 49-, 55+, *65+
Streator	*63
Urbana	*12-, 27-
Vandalia	*21

INDIANA

	Channel No.
Anderson	67+
Angola	63
Bloomington	4, *30-, 42+ and 63+
Elkhart	28+
Evansville	7, *9+, 14-, 25-, and 44
Fort Wayne	15+, 21+, 33-, *39-, 55
Gary	50, *56+
Hammond	62+
Indianapolis	6, 8-, 13-, *20-, 40, 59-, *69

INDIANA—Continued

	Channel No.
Kokomo	29-
Lafayette	18, *24
Madison	*60+
Marion	23
Muncie	49, *61
Richmond	43+
Salem	58+
South Bend	16, 22, *34-, 46
Terre Haute	2+, 10, *26-, 38
Vincennes	*22-

IOWA

	Channel No.
Ames	5, 23-, *34+
Burlington	26-, *57-
Carroll	*18-, 30+, and 52
Cedar Rapids	2, 9-, 28+, and 48-
Centerville	*31-
Council Bluffs	*32
Davenport	6+, 18+, 30-, *36+
Decorah	*14+
Des Moines	8-, *11+, 13-, 17+, *43-, 63-, 69
Dubuque	16-, *29-, 40-
Estherville	*49+
Fort Dodge	*21
Fort Madison	*38+
Hampton	50
High Point	*14-
Iowa City	*12+, 20-
Keokuk	*44+
Keosauqua	*54+
Lansing	*41+
Mason City	3+, *24+
Mount Ayr	*25-
Newton	39+
Ottumwa	15+, *33-
Red Oak	*36
Rock Rapids	*25+
Sibley	*33
Sioux City	4-, 9, 14, *27-, 44
Spirit Lake	*38
Waterloo	7+, 22-, *32-

KANSAS

	Channel No.
Chanute	*30+
Cimarron	23
Colby	4
Columbus	*48-
Dodge City	*21-
Emporia	*25+
Ensign	6+
Fort Scott	20+
Garden City	11+, 13-, *18
Goodland	10
Great Bend	2
Hays	7-, *9
Hoisington	14
Hutchinson	*8, 12, 36+
Junction City	31
Lakin	*3
Lawrence	38
Liberal	5+
Manhattan	*21
Oakley	*15-
Parsons	*39

KANSAS—Continued

	Channel No.
Phillipsburg	*22-
Pittsburg	7+ and 14
Pratt	*32+
Randall.	
Salina	18+, 34-, 44
Sedan	*28
Topeka	*11, 13+, 27, 43, 49
Wichita	3-, 10-, *15+, 24-, 33, *42

KENTUCKY

	Channel No.
Ashland	*25, 50-, 61+
Beattyville	65
Blanco	52+
Bowling Green	13, *24-, 40+, *53-, 59+
Campbellsville	34
Covington	*54+
Danville	56
Elizabethtown	*23+
Harlan	44-
Hazard	*35+, 57-
Hopkinsville	51
Lexington	18+, 27-, 36, *46, 62
Louisville	3-, 11, *15, 21-, 32-, 41+, *68+
Madisonville	19-, *35-, and 57+
Morehead	*38+, 67-
Murray	*21+, 38
Newport	19+
Owensboro	31-, 48, 61+
Owenton	*52+
Paducah	6+, 29 and 49
Paintsville	69+
Pikeville	*22-, 51+
Somerset	16, *29+

LOUISIANA

	Channel No.
Alexandria	5, *25+, 31+, 41+
Baton Rouge	2, 9-, *27+, 33-, and 44+
Columbia	11+
De Ridder	*23-
Hammond	62+
Houma	11
Lafayette	3+, 10, 15, *24
Lake Charles	7-, *18-, 29-
Minden	21+
Monroe	8+, *13,
Morgan City	*14+
Natchitoches	*20+
New Iberia	36-
New Orleans	4+, 6, 8-, * 12, 20-, 26, * 32+, 38+, and 49
Shreveport	3-, 12, *24-, 33, and 45+
Slidell	54+
Tallulah	*19
West Monroe	14-, 39+

MAINE

	Channel No.
Augusta	*10-
Bangor	2-, 5+, 7-
Biddeford	*26-
Calais	*13-
Fort Kent	*46+

MAINE—Continued

	Channel No.
Fryeburg	*18+
Houlton	*25+
Kittery	*39
Lewiston	35-
Millinocket	*44-
Orono	*12-
Poland Spring	8-.
Portland	6-, 13+, 51
Presque Isle	8, *10+, 62+
Rumford	*43+
Waterville	23-

MARYLAND

	Channel No.
Annapolis	*22+
Baltimore	2+, 11-, 13+, 24+, 45, 54, *67-
Cumberland	52+, 65
Frederick	*62
Hagerstown	25-, *31, and 68+
Oakland	*36+
Salisbury	16+, *28-, 47-
Waldorf	*58+

MASSACHUSETTS

[See footnotes at end of tables]

	Channel No.
Adams	19
Boston	*2+, 4+, 5-, 7+, 25+, 38, *44, 68+
Cambridge	56
Greenfield	32+
Lawrence	62
Marlborough	66
New Bedford	6+, 28-, *34
North Adams	*35
Norwell	46+
Pittsfield	51+
Springfield	22, 40, *57+
Vineyard Haven	58+
Worcester	14, [1] 27, *48+,

MICHIGAN

	Channel No.
Alpena	*6, 11
Ann Arbor	31+, *58+
Bad Axe	* 15-, 41-
Battle Creek	41+, and 43-
Bay City	5-, 61+
Cadillac	9, *27, 33
Calumet	5-, *22-
Cheboygan	4+
Detroit	2+, 4, 7-, 20+, 50-, *56, 62
East Lansing	*23-, *69-
Escanaba	3+
Flint	12-, *28-, 66-
Grand Rapids	8+, 13+, 17-, *35+
Iron Mountain	8-, *17+
Ironwood	*15-, 24+
Ishpeming	10
Jackson	18+
Kalamazoo	3-, *52+, 64
Lansing	6-, 47, 53-
Manistee	*21
Manistique	*15+

MICHIGAN—Continued

	Channel No.
Marquette	6-, *13, 19
Mount Clemens	38+
Mount Pleasant	*14
Muskegon	54+
Onondaga	10-
Petoskey	*23+
Port Huron	46+
Saginaw	25-, 49-
Sault Ste. Marie	8, 10+, *32-
Traverse City	7+, 29-
University Center	*19+.
Vanderbilt	45
West Branch	*24

MINNESOTA

	Channel No.
Alexandria	7, * 24, and 42
Appleton	*10-
Austin	6-, *15-
Bemidji	*9, 26+
Brainerd	*22
Crookston	*33
Duluth	3, *8, 10+, 21+, 27-
Ely	*17-
Fairmont	*16+
Hibbing	13-, *18-
International Falls	11, *35+
Mankato	12, *26-
Marshall	*30-
Minneapolis-St. Paul	*2-, 4, 5-, 9+, 11-, *17, 23+, 29+, and 45
Redwood Falls	43
Rochester	10, 47-
St. Cloud	19, *25-, 41
St. James	32+
Thief River Falls	10, *30
Wadena	*20-
Walker	12-, 38-
Wilmar	*14-
Winona	*35+, 44-
Worthington	*20

MISSISSIPPI

	Channel No.
Biloxi	13+, *19+,
Booneville	*12-
Bude	*17+
Clarksdale	*21
Cleveland	*31-
Columbia	*45
Columbus	4-, *43
Greenville	15-, 44
Greenwood	6+, *23+
Gulfport	25-
Grenada	22+
Hattiesburg	22, *47
Holly Springs	40
Houston	45+
Jackson	3, 12+, 16, *29+, 40+, and 51
Laurel	7, 18+
Magee	34+
Meridian	11-, *14, 24-, 30-
Mississippi State	*2+
Natchez	*42+, 48
Oxford	*18
Senatobia	*34-

MISSISSIPPI—Continued

	Channel No.
Tupelo	9-, 35+
Vicksburg	35-
West Point	27
Wiggins	43-,56+
Yazoo City	*32-

MISSOURI

	Channel No.
Birchtree	*20-
Bowling Green	*35+
Cape Girardeau	12, 23, *39-
Carrollton	*18
Columbia	8+, 17-*23+
Flat River	*22
Hannibal	7-
Jefferson City	13, 25, *36-
Joplin	12+, 16, *26-
Kansas City	4, 5+, 9+, *19+, 32-, 41-, 50-, 62+, *68-
Kennett	58+
King City	*28-
Kirksville	3-
LaPlata	*21+
Lowry City	*15-
Poplar Bluff	15+, *26+, 55
Rolla	*28
St. Joseph	2-, 16-, 22
St. Louis	2, 4-, 5-, *9, 11-, 24+, 30+, *40-, *46
Sedalia	6
Sikeston	45
Springfield	3+, 10, *21-, 27-, 33--

MONTANA

	Channel No.
Anaconda	2+
Billings	2-, 6, 8, *11, 14, 20+
Bozeman	7-, *9
Butte	*2+, 4, 6+, 18, 24
Cut Bank	*14-
Dillon	*14+
Glendive	5+, 13+, *16-
Great Falls	3+, 5+, 16, 26, *32
Hardin	4+
Havre	9+, 11-, and *18-
Helena	10+, 12, *15+
Joplin	35-, 48, 54-
Kalispell	9-, *29-
Lewistown	13
Miles City	3-, *10
Missoula	8-, *11+, 13-, 17-, and 23-
Wolf Point	*17+

NEBRASKA

	Channel No.
Albion	18, *21+, 24+
Alliance	*13-
Bassett	*7-
Beatrice	23+
Falls City	*24
Grand Island	11-, 17
Hastings	5-, *29+
Hayes Center	6
Hay Springs-Scottsbluff.	4+

NEBRASKA—Continued

	Channel No.
Kearney	13
Lexington	*3+
Lincoln	8+, 10+, *12-, 45, 51
McCook	8-, 16+, 12
Merriman	*12
Norfolk	*19+
North Platte	235, 246, 278
Omaha	3, 6+, 7, 15, *26, 42+, *48-, and 54
Orchard	16
Pawnee	33+
Scottsbluff	10-, 16
Superior	4+

NEVADA

	Channel No.
Elko	10-, *14+
Ely	3-, 6+
Fallon	*25
Goldfield	7-
Henderson	5+
Las Vegas	3, 8-, *10+, 13-, 15+, 21+, and 33+
McGill	*13
Paradise	39+
Pawnee City	*33+
Reno	2, 4, *5, 8, 11, 21+, and 27+
Tonopah	9-, *17+
Winnemucca	7+, *15-
Yerington	*16+

NEW HAMPSHIRE

[See footnotes at end of tables]

	Channel No.
Berlin	*40-
Concord	21+
Derry	50-
Durham	*11
Hanover	*15+
Keene	*52+
Littleton	*49+
Manchester	9-,
Merrimack	60+
Portsmouth	[1] 17-

NEW JERSEY

	Channel No.
Atlantic City	*36, 53+, 62-
Burlington	48-
Camden	*23+
Linden-Newark	47+
Montclair	*50+
Newark	13-, 68
New Brunswick	*58
Newton	63
Paterson	41-
Secaucus	9+
Trenton	*52-
Vineland	59-, 65-
West Milford	*66-
Wildwood	40

NEW MEXICO

	Channel No.
Alamogordo	*18-
Albuquerque	4+, *5+, 7+, 13+, 14-, 23-, *32+, 41, 50
Carlsbad	6-, *15+, 25-
Clayton	*17
Clovis	12--
Deming	*16
Farmington	3, 12+, *15+
Gallup	*8-, 10
Hobbs	29+
Las Cruces	*22-, 48+
Lovington	*19
Portales	*3+
Raton	*18-
Roswell	8, 10-, 21-, 27-, *33+
Santa Fe	2+, *9+, 11-, 19-
Silver City	6, 10+, *12
Socorro	*15-
Tucumcari	*15

NEW YORK

[See footnotes at end of tables]

	Channel No.
Albany-Schenectady	6, 10-, 13, *17+, 23-, *29+, 45
Amsterdam	*39+, 55
Arcade	62-
Batavia	51-
Bath	14-
Binghamton	12-, 34, 40-, *46+
Buffalo	2, 4, 7+, 17, *23, 29-, 49-
Carthage	7-
Corning	*30, 48+
Elmira	18+, 36-
Garden City	*21-
Glens Falls	*58-
Ilion	67-
Ithaca	52, *65+
Jamestown	26+, *46
Kingston	62+
Lake Placid	*34+
New York	2, 4, 5+, 7, 11+, *25, 31-
North Pole	5
Norwood	*18
Oneonta	[1] 15, *42
Plattsburg	*57
Poughkeepsie	54+
Riverhead	55+
Rochester	8, 10+, 13-, *21, 31+, *61+
Saranac Lake	61-
Smithtown	67
Springville	67+
Syracuse	3-, 5-, 9-, *24+, 43+, 56+, 68-
Utica	2-, 4-, 20+, 33, *59
Watertown	*16, 50+
Waverly	*57-

NORTH CAROLINA

	Channel No.
Andrews	*59
Asheville	13-, 21+, *33, 62+
Belmont	46+
Bryson City	*67
Burlington	16
Canton	*27
Chapel Hill	*4+
Charlotte	3, 9+, 18, 36, *42+

NORTH CAROLINA—Continued

	Channel No.
Columbia	*2
Concord	*58
Cullowhee	50+
Durham	11+, 28+
Fayetteville	40+, 62
Forest City	66+
Franklin	*56+
Goldsboro	17-
Greensboro	2-, 48-, 61
Greenville	9-, 14, *25, and 38+
Hickory	14-
High Point	8-, *32+, 67+
Jacksonville	*19, 35
Kannapolis	64-
Laurel Hill	59+
Lexington	20
Linville	*17
Lumberton	*31
Manteo	4
Morehead City	8+
Morganton	23-
New Bern	12+
Raleigh	5, 22, *34, 50+
Roanoke Rapids	*36-
Rockingham	*53
Rocky Mount	47+
Washington	7
Waynesville	59
Wilmington	3-, 6, 26-, *39-
Wilson	30-
Winston-Salem	12, *26+, 45

NORTH DAKOTA

	Channel No.
Bismarck	*3, 5, 12-, 17-, 26+
Devils Lake	8+, *22+
Dickinson	2+, *9-, 7
Ellendale	*19-
Fargo	6, 11+, *13, 15-
Grand Forks	*2, 14+, 27+
Jamestown	7-, *23
Minot	*6+, 10-, 13-, 14-, 24
Pembina	12
Valley City	4-
Williston	*4, 8-, 11-, *15-

OHIO

[See footnotes at end of tables]

	Channel No.
Akron	23+, *49+, 55-
Alliance	*45+
Ashtabula	[1] 15
Athens	20*, 63-
Bowling Green	*27+
Cambridge	*44-
Canton	17-, 67
Chillicothe	53
Cincinnati	5-, 9, 12, *48-, 64-
Cleveland	3, 5+, 8, *25+, 61
Columbus	4-, 6+, 10+, 28-, *34, *56-
Dayton	2, 7+, *16+, 22+, 45
Defiance	65+
Hillsboro	*24+, 55+
Lima	35-, 44+, *57+, 17
Lorain	43
Mansfield	*47+, 68-

OHIO—Continued

[See footnotes at end of tables]

	Channel No.
Newark	*31-, 51
Oxford	*14+
Portsmouth	30, *42-
Sandusky	52
Shaker Heights	19.
Springfield	26+, *66
Steubenville	9+, *62+
Toledo	11-, 13, 24-, *30+, 36-, and 40-
Xenia	32
Youngstown	21-, 27, 33, *58
Zanesville	18-

OKLAHOMA

[See footnotes at end of tables]

	Channel No.
Ada	10+, *22
Altus	*27
Ardmore	*17, *28-
Bartlesville	17+
Cheyenne	12+
Claremore	*35
Duncan	40+
Elk City	*15-, and 31
Enid	20-, *26+
Eufaula	*3
Grove	45+
Guymon	9+, *16
Hugo	42+, [1] *15+, *48+
Lawton	7+, *36-, 16-, 45
McAlester	*32-
Miami	*18-
Muskogee	19
Norman	46-
Oklahoma City	4-, 5, 9-, *13, 14-, 25-, 34-, 43+, 52, and 62+
Okmulgee	44-
Sayre	8+
Shawnee	30
Tulsa	2+, 6+ 8-, *11-, 23, 41+, 47, 53, and *63
Woodward	*17-, 35+

OREGON

	Channel No.
Astoria	*21
Bend	*3+, *15, 21+
Brookings	*14-
Burns	*18
Coos Bay	11, 23+, 41
Corvallis	*7-
Eugene	9+, 13, 16+, *28-, and 34
Grants Pass	*18+, 30+
Klamath Falls	2-, *22+, and 31
LaGrande	*13+, 16
Medford	5, *8+, 10+, 12+, and 26+
North Bend	*17+
Pendleton	11-
Portland	2, 6+, 8-, *10, 12, 24+, *30, 40-
Roseburg	4+, 36, 46+
Salem	22, 32
The Dalles	*17-

PENNSYLVANIA

[See footnotes at end of tables]

	Channel No.
Allentown	*39, 69
Altoona	10-, 23-, 47, *57+
Bethlehem	60-
Clearfield	*3+
Erie	12, 24, 35+, *54+, 66+
Greensburg	40+
Harrisburg	21+, 27-, *33+
Hazleton	56
Jeanette	19+
Johnstown	6, 8-, 19+, *28+
Lancaster	8+, 15+
Lebanon	55-
Philadelphia	3, 6-, 10, 17-, 29, *35-, 57
Pittsburgh	2-, 4+, 11, *13-, *16, 22, 53+
Reading	51
Red Lion	49+
Scranton	16-, 22-, 38+, *44-, 64
State College	29+, and *59+
Wilkes Barre	28
Williamsport	[1] 20-, 53-
York	43,

RHODE ISLAND

[See footnotes at end of tables]

	Channel No.
Block Island	69-
Providence	10+, 12+, [1] 16, *36, 64+

SOUTH CAROLINA

	Channel No.
Aiken	*44
Allendale	*14
Anderson	40
Beaufort	*16-
Charleston	2+, 4, 5+, *7-, 24, and 36+
Columbia	10-, 19+, 25-, *35+, 47, 57-
Conway	*23+
Florence	13+, 15-, 21, *33+
Georgetown	*41-
Greenville	4-, 16+, *29
Greenwood	*38, 48+
Hardeeville	28-
Myrtle Beach	32, 43+
Rock Hill	30+, 55-
Spartanburg	7+, 49
Sumter	*27- and 63-

SOUTH DAKOTA

	Channel No.
Aberdeen	9-, *16-
Allen	22+
Brookings	*8
Eagle Butte	*13
Florence	3-
Huron	12+
Lead	5-, 11+
Lowry	*11-, 56, 62+, 68-
Martin	*8-
Mitchell	5+
Pierre	4, *10+
Rapid City	3+, 7+, *9, 15-, 21-
Reliance	6-

SOUTH DAKOTA—Continued

	Channel No.
Seneca	*2-
Sioux Falls	11, 13+, 17-, *23, 36+, 46
Vermillion	*2+

TENNESSEE

	Channel No.
Athens	*24
Chattanooga	3+, 9, 12+, *45, 61-
Cleveland	53
Cookeville	*22, 28+
Crossville	20+, *55+
Fayetteville	*29-
Greeneville	39-
Hendersonville	50
Jackson	7+, 16+, *32+
Jellico	54-
Johnson City	11-, *41
Kingsport	19
Knoxville	6, 8, 10+, *15-, 26-, 43+
Lebanon	66--
Lexington	*11+
Livingston	60-
McMinnville	33+
Memphis	3-, 5+, *10+, 13+, *14+, 24, 30, 50+, and *56
Murfreesboro	39+
Nashville	2-, 4+, 5, *8+, 17+, 30+, *42, and 58
Sneedville	*2+
Tazewell	48+
Tullahoma	64+
Union City	41

TEXAS

	Channel No.
Abilene	9+, 15, *26+, 32+
Alpine	12-
Alvin	67
Amarillo	*2+, 4, 7, 10, 14+
Austin	7+, *18+, 24, 36, 42-, and 54
Bay City	*43+
Baytown	57+
Beaumont	6-, 12-, 21, *34-
Belton	46-
Big Spring	4-, *14
Blanco	52+
Boquillas	8-
Brady	13
Brownsville	23
Bryan	3, 28
Childress	*21
College Station	*15, 50-
Conroe	49+ and 55+
Corpus Christi	3-, 6, 10-, *16, 28-, 38+
Crockett	40
Dallas	4+, 8, *13+, 27-, 33+, 39, and 58
Decatur	29
Del Rio	10, *24+
Denton	*2
Eagle Pass	16+
El Paso	4, 7, 9, *13, 14, 26+, *38--, and 65
Farwell	18+
Fort Stockton	5+
Fort Worth	5+, 11-, 21-, *31+, and 52-
Fredericksburg	2+
Galveston	*22, 48
Garland	23

TEXAS—Continued

	Channel No.
Greenville	47+
Harlingen	4+, *44, 60
Houston	2-, *8, 11+, 13-, *14, 20, 26, 39-, and 61
Irving	49
Jacksonville	56
Katy	51+
Kennville	35+
Killeen	62
Lake Dallas	55
Laredo	8, 13, 27-, *39
Liano	14-
Longview	16+, 51-, and 54+
Lubbock	*5-,11,13-, 16+, 28, and 34-
Lufkin	9
McAllen	48
Marfa	3
Marshall	*22-, 35+
Midland	2-, 18
Mineola	64+
Monahans-Odessa	9-
Nacogdoches	19-, *32
Odessa	7-, 24-, 30, *36+, and 42
Palestine	43
Paris, Texas	36+, 42+
Port Arthur	4-
Presidio	7+
Rio Grande City	40
Rosenberg	45
San Angelo	3-, 6, 8+, *21+
San Antonio	4, 5, *9-, 12+, *23-, 29+, 41+, and 60+
Sherman	12-, 20-, *26-
Snyder	17-
Sonora	11+
Sulphur Springs	18
Sweetwater	12
Temple	6+,
Texarkana	6, 17-, *34
Tyler	7,14+, *38, and 60
Uvalde	26-
Victoria	19+, 25, 31, and *47
Waco	10+, 25+, *34+, 44-
Weslaco	5-
Wichita Falls	3+, 6-, 18-, *24
Wolfforth	22-

UTAH

	Channel No.
Cedar City	4, *16+
Logan	12-, *22
Moab	*14+
Monticello	*16-
Ogden	*9+, *18-, 24, 30
Price	3+, *15
Provo	*11-, 16, 32
Richfield	8+, *19
Salt Lake City	2-, 4-, 5+, *7-, 13+, 14-, 20+, *26-
St. George	12, *18-
Vernal	6, *17+

VERMONT

	Channel No.
Burlington	3, 22+, *33-, 44+
Hartford	31
Rutland	*28+

VERMONT—Continued

	Channel No.
St. Johnsbury	*20-
Windsor	*41

VIRGINIA

	Channel No.
Arlington	14-
Ashland	65+
Blacksburg	*43, 65-
Bristol	5+, *28-
Bluefield	*63+
Charlottesville	29-, *41-, 64+
Courtland	*52
Danville	24-, 44+, *56
Farmville	*31-
Fairfax	*56-
Fredericksburg	69+
Front Royal	*42
Goldvein	*53
Grundy	68
Harrisonburg	3-
Lynchburg	13, 21-, *54+
Manassas	66+
Marion	*52-
Norfolk-Portsmouth-Newport News-.	3+, 10+, 13-, *15, 27, 33, 49- and
Hampton	*55+
Norton	*47-
Onancock	*25+
Petersburg	8
Richmond	6+, 12-, *23, 35+, *57-, 63
Roanoke	7-, 10, *15+, 27+, 38-, and 60
Staunton	*51-
Virginia Beach	21+, 43+
West Point	*46

WASHINGTON

	Channel No.
Anacortes	64
Bellevue	33+, 51+
Bellingham	12+, 24, *34
Centralia	*15+
East Wenatchee	249A
Everett	16-
Kennewick	42+
Morton	39
Olympia	67
Pasco	19-
Pullman	*10-, 24+
Richland	25, *31
Rochester	26+
Seattle	4, 5+, 7, *9, 22+, 45+, and *62
Spokane	2-, 4-, 6-,*7+22, 28-, and 34-
Tacoma	11+, 13-, 20, *28, and *56
Vancouver	*14, 49
Walla Walla	9+
Wenatchee	*18+, 27
Yakima	23+, 29+, 35, *47

WEST VIRGINIA

[See footnotes at end of tables]

	Channel No.
Bluefield	6-, 40-
Charleston	8+, 11+, 23, 29, *49-

WEST VIRGINIA—Continued

[See footnotes at end of tables]

	Channel No.
Clarksburg	12+, 46-
Fairmont	66-
Grandview	*9-
Huntington	3+, 13+, *33+
Keyser	*30+
Lewisburg	59
Martinsburg	*44, 60+
Morgantown	*24-
Oak Hill	4
Parkersburg	15-, 39+, *57
Weirton	*50+
Weston	5
Wheeling	7, [1] 14, *41
Williamson	*31+

WISCONSIN

	Channel No.
Antigo	46
Appleton	32+
Bloomington	*49
Chippewa Falls	48
Crandon	4
Eagle River	34
Eau Claire	13+, 18
Fond du Lac	68
Green Bay	2+, 5+, 11+, 26+, *38, 44+
Highland	*51
Janesville	57+
Kenosha	55-
Kieler	*46+
LaCrosse	8+, 19+, 25, *31
Madison	3, 15, *21-, 27+, 47+
Manitowoc	16+
Marshfield	39-
Mayville	52
Menomonie	*28-
Milwaukee	4-, 6, *10+, 12, 18-, 24+, 30, *36, and 58
Oshkosh	22+and *50+
Park Falls	*36+
Racine	49+
Rhinelander	12+
Rice Lake	16
Richland Center	45+
Sheboygan	28
Sturgeon Bay	42
Superior	6+, 40
Suring	14-
Tomah	43
Wausau	7-, 9, *20+, 33-
Wittenberg	55

WYOMING

	Channel No.
Casper	2+, *6+, 13+, 14-, 20-
Cheyenne	5+, *17, 27-, 33-
Jackson	2, 11+
Lander	*4, 5
Laramie	*8+
Rawlins	11-
Riverton	10+
Rock Springs	13
Sheridan	7, 9+, 12+

U.S. TERRITORIES AND POSSESSIONS

[See footnotes at end of tables]

	Channel No.
Guam:	
Agana	*4, 8, 10, *12
Tamuning	14, 20
Puerto Rico:	
Aguada	50
Aguadilla	*32, 44
Arecibo-Aguadilla	12+
Arecibo	54, 60
Bayamon	36
Caguas	11-, *58
Carolina	52
Cayey.	
Fajardo	13+, 34, and *40
Guayama	46
Humacoa	68
Mayaguez	3+, 5-, 16, 22
Naranjito	64
Ponce	7+, 9-, 14, 20, *26, 48
San Juan	2+, 4-, *6+, 18, 24, 30, and *62
San Sebastian	38
Utuado.	
Yauco	42
Virgin Islands:	
Charlotte Amalie	10-, 17, *23, 43
Charlotte Amalie-Christiansted.	*3, [6] *12
Christiansted	8+, 15, *21, 27
Frederiksted	66

Footnotes to tables:

[1] Following the decision in Docket No. 18261, channels so indicated will not be available for television use until further action by the Commission.

[2] Operation on this channel is subject to the conditions, terms, and requirements set out in the Report and Order in Docket No. 19075, RM–1645, adopted January 5, 1972, released January 7, 1972, FCC 72–19.

[3] [Reserved]

[4] This channel is not available for use at Elgin unless and until it is determined by the Commission that it is not needed for use at Joliet, Ill.

[5] [Reserved]

[6] Stations using these allotments shall limit radiation toward stations on the same channel in Puerto Rico, to no more than the effective radiated power which would be radiated by an omnidirectional radio station using maximum permissible effective radiated power for antenna height above average terrain, at the minimum distances from such stations specified in Sec. 73.610(b). The FCC shall consider the status of the negotiations with the appropriate British authorities concerning these allotments when the applications for construction permits come before the FCC.

(Sec. 5, 48 Stat. 1068; 47 U.S.C. 155)

[28 FR 13660, Dec. 14, 1963]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 73.606, see the List of CFR Sections Affected in the Finding Aids section of this volume.

§ 73.607 Availability of channels.

Applications may be filed to construct TV broadcast stations only on the channels designated in the Table of Allotments (§ 73.606(b)) and only in the communities listed therein. Applications which fail to comply with this requirement, whether or not accompanied by a petition to amend the Table, will not be accepted for filing. However, applications specifying channels which accord with publicly announced FCC Orders changing the Table of Allotments will be accepted for filing even though such applications are tendered before the effective dates of such channel changes.

[51 FR 44070, Dec. 8, 1986]

§ 73.609 Zones.

(a) For the purpose of allotment and assignment, the United States is divided into three zones as follows:

(1) Zone I consists of that portion of the United States located within the confines of the following lines drawn on the U.S. Albers Equal Area Projection Map (based on standard parallels 29½° and 45½°; North American datum): Beginning at the most easterly point on the State boundary line between North Carolina and Virginia; thence in a straight line to a point on the Virginia-West Virginia boundary line located at north latitude 37°49′ and west longitude 80°12′30″; thence westerly along the southern boundary lines of the States of West Virginia, Ohio, Indiana, and Illinois to a point at the junction of the Illinois, Kentucky, and Missouri State boundary lines; thence northerly along the western boundary line of the State of Illinois to a point at the junction of the Illinois, Iowa, and Wisconsin State boundary lines; thence easterly along the northern State boundary line of Illinois to the 90th meridian; thence north along this meridian to the 43.5° parallel; thence east along this parallel to the United States-Canada border; thence southerly and following that border until it again intersects the 43.5° parallel; thence east along this parallel to the 71st meridian; thence in a straight line to the intersection of the 69th meridian and the 45th parallel; thence east along the 45th parallel to the Atlantic Ocean. When any of the above lines pass through a city, the city shall be considered to be located in Zone I. (See Figure 1 of § 73.699.)

(2) Zone II consists of that portion of the United States which is not located in either Zone I or Zone III, and Puerto Rico, Alaska, Hawaiian Islands and the Virgin Islands.

(3) Zone III consists of that portion of the United States located south of a line, drawn on the United States Albers Equal Area Projection Map (based on standard parallels 29.50 and 45.50 North American datum), beginning at a point on the east coast of Georgia and the 31st parallel and ending at the United States-Mexican border, consisting of arcs drawn with a 241.4 kilometer (150 mile) radius to the north from the following specified points:

	North latitude	West longitude
(a)	29°40′00″	83°24′00″
(b)	30°07′00″	84°12′00″
(c)	30°31′00″	86°30′00″
(d)	30°48′00″	87°58′30″
(e)	30°00′00″	90°38′30″
(f)	30°04′30″	93°19′00″
(g)	29°46′00″	95°05′00″
(h)	28°43′00″	96°39′30″
(i)	27°52′30″	97°32′00″

When any of the above arcs pass through a city, the city shall be considered to be located in Zone II. (See Figure 2 of § 73.699.)

[28 FR 13660, Dec. 14, 1963, as amended at 33 FR 15422, Oct. 17, 1968; 50 FR 23697, June 5, 1985; 51 FR 44070, Dec. 8, 1986]

§ 73.610 Minimum distance separations between stations.

(a) The provisions of this section relate to allotment separations and station separations. Petitions to amend the Table of Allotments (§ 73.606(b)) (other than those also expressly requesting amendment of this section or § 73.609) will be dismissed and all applications for new TV broadcast stations or for changes in the transmitter sites of existing stations will not be accepted for filing if they fail to comply with the requirements specified in paragraphs (b), (c) and (d) of this section.

NOTE: Licensees and permittees of television broadcast stations which were operating on April 14, 1952 pursuant to one or more separations below those set forth in § 73.610 may continue to so operate, but in no event may they further reduce the separations below the minimum. As the existing separations of such stations are increased, the new separations will become the required minimum separations until separations are reached which comply with the requirements of § 73.610. Thereafter, the provisions of said section shall be applicable.

(b) Minimum co-channel allotment and station separations:

(1)

Zone	Kilometers	
	Channels 2–13	Channels 14–69
I	272.7 (169.5 miles)	248.6 (154.5 miles)
II	304.9 (189.5 miles)	280.8 (174.5 miles)
III	353.2 (219.5 miles)	329.0 (204.5 miles)

(2) The minimum co-channel distance separation between a station in one zone and a station in another zone shall be that of the zone requiring the lower separation.

(c) Minimum allotment and station adjacent channel separations applicable to all zones:

(1) Channels 2–13 95.7 kilometers (59.5 miles). Channels 14–69 87.7 kilometers (54.5 miles).

(2) Due to the frequency spacing which exists between Channels 4 and 5, between Channels 6 and 7, and between Channels 13 and 14, the minimum adjacent channel separations specified above shall not be applicable to these pairs of channels (see § 73.603(a)).

(d) In addition to the requirements of paragraphs (a), (b) and (c) of this section, the minimum assignment and station separations between stations on Channels 14–69, inclusive, as set forth in Table II of § 73.698 must be met in either rule-making proceedings looking towards the amendment of the Table of Assignments (§ 73.606(b)) or in licensing proceedings. No channel listed in column (1) of Table II of § 73.698 will be assigned to any city, and no application for an authorization to operate on such a channel will be granted, unless the distance separations indicated at the top of columns (2) through (7), inclusive, are met with respect to each of the channels listed in those columns and parallel with the channel in column (1).

(e) The zone in which the transmitter of a television station is located or proposed to be located determines the applicable rules with respect to co-channel distance separations where the transmitter is located in a different zone from that in which the channel to be employed is located.

(f) The distances listed below apply only to allotments and assignments on Channel 6 (82–88 MHz). The Commission

will not accept petitions to amend the Table of Allotments, applications for new stations, or applications to change the channel or location of existing assignments where the following minimum distances (between transmitter sites, in kilometers) from any FM Channel 253 allotment or assignment are not met:

MINIMUM DISTANCE SEPARATION FROM FM CHANNEL 253 (98.5 MHz)

Fm Class	TV Zone I	TV Zones II & III
A	17	22
B1	19	23
B	22	26
C3	19	23
C2	22	26
C1	29	33
C	36	41

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[28 FR 13660, Dec. 14, 1963, as amended at 37 FR 25842, Dec. 5, 1972; 44 FR 65765, Nov. 15, 1979; 47 FR 35990, Aug. 18, 1982; 50 FR 23698, June 5, 1985; 51 FR 44070, Dec. 8, 1986; 54 FR 14964, Apr. 14, 1989; 54 FR 16368, Apr. 24, 1989; 54 FR 35340, Aug. 25, 1989]

§ 73.611 Reference points and distance computations.

(a) In considering petitions to amend the Table of Allotments (§ 73.606(b)), the following reference points shall be used by the Commission in determining assignment separations between communities:

(1) Where transmitter sites for the pertinent channels have been authorized in communities involved in a petition to amend the Table of Allotments, separations between such communities shall be determined by the distance between the coordinates of the authorized transmitter sites in the respective communities as set forth in the Commission's authorizations therefor.

(2) Where an authorized transmitter site is available for use as a reference point in one community but not in the other for the pertinent channels, separations shall be determined by the distance between the coordinates of the transmitter site as set forth in the FCC's authorization therefor and the coordinates of the other community as set forth in the publication of the United States Department of the Interior entitled, Index to *The National Atlas of the United States of America*. If this publication does not contain the coordinates for said other community, the coordinates of the main post office thereof shall be used.

(3) Where no authorized transmitter sites are available for use as reference points in both communities for the pertinent channels, the distance between the two communities listed in the above publication shall be used. If said publication does not contain such distance, the separation between the two communities shall be determined by the distance between the coordinates thereof as set forth in the publication. Where such coordinates are not contained in the publication, the coordinates of the main post offices of said communities shall be used.

(4) Where the distance between the reference point in a community to which a channel is proposed to be assigned and the reference point in another community or communities does not meet the minimum separation requirements of § 73.610, the channel may be assigned to such community upon a showing that a transmitter site is available that would meet the minimum separation requirements of § 73.610 and the minimum field strength requirements of § 73.685. In such cases, where a station is not authorized in the community or communities to which measurements from the proposed channel assignment must be made pursuant to § 73.610 a showing should also be made that the distance between suitable transmitter sites in such other community or communities and the proposed transmitter site for the new channel meet the Commission's minimum spacing and coverage requirements.

(b) Station separations in licensing proceedings shall be determined by the distance between the coordinates of the proposed transmitter site in one community and

(1) The coordinates of an authorized transmitter site for the pertinent channel in the other community; or, where such transmitter site is not available for use as a reference point,

(2) The coordinates of the other community as set forth in the Index to *The National Atlas of the United States of America;* or if not contained therein,

(3) The coordinates of the main post office of such other community.

(4) In addition, where there are pending applications in other communities which, if granted, would have to be considered in determining station separations, the coordinates of the transmitter sites proposed in such applications must be used to determine whether the requirements with respect to minimum separations between the proposed stations in the respective cities have been met.

(c) In measuring assignment and station separations involving cities listed in the Table in combination, where there is no authorized transmitter site in any of the combination cities on the channel involved, separation measurements shall be made from the reference point which will result in the lowest separation.

(d) To calculate the distance between two reference points see paragraph (c), § 73.208. However, distances shall be rounded to the nearest tenth of a kilometer.

[52 FR 11655, Apr. 10, 1987]

§ 73.612 Protection from interference.

(a) Permittees and licensees of TV broadcast stations are not protected from any interference which may be caused by the grant of a new station or of authority to modify the facilities of an existing station in accordance with the provisions of this subpart. The nature and extent of the protection from interference accorded to TV broadcast stations is limited solely to the protection which results from the minimum allotment and station separation requirements and the rules and regulations with respect to maximum powers and antenna heights set forth in this subpart.

(b) When the Commission determines that grant of an application would serve the public interest, convenience, and necessity and the instrument of authorization specifies an antenna location in a designated antenna farm area which results in distance separation less than those specified in this subpart, TV broadcast station permittees and licensees shall be afforded protection from interference equivalent to the protection afforded under the minimum distance separations specified in this subpart.

NOTE: The nature and extent of the protection from interference accorded to TV broadcast stations which were authorized prior to April 14, 1952, and which were operating on said date is limited not only as specified above but is further limited by any smaller separations existing between such stations on said date. Where, as a result of the adoption of the Table of Allotments or of changes in transmitter sites made by such stations after said date, separations smaller than the required minimum are increased but still remain lower than the required minimum, protection accorded such stations will be limited to the new separations.

[28 FR 13660, Dec. 14, 1963, as amended at 32 FR 8814, June 21, 1967; 50 FR 23698, June 5, 1985; 51 FR 44070, Dec. 8, 1986]

§ 73.614 Power and antenna height requirements.

(a) *Minimum requirements.* Applications will not be accepted for filing if they specify less than −10 dBk (100 watts) horizontally polarized visual effective radiated power in any horizontal direction. No minimum antenna height above average terrain is specified.

(b) *Maximum power.* Applications will not be accepted for filing if they specify a power which exceeds the maximum permitted boundaries specified in the following formulas:

(1) Channels 2–6 in Zone I:

$$ERP_{Max}=102.57–33.24*Log_{10}(HAAT)$$

And,

$$-10\ dBk \leq ERP_{Max} \leq 20\ dBk$$

(2) Channels 2–6 in Zones II and III:

$$ERP_{Max}=67.57–17.08*\ Log_{10}\ (HAAT)$$

And,

$$10\ dBk \leq ERP_{Max} \leq 20\ dBk$$

(3) Channels 7–13 in Zone I:

$$ERP_{Max}=107.57–33.24*\ Log_{10}\ (HAAT)$$

And,

$$-4.0\ dBk \leq ERP_{Max} \leq 25\ dBk$$

(4) Channels 7–13 in Zones II and III:

$$ERP_{Max}=72.57–17.08*\ Log_{10}\ (HAAT)$$

And,

$$15\ dBk \leq ERP_{Max} \leq 25\ dBk$$

(5) Channels 14–69 in Zones I, II, and III:

ERP_{Max}=84.57–17.08* Log_{10} (HAAT)

And,

27 dBk ≤ ERP_{Max}≤37 dBk

Where:

ERP_{Max}=Maximum Effective Radiated Power measured in decibels above 1 kW (dBk).
HAAT=Height Above Average Terrain measured in meters.

The boundaries specified are to be used to determine the maximum possible combination of antenna height and ERP_{dBk}. When specifying an ERP_{dBk} less than that permitted by the lower boundary, any antenna HAAT can be used. Also, for values of antenna HAAT greater than 2,300 meters the maximum ERP is the lower limit specified for each equation.

(6) The effective radiated power in any horizontal or vertical direction may not exceed the maximum values permitted by this section.

(7) The effective radiated power at any angle above the horizontal shall be as low as the state of the art permits, and in the same vertical plane may not exceed the effective radiated power in either the horizontal direction or below the horizontal, whichever is greater.

(c) *Determination of applicable rules.* The zone in which the transmitter of a television station is located or proposed to be located determines the applicable rules with respect to maximum antenna heights and powers for VHF stations when the transmitter is located in Zone I and the channel to be employed is located in Zone II, or the transmitter is located in Zone II and the channel to be employed is located in Zone I.

[28 FR 13660, Dec. 14, 1963, as amended at 42 FR 20823, Apr. 22, 1977; 42 FR 48881, Sept. 26, 1977; 47 FR 35990, Aug. 18, 1982; 50 FR 23698, June 5, 1985; 56 FR 49707, Oct. 1, 1991; 58 FR 51250, Oct. 1, 1993]

§ 73.615 Administrative changes in authorizations.

In the issuance of television broadcast station authorizations, the Commission will specify the transmitter output power and effective radiated power to the nearest 0.1 dBk. Power specified by kWs shall be obtained by converting dBk to kWs to 3 significant figures. Antenna heights above average terrain will be specified to the nearest meter. Midway figures will be authorized in the lower alternative.

[50 FR 23698, June 5, 1985]

§ 73.621 Noncommercial educational TV stations.

In addition to the other provisions of this subpart, the following shall be applicable to noncommercial educational television broadcast stations:

(a) Except as provided in paragraph (b) of this section, noncommercial educational broadcast stations will be licensed only to nonprofit educational organizations upon a showing that the proposed stations will be used primarily to serve the educational needs of the community; for the advancement of educational programs; and to furnish a nonprofit and noncommercial television broadcast service.

(1) In determining the eligibility of publicly supported educational organizations, the accreditation of their respective state departments of education shall be taken into consideration.

(2) In determining the eligibility of privately controlled educational organizations, the accreditation of state departments of education or recognized regional and national educational accrediting organizations shall be taken into consideration.

(b) Where a municipality or other political subdivision has no independently constituted educational organization such as, for example, a board of education having autonomy with respect to carrying out the municipality's educational program, such municipality shall be eligible for a noncommercial educational television broadcast station. In such circumstances, a full and detailed showing must be made that a grant of the application will be consistent with the intent and purpose of the Commission's rules and regulations relating to such stations.

(c) Noncommercial educational television broadcast stations may transmit educational, cultural and entertainment programs, and programs designed for use by schools and school systems in connection with regular school courses, as well as routine and administrative material pertaining thereto.

(d) A noncommercial educational television station may broadcast programs produced by or at the expense of, or furnished by persons other than the licensee, if no other consideration than the furnishing of the program and the costs incidental to its production and broadcast are received by the licensee. The payment of line charges by another station, network, or someone other than the licensee of a noncommercial educational television station, or general contributions to the operating costs of a station, shall not be considered as being prohibited by this paragraph.

(e) Each station shall furnish a nonprofit and noncommercial broadcast service. Noncommercial educational television stations shall be subject to the provisions of § 73.1212 to the extent that they are applicable to the broadcast of programs produced by, or at the expense of, or furnished by others. No *promotional* announcements *on behalf of for profit entities* shall be broadcast at any time in exchange for the receipt, in whole or in part, of consideration to the licensee, its principals, or employees. However, acknowledgements of contributions can be made. *The scheduling of any announcements and acknowledgements may not interrupt regular programming.*

NOTE: Commission interpretation of this rule, including the acceptable form of acknowledgements, may be found in the Second Report and Order in Docket No. 21136 (Commission Policy Concerning the Noncommercial Nature of Educational Broadcast Stations), 86 F.C.C. 2d 141 (1981); the Memorandum Opinion and Order in Docket No. 21136, 90 FCC 2d 895 (1982), and the Memorandum Opinion and Order in Docket 21136, 49 FR 13534, April 5, 1984.

(f) Telecommunications Service on the Vertical Blanking Interval and in the Visual Signal. The provisions governing VBI and visual signal telecommunications service in § 73.646 are applicable to noncommercial educational TV stations.

(g) Non-program related data signals transmitted on Line 21 pursuant to § 73.682(a)(22)(ii) may be used for remunerative purposes.

[28 FR 13660, Dec. 14, 1963, as amended at 35 FR 7558, May 15, 1970; 47 FR 36179, Aug. 19, 1982; 48 FR 27068, June 13, 1983; 49 FR 29069, July 18, 1984; 50 FR 4664, Feb. 1, 1985; 50 FR 4684, Feb. 1, 1985; 61 FR 36304, July 10, 1996]

§ 73.622 Digital television table of allotments.

(a) *General.* The following table of allotments contains the digital television (DTV) channel allotments designated for the listed communities in the United States, its Territories, and possessions. The initial DTV Table of Allotments was established on April 3, 1997, to provide a second channel for DTV service for all eligible analog television broadcasters. Requests for addition of new DTV allotments, or requests to change the channels allotted to a community must be made in a petition for rule making to amend the DTV Table of Allotments. A request to amend the DTV table to change the channel of an allotment in the DTV table will be evaluated for technical acceptability using engineering criteria set forth in § 73.623(c). A request to amend the DTV table to add a new allotment will be evaluated for technical acceptability using the geographic spacing criteria set forth in § 73.623(d). DTV allotments designated with an asterisk are assigned for use by non-commercial educational broadcast stations only. Stations operating on DTV allotments designated with a ''c'' are required to comply with paragraph (g) of this section.

(1) Petitions requesting the addition of a new allotment must specify a channel in the range of channels 2–51.

(2) Petitions requesting a change in the channel of an initial allotment must specify a channel in the range of channels 2–59.

(b) *DTV Table of Allotments.*

Community	Channel No.
Alabama:	
Anniston	58
Bessemer	18c
Birmingham	30, 36, 50, 52, *53
Demopolis	*19
Dothan	21, 36
Dozier	*59

Community	Channel No.
Florence	14c, 20, *22
Gadsden	26, 45c
Homewood	28
Huntsville	*24c, 32c, 41, 49c, 59
Louisville	*42c
Mobile	9c, *18, 20c, 26, 27
Montgomery	*14, 16, 46c, 51, 57
Mount Cheaha	*56
Opelika	31
Ozark	33c
Selma	55
Troy	48
Tuscaloosa	34c
Tuskegee	24
Alaska:	
Anchorage	18, 20, 22, *24, *26, 28, 30, 32
Bethel	*3
Dillingham	*9
Fairbanks	18, 22, *24, 26, 28
Juneau	*6, 11
Ketchikan	*8, 13
North Pole	20
Sitka	2
Arizona:	
Flagstaff	18, 22, 27, 28
Green Valley	47c
Kingman	19, *46
Lake Havasu City	35c
McNary	*42
Mesa	36
Nogales	25
Phoenix	14c, 17, 20c, 23, 24, 26, *29, 34c, 49
Prescott	25
Sierra Vista	44
Tolleson	52c
Tucson	19c, *28c, *30, 31, 32, 35, 41c
Yuma	16, 41
Arkansas:	
Arkadelphia.	*46
El Dorado	27
Fayetteville.	15, *45
Fort Smith	17, 18, 21
Hot Springs	14
Jonesboro	*20c, 49c, 58
Little Rock	12c, 22, 32, 33, 43c, *47
Mountain View	*35
Newark	*26
Pine Bluff	24c, 39c
Rogers	50c
Springdale.	39
California:	
Anaheim	32
Arcata	22c
Bakersfield.	10, 25, 33, 55
Barstow	*27, 44
Blythe	*4
Calipatria	50
Ceres	*15
Chico	36, 43, *51
Clovis	44c
Coalinga	*22
Concord	63c
Corona	39c
Cotati	*23c
El Centro	22, 48
Eureka	*11, 16, 17, 28c
Fort Bragg.	15
Fresno	7, 9, 14, 16, *40
Hanford	20c
Huntington Beach	*48
Los Angeles	8c, 35c, 36, *41c, 42, 43, *59c, 60, 65c, 66, 68
Merced	38
Modesto	18c
Monterey	31, 32
Novato	47
Oakland	56
Ontario	47c
Oxnard	24
Palm Springs	46, 52
Paradise	20
Porterville	48c
Rancho Palos Verdes	51c
Redding	14, *18
Riverside	69
Sacramento	21, 35, 48, *53, 55, 61
Salinas	13, 43
San Bernardino	*26, 38, 61c
San Diego	18, 19, 25, *30, 40c, 55
San Francisco	19c, 24, 27c, 28, 29, *33c, *34, 39c, 45c, 57
San Jose	12c, 41c, 49c, *50, 52
San Luis Obispo	15, 34c
San Mateo	*59c
Sanger	36
Santa Ana	53c
Santa Barbara	*26, 27
Santa Maria	19
Santa Rosa	54
Stockton	25, 46, 62
Twentynine Palms	23
Vallejo	30
Ventura	49
Visalia	28, *50c
Watsonville	*58
Colorado:	
Alamosa	*46
Boulder	15c
Broomfield	*36
Castle Rock	47
Colorado Springs	10c, 22c, 24
Craig	*48
Denver	16, 17, *18, 19c, 32c, 34, 35, *40c, 44, 51c
Durango	17
Fort Collins	21c
Glenwood Springs	23, *39
Grand Junction	2, 7c, 14, 15, *16
La Junta	*30
Lamar	*50
Leadville	*49
Longmont	26c
Montrose	13
Pueblo	27, *29
Steamboat Springs	10
Sterling	23
Trinidad	*43
Connecticut:	
Bridgeport	42c, *52
Hartford	5, 11, *32, 46
New Britain	35
New Haven	6, 10, *39
New London	34
Norwich	*45
Waterbury	12

Community	Channel No.
Delaware:	
Seaford	*44
Wilmington	31, *55
District of Columbia:	
Washington	6c, *27c, *33c, 34, 35, 39, 48, 51c
Florida:	
Boca Raton	*44c
Bradenton	*5, 42
Cape Coral	35c
Clearwater	21c
Clermont	17c
Cocoa	*30, 51c
Daytona Beach	11, 49
Fort Lauderdale	52c
Fort Myers	15, *31c, 53
Fort Pierce	*38, 50
Fort Walton Beach	25, 40, 49
Gainesville	16, *36
High Springs	28
Hollywood	47
Jacksonville	13c, 19, 32, 34, *38, 42, *44
Key West	3, 12
Lake Worth	36
Lakeland	19
Leesburg	40, *46c
Live Oak	48
Marathon	*34
Melbourne	20, 48
Miami	8c, 9c, *18c, *19, 20, 21, 22c, 24c, 30, 32c, 46c
Naples	43, 45c
New Smyrna Beach	*33
Ocala	31
Orange Park	10
Orlando	14, 22, *23c, 39, 41, 58
Palm Beach	49
Panama City	19, 29c, *38, 41
Panama City Beach	47c
Pensacola	17, *31, 34c, 45c
Sarasota	52
St. Petersburg	24, 57, 59
Tallahassee	2, 22, *32
Tampa	7c, 12c, 29c, *34, 47, *54
Tequesta	16
Tice	33
Venice	25
West Palm Beach	13c, *27, 28c, 55
Georgia:	
Albany	17, 30c
Athens	*22, 48
Atlanta	10c, 19, 20, *21, 25, 27, *38, 39, 43
Augusta	30, 31, 42, 51
Bainbridge	50c
Baxley	35c
Brunswick	24
Chatsworth	*33
Cochran	*7
Columbus	15, *23, 35, 47, 49
Cordele	51
Dalton	16
Dawson	*26c
Macon	16, 40c, 45, 50
Monroe	44
Pelham	*20
Perry	32
Rome	51
Savannah	15, 23c, 39, *46
Thomasville	52
Toccoa	24
Valdosta	43c
Waycross	*18
Wrens	*36
Hawaii:	
Hilo	8, 18, *19, 21, 22, 23, *31, *39
Honolulu	8, *18, 19, 22, 23, 27, 31, 33, 35, *39, 40, *43
Kailua Kona	25
Kaneohe	41
Lihue	*7, *12, *28, *45
Wailuku	16, 20, 24, *28, 29, *30, *34, 36
Idaho:	
Boise	*21, 25, 26
Burley	*48
Caldwell	10c
Coeur D'alene	*56
Filer	*18c
Grangeville	*44
Idaho Falls	9c, 36
Lewiston	32
Moscow	*33
Nampa	22, 27
Pocatello	*17, 23
Twin Falls	16, *24, 34c
Weiser	*34
Illinois:	
Aurora	59c
Bloomington	28
Carbondale	*40
Champaign	41, 48
Charleston	*50c
Chicago	3c, 19c, *21c, 27c, 29, 31c, 43c, 45c, *47, 52
Decatur	18c, 22c
East St. Louis	47c
Freeport	41
Harrisburg	34
Jacksonville	*15c
Joliet	53
Lasalle	10
Macomb	*21c
Marion	17
Moline	*23c, 38
Mount Vernon	21
Olney	*19
Peoria	30c, 39, 40, *46c, 57
Quincy	32, *34, 54
Rock Island	58
Rockford	16c, 42, 54
Springfield	42, 44, 53
Urbana	26c, *33
Indiana:	
Angola	12
Bloomington	*14, 27, 53, 56
Elkhart	58
Evansville	28, 45c, *54, 58, 59
Fort Wayne	4, 19, 24, 36, *40c
Gary	*17, 51c
Hammond	36
Indianapolis	9c, 16, *21c, 25, *44, 45, 46
Kokomo	54
Lafayette	11
Marion	32
Muncie	52
Richmond	30

Community	Channel No.
Salem	57c
South Bend	30, *35c, 42, 48
Terre Haute	24, 36, 39c
Vincennes	*52
Iowa:	
Ames	59
Burlington	41
Cedar Rapids	27c, 47c, 51, 52
Centerville	*44
Council Bluffs	*33c
Davenport	*34, 49, 56
Des Moines	16c, 19, 26, 31, *50
Dubuque	43
Fort Dodge	*25
Iowa City	25, *45
Mason City	*18, 42
Ottumwa	14c
Red Oak	*35c
Sioux City	*28c, 30, 39, 41, 49
Waterloo	*35, 55
Kansas:	
Colby	15
Ensign	5c
Fort Scott	40
Garden City	17, 18, *42
Goodland	14
Great Bend	22
Hays	*16, 20
Hutchinson	19, *29, 35c
Lakin	*23
Lawrence	39c
Oakley	*40
Pittsburg	30
Salina	17c
Topeka	*23, 26c, 44, 48c
Wichita	21, 25c, 34c, 45
Kentucky:	
Ashland	*26c, *45
Beattyville	7
Bowling Green	16, *18, 33, *48
Campbellsville	19
Covington	*24
Danville	4
Elizabethtown	*43
Harlan	51
Hazard	12, *16
Lexington	20, 40, *42, 59
Louisville	8, *17, 26, *38, 47, 49, 55
Madisonville	20c, *42
Morehead	*15, 21
Murray	*36
Newport	29
Owensboro	29
Owenton	*44
Paducah	32, 41, 50c
Pikeville	*24
Somerset	*14
Louisiana:	
Alexandria	*26c, 32c, 35
Baton Rouge	*22, 34c, 42, 45c, 46
Columbia	57
Lafayette	16c, *23c, 28, 56
Lake Charles	*20, 30c, 53
Monroe	*19, 55
New Orleans	*11c, 14, 15, 29, 30, *31c, 39c, 43, 50c
Shreveport	17, *23c, 28, 34c, 44c
Slidell	24
West Monroe	36, 38c
Maine:	
Augusta	*17
Bangor	14, 19, 25
Biddeford	*45
Calais	*15
Lewiston	39
Orono	*22c
Poland Spring	46
Portland	4, 38, 44
Presque Isle	16, *20
Maryland:	
Annapolis	*42
Baltimore	*29, 38, 40, 41, 46c, 52, 59
Frederick	*28
Hagerstown	16, *44, 55
Oakland	*54
Salisbury	21, 53, *56
Massachussetts:	
Adams	36
Boston	*19, 20, 30, 31, 32, 39c, 42, *43c
Cambridge	41
Lawrence	18
Marlborough	23
New Bedford	22, 49
Norwell	52
Springfield	33, 55, *58c
Vineyard Haven	40
Worcester	29, *47c
Michigan:	
Alpena	13, *57
Ann Arbor	33
Bad Axe	*15
Battle Creek	20, 44c
Bay City	22
Cadillac	40, 47, *58
Calumet	18
Cheboygan	14
Detroit	14, 21c, 41, *43, 44, 45, 58
East Lansing	*55
Escanaba	48
Flint	16, 36, *52
Grand Rapids	7c, *11, 19, 39
Iron Mountain	22
Jackson	34
Kalamazoo	2c, *5, 45
Lansing	38, 51, 59
Manistee	*17
Marquette	*33, 35
Mount Clemens	39c
Mount Pleasant	*56
Muskegon	24
Onondaga	57
Saginaw	30, 48c
Sault Ste. Marie	49, 56
Traverse City	31, 50
University Center	*18c
Vanderbilt	59
West Branch	*24
Minnesota:	
Alexandria	14, 24
Appleton	*31
Austin	*20, 33
Bemidji	*18
Brainerd	*28
Duluth	17, 33, *38, 43
Hibbing	36, *51
Mankato	38
Minneapolis	21, 22c, *26, 32, 35, *44c
Redwood Falls	27

Community	Channel No.
Rochester	36, 46c
St. Cloud	40c
St. Paul	*16c, *34, 50
Thief River Falls	57
Walker	20
Worthington	*15
Mississippi:	
Biloxi	*35, 36
Booneville	*55
Bude	*18c
Columbus	35
Greenville	17
Greenwood	*26, 54
Gulfport	48
Hattiesburg	23c
Holly Springs	41c
Jackson	*20, 21, 41c, 51, 52
Laurel	28
Meridian	25c, 31c, *47, 49
Mississippi State	*38
Natchez	49c
Oxford	*36
Tupelo	57
West Point	16
Missouri:	
Birch Tree	*7
Bowling Green	*50
Cape Girardeau	22c, 57
Columbia	22, 36
Hannibal	29
Jefferson City	12c, 20
Joplin	*25c, 43, 46
Kansas City	14, *18c, 24, 31c, 34, 42c, 47, 51c
King City	*28
Kirksville	33
Poplar Bluff	18
Sedalia	15
Springfield	19, *23, 28c, 44, 52
St. Joseph	21, 53
St. Louis	14, 26, 31c, 35, *39, 43, 56
Montana:	
Billings	11, 17, 18
Bozeman	16, *20
Butte	2, 15, 19c
Glendive	15
Great Falls	39, 44, 45
Hardin	19
Helena	14, 29
Kalispell	38
Miles City	13, *39
Missoula	*27, 35, 36, 40
Nebraska:	
Albion	23c
Alliance	*24
Bassett	*15
Grand Island	19, 32
Hastings	*14, 21
Hayes Center	18
Kearney	35
Lexington	*26
Lincoln	25, 31, *40
McCook	12
Merriman	*17
Norfolk	*16
North Platte	*16, 22
Omaha	*17, 20, 22, 38, 43c, 45
Scottsbluff	19, 29
Superior	34
Nevada:	
Elko	8, *15
Henderson	24
Las Vegas	2c, 7c, *11c, 16c, 17, 20c, 32c
Paradise	38c
Reno	*15, 22c, 23, 26c, 32, 33, 41
Winnemucca	12
New Hampshire:	
Berlin	*15
Concord	33
Derry	35
Durham	*57
Keene	*49c
Littleton	*48c
Manchester	59c
Merrimack	34
New Jersey:	
Atlantic City	46, 49
Burlington	27
Camden	*22c
Linden	36
Montclair	*51c
New Brunswick	*18
Newark	53c, 61
Newton	8c
Paterson	40c
Secaucus	38
Trenton	*43
Vineland	66c
West Milford	*29
Wildwood	36
New Mexico:	
Albuquerque	16, *17, 21, 22c, *25, 26, 42c, 51c
Carlsbad	19
Clovis	20
Farmington	15
Gallup	8
Hobbs	17
Las Cruces	*23c, 28
Portales	*32
Roswell	28c, 38, 41
Santa Fe	10c, 27, 29
Silver City	12, *33
Socorro	*31
New York:	
Albany	4, 15, 26
Amsterdam	50
Batavia	53
Binghamton	4, 7, 8, *42
Buffalo	14, *32, 33, 34, 38, 39, *43
Carthage	35
Corning	50
Elmira	2, 55
Garden City	*22c
Jamestown	27c
Kingston	21
New York	*24c, 28, 30c, 33, 44, 45, 56
North Pole	14
Norwood	*23
Plattsburgh	*38
Poughkeepsie	27
Riverhead	57
Rochester	*16, 28, 45, 58, 59
Schenectady	*34, 39, 43
Smithtown	23
Springville	46
Syracuse	17, 19, *25c, 44c, 47, 54
Utica	27, 29, 30
Watertown	21, *41

Community	Channel No.
North Carolina:	
Asheville	*25, 45, 56, 57
Belmont	47c
Burlington	14
Chapel Hill	*59
Charlotte	21, 22, 23, *24, 34
Columbia	*20
Concord	*44
Durham	27c, 52
Fayetteville	36, 38
Goldsboro	55
Greensboro	32, 33, 51
Greenville	10c, 21, *23
Hickory	40
High Point	35
Jacksonville	34c, *44
Kannapolis	50
Lexington	19c
Linville	*54
Lumberton	*25
Morehead City	24
New Bern	48
Raleigh	49c, 53, 57
Roanoke Rapids	*39
Rocky Mount	15
Washington	32
Wilmington	*29, 30, 46, 54
Wilson	42
Winston-Salem	29, 31, *43
North Dakota:	
Bismarck	16c, *22, 23, 31
Devils Lake	59
Dickinson	18, 19, *20
Ellendale	*20c
Fargo	19, 21, *39, 58
Grand Forks	*56
Jamestown	14
Minot	15c, 45, *57, 58
Pembina	15
Valley City	38
Williston	14, *51, 52
Ohio:	
Akron	30, *32c, 59
Alliance	*46c
Athens	*27
Bowling Green	*56
Cambridge	*35
Canton	39, 47
Chillicothe	46
Cincinnati	10c, 31, 33, *34, 35
Cleveland	2c, 15, *26c, 31, 34
Columbus	11c, 13, 14, 36, *38
Dayton	39, 41, 50, 51, *58
Lima	20, 57
Lorain	28
Mansfield	12
Newark	24
Oxford	*28
Portsmouth	17, *43c
Sandusky	42
Shaker Heights	10
Springfield	18
Steubenville	57
Toledo	5, 17, 19, *29c, 46, 49
Youngstown	20c, 36, 41
Zanesville	40
Oklahoma:	
Ada	26
Altus	*42
Bartlesville.	14
Cheyenne	*8
Claremore	*36c
Enid	18
Eufaula	*31
Guymon	*29
Lawton	23
Oklahoma City	15c, 16, 24c, 27, *32, 33c, 39, 40, 50, 51c
Okmulgee	28
Shawnee	29c
Tulsa	22c, *38, 42c, 48c, 49, 55, 56, 58
Oregon:	
Bend	*11, 18
Coos Bay	21, 22c
Corvallis	*39
Eugene	14, 17c, 25, 26, *29c
Klamath Falls	29, *33, 40
La Grande.	*5
Medford	15, 27c, 35, 38, *42
Pendleton	4
Portland	*27, 30, 40, 43, 45, 46
Roseburg	18, 19, 45c
Salem	20, 33c
Pennsylvania:	
Allentown	46, *62c
Altoona	24c, 32, 46c
Bethlehem.	59c
Clearfield	*15
Erie	16, 22, *50, 52, 58
Greensburg	50
Harrisburg	4, *36, 57
Hazleton	9
Johnstown.	29, 30, 34
Lancaster	23, 58
Philadelphia	26, 32, *34c, 42, 54, 64c, 67
Pittsburgh	25, *26, *38, 42, 43, 48, 51
Reading	25
Red Lion	30
Scranton	13, 31, 32, *41, 49
Wilkes-Barre	11
Williamsport	29
York	47
Rhode Island:	
Block Island	17
Providence.	13c, *21, 51, 54c
South Carolina:	
Allendale	*33
Anderson	14
Beaufort	*44
Charleston	35c, 40, *49, 52, 53, 59
Columbia	8, 17, *32, 41, 48
Conway	*58
Florence	16c, 20c, *45, 56
Greenville	*9, 52, 59
Greenwood	*18
Hardeeville	27c
Myrtle Beach	18
Rock Hill	15, 39
Spartanburg	43, 53
Sumter	*28c, 38
South Dakota:	
Aberdeen	*17c, 28
Brookings	*18
Eagle Butte	*24
Florence	25
Huron	22
Lead	26, 27

Community	Channel No.
Lowry	*15
Martin	*20
Mitchell	26
Pierre	19, *21
Rapid City	16c, 18, 22c, *23
Reliance	14
Sioux Falls	7, *24c, 29, 32, 47c, 48
Vermillion	*34
Tennessee:	
Chattanooga	*29, 35, 40, 47, 55
Cleveland	42
Cookeville	36, *52
Crossville	50
Greeneville	38c
Hendersonville	51c
Jackson	39, 43
Jellico	23
Johnson City	58
Kingsport	27
Knoxville	*17, 26, 30, 31, 34
Lebanon	44
Lexington	*47
Memphis	25c, 28, *29c, 31c, 51c, 52, 53
Murfreesboro	38c
Nashville	10, 15, 21, 23, 27, *46, 56
Sneedville	*41
Texas:	
Abilene	24, 29
Alvin	36
Amarillo	9c, 15c, 19, *21, 24
Arlington	42
Austin	21, *22, 33, 43c, 49, 56
Baytown	41
Beaumont	21, *33c, 50
Belton	47c
Big Spring	33
Brownsville	24c
Bryan	29c, 59
College Station	*12
Conroe	5, 42
Corpus Christi	18, *22, 27c, 47, 50
Dallas	9c, *14, 32c, 35, 36, 40c, 45
Decatur	30c
Del Rio	28
Denton	*31
Eagle Pass	18
El Paso	15c, 16, 17, 18, 25c, *29, *39c, 51
Fort Worth	18, 19, 41, 51c
Galveston	*23c, 47c
Garland	24c
Greenville	46c
Harlingen	31, *34, *38
Houston	19c, *24, 27c, 31, 32, 35, 38c, 44c, *53
Irving	48c
Jacksonville	22
Katy	52c
Kerrville	17
Killeen	23
Lake Dallas	43
Laredo	14, 15, 19
Llano	27
Longview	52c
Lubbock	25, 27c, 35c, *39, 40, 44
Lufkin	43
McAllen	30
Midland	26
Nacogdoches	18c
Odessa	15, *22, 23c, 31c, 43c
Port Arthur	40
Rio Grande City	20
Rosenberg	46c
San Angelo	11, 16, 19
San Antonio	*16, *20, 30c, 39, 40c, 48, 55, 58
Sherman	20
Snyder	10
Sweetwater	20
Temple	50
Texarkana	15, *50
Tyler	38
Victoria	15, 34
Waco	*20, 26c, 53, 57
Weslaco	13
Wichita Falls	17c, 22, 28
Utah:	
Cedar City	14, *44
Monticello	*41
Ogden	29c, *35
Provo	17c, *39
Salt Lake City	27c, 28, 34, 36, 38, *40
St. George	9
VERMONT:	
Burlington	16, *32c, 43c, 53
Hartford	25
Rutland	*56
St. Johnsbury	*18
Windsor	*24
Virginia:	
Arlington	15c
Ashland	47
Bristol	28
Charlottesville	*14, 32
Danville	41
Fairfax	*57c
Front Royal	*21
Goldvein	*30
Grundy	49
Hampton	41
Hampton-Norfolk	*16c
Harrisonburg	49
Lynchburg	20c, *34, 56
Manassas	36
Marion	*42
Norfolk	14c, 38, 58
Norton	*32
Petersburg	22c
Portsmouth	19, 31
Richmond	*24c, 25, 26, *44, 54
Roanoke	*3, 17, 18, 30, 36
Staunton	*19
Virginia Beach	29
West Point	*46
Washington:	
Bellevue	32c, 50c
Bellingham	19, 35
Centralia	*19
Everett	31
Kennewick	14
Pasco	20c
Pullman	*17
Richland	26c, *30c
Seattle	25, 38, 39, *41, 44c, 48
Spokane	29c, 38, *39, 54, 55, 57

Community	Channel No.
Tacoma	14, 18, *26, 36, *42
Vancouver	48c
Wenatchee	56
Yakima	16, *21, 34c, 52
West Virginia:	
Bluefield	14, 46
Charleston	*16, 19, 39, 55
Clarksburg	28, 52
Grandview	*53
Huntington	23, *34c, 54
Lewisburg	48
Martinsburg	12
Morgantown	*33
Oak Hill	50
Parkersburg	49
Weston	58
Wheeling	56
Wisconsin:	
Appleton	59
Chippewa Falls	49c
Eagle River	17
Eau Claire	15, 39
Fond du Lac	44
Green Bay	23, 41, *42, 51, 56
Janesville	32
Kenosha	40
La Crosse	14, 17, *30c, 53
Madison	11, 19, *20c, 26c, 50
Manitowoc	19
Mayville	43
Menomonie	*27c
Milwaukee	*8, 22, 25c, 28, 33, 34, *35c, 46, 61
Park Falls	*47
Racine	48c
Rhinelander	16
Superior	19
Suring	21
Wausau	*24, 29, 40
Wyoming:	
Casper	15c, 17, 18
Cheyenne	11, 28c, 30
Jackson	14
Lander	7, *8
Rawlins	9
Riverton	16
Rock Springs	19
Sheridan	21
Puerto Rico:	
Aguada	62
Aguadilla	17c, *34, 69
Arecibo	53c, 61c
Bayamon	59c
Caguas	56, *57c
Carolina	51c
Fajardo	33c, *38
Guayama	45c
Humacao	49
Mayaguez	23c, 29, 35, 63
Naranjito	65c
Ponce	19c, *25c, 43c, 47c, 66, 67c
San Juan	21, 27c, 28, 31c, 32, *55c
San Sebastian	39c
Yauco	41c
Virgin Islands:	
Charlotte Amalie	*44c, 48, 50
Christiansted	5, 20

(c) *Availability of channels.* Applications may be filed to construct DTV broadcast stations only on the channels designated in the DTV Table of Allotments set forth in paragraph (b) of this section, and only in the communities listed therein. Applications that fail to comply with this requirement, whether or not accompanied by a petition to amend the DTV Table, will not be accepted for filing. However, applications specifying channels that accord with publicly announced FCC Orders changing the DTV Table of Allotments will be accepted for filing even if such applications are tendered before the effective dates of such channel change. An application for authority to construct a DTV station on an allotment in the initial DTV table may only be filed by the licensee or permittee of the analog TV station with which that initial allotment is paired, as set forth in Appendix B of the *Sixth Report and Order* in MM Docket 87–268, FCC 97–115, adopted April 3, 1997. Copies of the *Sixth Report and Order* may be inspected during normal business hours at the: Federal Communications Commission, 1919 M St., NW., Dockets Branch (Room 239), Washington, DC 20554. This document is also available through the Internet on the *FCC Home Page* at http://www.fcc.gov. Applications may also be filed to implement an exchange of channel allotments between two or more licensees or permittees of analog TV stations in the same community, provided, however, that the other requirements of this section and of § 73.623 are met with respect to each such application.

(d) *Reference points and distance computations.* (1) The reference coordinates of a DTV allotment included in the initial DTV Table of Allotments are the coordinates of the authorized transmitting antenna site of the analog TV station with which that initial allotment is paired, as set forth in Appendix B of the *Sixth Report and Order* in MM Docket 87–268 (referenced in paragraph (c) of this section). An application for authority to construct or modify DTV facilities may specify an alternate location for the DTV transmitting antenna that is within 5 kilometers of the DTV allotment reference coordinates without consideration of electromagnetic interference to other DTV or analog TV broadcast stations, allotments or

applications, provided the application complies with paragraph (f)(2) of this section. Location of a DTV broadcast station's transmitting antenna at a site more than 5 kilometers from the DTV allotment reference coordinates must comply with the provisions of § 73.623(c). In the case where a DTV station has been granted authority to construct more than 5 kilometers from its reference coordinates pursuant to § 73.623(c), and its authorized coverage area extends in any azimuthal direction beyond the DTV coverage area determined for the DTV allotment reference facilities, then the coordinates of such authorized site are to be used in addition to the coordinates of the DTV allotment to determine protection from new DTV allotments pursuant to § 73.623(d) and from subsequent DTV applications filed pursuant to § 73.623(c).

(2) The reference coordinates of a DTV allotment not included in the initial DTV Table of Allotments will be designated in the FCC Order changing the DTV Table of Allotments and must meet the geographic spacing requirements of § 73.623(d). An application for authority to construct or modify such DTV facilities must comply with the provisions of § 73.623(c). In the case where such a DTV station has been granted authority to construct pursuant to § 73.623(c) and its authorized coverage area extends in any azimuthal direction beyond the DTV coverage area determined for the DTV allotment reference facilities, then the coordinates of such authorized site are to be used in addition to the coordinates of the DTV allotment to determine protection from new DTV allotments pursuant to § 73.623(d) and from subsequent DTV applications filed pursuant to § 73.623(c).

(3) The reference coordinates defined in paragraphs (d)(1) and (d)(2) of this section shall be used in considering petitions to amend the DTV Table of Allotments and in determining whether interference occurs between DTV stations and between DTV and analog TV stations.

(4) In cases where there are pending applications for DTV stations in other communities which, if granted, would have to be considered in determining whether proposed or modified stations would meet the required technical criteria or separations, as defined in § 73.623, the coordinates of the transmitter sites proposed in such applications must be used to determine whether those requirements have been met.

(5) To calculate the distance between two reference points, see § 73.208(c). However, distances shall be rounded to the nearest tenth of a kilometer.

(e) *DTV Service Areas.* The service area of a DTV station is the geographic area within which the predicted F(50,90) field strength of the station's signal, in dB above 1 microvolt per meter (dBu), exceeds the following levels:

	dBu
Channels 2–6	28
Channels 7–13	36
Channels 14–69	41

These are the levels at which reception of DTV service is limited by noise. Evaluation of field strength in determining service areas shall be made using the terrain dependent Longley-Rice point-to-point propagation model. Guidance for evaluating coverage areas using the Longley-Rice methodology is provided in *OET Bulletin No. 69.* Copies of *OET Bulletin No. 69* may be inspected during normal business hours at the: Federal Communications Commission, 1919 M St., NW., Dockets Branch (Room 239), Washington, DC 20554. This document is also available through the Internet on the *FCC Home Page* at http://www.fcc.gov.

(f) *DTV maximum power and antenna heights.* (1) The maximum effective radiated power (ERP) and antenna height above average terrain (HAAT) for an allotment included in the initial DTV Table of Allotments are set forth in Appendix B of the *Sixth Report and Order* in MM Docket 87–268 (referenced in paragraph (c) of this section). These limits also appear on the construction permit and license issued for each DTV station. In each azimuthal direction, the reference ERP value is based on the HAAT of the corresponding analog TV station and achieving predicted coverage equal to that analog TV station's predicted Grade B contour, as defined in § 73.683.

(2) An application for authority to construct or modify DTV facilities will not be subject to further consideration of electromagnetic interference to other DTV or analog TV broadcast stations, allotments or applications, provided that:

(i) The proposed ERP in each azimuthal direction is equal to or less than the reference ERP in that direction; and

(ii) The proposed HAAT is equal to or less than the reference HAAT; and

(iii) The application complies with the location provisions in paragraph (d)(1) of this section.

(3) DTV licensees and permittees may request an increase in either ERP in some azimuthal direction or HAAT, or both, that exceed the initial technical facilities specified for the allotment in Appendix B the *Sixth Report and Order*, up to the maximum permissible limits on DTV power and antenna height set forth in this section or up to that needed to provide the same geographic coverage area as the largest station within their market. Such requests must be accompanied by a technical showing that the increase complies with the technical criteria in § 73.623(c), and thereby will not result in new interference, or statements agreeing to the change from any co-channel or adjacent channel stations that might be affected by potential new interference. In the case where a DTV station has been granted authority to construct pursuant to § 73.623(c), and its authorized coverage area extends in any azimuthal direction beyond the DTV coverage area determined for the DTV allotment reference facilities, then the authorized DTV facilities are to be used in addition to the assumed facilities of the initial DTV allotment to determine protection from new DTV allotments pursuant to § 73.623(d) and from subsequent DTV applications filed pursuant to § 73.623(c).

(4) A DTV station that operates on a channel 2–6 allotment created subsequent to the initial DTV Table will be allowed a maximum ERP of 10 kW if its antenna HAAT is at or below 305 meters and it is located in Zone I or a maximum ERP of 45 kW if its antenna HAAT is at or below 305 meters and it is located in Zone II or Zone III.

(i) At higher HAAT levels, such DTV stations will be allowed to operate with lower maximum ERP levels in accordance with the following table and formulas:

MAXIMUM ALLOWABLE ERP AND ANTENNA HEIGHT FOR DTV STATIONS IN ZONES II OR III ON CHANNELS 2–6

Antenna HAAT (meters)	ERP (kW)
610	10
580	11
550	12
520	14
490	16
460	19
425	22
395	26
365	31
335	37
305	45

(ii) The allowable maximum ERP for intermediate values of HAAT is determined using linear interpolation based on the units employed in the table. For DTV stations located in Zone I that operate on channels 2–6 with an HAAT that exceeds 305 meters, the allowable maximum ERP expressed in decibels above 1 kW (dBk) is determined using the following formula, with HAAT expressed in meters:

$$ERP_{max}=92.57–33.24*\log_{10}(HAAT)$$

(iii) For DTV stations located in Zone II or III that operate on channels 2–6 with an HAAT that exceeds 610 meters, the allowable maximum ERP expressed in decibels above 1 kW (dBk) is determined using the following formula, with HAAT expressed in meters:

$$ERP_{max}=57.57–17.08*\log_{10}(HAAT)$$

(5) A DTV station that operates on a channel 7–13 allotment created subsequent to the initial DTV Table will be allowed a maximum ERP of 30 kW if its antenna HAAT is at or below 305 meters and it is located in Zone I or a maximum ERP of 160 kW if its antenna HAAT is at or below 305 meters and it is located in Zone II or Zone III.

(i) At higher HAAT levels, such DTV stations will be allowed to operate with lower maximum ERP levels in accordance with the following table and formulas:

MAXIMUM ALLOWABLE ERP AND ANTENNA HEIGHT FOR DTV STATIONS IN ZONES II OR III ON CHANNELS 7–13

Antenna HAAT (meters)	ERP (kW)
610	30
580	34
550	40
520	47
490	54
460	64
425	76
395	92
365	110
335	132
305	160

(ii) The allowable maximum ERP for intermediate values of HAAT is determined using linear interpolation based on the units employed in the table. For DTV stations located in Zone I that operate on channels 7–13 with an HAAT that exceeds 305 meters, the allowable maximum ERP expressed in decibels above 1 kW (dBk) is determined using the following formula, with HAAT expressed in meters:

$$ERP_{max}=97.35–33.24*\log_{10}(HAAT)$$

(iii) For DTV stations located in Zone II or III that operate on channels 7–13 with an HAAT that exceeds 610 meters, the allowable maximum ERP expressed in decibels above 1 kW (dBk) is determined using the following formula, with HAAT expressed in meters:

$$ERP_{max}=62.34–17.08*\log_{10}(HAAT)$$

(6) A DTV station that operates on a channel 14–59 allotment created subsequent to the initial DTV Table will be allowed a maximum ERP of 1000 kW if their antenna HAAT is at or below 365 meters.

(i) At higher HAAT levels, such DTV stations will be allowed to operate with lower maximum ERP levels in accordance with the following table and formulas:

MAXIMUM ALLOWABLE ERP AND ANTENNA HEIGHT FOR DTV STATIONS ON CHANNELS 14–59, ALL ZONES

Antenna HAAT (meters)	ERP (kW)
610	316
580	350
550	400
520	460
490	540
460	630
425	750
395	900
365	1000

(ii) The allowable maximum ERP for intermediate values of HAAT is determined using linear interpolation based on the units employed in the table. For DTV stations located in Zone I, II or III that operate on channels 14–59 with an HAAT that exceeds 610 meters, the allowable maximum ERP expressed in decibels above 1 kW (dBk) is determined using the following formula, with HAAT expressed in meters:

$$ERP_{max}=72.57–17.08*\log_{10}(HAAT)$$

(g) For DTV stations using a channel allotment designated with a ''c'' in paragraph (b) of this section, the pilot carrier frequency of the DTV signal must be maintained 5.082138 MHz above the visual carrier frequency of the analog TV broadcast station operating on the lower adjacent channel, located within 88 kilometers of the DTV broadcast station. This frequency difference must be maintained within a tolerance of #3 Hz.

(h)(1) The field strength or voltage of emissions on frequencies outside the authorized channel of operation must be attenuated no less than the following amounts below the average transmitted power within the authorized channel. At the channel edge, emissions must be attenuated no less than 46 dB. More than 6 MHz from the channel edge, emissions must be attenuated no less than 71 dB. At any frequency between 0 and 6 MHz from the channel edge, emissions must be attenuated no less than the value determined by the following formula:

$$\text{Attenuation in dB}=46+[(\Delta f)^2/1.44];$$

Where:

Δf=frequency difference in MHz from the edge of the channel.

(2) This attenuation is based on a measurement bandwidth of 500 kHz. Other measurement bandwidths may be used as long as appropriate correction

factors are applied. Emissions include sidebands, spurious emissions and radio frequency harmonics. Attenuation is to be measured at the output terminals of the transmitter (including any filters that may be employed). In the event of interference caused to any service, greater attenuation may be required.

NOTE TO PARAGRAPH (H): Greater attenuation may be required for situations where the DTV station and an adjacent channel analog TV station serve the same area and there are expected to be locations within that shared area where the analog TV station's field strength is less than 12 dB above the DTV station's field strength.

[62 FR 26712, May 14, 1997]

§ 73.623 DTV applications and changes to DTV allotments.

(a) *General.* This section contains the technical criteria for evaluating applications requesting DTV facilities that do not conform to the provisions of § 73.622 and petitions for rule making to amend the DTV Table of Allotments (§ 73.622(b)). Petitions to amend the DTV Table (other than those also expressly requesting amendment of this section) and applications for new DTV broadcast stations or for changes in authorized DTV stations filed pursuant to this section will not be accepted for filing if they fail to comply with the requirements of this section.

(b) In considering petitions to amend the DTV Table and applications filed pursuant to this section, the Commission will use geographic coordinates defined in § 73.622(d) as reference points in determining allotment separations and evaluating interference potential.

(c) *Minimum technical criteria for modification of DTV allotments included in the initial DTV Table of Allotments and for applications filed pursuant to this section.* No petition to modify a channel allotment included in the initial DTV Table or application for authority to construct or modify a DTV station, filed pursuant to this section, will be accepted unless it shows compliance with the requirements of this paragraph.

(1) Requests filed pursuant to this paragraph must demonstrate compliance with the principal community coverage requirements of § 73.625(a).

(2) Requests filed pursuant to this paragraph must demonstrate that there is no increase in the amount of interference caused to any other DTV broadcast station, DTV allotment, or analog TV broadcast station. For evaluating compliance with this requirement, interference is to be predicted based on the procedure set forth in Appendix B of the *Sixth Report and Order* in MM Docket 87–268, FCC 97–115, adopted April 3, 1997, including service areas determined in accordance with § 73.622(e), consideration of whether F(50,10) undesired signals will exceed the following desired-to-undesired (D/U) signal ratios, assumed use of a directional receiving antenna, and use of the terrain dependent Longley-Rice point-to-point propagation model. Guidance for evaluating interference using the Longley-Rice methodology is provided in *OET Bulletin No. 69.* Copies of the *Sixth Report and Order* and *OET Bulletin No. 69* may be inspected during normal business hours at the: Federal Communications Commission, 1919 M St., NW., Dockets Branch (Room 239), Washington, DC 20554. These documents are also available through the Internet on the *FCC Home Page* at http://www.fcc.gov. The threshold levels at which interference is considered to occur are:

	D/U ratio
Co-channel:	
DTV-into-analog TV	+34
analog TV-into-DTV	*+2
DTV-into-DTV	*+15
First Adjacent Channel:	
Lower DTV-into-analog TV	−17
Upper DTV-into-analog TV	−12
Lower analog TV-into-DTV	−48
Upper analog TV-into-DTV	−49
Lower DTV-into-DTV	−42
Upper DTV-into-DTV	−43
Other Adjacent Channel (Channels 14–69 only) DTV-into-analog TV, where N = analog TV channel and DTV Channel:	
N–2	−24
N+2	−28
N–3	−30
N+3	−34
N–4	−34
N+4	−25
N–7	−35
N+7	−34
N–8	−32
N+8	−43
N+14	−33
N+15	−31

NOTE TO PARAGRAPH (C)(2): The values for co-channel interference to DTV service are only valid at locations where the signal-to-noise ratio is 28 dB or greater. At the edge of the noise-limited service area, where the signal-to-noise ratio is 16 dB, these values are 21 dB and 23 dB for interference from analog TV and DTV, respectively. Due to the frequency spacing that exists between Channels 4 and 5, between Channels 6 and 7, and between Channels 13 and 14, the minimum adjacent channel technical criteria specified in the table shall not be applicable to these pairs of channels (see § 73.603(a)).

(d)(1) *Minimum geographic spacing requirements for DTV allotments not included in the initial DTV Table of Allotments.* No petition to add a new channel to the DTV Table of Allotments will be accepted unless it demonstrates compliance with the principle community coverage requirements of § 73.625(a) and meets the following requirements for geographic spacing with regard to all other DTV stations, DTV allotments and analog TV stations:

Channel relationship	Separation requirement
VHF Channels 2–13:	
Co-channel, DTV to DTV	Zone I—244.6 km. Zones II & III—273.6 km.
Co-channel, DTV to analog TV	Zone I—244.6 km. Zone II & III—273.6 km.
Adjacent Channel	
DTV to DTV	No allotments permitted between: Zone I—40.2 km and 96.6 km. Zones II & III—48.3 km and 96.6 km.
DTV to analog TV	No allotments permitted between: Zone I—11.3 km and 114.3 km. Zone II & III—17.7 km and 146.4 km.
UHF Channels:	
Co-channel, DTV to DTV	Zone I—196.3 km Zone II & III—223.7 km.
Co-channel, DTV to analog TV	Zone I—217.3 km. Zone II & III—244.6 km.
Adjacent Channel	
DTV to DTV	No allotments permitted between: All Zones—32.2 km and 88.5 km.
DTV to analog TV	No allotments permitted between: All Zones—9.7 km and 88.5 km.
Taboo Channels, DTV to analog TV only (DTV channels #2,. #3, #4, #7, #8, and 14 or 15 channels above the analog TV channel).	No allotments permitted between: Zone I—24.1 km and 80.5 km Zone II & III 24.1 km and 96.6 km

NOTE TO PARAGRAPH (D)(1): Due to the frequency spacing that exists between Channels 4 and 5, between Channels 6 and 7, and between Channels 13 and 14, the minimum geographic spacing requirements specified in the table shall not be applicable to these pairs of channels (see § 73.603(a)).

(2) Zones are defined in § 73.609. The minimum distance separation between a DTV station in one zone and an analog TV or DTV station in another zone shall be that of the zone requiring the lower separation.

(e) *Protection of land mobile operations on channels 14–20.* The Commission will not accept petitions to amend the DTV Table of Allotments, applications for new DTV stations, or applications to change the channel or location of authorized DTV stations that would use channels 14–20 where the distance between the DTV reference point as defined in § 73.622(d), would be located less than 250 km from the city center of a co-channel land mobile operation or 176 km from the city center of an adjacent channel land mobile operation. Land mobile operations on these channels in the following markets:

City	Channels	Latitude	Longitude
Boston, MA	14, 16	42°21′24″	71°03′25″
Chicago, IL	14, 15	41°52′28″	87°38′22″
Dallas, TX	16	32°47′09″	96°47′37″
Houston, TX	17	29°45′26″	95°21′37″
Los Angeles, CA	14, 16, 20	34°03′15″	118°14′28″

City	Channels	Latitude	Longitude
Miami, FL	14	25°46′37″	80°11′32″
New York, NY 1	4, 15	40°45′06″	73°59′39″
Philadelphia, PA	19, 20	39°56′58″	75°09′21″
Pittsburgh, PA	14, 18	40°26′19″	80°00′00″
San Francisco, CA	16, 17	37°46′39″	122°24′40″
Washington, DC	17, 18	38°53′51″	77°00′33″

(f) *Negotiated agreements on interference.* Notwithstanding the minimum technical criteria for DTV allotments specified in paragraph (b) of this section, DTV stations operating on allotments that are included in the initial DTV Table may operate with increased ERP and/or antenna HAAT that would result in additional interference to an analog TV station if that station agrees, in writing, to accept the additional interference. Such agreements must be submitted with the application for authority to construct or modify the DTV station's facilities. The larger service area resulting from such a change of ERP and/or antenna HAAT will be protected in accordance with the provisions of paragraph (c) of this section. Applications submitted pursuant to the provisions of this paragraph will be granted only if the Commission finds that such action is consistent with the public interest.

[62 FR 26719, May 14, 1997]

§ 73.624 Digital Television Broadcast Stations.

(a) Digital television (''DTV'') broadcast stations are assigned channels 6 MHz wide. Initial eligibility for licenses for DTV broadcast stations is limited to persons that, as of April 3, 1997, are licensed to operate a full power television broadcast station or hold a permit to construct such a station (or both).

(b) At any time that a DTV broadcast station permittee or licensee transmits a video program signal on its analog television channel, it must also transmit at least one over-the-air video program signal at no direct charge to viewers on the DTV channel that is licensed with the analog channel. The DTV program service provided pursuant to this paragraph must be at least comparable in resolution to the analog television station programming transmitted to viewers on the analog channel but, subject to paragraph (f) of this section, DTV broadcast stations are not required to simulcast the analog programming.

(c) Provided that DTV broadcast stations comply with paragraph (b) of this section, DTV broadcast stations are permitted to offer telecommunications services of any nature, consistent with the public interest, convenience, and necessity, on an ancillary or supplementary basis. The kinds of services that may be provided include, but are not limited to computer software distribution, data transmissions, teletext, interactive materials, aural messages, paging services, audio signals, subscription video, and any other services that do not derogate DTV broadcast stations' obligations under paragraph (b) of this section. Such services may be provided on a broadcast, point-to-point or point-to-multipoint basis, provided, however, that no video broadcast signal provided at no direct charge to viewers shall be considered ancillary or supplementary.

(1) DTV licensees that provide ancillary or supplementary services that are analogous to other telecommunications services subject to regulation by the Commission must comply with the Commission regulations that apply to those services, provided, however, that no ancillary or supplementary service shall have any rights to carriage under sections 614 or 615 of the Communications Act of 1934, as amended, or be deemed a multichannel video programming distributor for purposes of section 628 of the Communications Act of 1934, as amended.

(2) In all arrangements entered into with outside parties affecting telecommunications service operation, the DTV licensee or permittee must retain control over all material transmitted in a broadcast mode via the station's facilities, with the right to reject any material that it deems inappropriate or

undesirable. The license or permittee is also responsible for all aspects of technical operation involving such telecommunications services.

(3) In any application for renewal of a broadcast license for a television station that provides ancillary or supplementary services, a licensee shall establish that all of its program services on the analog and the DTV spectrum are in the public interest. Any violation of the Commission's rules applicable to ancillary or supplementary services will reflect on the licensee's qualifications for renewal of its license.

(d) Digital television broadcast facilities that comply with the FCC DTV Standard (section 73.682(d)), shall be constructed in the following markets by the following dates:

(1)(i) May 1, 1999: all network-affiliated television stations in the top ten television markets;

(ii) November 1, 1999: all network-affiliated television stations not included in category (1)(i) and in the top 30 television markets;

(iii) May 1, 2002: all remaining commercial television stations;

(iv) May 1, 2003: all noncommercial television stations.

(2) For the purposes of paragraph (d)(1):

(i) The term, ''network,'' is defined to include the ABC, CBS, NBC, and Fox television networks;

(ii) The term, ''television market,'' is defined as the Designated Market Area or DMA as defined by Nielsen Media Research as of April 3, 1997; and

(iii) The terms, ''network-affiliated'' or ''network-affiliate,'' are defined to include those television stations affiliated with at least one of the four networks designated in paragraph (d)(2)(i) as of April 3, 1997. In those DMAs in which a network has more than one network affiliate, paragraphs (d)(1) (i) and (ii) of this section shall apply to its network affiliate with the largest audience share for the 9 a.m. to midnight time period as measured by Nielsen Media Research in its Nielsen Station Index, Viewers in Profile, as of February, 1997.

(3) *Authority delegated.* (i) Authority is delegated to the Chief, Mass Media Bureau to grant an extension of time of up to six months beyond the relevant construction deadline specified in paragraph (d)(1) of this section upon demonstration by the DTV licensee or permittee that failure to meet that construction deadline is due to circumstances that are either unforeseeable or beyond the licensee's control where the licensee has taken all reasonable steps to resolve the problem expeditiously.

(ii) Such circumstances shall include, but shall not be limited to: (a) inability to construct and place in operation a facility necessary for transmitting digital television, such as a tower, because of delays in obtaining zoning or FAA approvals, or similar constraints; or (b) the lack of equipment necessary to obtain a digital television signal.

(iii) The Bureau may grant no more than two extension requests upon delegated authority. Subsequent extension requests shall be referred to the Commission. The Bureau may not on delegated authority deny an extension request but must refer recommended denials to the Commission.

(iv) Applications for extension of time shall be filed at least 30 days prior to the relevant construction deadline, absent a showing of sufficient reasons for filing within less than 30 days of the relevant construction deadline.

(e) The application for construction permit must be filed on Form 301 (except for noncommercial stations, which must file on Form 340) on or before the date on which half of the construction period has elapsed. Thus, for example, for applicants in category (d)(1)(i), the application for construction period must be filed by May 1, 1998.

(f)(i) Commencing on April 1, 2003, DTV television licensees and permittees must simulcast 50 percent of the video programming of the analog channel on the DTV channel.

(ii) Commencing on April 1, 2004, DTV licensees and permittees must simulcast 75% of the video programming of the analog channel on the DTV channel.

(iii) Commencing on April 1, 2005, DTV licensees and permittees must simulcast 100% of the video programming of the analog channel on the DTV channel.

(iv) The simulcasting requirements imposed in paragraphs (f) (i)–(iii) of

this section will terminate when the analog channel terminates operation and a 6 MHz channel is returned by the DTV licensee or permittee to the Commission.

[62 FR 26989, May 16, 1997]

§ 73.625 DTV coverage of principal community and antenna system.

(a) *Transmitter location.*

(1) The DTV transmitter location shall be chosen so that, on the basis of the effective radiated power and antenna height above average terrain employed, the following minimum F (50,90) field strength in dB above one uV/m will be provided over the entire principal community to be served:

Channels 2–6	L28 dBu
Channels 7–13	36 dBu
Channels 14–69	41 dBu

(2) The location of the antenna must be so chosen that there is not a major obstruction in the path over the principal community to be served.

(3) For the purposes of this section, coverage is to be determined in accordance with paragraph (b) of this section. Under actual conditions, the true coverage may vary from these estimates because the terrain over any specific path is expected to be different from the average terrain on which the field strength charts were based. Further, the actual extent of service will usually be less than indicated by these estimates due to interference from other stations. Because of these factors, the predicted field strength contours give no assurance of service to any specific percentage of receiver locations within the distances indicated.

(b) *Determining coverage.* (1) In predicting the distance to the field strength contours, the F (50,50) field strength charts (Figures 9, 10 and 10b of § 73.699 of this part) and the F (50,10) field strength charts (Figures 9a, 10a and 10c of § 73.699 of this part) shall be used. To use the charts to predict the distance to a given F (50,90) contour, the following procedure is used: Convert the effective radiated power in kilowatts for the appropriate azimuth into decibel value referenced to 1 kW (dBk). Subtract the power value in dBk from the contour value in dBu. Note that for power less than 1 kW, the difference value will be greater than the contour value because the power in dBk is negative. Locate the difference value obtained on the vertical scale at the left edge of the appropriate F (50,50) chart for the DTV station's channel. Follow the horizontal line for that value into the chart to the point of intersection with the vertical line above the height of the antenna above average terrain for the appropriate azimuth located on the scale at the bottom of the chart. If the point of intersection does not fall exactly on a distance curve, interpolate between the distance curves below and above the intersection point. The distance values for the curves are located along the right edge of the chart. Using the appropriate F (50,10) chart for the DTV station's channel, locate the point where the distance coincides with the vertical line above the height of the antenna above average terrain for the appropriate azimuth located on the scale at the bottom of the chart. Follow a horizontal line from that point to the left edge of the chart to determine the F (50,10) difference value. Add the power value in dBk to this difference value to determine the F (50,10) contour value in dBu. Subtract the F (50,50) contour value in dBu from this F (50,10) contour value in dBu. Subtract this difference from the F (50,50) contour value in dBu to determine the F (50,90) contour value in dBu at the pertinent distance along the pertinent radial.

(2) The effective radiated power to be used is that radiated at the vertical angle corresponding to the depression angle between the transmitting antenna center of radiation and the radio horizon as determined individually for each azimuthal direction concerned. In cases where the relative field strength at this depression angle is 90% or more of the maximum field strength developed in the vertical plane containing the pertaining radial, the maximum radiation shall be used. The depression angle is based on the difference in elevation of the antenna center of radiation above the average terrain and the radio horizon, assuming a smooth

spherical earth with a radius of 8,495.5 kilometers (5,280 miles) and shall be determined by the following equation:

A = 0.0277 square root of H

Where:

A is the depression angle in degrees.

H is the height in meters of the transmitting antenna radiation center above average terrain of the 3.2–16.1 kilometers (2–10 miles) sector of the pertinent radial.

This formula is empirically derived for the limited purpose specified here. Its use for any other purpose may be inappropriate.

(3) Applicants for new DTV stations or changes in the facilities of existing DTV stations must submit to the FCC a showing as to the location of their stations' or proposed stations' contour. This showing is to include a map showing this contour, except where applicants have previously submitted material to the FCC containing such information and it is found upon careful examination that the contour locations indicated therein would not change, on any radial, when the locations are determined under this section. In the latter cases, a statement by a qualified engineer to this effect will satisfy this requirement and no contour maps need be submitted.

(4) The antenna height to be used with these charts is the height of the radiation center of the antenna above the average terrain along the radial in question. In determining the average elevation of the terrain, the elevations between 3.2–16.1 kilometers (2–10 miles) from the antenna site are employed. Profile graphs shall be drawn for 8 radials beginning at the antenna site and extending 16.1 kilometers (10 miles) therefrom. The radials should be drawn for each 45 degrees of azimuth starting with True North. At least one radial must include the principal community to be served even though such community may be more than 16.1 kilometers (10 miles) from the antenna site. However, in the event none of the evenly spaced radials include the principal community to be served and one or more such radials are drawn in addition to the 8 evenly spaced radials, such additional radials shall not be employed in computing the antenna height above average terrain. Where the 3.2–16.1 kilometers (2–10 mile) portion of a radial extends in whole or in part over large bodies of water (such as ocean areas, gulfs, sounds, bays, large lakes, etc., but not rivers) or extends over foreign territory but the contour encompasses land area within the United States beyond the 16.1 kilometers (10 mile) portion of the radial, the entire 3.2–16.1 kilometers (2–10 mile) portion of the radial shall be included in the computation of antenna height above average terrain. However, where the contour does not so encompass United States land area and (1) the entire 3.2–16.1 kilometers (2–10 mile) portion of the radial extends over large bodies of water or foreign territory, such radial shall be completely omitted from the computation of antenna height above average terrain, and (2) where a part of the 3.2–16.1 kilometers (2–10 mile) portion of a radial extends over large bodies of water or over foreign territory, only that part of the radial extending from the 3.2 kilometer (2 mile) sector to the outermost portion of land area within the United States covered by the radial shall be employed in the computation of antenna height above average terrain. The profile graph for each radial should be plotted by contour intervals of from 12.2–30.5 meters (40–100 feet) and, where the data permits, at least 50 points of elevation (generally uniformly spaced) should be used for each radial. In instances of very rugged terrain where the use of contour intervals of 30.5 meters (100 feet) would result in several points in a short distance, 61.0–122.0 meter (200–400 foot) contour intervals may be used for such distances. On the other hand, where the terrain is uniform or gently sloping the smallest contour interval indicated on the topographic map (see paragraph (b)(5) of this section) should be used, although only relatively few points may be available. The profile graphs should indicate the topography accurately for each radial, and the graphs should be plotted with the distance in kilometers as the abscissa and the elevation in meters above mean sea level as the ordinate. The profile graphs should indicate the source of the topographical data employed. The graph should also show the elevation of the center of the radiating system. The graph may be plotted either on rectangular coordinate paper or on special paper which shows the curvature of the earth. It is not necessary to take the curvature of the earth into consideration in this procedure, as this factor is taken care of in the charts showing signal strengths. The average elevation of the 12.9 kilometer (8 miles) distance between 3.2–16.1 kilometers (2–10 miles) from the antenna site should then be determined from the profile graph for each radial. This may be obtained by averaging a large number of equally spaced points, by using a planimeter, or by obtaining the median elevation (that exceeded for 50% of the distance) in sectors and averaging those values. In directions where the terrain is such that negative antenna heights or heights below 30.5 meters (100 feet) for the 3.2 to 16.1 kilometers (2 to 10 mile) sector are obtained, an assumed height of 30.5 meters (100 feet) shall be used for the prediction of coverage. However, where the actual contour distances are critical factors, a supplemental showing of expected coverage must be included together with a description of the method employed in predicting such coverage. In special cases, the Commission may

require additional information as to terrain and coverage.

(5) In the preparation of the profile graph previously described, and in determining the location and height above sea level of the antenna site, the elevation or contour intervals shall be taken from the United States Geological Survey Topographic Quadrangle Maps, United States Army Corps of Engineers' maps or Tennessee Valley Authority maps, whichever is the latest, for all areas for which such maps are available. If such maps are not published for the area in question, the next best topographic information should be used. Topographic data may sometimes be obtained from State and Municipal agencies. Data from Sectional Aeronautical Charts (including bench marks) or railroad depot elevations and highway elevations from road maps may be used where no better information is available. In cases where limited topographic data is available, use may be made of an altimeter in a car driven along roads extending generally radially from the transmitter site. United States Geological Survey Topographic Quadrangle Maps may be obtained from the United States Geological Survey, Department of the Interior, Washington, D.C. 20240. Sectional Aeronautical Charts are available from the United States Coast and Geodetic Survey, Department of Commerce, Washington, D.C. 20235. In lieu of maps, the average terrain elevation may be computer generated, except in the cases of dispute, using elevations from a 30 second point or better topographic data file. The file must be identified and the data processed for intermediate points along each radial using linear interpolation techniques. The height above mean sea level of the antenna site must be obtained manually using appropriate topographic maps.

(c) *Antenna system.* (1) The antenna system shall be designed so that the effective radiated power at any angle above the horizontal shall be as low as the state of the art permits, and in the same vertical plane may not exceed the effective radiated power in either the horizontal direction or below the horizontal, whichever is greater.

(2) An antenna designed or altered to produce a noncircular radiation pattern in the horizontal plane is considered to be a directional antenna. Antennas purposely installed in such a manner as to result in the mechanical beam tilting of the major vertical radiation lobe are included in this category.

(3) Applications proposing the use of directional antenna systems must be accompanied by the following:

(i) Complete description of the proposed antenna system, including the manufacturer and model number of the proposed directional antenna.

(ii) Relative field horizontal plane pattern (horizontal polarization only) of the proposed directional antenna. A value of 1.0 should be used for the maximum radiation. The plot of the pattern should be oriented so that 0 degrees corresponds to true North. Where mechanical beam tilt is intended, the amount of tilt in degrees of the antenna vertical axis and the orientation of the downward tilt with respect to true North must be specified, and the horizontal plane pattern must reflect the use of mechanical beam tilt.

(iii) A tabulation of the relative field pattern required in paragraph (c)(3)(ii) of this section. The tabulation should use the same zero degree reference as the plotted pattern, and be tabulated at least every 10 degrees. In addition, tabulated values of all maxima and minima, with their corresponding azimuths, should be submitted.

(iv) Horizontal and vertical plane radiation patterns showing the effective radiated power, in dBk, for each direction. Sufficient vertical plane patterns must be included to indicate clearly the radiation characteristics of the antenna above and below the horizontal plane. In cases where the angles at which the maximum vertical radiation varies with azimuth, a separate vertical radiation pattern must be provided for each pertinent radial direction.

(v) All horizontal plane patterns must be plotted to the largest scale possible on unglazed letter-size polar coordinate paper (main engraving approximately 18 cm×25 cm (7 inches×10 inches)) using only scale divisions and subdivisions of 1, 2, 2.5. or 5 times 10-nth. All vertical plane patterns must be plotted on unglazed letter-size rectangular coordinate paper. Values of field strength on any pattern less than 10 percent of the maximum field strength plotted on that pattern must be shown on an enlarged scale.

(vi) The horizontal and vertical plane patterns that are required are the patterns for the complete directional antenna system. In the case of a composite antenna composed of two or more individual antennas, this means that the patterns for the composite antenna, not the patterns for each of the individual antennas, must be submitted.

(4) Where simultaneous use of antennas or antenna structures is proposed, the following provisions shall apply:

(i) In cases where it is proposed to use a tower of an AM broadcast station as a supporting structure for a DTV broadcast antenna, an appropriate application for changes in the radiating system of the AM broadcast station must be filed by the licensee thereof. A formal application (FCC Form 301, or FCC Form 340 for a noncommercial educational station) will be required if the proposal involves substantial change in the physical height or radiation characteristics of the AM broadcast antennas; otherwise an informal application will be acceptable. (In case of doubt, an informal application (letter) together with complete engineering

data should be submitted.) An application may be required for other classes of stations when the tower is to be used in connection with a DTV station.

(ii) When the proposed DTV antenna is to be mounted on a tower in the vicinity of an AM station directional antenna system and it appears that the operation of the directional antenna system may be affected, an engineering study must be filed with the DTV application concerning the effect of the DTV antenna on the AM directional radiation pattern. Field measurements of the AM stations may be required prior to and following construction of the DTV station antenna, and readjustments made as necessary.

[62 FR 26990, May 16, 1997]

§ 73.635 Use of common antenna site.

No television license or renewal of a television license will be granted to any person who owns, leases, or controls a particular site which is peculiarly suitable for television broadcasting in a particular area and (a) which is not available for use by other television licensees; and (b) no other comparable site is available in the area; and (c) where the exclusive use of such site by the applicant or licensee would unduly limit the number of television stations that can be authorized in a particular area or would unduly restrict competition among television stations.

[28 FR 13660, Dec. 14, 1963]

§ 73.641 Subscription TV definitions.

(a) *Subscription television*. A system whereby subscription television programs are transmitted and received.

(b) *Subscription television program*. A television boadcast program intended to be received in intelligible form for a fee or charge.

[52 FR 6154, Mar. 2, 1987]

§ 73.642 Subscription TV service.

(a) Subscription TV service may be provided by:

(1) Licensees and permittees of commercial TV stations, and

(2) Licensees and permittees of low power TV stations.

(b) A licensee or permittee of a commercial TV station or a low power TV station may begin subscription TV service upon installation of encoding equipment having advance FCC approval. However, the licensee or permittee of a TV broadcast station (not applicable to low power TV stations) must send a letter to the FCC in Washington, DC, that subscription TV service will commence at least 30 days prior to commencement of such service. In that letter, to be entitled ''Notice of Commencement of STV Operations,'' the licensee or permittee is to state that it will comply with the provisions of paragraphs (e)(1) through (e)(3) and § 73.644(c) of this chapter and identify the make and type of encoding system to be used. A similar notice must be submitted if the licensee or permittee commences using another type of encoding system. (See section 644(h).) A notice must also be submitted to the FCC in Washington, DC, if encoded subscription TV service is to be discontinued, at least 30 days prior to such discontinuance.

(c) The station proof of system compliance measurement data (see § 73.644(c)) need not be submitted to the FCC, however, the measurement data must be available to the FCC upon request.

(d) The use of the visual vertical blanking interval or an aural subcarrier for transmitting subscriber decoder control code signals during periods of normal non-encoded programming may be used only upon specific FCC authorization. Letter requests to use either the video blanking intervals or aural subcarriers during periods of non-subscription programming are to be sent to the FCC in Washington, D.C.

(e) A licensee or permittee of a commercial TV broadcast or low power TV station may not transmit a subscription service if it has a contract, arrangement, or understanding, expressed or implied, that:

(1) Prevents or hinders it from rejecting or refusing any subscription TV broadcast program that it reasonably believes to be unsatisfactory or unsuitable or contrary to the public interests; or substituting a subscription or conventional program that, in its opinion, is of greater local or national importance; or

(2) Delegates to any other person the right to schedule the hours of transmission of subscription programs. However, this rule does not prevent a licensee or permittee from entering into an agreement or arrangement whereby it agrees to schedule a specific subscription TV broadcast program at a specific time or to schedule a specific number of hours of subscription programs during the broadcast day (or segments thereof) or weeks; or

(3) Deprives it of the right of ultimate decision concerning the maximum amount of any subscription program charge or fee.

(4) Has provisions that do not comply with the following policies of the FCC:

(i) Unless a satifactory signal is unavailable at the location where service is desired, subscription TV service must be provided to all persons desiring it within the Grade A contour of the station broadcasting subscription programs. Geographic or other reasonable patterns of installation for new subscription services is permitted and, for good cause, service may be terminated.

(ii) Charges, terms and conditions of service to subscribers must be applied uniformly. However, subscribers may be divided into reasonable classifications approved by the FCC, and the impositions of different sets of terms and conditions may be applied to subscribers in different classifications. Further, for good cause, within such classification, deposits may be required from some subscribers and not of others; and, also for good cause, if a subscription system generally uses a credit-type decoder, cash operated decoders may be installed for some subscribers.

[48 FR 56392, Dec. 21, 1983, as amended at 52 FR 6154, Mar. 2, 1987]

§73.643 Subscription TV operating requirements.

The non-technical rules and policies applicable to regular TV broadcast stations are applicable to subscription TV operations, except where specifically exempted in the provisions of those rules and policies.

[48 FR 56392, Dec. 21, 1983]

§73.644 Subscription TV transmission systems.

(a) Licensees and permittees of commercial TV broadcast and low power TV stations may conduct subscription operations only by using an encoding system that has been approved in advance by the FCC. Such advance approval may be applied for and granted in accordance with the procedures given in Subpart M Part 2 of the Rules.

(b) The criteria for advance approval of subscription TV transmitting systems by the FCC are as follows:

(1) Spectral energy in the transmitted signal must not exceed the limitations given in §73.687(e).

(2) No increase in width of the television broadcast channel (6 MHz.) is permitted.

(3) The technical system must enable stations to transmit encoded subscription TV programs without increasing the RMS output power from either the video or audio transmitters over that required to transmit the same program material using normal transmission standards.

(4) Modification of a type accepted TV broadcast or low power TV transmitter for encoded transmissions must not render transmitter incapable of operating in accordance with the operating specifications upon which type acceptance was granted. (See §2.1001 (b), (k))

(5) Interference to reception of conventional television either of co-channel or adjacent channel stations must not increase over that resulting from the transmission of programming with normal transmission standards.

(6) Subscriber decoder devices must meet the provisions, where required, of Subpart H of Part 15 of the FCC Rules for TV Interface Devices.

(c) Prior to commencing the transmission of encoded subscription programming, the licensee or permittee of a TV broadcast or low power TV station must perform such tests and measurements to determine that the transmitted encoded signal conforms to the radiated radio frequency and demodulated baseband and waveforms, transmitter operating power determination, and the occupied bandwidth limitations specified in the application for advance FCC approval of the system

being used. A copy of the measurement data is to be maintained in the station files and made available to the FCC upon request.

(d) The licensee of a station transmitting an encoded subscription service must have at the transmitter control point the technical specifications for the system being used of both the aural and visual baseband signals and the transmitted radiofrequency signals, and have the necessary measuring and monitoring equipment, including transmitter output power measuring equipment, to determine that the transmissions conform to the advance approval specifications on file with the FCC. Full operating specifications for the system must be available to representatives of the FCC upon request.

(e) The operating power of the transmitters during encoded operations must be determined and maintained according to the procedures given in the application for advance approval.

(f) A station using an encoding system in accordance with the specifications filed with the application for advance approval is deemed to be exempted from those technical regulations of this Subpart and Subpart H to the extent they are specifically detailed in the application.

(g) No protection from interference of any kind will be afforded to reception of encoded subscription programming over that afforded reception of non-encoded signals.

(h) A licensee or permittee may make no modifications on a subscription encoding system that would alter the characteristics of the transmitted aural or visual signal from those specified in the application for advance approval. A licensee or permittee of a station replacing its encoding system must perform the measurements required by paragraph (c) of this section. A TV broadcast station licensee or permittee must also send a letter advising the FCC of the new system being used as required by § 73.642(b) of this chapter.

(i) The station licensee is fully responsible for all technical operations of the station during transmissions of encoded subscription programming, regardless of the supplier of the encoding equipment or subscription program service.

NOTE: Stations transmitting encoded subscription programming prior to October 1, 1983, must comply with all technical and operating requirements of this Section no later than April 1, 1984. Stations not having the information to comply with this Section must obtain such information from the manufacturer of the encoding system being used, and if necessary, by measurements of the station's transmission system.

(j) Upon request by an authorized representative of the FCC, the licensee of a TV station transmitting encoded programming must make available a receiving decoder to the Commission to carry out its regulatory responsibilities.

[48 FR 56392, Dec. 21, 1983, as amended at 57 FR 48333, Oct. 23, 1992]

§ 73.646 Telecommunications Service on the Vertical Blanking Interval and in the Visual Signal.

(a) Telecommunications services permitted on the vertical blanking interval (VBI) and in the visual signal include the transmission of data, processed information, or any other communication in either a digital or analog mode.

(b) Telecommunications service on the VBI and in the visual signal is of an ancillary nature and as such is an elective, subsidiary activity. No service guidelines, limitations, or performance standards are applied to it. The kinds of service that may be provided include, but are not limited to, teletext, paging, computer software and bulk data distribution, and aural messages. Such services may be provided on a broadcast, point-to-point, or point to multipoint basis.

(c) Telecommunications services that are common carrier in nature are subject to common carrier regulation. Licensees operating such services are required to apply to the Commission for the appropriate authorization and to comply with all policies and rules applicable to the particular service.

(d) Television licensees are authorized to lease their VBI and visual signal telecommunications facilities to outside parties. In all arrangements entered into with outside parties affecting telecommunications service operation, the licensee or permittee must

retain control over all material transmitted in a broadcast mode via the station's facilities, with the right to reject any material that it deems inappropriate or undesirable. The licensee or permittee is also responsible for all aspects of technical operation involving such telecommunications services.

(e) The grant or renewal of a TV station license or permit will not be furthered or promoted by proposed or past VBI or visual signal telecommunications service operation; the licensee must establish that its broadcast operation serves the public interest wholly apart from such telecommunications service activities. (Violation of rules applicable to VBI and visual signal telecommunications services could, of course, reflect on a licensee's qualifications to hold its license or permit.)

(f) TV broadcast stations are authorized to transmit VBI and visual telecommunications service signals during any time period, including portions of the day when normal programming is not broadcast. Such transmissions must be in accordance with the technical provisions of § 73.682.

[50 FR 4663, Feb. 1, 1985, as amended at 50 FR 9035, Mar. 6, 1985; 61 FR 36304, July 10, 1996]

§ 73.653 Operation of TV aural and visual transmitters.

The aural and visual transmitters may be operated independently of each other or, if operated simultaneously, may be used with different and unrelated program material.

[54 FR 9806, Mar. 8, 1989]

§ 73.658 Affiliation agreements and network program practices; territorial exclusivity in non-network program arrangements.

(a) *Exclusive affiliation of station.* No license shall be granted to a television broadcast station having any contract, arrangement, or understanding, express or implied, with a network organization under which the station is prevented or hindered from, or penalized for, broadcasting the programs of any other network organization. (The term ''network organization'' as used in this section includes national and regional network organizations. See ch. VII, J, of Report on Chain Broadcasting.)

(b) *Territorial exclusively.* No license shall be granted to a television broadcast station having any contract, arrangement, or understanding, express or implied, with a network organization which prevents or hinders another broadcast station located in the same community from broadcasting the network's programs not taken by the former station, or which prevents or hinders another broadcast station located in a different community from broadcasting any program of the network organization. This section shall not be construed to prohibit any contract, arrangement, or understanding between a station and a network organization pursuant to which the station is granted the first call in its community upon the programs of the network organization. As employed in this paragraph, the term ''community'' is defined as the community specified in the instrument of authorization as the location of the station.

(c) [Reserved]

(d) *Station commitment of broadcast time.* No license shall be granted to a television broadcast station having any contract, arrangement, or understanding, express or implied, with any network organization, which provides for optioning of the station's time to the network organization, or which has the same restraining effect as time optioning. As used in this section, time optioning is any contract, arrangement, or understanding, express or implied, between a station and a network organization which prevents or hinders the station from scheduling programs before the network agrees to utilize the time during which such programs are scheduled, or which requires the station to clear time already scheduled when the network organization seeks to utilize the time.

(e) *Right to reject programs.* No license shall be granted to a television broadcast station having any contract, arrangement, or understanding, express or implied, with a network organization which, with respect to programs offered or already contracted for pursuant to an affiliation contract, prevents or hinders the station from:

(1) Rejecting or refusing network programs which the station reasonably believes to be unsatisfactory or unsuitable or contrary to the public interest, or

(2) Substituting a program which, in the station's opinion, is of greater local or national importance.

(f) [Reserved]

(g) *Dual network operation.* A television broadcast station may affiliate with a person or entity that maintains two or more networks of television broadcast stations *unless* such dual or multiple networks are composed of:

(1) Two or more persons or entities that, on February 8, 1996, were ''networks.'' For the purposes of this paragraph, the term network means any person, entity, or corporation which offers an interconnected program service on a regular basis for 15 or more hours per week to at least 25 affiliated television licensees in 10 or more states; and/or any person, entity, or corporation controlling, controlled by, or under common control with such person, entity, or corporation; or

(2) Any network described in paragraph (g)(1) of this section and an English-language program distribution service that, on February 8, 1996, provided four or more hours of programming per week on a national basis pursuant to network affiliation arrangements with local television broadcast stations in markets reaching more than 75 percent of television homes (as measured by a national ratings service).

(h) *Control by networks of station rates.* No license shall be granted to a television broadcast station having any contract, arrangement, or understanding, express or implied, with a network organization under which the station is prevented or hindered from, or penalized for, fixing or altering its rates for the sale of broadcast time for other than the network's programs.

(i) No license shall be granted to a television broadcast station which is represented for the sale of non-network time by a network organization or by an organization directly or indirectly controlled by or under common control with a network organization, if the station has any contract, arrangement or understanding, express or implied, which provides for the affiliation of the station with such network organization: *Provided, however,* That this rule shall not be applicable to stations licensed to a network organization or to a subsidiary of a network organization.

(j)—(l) [Reserved]

(m) *Territorial exclusivity in non-network arrangements.* (1) No television station shall enter into any contract, arrangement, or understanding, expressed or implied; with a non-network program producer, distributor, or supplier, or other person; which prevents or hinders another television station located in a community over 56.3 kilometers (35 miles) away, as determined by the reference points contained in § 76.53 of this chapter, (if reference points for a community are not listed in § 76.53, the location of the main post office will be used) from broadcasting any program purchased by the former station from such non-network program producer, distributor, supplier, or other person, except that a television station may secure exclusivity against a television station licensed to another designated community in a hyphenated market specified in the market listing as contained in § 76.51 of this chapter for those 100 markets listed, and for markets not listed in § 76.51 of this chapter, the listing as contained in the ARB Television Market Analysis for the most recent year at the time that the exclusivity contract, arrangement or understanding is complete under practices of the industry. As used in this paragraph, the term ''community'' is defined as the community specified in the instrument of authorization as the location of the station.

(2) Notwithstanding paragraph (m)(1) of this section, a television station may enter into a contract, arrangement, or understanding with a producer, supplier, or distributor of a non-network program if that contract, arrangement, or understanding provides that the broadcast station has exclusive national rights such that no other television station in the United States may broadcast the program.

NOTE 1: Contracts, arrangements, or understandings that are complete under the practices of the industry prior to August 7, 1973, will not be disturbed. Extensions or renewals

of such agreements are not permitted because they would in effect be new agreements without competitive bidding. However, such agreements that were based on the broadcaster's advancing ''seed money'' for the production of a specific program or series that specify two time periods—a tryout period and period thereafter for general exhibition—may be extended or renewed as contemplated in the basic agreement.

NOTE 2: It is intended that the top 100 major television markets listed in §76.51 of this chapter shall be used for the purposes of this rule and that the listing of the top 100 television markets appearing in the ARB Television Market Analysis shall not be used. The reference in this rule to the listing of markets in the ARB Television Market Analysis refers to hyphenated markets below the top-100 markets contained in the ARB Television Market Analysis. If a community is listed in a hyphenated market in §76.51 and is also listed in one of the markets in the ARB listing, the listing in §76.51 shall govern.

NOTE 3: The provisions of this paragraph apply only to U.S. commercial television broadcast stations in the 50 states, and not to stations in Puerto Rico or the Virgin Islands, foreign stations or noncommercial educational television or ''public'' television stations (either by way of restrictions on their exclusivity or on exclusivity against them).

NOTE 4: New stations authorized in any community of a hyphenated market listed in §76.51 of this chapter or in any community of a hyphenated market listed in the ARB Television Market Analysis (for markets below the top-100 markets) are subject to the same rules as previously existing stations therein. New stations authorized in other communities are considered stations in separate markets unless and until §76.51 is amended by Commission action, or the ARB listing is changed.

(Sec. 5, 48 Stat. 1068 (47 U.S.C. 155))

[28 FR 13660, Dec. 14, 1963]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting §73.658, see the List of CFR Sections Affected in the Finding Aids section of this volume.

§§73.659—73.663 [Reserved]

§73.664 Determining operating power.

(a) The operating power of each TV visual transmitter shall normally be determined by the direct method.

(b) *Direct method, visual transmitter.* The direct method of power determination for a TV visual transmitter uses the indications of a calibrated transmission line meter (responsive to peak power) located at the RF output terminals of the transmitter. The indications of the calibrated meter are used to observe and maintain the authorized operating power of the visual transmitter. This meter must be calibrated whenever any component in the metering circuit is repaired or replaced and as often as necessary to ensure operation in accordance with the provisions of §73.1560 of this part. The following calibration procedures are to be used:

(1) The transmission line meter is calibrated by measuring the average power at the output terminals of the transmitter, including any vestigial sideband and harmonic filters which may be used in normal operation. For this determination the average power output is measured while operating into a dummy load of substantially zero reactance and a resistance equal to the transmission line characteristic impedance. During this measurement the transmitter is to be modulated only by a standard synchronizing signal with blanking level set at 75% of peak amplitude as observed in an output waveform monitor, and with this blanketing level amplitude maintained throughout the time interval between synchronizing pulses.

(2) If electrical devices are used to determine the output power, such devices must permit determination of this power to within an accuracy of ±5% of the power indicated by the full scale reading of the electrical indicating instrument of the device. If temperature and coolant flow indicating devices are used to determine the power output, such devices must permit determination of this power to within an accuracy of ±4% of measured average power output. The peak power output is the power so measured in the dummy load multiplied by the factor 1.68. During this measurement the input voltage and current to the final radio frequency amplifier stage and the transmission line meter are to be read and compared with similar readings taken with the dummy load replaced by the antenna. These readings must be in substantial agreement.

(3) The meter must be calibrated with the transmitter operating at 80%, 100%, and 110% of the authorized power

as often as may be necessary to maintain its accuracy and ensure correct transmitter operating power. In cases where the transmitter is incapable of operating at 110% of the authorized power output, the calibration may be made at a power output between 100% and 110% of the authorized power output. However, where this is done, the output meter must be marked at the point of calibration of maximum power output, and the station will be deemed to be in violation of this rule if that power is exceeded. The upper and lower limits of permissible power deviation as determined by the prescribed calibration, must be shown upon the meter either by means of adjustable red markers incorporated in the meter or by red marks placed upon the meter scale or glass face. These markings must be checked and changed, if necessary, each time the meter is calibrated.

(c) *Indirect method, visual transmitter.* The operating power is determined by the indirect method by applying an appropriate factor to the input power to the final radio-frequency amplifier stage of the transmitter using the following formula:

Transmitter output power=Ep x Ip x *F*

Where:

Ep=DC input voltage of the final radio-frequency amplifier stage.
Ip=DC input current of the final radio-frequency amplifier stage.
F=Efficiency factor.

(1) If the above formula is not appropriate for the design of the transmitter final amplifier, use a formula specified by the transmitter manufacturer with other appropriate operating parameters.

(2) The value of the efficiency factor, *F* established for the authorized transmitter output power is to be used for maintaining the operating power, even though there may be some variation in *F* over the power operating range of the transmitter.

(3) The value of *F* is to be determined and a record kept thereof by one of the following procedures listed in order of preference:

(i) Using the most recent measurement data for calibration of the transmission line meter according to the procedures described in paragraph (b) of this section or the most recent measurements made by the licensee establishing the value of F. In the case of composite transmitters or those in which the final amplifier stages have been modified pursuant to FCC approval, the licensee must furnish the FCC and also retain with the station records the measurement data used as a basis for determining the value of F.

(ii) Using measurement data shown on the transmitter manufacturer's test data supplied to the licensee, provided that measurements were made at the authorized carrier frequency and transmitter output power.

(iii) Using the transmitter manufacturer's measurement data submitted to the FCC for type acceptance as shown in the instruction book supplied to the licensee.

NOTE: Refer to § 73.1560 for aural transmitter output power levels.

[44 FR 58732, Oct. 11, 1979, as amended at 48 FR 44805, Sept. 30, 1983; 49 FR 4210, Feb. 3, 1984; 49 FR 22092, May 25, 1984; 49 FR 49851, Dec. 24, 1984; 50 FR 26568, June 27, 1985; 54 FR 9806, Mar. 8, 1989. Redesignated at 58 FR 62555, Nov. 29, 1993]

§ 73.665 Use of TV aural baseband subcarriers.

Licensees of TV broadcast stations may transmit, without further authorization from the FCC, subcarriers and signals within the composite baseband for the following purposes:

(a) Stereophonic (biphonic, quadraphonic, etc.) sound programs under the provisions of §§ 73.667 and 73.669.

(b) Transmission of signals relating to the operation of TV stations, such as relaying broadcast materials to other stations, remote cueing and order messages, and control and telemetry signals for the transmitting system.

(c) Transmission of pilot or control signals to enhance the station's program service such as (but not restricted to) activation of noise reduction decoders in receivers, for any other receiver control purpose, or for program alerting and program identification.

(d) Subsidiary communications services.

[49 FR 18105, Apr. 27, 1984]

§ 73.667 TV subsidiary communications services.

(a) Subsidiary communications services are those transmitted within the TV aural baseband signal, but do not include services which enhance the main program broadcast service or exclusively relate to station operations (see § 73.665(a), (b), and (c)). Subsidiary communications include, but are not limited to, services such as functional music, specialized foreign language programs, radio reading services, utility load management, market and financial data and news, paging and calling, traffic control signal switching, and point-to-point or multipoint messages.

(b) TV subsidiary communications services that are common carrier or private radio in nature are subject to common carrier or private radio regulation. Licensees operating such services are required to apply to the FCC for the appropriate authorization and to comply with all policies and rules applicable to the service. Responsibility for making the initial determinations of whether a particular activity requires separate authority rests with the TV station licensee or permittee. Initial determinations by licensees or permittees are subject to FCC examination and may be reviewed at the FCC's discretion.

(c) Subsidiary communications services are of a secondary nature under the authority of the TV station authorization, and the authority to provide such communications services may not be retained or transferred in any manner separate from the station's authorization. The grant or renewal of a TV station permit or license is not furthered or promoted by proposed or past subsidiary communications services. The permittee or licensee must establish that the broadcast operation is in the public interest wholly apart from the subsidiary communications services provided.

(d) The station identification, delayed recording, and sponsor identification announcement required by §§ 73.1201, 73.1208, and 73.1212 are not applicable to leased communications services transmitted via services that are not of a general broadcast nature.

(e) The licensee or permittee must retain control over all material transmitted in a broadcast mode via the station's facilities, with the right to reject any material that it deems inappropriate or undesirable.

[49 FR 18105, Apr. 27, 1984, as amended at 49 FR 27147, July 2, 1984; 56 FR 49707, Oct. 1, 1991]

§ 73.669 TV stereophonic aural and multiplex subcarrier operation.

(a) A TV broadcast station may without specific authority from the FCC, transmit multichannel aural programs upon installation of multichannel sound equipment. Prior to commencement of multichannel broadcasting, the equipment shall be measured in accordance with § 73.1690(e).

(b) Multiplex subcarriers may be used by a TV station pursuant to the provisions of § 73.665 and may be transmitted on a secondary, non-interference basis to broadcast programming without specific authority from the FCC. Transmissions must be conducted in accordance with the technical standards given in § 73.682(c).

(c) In all arrangements entered into with outside parties affecting non-common carrier subcarrier operation, the licensee or permittee must retain control over all material transmitted over the station's facilities, with the right to reject any material which is deemed inappropriate or undesirable. Subchannel leasing arrangements must be kept in writing at the station and made available to the FCC upon request.

[49 FR 18106, Apr. 27, 1984]

§ 73.670 Commercial limits in children's programs.

No commercial television broadcast station licensee shall air more than 10.5 minutes of commercial matter per hour during children's programming on weekends, or more than 12 minutes of commercial matter per hour on weekdays.

NOTE 1: *Commerical matter* means air time sold for purposes of selling a product or service.

NOTE 2: For purposes of this section, *children's programming* refers to programs originally produced and broadcast primarily for an audience of children 12 years old and younger.

[56 FR 19616, Apr. 29, 1991; 56 FR 28825, June 25, 1991]

§ 73.671 Educational and informational programming for children.

(a) Each commercial and noncommercial educational television broadcast station licensee has an obligation to serve, over the term of its license, the educational and informational needs of children through both the licensee's overall programming and programming specifically designed to serve such needs.

(b) Any special nonbroadcast efforts which enhance the value of children's educational and informational television programming, and any special effort to produce or support educational and informational television programming by another station in the licensee's marketplace, may also contribute to meeting the licensee's obligation to serve, over the term of its license, the educational and informational needs of children.

(c) For purposes of this section, educational and informational television programming is any television programming that furthers the educational and informational needs of children 16 years of age and under in any respect, including the child's intellectual/cognitive or social/emotional needs. Programming specifically designed to serve the educational and informational needs of children (''Core Programming'') is educational and informational programming that satisfies the following additional criteria:

(1) It has serving the educational and informational needs of children ages 16 and under as a significant purpose;

(2) It is aired between the hours of 7:00 a.m. and 10:00 p.m.;

(3) It is a regularly scheduled weekly program;

(4) It is at least 30 minutes in length;

(5) The educational and informational objective and the target child audience are specified in writing in the licensee's Children's Television Programming Report, as described in § 73.3526(a)(8)(iii); and

(6) Instructions for listing the program as educational/informational, including an indication of the age group for which the program is intended, are provided by the licensee to publishers of program guides, as described in § 73.673(b).

NOTE 1 TO § 73.671: For purposes of determining under this section whether programming has a significant purpose of serving the educational and informational needs of children, the Commission will ordinarily rely on the good faith judgments of the licensee. Commission review of compliance with that element of the definition will be done only as a last resort.

NOTE 2 TO § 73.671: The Commission will use the following processing guideline in assessing whether a television broadcast licensee has complied with the Children's Television Act of 1990 (''CTA''). A licensee that has aired at least three hours per week of Core Programming (as defined in paragraph (c) of this section and as averaged over a six month period) will be deemed to have satisfied its obligation to air such programming and shall have the CTA portion of its license renewal application approved by the Commission staff. A licensee will also be deemed to have satisfied this obligation and be eligible for such staff approval if the licensee demonstrates that it has aired a package of different types of educational and informational programming that, while containing somewhat less than three hours per week of Core Programming, demonstrates a level of commitment to educating and informing children that is at least equivalent to airing three hours per week of Core Programming. In this regard, specials, PSAs, short-form programs, and regularly scheduled non-weekly programs with a significant purpose of educating and informing children can count toward the three hour per week processing guideline. Licensees that do not meet these processing guidelines will be referred to the Commission, where they will have full opportunity to demonstrate compliance with the CTA (*e.g.*, by relying in part on sponsorship of core educational/informational programs on other stations in the market that increases the amount of core educational and informational programming on the station airing the sponsored program and/or on special nonbroadcast efforts which enhance the value of children's educational and informational television programming).

[56 FR 19616, Apr. 29, 1991. Redesignated at 56 FR 28825, June 25, 1991, as amended at 61 FR 43997, Aug. 27, 1996]

§ 73.672 [Reserved]

§ 73.673 Public information initiatives regarding educational and informational programming for children.

(a) Each commercial television broadcast licensee shall identify programs specifically designed to educate and inform children at the beginning of the program, in a form that is in the discretion of the licensee.

(b) Each commercial television broadcast station licensee shall provide information identifying programming specifically designed to educate and inform children to publishers of program guides. Such information shall include an indication of the age group for which the program is intended.

[61 FR 43998, Aug. 27, 1996]

EFFECTIVE DATE NOTE: At 61 FR 43998, Aug. 27, 1996, § 73.673 was added, effective either Jan. 2, 1997 or after approval has been given by the Office of Management and Budget, whichever comes later.

§ 73.681 Definitions.

Amplitude modulation (*AM*). A system of modulation in which the envelope of the transmitted wave contains a component similar to the wave form of the signal to be transmitted.

Antenna electrical beam tilt. The shaping of the radiation pattern in the vertical plane of a transmitting antenna by electrical means so that maximum radiation occurs at an angle below the horizontal plane.

Antenna height above average terrain. The average of the antenna heights above the terrain from approximately 3.2 (2 miles) to 16.1 kilometers (10 miles) from the antenna for the eight directions spaced evenly for each 45 degrees of azimuth starting with True North. (In general, a different antenna height will be determined in each direction from the antenna. The average of these various heights is considered the antenna height above the average terrain. In some cases less than 8 directions may be used. See § 73.684(d)). Where circular or elliptical polarization is employed, the antenna height above average terrain shall be based upon the height of the radiation center of the antenna which transmits the horizontal component of radiation.

Antenna mechanical beam tilt. The intentional installation of a transmitting antenna so that its axis is not vertical, in order to change the normal angle of maximum radiation in the vertical plane.

Antenna power gain. The square of the ratio of the root-mean-square free space field strength produced at 1 kilometer in the horizontal plane, in millivolts per meter for one kW antenna input power to 221.4 mV/m. This ratio should be expressed in decibels (dB). (If specified for a particular direction, antenna power gain is based on the field strength in that direction only.)

Aspect ratio. The ratio of picture width to picture height as transmitted.

Aural center frequency. (1) The average frequency of the emitted wave when modulated by a sinusoidal signal; (2) the frequency of the emitted wave without modulation.

Aural transmitter. The radio equipment for the transmission of the aural signal only.

Auxiliary facility. An auxiliary facility is an antenna separate a from the main facility's antenna, permanently installed on the same tower or at a different location, from which a station may broadcast for short periods without prior Commission authorization or notice to the Commission while the main facility is not in operation (*e.g.*, where tower work necessitates turning off the main antenna or where lightning has caused damage to the main antenna or transmission system) (*See* § 73.1675).

BTSC. Broadcast Television systems committee recommendation for multichannel television sound transmission and audio processing as defined in FCC Bulletin OET 60.

Baseband. Aural transmitter input signals between 0 and 120 kHz.

Blanking level. The level of the signal during the blanking interval, except the interval during the scanning synchronizing pulse and the chrominance subcarrier synchronizing burst.

Chrominance. The colorimetric difference between any color and a reference color of equal luminance, the reference color having a specific chromaticity.

Chrominance subcarrier. The carrier which is modulated by the chrominance information.

Color transmission. The transmission of color television signals which can be reproduced with different values of hue, saturation, and luminance.

Effective radiated power. The product of the antenna input power and the antenna power gain. This product should be expressed in kW and in dB above 1 kW (dBk). (If specified for a particular direction, effective radiated power is based on the antenna power gain in that direction only. The licensed effective radiated power is based on the maximum antenna power gain. When a station is authorized to use a directional antenna or an antenna beam tilt, the direction of the maximum effective radiated power will be specified.) Where circular or elliptical polarization is employed, the term effective radiated power is applied separately to the horizontally and vertically polarized components of radiation. For assignment purposes, only the effective radiated power authorized for the horizontally polarized component will be considered.

Equivalent isotropically radiated power (EIRP). The term ''equivalent isotropically radiated power'' (also known as ''effective radiated power above isotropic'') means the product of the antenna input power and the antenna gain in a given direction relative to an isotropic antenna.

Field. Scanning through the picture area once in the chosen scanning pattern. In the line interlaced scanning pattern of two to one, the scanning of the alternate lines of the picture area once.

Frame. Scanning all of the picture area once. In the line interlaced scanning pattern of two to one, a frame consists of two fields.

Free space field strength. The field strength that would exist at a point in the absence of waves reflected from the earth or other reflecting objects.

Frequency departure. The amount of variation of a carrier frequency or center frequency from its assigned value.

Frequency deviation. The peak difference between the instantaneous frequency of the modulated wave and the carrier frequency.

Frequency modulation (*FM*). A system of modulation where the instantaneous radio frequency varies in proportion to the instantaneous amplitude of the modulating signal (amplitude of modulating signal to be measured after pre-emphasis, if used) and the instantaneous radio frequency is independent of the frequency of the modulating signal.

Frequency swing. The peak difference between the maximum and the minimum values of the instantaneous frequency of the carrier wave during modulation.

Interlaced scanning. A scanning process in which successively scanned lines are spaced an integral number of line widths, and in which the adjacent lines are scanned during successive cycles of the field frequency.

IRE standard scale. A linear scale for measuring, in IRE units, the relative amplitudes of the components of a television signal from a zero reference at blanking level, with picture information falling in the positive, and synchronizing information in the negative domain.

NOTE: When a carrier is amplitude modulated by a television signal in accordance with § 73.682, the relationship of the IRE standard scale to the conventional measure of modulation is as follows:

Level	IRE standard scale (units)	Modulation percentage
Zero carrier	120	0
Reference white	100	12.5
Blanking	0	75
Synchronizing peaks (maximum carrier level)	−40	100

Luminance. Luminous flux emitted, reflected, or transmitted per unit solid angle per unit projected area of the source.

Main channel. The band of frequencies from 50 to 15,000 Hertz which frequency modulate the main aural carrier.

Monochrome transmission. The transmission of television signals which can be reproduced in gradations of a single color only.

Multichannel Television Sound (MTS). Any system of aural transmission that

utilizes aural baseband operation between 15 kHz and 120 kHz to convey information or that encodes digital information in the video portion of the television signal that is intended to be decoded as audio information.

Multiplex Transmission (*Aural*). A subchannel added to the regular aural carrier of a television broadcast station by means of frequency modulated subcarriers.

Negative transmission. Where a decrease in initial light intensity causes an increase in the transmitted power.

Peak power. The power over a radio frequency cycle corresponding in amplitude to synchronizing peaks.

Percentage modulation. As applied to frequency modulation, the ratio of the actual frequency deviation to the frequency deviation defined as 100% modulation expressed in percentage. For the aural transmitter of TV broadcast stations, a frequency deviation of ±25 kHz is defined as 100% modulation.

Pilot subcarrier. A subcarrier used in the reception of TV stereophonic aural or other subchannel broadcasts.

Polarization. The direction of the electric field as radiated from the transmitting antenna.

Program related data signal. A signal, consisting of a series of pulses representing data, which is transmitted simultaneously with and directly related to the accompanying television program.

Reference black level. The level corresponding to the specified maximum excursion of the luminance signal in the black direction.

Reference white level of the luminance signal. The level corresponding to the specified maximum excursion of the luminance signal in the white direction.

Scanning. The process of analyzing successively, according to a predetermined method, the light values of picture elements constituting the total picture area.

Scanning line. A single continuous narrow strip of the picture area containing highlights, shadows, and halftones, determined by the process of scanning.

Standard television signal. A signal which conforms to the television transmission standards.

Synchronization. The maintenance of one operation in step with another.

Television broadcast band. The frequencies in the band extending from 54 to 806 megahertz which are assignable to television broadcast stations. These frequencies are 54 to 72 megahertz (channels 2 through 4), 76 to 88 megahertz (channels 5 and 6), 174 to 216 megahertz (channels 7 through 13), and 470 to 806 megahertz (channels 14 through 69).

Television broadcast station. A station in the television broadcast band transmitting simultaneous visual and aural signals intended to be received by the general public.

Television channel. A band of frequencies 6 MHz wide in the television broadcast band and designated either by number or by the extreme lower and upper frequencies.

Television transmission standards. The standards which determine the characteristics of a television signal as radiated by a television broadcast station.

Television transmitter. The radio transmitter or transmitters for the transmission of both visual and aural signals.

Vestigial sideband transmission. A system of transmission wherein one of the generated sidebands is partially attenuated at the transmitter and radiated only in part.

Visual carrier frequency. The frequency of the carrier which is modulated by the picture information.

Visual transmitter. The radio equipment for the transmission of the visual signal only.

Visual transmitter power. The peak power output when transmitting a standard television signal.

[28 FR 13660, Dec. 14, 1963, as amended at 35 FR 5692, Apr. 8, 1970; 36 FR 5505, Mar. 24, 1971; 36 FR 17429, Aug. 31, 1971; 41 FR 56325, Dec. 28, 1976; 42 FR 20823, Apr. 22, 1977; 44 FR 36039, June 20, 1979; 47 FR 35990, Aug. 18, 1982; 49 FR 18106, Apr. 27, 1984; 49 FR 38131, Sept. 27, 1984; 49 FR 50048, Dec. 26, 1984; 50 FR 23699, June 5, 1985; 51 FR 12616, Apr. 14, 1986; 56 FR 49707, Oct. 1, 1991; 58 FR 44951, Aug. 25, 1993; 62 FR 51059, Sept. 30, 1997]

EFFECTIVE DATE NOTE: At 62 FR 51059, Sept. 30, 1997, § 73.681 was amended by adding the definition *Auxiliary facility*, effective Dec. 1, 1997.

§ 73.682 TV transmission standards.

(a) *Transmission standards.* (1) The width of the television broadcast channel shall be 6 MHz.

(2) The visual carrier frequency shall be nominally 1.25 MHz above the lower boundary of the channel.

(3) The aural center frequency shall be 4.5 MHz higher than the visual carrier frequency.

(4) The visual transmission amplitude characteristic shall be in accordance with the chart designated as Figure 5 of § 73.699: *Provided, however,* That for stations operating on Channel 15 through 69 and employing a transmitter with maximum peak visual power output of 1 kW or less the visual transmission amplitude characteristic may be in accordance with the chart designated as Figure 5a of § 73.699.

(5) The chrominance subcarrier frequency is 63/88 times precisely 5 MHz (3.57954545 . . . MHz). The tolerance is ± 10 Hz and the rate of frequency drift must not exceed 0.1 Hz per second (cycles per second squared).

(6) For monochrome and color transmissions the number of scanning lines per frame shall be 525, interlaced two to one in successive fields. The horizontal scanning frequency shall be 2/455 times the chrominance subcarrier frequency; this corresponds nominally to 15,750 Hz with an actual value of 15,734.264 ±0.044 Hz). The vertical scanning frequency is 2/525 times the horizontal scanning frequency; this corresponds nominally to 60 Hz (the actual value is 59.94 Hz). For monochrome transmissions only, the nominal values of line and field frequencies may be used.

(7) The aspect ratio of the transmitted television picture shall be 4 units horizontally to 3 units vertically.

(8) During active scanning intervals, the scene shall be scanned from left to right horizontally and from top to bottom vertically, at uniform velocities.

(9) A carrier shall be modulated within a single television channel for both picture and synchronizing signals. The two signals comprise different modulation ranges in amplitude in accordance with the following:

(i) Monochrome transmissions shall comply with synchronizing waveform specifications in Figure 7 of § 73.699.

(ii) Color transmissions shall comply with the synchronizing waveform specifications in Figure 6 of § 73.699.

(iii) All stations operating on Channels 2 through 14 and those stations operating on Channels 15 through 69 licensed for a peak visual transmitter output power greater than one kW shall comply with the picture transmission amplitude characteristics shown in Figure 5 of § 73.699.

(iv) Stations operating on Channels 15 through 69 licensed for a peak visual transmitter output power of one kW or less shall comply with the picture transmission amplitude characteristic shown in Figure 5 or 5a of § 73.699.

(10) A decrease in initial light intensity shall cause an increase in radiated power (negative transmission).

(11) The reference black level shall be represented by a definite carrier level, independent of light and shade in the picture.

(12) The blanking level shall be transmitted at 75±2.5 percent of the peak carrier level.

(13) The reference white level of the luminance signal shall be 12.5±2.5 percent of the peak carrier level.

(14) It shall be standard to employ horizontal polarization. However, circular or elliptical polarization may be employed if desired, in which case clockwise (right hand) rotation, as defined in the IEEE Standard Definition 42A65–3E2, and transmission of the horizontal and vertical components in time and space quadrature shall be used. For either omnidirectional or directional antennas the licensed effective radiated power of the vertically polarized component may not exceed the licensed effective radiated power of the horizontally polarized component. For directional antennas, the maximum effective radiated power of the vertically polarized component shall not exceed the maximum effective radiated power of the horizontally polarized component in any specified horizontal or vertical direction.

(15) The effective radiated power of the aural transmitter must not exceed 22% of the peak radiated power of the visual transmitter.

(16) The peak-to-peak variation of transmitter output within one frame of

video signal due to all causes, including hum, noise, and low-frequency response, measured at both scanning synchronizing peak and blanking level, shall not exceed 5 percent of the average scanning synchronizing peak signal amplitude. This provision is subject to change but is considered the best practice under the present state of the art. It will not be enforced pending a further determination thereof.

(17) The reference black level shall be separated from the blanking level by the setup interval, which shall be 7.5±2.5 percent of the video range from blanking level to the reference white level.

(18) For monochrome transmission, the transmitter output shall vary in substantially inverse logarithmic relation to the brightness of the subject. No tolerances are set at this time. This provision is subject to change but is considered the best practice under the present state of the art. It will not be enforced pending a further determination thereof.

(19) The color picture signal shall correspond to a luminance component transmitted as amplitude modulation of the picture carrier and a simultaneous pair of chrominance components transmitted as the amplitude modulation sidebands of a pair of suppressed subcarriers in quadrature.

(20) Equation of complete color signal.

(i) The color picture signal has the following composition:

$$E_M = E_Y' + [E_Q' \sin(\omega t + 33°) + E_I' \cos(\omega t + 33°)]$$

Where:

$E_Q' = 0.41(E_B' - E_Y') + 0.48(E_R' - E_Y')$.

$E_I' = -0.27(E_B' - E_Y') + 0.74(E_R' - E_Y')$.

$E_Y' = 0.30E_R' + 0.59E_G' + 0.—1E_B'$.

For color-difference frequencies below 500 kHz (see (iii) below), the signal can be represented by:

$$E_M = E_Y' + [(1/1.14)[(1/1.78)(E_B' - E_Y') \sin \omega t + (E_R' - E_Y') \cos \omega t]]$$

(ii) The symbols in paragraph (a)(20)(i) of this section have the following significance:

E_M is the total video voltage, corresponding to the scanning of a particular picture element, applied to the modulator of the picture transmitter.

E_Y' is the gamma-corrected voltage of the monochrome (black-and-white) portion of the color picture signal, corresponding to the given picture element.

NOTE: Forming of the high frequency portion of the monochrome signal in a different manner is permissible and may in fact be desirable in order to improve the sharpness on saturated colors.

E_Q' and E_I' are the amplitudes of two orthogonal components of the chrominance signal corresponding respectively to narrow-band and wide-band axes.

E_R', E_G', and E_B' are the gamma-corrected voltages corresponding to red, green, and blue signals during the scanning of the given picture element.

ω is the angular frequency and is 2 times the frequency of the chrominance subcarrier.

The portion of each expression between brackets in (i) represents the chrominance subcarrier signal which carries the chrominance information.

The phase reference in the E_M equation in (i) is the phase of the burst+180°, as shown in Figure 8 of § 73.699. The burst corresponds to amplitude modulation of a continuous sine wave.

(iii) The equivalent bandwidth assigned prior to modulation to the color difference signals E_Q' and E_I' are as follows:

Q–channel bandwidth:
At 400 kHz less than 2 dB down.
At 500 kHz less than 6 dB down.
At 600 kHz at least 6 dB down.

I–channel bandwidth:
At 1.3 MHz less than 2 dB down.
At 3.6 MHz at least 20 dB down.

(iv) The gamma corrected voltages E_R', E_G', and E_B' are suitable for a color picture tube having primary colors with the following chromaticities in the CIE system of specification:

	x	*y*
Red (R)	0.67	0.33
Green (G)	0.21	0.71
Blue (B)	0.14	0.08

and having a transfer gradient (gamma exponent) of 2.2 associated with each primary color. The voltages E_R', E_G', and E_B' may be respectively of the form $E_R^{1/\gamma}$, $E_G^{1/\gamma}$, and $E_B^{1/\gamma}$ although other forms may be used with advances in the state of the art.

NOTE: At the present state of the art it is considered inadvisable to set a tolerance on the value of gamma and correspondingly this portion of the specification will not be enforced.

(v) The radiated chrominance subcarrier shall vanish on the reference white of the scene.

NOTE: The numerical values of the signal specification assume that this condition will be reproduced as CIE Illuminant C (x=0.310, y=0.316).

(vi) E_Y', E_Q', E_I', and the components of these signals shall match each other in time to 0.05 μ secs.

(vii) The angles of the subcarrier measured with respect to the burst phase, when reproducing saturated primaries and their complements at 75 percent of full amplitude, shall be within ±10° and their amplitudes shall be within ±20 percent of the values specified above. The ratios of the measured amplitudes of the subcarrier to the luminance signal for the same saturated primaries and their complements shall fall between the limits of 0.8 and 1.2 of the values specified for their ratios. Closer tolerances may prove to be practicable and desirable with advance in the art.

(21) The interval beginning with line 17 and continuing through line 20 of the vertical blanking interval of each field may be used for the transmission of test signals, cue and control signals, and identification signals, subject to the conditions and restrictions set forth below. Test signals may include signals designed to check the performance of the overall transmission system or its individual components. Cue and control signals shall be related to the operation of the TV broadcast station. Identification signals may be transmitted to identify the broadcast material or its source, and the date and time of its origination. Figures 6 and 7 of § 73.699 identify the numbered lines referred to in this paragraph.

(i) Modulation of the television transmitter by such signals shall be confined to the area between the reference white level and the blanking level, except where test signals include chrominance subcarrier frequencies, in which case positive excursions of chrominance components may exceed reference white, and negative excursions may extend into the synchronizing area. In no case may the modulation excursions produced by test signals extend beyond peak-of-sync, or to zero carrier level.

(ii) The use of such signals shall not result in significant degradation of the program transmission of the television broadcast station, nor produce emission outside of the frequency band occupied for normal program transmissions.

(iii) Such signals may not be transmitted during that portion of each line devoted to horizontal blanking.

(iv) Regardless of other provisions of this paragraph, after June 30, 1994, Line 19, in each field, may be used only for the transmission of the ghost-canceling reference signal described in OET Bulletin No. 68, which is available from the Commission's Office of Engineering and Technology, Technical Standards Branch, 2025 M Street NW. Washington, DC 20554. Notwithstanding the modulation limits contained in paragraph (a)(23)(i) of this section, the vertical interval reference signal formerly permitted on Line 19 and described in Figure 16 of § 73.699, may be transmitted on any of lines 10 through 16 without specific Commission authorization, subject to the conditions contained in paragraphs (a)(21)(ii) and (a)(22)(ii) of this section.

(22)(i) Line 21, in each field, may be used for the transmission of a program-related data signal which, when decoded, provides a visual depiction of information simultaneously being presented on the aural channel (captions). Such data signal shall conform to the format described in Figure 16 of § 73.699 and may be transmitted during all periods of regular operation. On a space available basis, line 21 field 2 may also be used for text-mode data and extended data service information.

NOTE: The signals on Fields 1 and 2 shall be distinct data streams, for example, to supply captions in different languages or at different reading levels.

(A) A decoder test signal consisting of data representing a repeated series of alphanumeric characters may be transmitted at times when no program-related data is being transmitted.

(B) The data signal shall be coded using a non-return-to-zero (NRZ) format and shall employ standard ASCII 7 bit plus parity character codes.

NOTE: For more information on data formats and specific data packets, see EIA–608,

''Line 21 Data Services for NTSC,'' available from the Electronics Industries Association.

(ii) At times when Line 21 is not being used to transmit a program related data signal, data signals which are not program related may be transmitted, *Provided:* the same data format is used and the information to be displayed is of a broadcast nature.

(iii) The use of Line 21 for transmission of other data signals conforming to other formats may be used subject to prior authorization by the Commission.

(iv) The data signal shall cause no significant degradation to any portion of the visual signal nor produce emissions outside the authorized television channel.

(v) Transmission of visual emergency messages pursuant to § 73.1250 shall take precedence and shall be cause for interrupting transmission of data signals permitted under this paragraph.

(23) Specific scanning lines in the vertical blanking interval may be used for the purpose of transmitting telecommunications signals in accordance with § 73.646, subject to certain conditions:

(i) Telecommunications may be transmitted on Lines 10–18 and 20, all of Field 2 and Field 1. Modulation level shall not exceed 70 IRE on lines 10, 11, and 12; and, 80 IRE on lines 13–18 and 20.

(ii) No observable degradation may be caused to any portion of the visual or aural signals.

(iii) Telecommunications signals must not produce emissions outside the authorized television channel bandwidth. Digital data pulses must be shaped to limit spectral energy to the nominal video baseband.

(iv) Transmission of emergency visual messages pursuant to § 73.1250 must take precedence over, and shall be cause for interrupting, a service such as teletext that provides a visual depiction of information simultaneously transmitted on the aural channel.

(v) A reference pulse for a decoder associated adaptive equalizer filter designed to improve the decoding of telecommunications signals may be inserted on any portion of the vertical blanking interval authorized for data service, in accordance with the signal levels set forth in paragraph (a)(23)(i) of this section.

(vi) All lines authorized for telecommunications transmissions may be used for other purposes upon prior approval by the Commission.

(24) Licensees and permittees of TV broadcast and low power TV stations may insert non-video data into the active video portion of their TV transmission, subject to certain conditions:

(i) The active video portion of the visual signal begins with line 22 and continues through the end of each field, except it does not include that portion of each line devoted to horizontal blanking. Figures 6 and 7 of § 73.699 identify the numbered line referred to in this paragraph;

(ii) Inserted non-video data may be used for the purpose of transmitting a telecommunications service in accordance with § 73.646. In addition to a telecommunications service, non-video data can be used to enhance the station's broadcast program service or for purposes related to station operations. Signals relating to the operation of TV stations include, but are not limited to program or source identification, relay of broadcast materials to other stations, remote cueing and order messages, and control and telemetry signals for the transmitting system; and

(iii) A station may only use systems for inserting non-video information that have been approved in advance by the Commission. The criteria for advance approval of systems are as follows:

(A) The use of such signals shall not result in significant degradation to any portion of the visual, aural, or program-related data (closed captioning) signals of the television broadcast station;

(B) No increase in width of the television broadcast channel (6 MHz) is permitted. Emissions outside the authorized television channel must not exceed the limitations given in § 73.687(e). Interference to reception of television service either of co-channel or adjacent channel stations must not increase over that resulting from the transmission of programming without inserted data; and

(C) Where required, system receiving or decoding devices must meet the TV

interface device provisions of Part 15, Subpart H of this chapter.

(iv) No protection from interference of any kind will be afforded to reception of inserted non-video data.

(v) Upon request by an authorized representative of the Commission, the licensee of a TV station transmitting encoded programming must make available a receiving decoder to the Commission to carry out its regulatory responsibilities.

(b) *Subscription TV technical systems.* The FCC may specify, as part of the advance approval of the technical system for transmitting encoded subscription programming, deviations from the power determination procedures, operating power levels, aural or video baseband signals, modulation levels or other characteristics of the transmitted signal as otherwise specified in this Subpart. Any decision to approve such operating deviations shall be solely at the discretion of the FCC.

(c) TV multiplex subcarrier/stereophonic aural transmission standards.

(1) The modulating signal for the main channel shall consist of the sum of the stereophonic (biphonic, quadraphonic, etc.) input signals.

(2) The instantaneous frequency of the baseband stereophonic subcarrier must at all times be within the range 15 kHz to 120 kHz. Either amplitude or frequency modulation of the stereophonic subcarrier may be used.

(3) One or more pilot subcarriers between 16 kHz and 120 kHz may be used to switch a TV receiver between the stereophonic and monophonic reception modes or to activate a stereophonic audio indicator light, and one or more subcarriers between 15 kHz and 120 kHz may be used for any other authorized purpose; except that stations employing the BTSC system of stereophonic sound transmission and audio processing may transmit a pilot subcarrier at 15,734 Hz, ± 2 Hz. Other methods of multiplex subcarrier or stereophonic aural transmission systems must limit energy at 15,734 Hz, ± 20 Hz, to no more than ± 0.125 kHz aural carrier deviation.

(4) Aural baseband information above 120 kHz must be attenuated 40 dB referenced to 25 kHz main channel deviation of the aural carrier.

(5) For required transmitter performance, all of the requirements of § 73.687(b) shall apply to the main channel, with the transmitter in the multiplex subcarrier or stereophonic aural mode.

(6) For electrical performance standards of the transmitter, the requirements of § 73.687(b) apply to the main channel.

(7) Multiplex subcarrier or stereophonic aural transmission systems must be capable of producing and must not exceed ± 25 kHz main channel deviation of the aural carrier.

(8) The arithmetic sum of non-multiphonic baseband signals between 15 kHz and 120 kHz must not exceed ±50 kHz deviation of the aural carrier.

(9) Total modulation of the aural carrier must not exced ± 75 kHz.standard; and adopting a standard for allocation and assignment purposes only. In addition, the Commission sought comment on requiring use of some layers of the ATSC DTV Standard but making others optional.)(1). The SBA defines affiliation in 13 C.F.R. 121.103. In this context, the SBA's definition of affiliate is analogous to our attribution rules. Generally, under the SBA's definition, concerns are affiliates of each other when one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both. 13 C.F.R. 121.103(a)(1). The SBA considers factors such as ownership, management, previous relationships with or ties to another concern, and contractual relationships, in determining whether affiliation exists. 13 C.F.R. 121.103(a)(2). Instead of making an independent determination of whether television stations were affiliated based on SBA's definitions, we relied on the data bases available to us to provide us with that information.

(d) *Digital broadcast television transmission standard.* Transmission of digital broadcast television (DTV) signals shall comply with the standards for such transmissions set forth in Advanced Television Systems Committee (ATSC) Doc. A/52 (''ATSC Standard Digital Audio Compression (AC–3), 20 Dec 95'') and ATSC Doc A/53 (''ATSC Digital Television Standard, 16 Sep

95''), except for Section 5.1.2 (''Compression format constraints'') of Annex A (''Video Systems Characteristics'') and the phrase ''see Table 3'' in Section 5.1.1 Table 2 and Section 5.1.2 Table 4. Although not incorporated herein by reference, licensees may also consult ATSC Doc. A/54 (''Guide to the Use of the ATSC Digital Television Standard, 4 Oct 95'') for guidance. This incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be inspected at the Federal Communications Commission, 1919 M Street, NW., Washington, DC 20554 or at the Office of the Federal Register, 800 N. Capitol Street, NW., Washington, DC. Copies of ATSC A/52, A/53, and A/54 can be obtained from the Commission's contract copier or from the Advanced Television Systems Committee, 1750 K Street, NW., suite 800, Washington, DC 20006. They are also available in their entirety on the Internet at http://www.atsc.org.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[28 FR 13660, Dec. 14, 1963]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting §73.682, see the List of CFR Sections Affected appearing in the Finding Aids section of this volume.

§ 73.683 Field strength contours.

(a) In the authorization of TV stations, two field strength contours are considered. These are specified as Grade A and Grade B and indicate the approximate extent of coverage over average terrain in the absence of interference from other television stations. Under actual conditions, the true coverage may vary greatly from these estimates because the terrain over any specific path is expected to be different from the average terrain on which the field strength charts were based. The required field strength, *F* (50,50), in dB above one micro-volt per meter (dBu) for the Grade A and Grade B contours are as follows:

	Grade A (dBu)	Grade B (dBu)
Channels 2–6	68	47
Channels 7–13	71	56
Channels 14–69	74	64

(b) It should be realized that the F (50,50) curves when used for Channels 14–69 are not based on measured data at distances beyond about 48.3 kilometers (30 miles). Theory would indicate that the field strengths for Channels 14–69 should decrease more rapidly with distance beyond the horizon than for Channels 2–6, and modification of the curves for Channels 14–69 may be expected as a result of measurements to be made at a later date. For these reasons, the curves should be used with appreciation of their limitations in estimating levels of field strength. Further, the actual extent of service will usually be less than indicated by these estimates due to interference from other stations. Because of these factors, the predicted field strength contours give no assurance of service to any specific percentage of receiver locations within the distances indicated. In licensing proceedings these variations will not be considered.

(c) The field strength contours will be considered for the following purposes only:

(1) In the estimation of coverage resulting from the selection of a particular transmitter site by an applicant for a TV station.

(2) In connection with problems of coverage arising out of application of §73.3555.

(3) In determining compliance with §73.685(a) concerning the minimum field strength to be provided over the principal community to be served.

[44 FR 36039, June 20, 1979, as amended at 47 FR 35990, Aug. 18, 1982; 50 FR 23699, June 5, 1985; 50 FR 32416, Aug. 12, 1985]

§ 73.684 Prediction of coverage.

(a) All predictions of coverage made pursuant to this section shall be made without regard to interference and shall be made only on the basis of estimated field strengths. The peak power of the visual signal is used in making predictions of coverage.

(b) Predictions of coverage shall be made only for the same purposes as relate to the use of field strength contours as specified in §73.683(c).

(c) In predicting the distance to the field strength contours, the F (50,50) field strength charts (Figures 9 and 10 of §73.699) shall be used. If the 50% field

strength is defined as that value exceeded for 50% of the time, these F (50,50) charts give the estimated 50% field strengths exceeded at 50% of the locations in dB above 1 uV/m. The charts are based on an effective power of 1 kW radiated form a half-wave dipole in free space, which produces an unattenuated field strength at 1.61 kilometers (1 mile) of about 103 dB above 1 uV/m. To use the charts to predict the distance to a given contour, the following procedure is used: Convert the effective radiated power in kilowatts for the appropriate azimuth into decibel value referenced to 1 kW (dBu). If necessary, convert the selected contour to the decibel value (dBu) above 1 microvolt per meter (1 uV/m). Subtract the power value in dBk from the contour value in dBu. Note that for power less than 1 kW, the difference value will be greater than the contour value because the power in dBk is negative. Locate the difference value obtained on the vertical scale at the left edge of the chart. Follow the horizontal line for that value into the chart to the point of intersection with the vertical line above the height of the antenna above average terrain for the appropriate azimuth located on the scale at the bottom of the chart. If the point of intersection does not fall exactly on a distance curve, interpolate between the distance curves below and above the intersection point. The distance values for the curves are located along the right edge of the chart.

(1) In predicting the distance to the Grade A and Grade B field strength contours, the effective radiated power to be used is that radiated at the vertical angle corresponding to the depression angle between the transmitting antenna center of radiation and the radio horizon as determined individually for each azimuthal direction concerned. The depression angle is based on the difference in elevation of the antenna center of radiation above the average terrain and the radio horizon, assuming a smooth sperical earth with a radius of 8,495.5 kilometers (5,280 miles) and shall be determined by the following equation:

$$A = 0.0277\sqrt{H}$$

Where:

A is the depression angle in degrees.

H is the height in meters of the transmitting antenna radiation center above average terrain of the 3.2—16.1 kilometers (2–10 miles) sector of the pertinent radial.

This formula is empirically derived for the limited purpose specified here. Its use for any other purpose may be inappropriate.

(2) In case where the relative field strength at the depression angle determined by the above formula is 90% or more of the maximum field strength developed in the vertical plane containing the pertaining radial, the maximum radiation shall be used.

(3) In predicting field strengths for other than the Grade A and Grade B contours, the effective radiated power to be used is to be based on the appropriate antenna vertical plane radiation pattern for the azimuthal direction concerned.

(4) Applicants for new TV stations or changes in the facilities of existing TV stations must submit to the FCC a showing as to the location of their stations' or proposed stations' predicted Grade A and Grade B contours, determined in accordance with § 73.684. This showing is to include maps showing these contours, except where applicants have previously submitted material to the FCC containing such information and it is found upon careful examination that the contour locations indicated therein would not change, on any radial, when the locations are determined under this Section. In the latter cases, a statement by a qualified engineer to this effect will satisfy this requirement and no contour maps need be submitted.

(d) The antenna height to be used with these charts is the height of the radiation center of the antenna above the average terrain along the radial in question. In determining the average elevation of the terrain, the elevations between 3.2–16.1 kilometers (2–10 miles) from the antenna site are employed. Profile graphs shall be drawn for 8 radials beginning at the antenna site and extending 16.1 kilometers (10 miles) therefrom. The radials should be drawn for each 45 degrees of azimuth starting with the True North. At least one radial must include the principal community to be served even though such community may be more than 16.1 kilometers (10 miles) from the antenna

site. However, in the event none of the evenly spaced radials include the principal community to be served and one or more such radials are drawn in addition to the 8 evenly spaced radials, such additional radials shall not be employed in computing the antenna height above average terrain. Where the 3.2–16.1 kilometers (2–10 mile) portion of a radial extends in whole or in part over large bodies of water as specified in paragraph (e) of this section or extends over foreign territory but the Grade B strength contour encompasses land area within the United States beyond the 16.1 kilometers (10 mile) portion of the radial, the entire 3.2–16.1 kilometers (2–10 mile) portion of the radial shall be included in the computation of antenna height above average terrian. However, where the Grade B contour does not so encompass United States land area and (1) the entire 3.2–16.1 kilometers (2–10 mile) portion of the radial extends over large bodies of water of foreign territory, such radial shall be completely omitted from the computation of antenna height above average terrain, and (2) where a part of the 3.2–16.1 kilometers (2–10 mile) portion of a radial extends over large bodies of water or over foreign territory, only that part of the radial extending from the 3.2 kilometer (2 mile) sector to the outermost portion of land area within the United States covered by the radial shall be employed in the computation of antenna height above average terrian. The profile graph for each radial should be plotted by contour intervals of from 12.2–30.5 meters (40–100 feet) and, where the data permits, at least 50 points of elevation (generally uniformly spaced) should be used for each radial. In instances of very rugged terrain where the use of contour intervals of 30.5 meters (100 feet) would result in several points in a short distance, 61.0–122.0 meter (200–400 foot) contour intervals may be used for such distances. On the other hand, where the terrain is uniform or gently sloping the smallest contour interval indicated on the topograhic may (see paragraph (g) of this section) should be used, although only relatively few points may be available. The profile graphs should indicate the topography accurately for each radial, and the graphs should be plotted with the distance in kilometers as the abscissa and the elevation in meters above mean sea level as the ordinate. The profile graphs should indicate the source of the topographical data employed. The graph should also show the elevation of the center of the radiating system. The graph may be plotted either on rectangular coordinate paper or on special paper which shows the curvature of the earth. It is not necessary to take the curvature of the earth into consideration in this procedure, as this factor is taken care of in the charts showing signal strengths. The average elevation of the 12.9 kilometer (8 miles) distance between 3.2–16.1 kilometers (2–10 miles) from the antenna site should then be determined from the profile graph for each radial. This may be obtained by averaging a large number of equally spaced points, by using a planimeter, or by obtaining the median elevation (that exceeded for 50% of the distance) in sectors and averaging those values.

NOTE: The Commission will, upon a proper showing by an existing station that the application of this rule will result in an unreasonable power reduction in relation to other stations in close proximity, consider requests for adjustment in power on the basis of a common average terrain figure for the stations in question as determined by the FCC.

(e) In instance where it is desired to determine the area in square kilometers within the Grade A and Grade B field strength contours, the area may be determined from the coverage map by planimeter or other approximate means; in computing such areas, exclued (1) areas beyond the borders of the United States, and (2) large bodies of water, such as ocean areas, gulfs sounds, bays, large lakes, etc., but not rivers.

(f) In cases where terrain in one or more directions from the antenna site departs widely from the average elevation of the 3.2 to 16.1 kilometers (2 to 10 mile) sector, the prediction method may indicate contour distances that are different from what may be expected in practice. For example, a

mountain ridge may indicate the practical limit of service although the prediction method may indicate otherwise. In such case the prediction method should be followed, but a supplemental showing may be made concerning the contour distances as determined by other means. Such supplemental showing should describe the procedure employed and should include sample calculations. Maps of predicted coverage should include both the coverage as predicted by the regular method and as predicted by a supplemental method. When measurements of area are required, these should include the area obtained by the regular predicted method and the area obtained by the supplemental method. In directions where the terrain is such that negative antenna heights or heights below 30.5 meters (100 feet) for the 3.2 to 16.1 kilometers (2 to 10 mile) sector are obtained, an assumed height of 30.5 meters (100 feet) shall be used for the prediction of coverage. However, where the actual contour distances are critical factors, a supplemental showing of expected coverage must be included together with a description of the method employed in predicting such coverage. In special cases, the Commission may require additional information as to terrain and coverage.

(g) In the preparation of the profile graph previously described, and in determining the location and height above sea level of the antenna site, the elevation or contour intervals shall be taken from the United States Geological Survey Topographic Quadrangle Maps, United States Army Corps of Engineers' maps or Tennessee Valley Authority maps, whichever is the latest, for all areas for which such maps are available. If such maps are not published for the area in question, the next best topographic information should be used. Topographic data may sometimes be obtained from State and Municipal agencies. Data from Sectional Aeronautical Charts (including bench marks) or railroad depot elevations and highway elevations from road maps may be used where no better information is available. In cases where limited topographic data is available, use may be made of an altimeter in a car driven along roads extending generally radially from the transmitter site. Ordinarily the Commission will not require the submission of topographical maps for areas beyond 24.1 kilometers (15 miles) from the antenna site, but the maps must include the principal community to be served. If it appears necessary, additional data may be requested. United States Geological Survey Topographic Quadrangle Maps may be obtained from the United States Geological Survey, Department of the Interior, Washington, DC 20240. Sectional Aeronautical Charts are available from the United States Coast and Geodetic Survey, Department of Commerce, Washington, DC 20235. In lieu of maps, the average terrain elevation may be computer generated, except in the cases of dispute, using elevations from a 30 second point or better topographic data file. The file must be identified and the data processed for intermediate points along each radial using linear interpolation techniques. The height above mean sea level of the antenna site must be obtained manually using appropriate topographic maps.

(h) The effect of terrain roughness on the predicted field strength of a signal at points distant from a television broadcast station is assumed to depend on the magnitude of a terrain roughness factor (Δ h) which, for a specific propagation path, is determined by the characteristics of a segment of the terrain profile for that path 40.2 kilometers (25 miles) in length, located between 9.7 and 49.9 kilometers (6 and 31 miles) from the transmitter. The terrain roughness factor has a value equal to the difference, in meters, between elevations exceeded by all points on the profile for 10 percent and 90 percent, respectively, of the length of the profile segment (see § 73.699, Fig. 10d).

(i) If the lowest field strength value of interest is initially predicted to occur over a particular propagation path at a distance which is less than 49.9 kilometers (31 miles) from the transmitter, the terrain profile segment used in the determination of the terrain roughness factor over that path shall be that included between points 9.7 kilometers (6 miles) from the transmitter and such lesser distance. No terrain roughness correction need be applied when all field strength values of

interest are predicted to occur 9.7 kilometers (6 miles) or less from the transmitter.

(j) Profile segments prepared for terrain roughness factor determinations should be plotted in rectangular coordinates, with no less than 50 points evenly spaced within the segment, using data obtained from topographic maps, if available, with contour intervals of 15.2 meters (50 feet), or less.

(k) The field strength charts (§ 73.699, Figs. 9–10c) were developed assuming a terrain roughness factor of 50 meters, which is considered to be representative of average terrain in the United States. Where the roughness factor for a particular propagation path is found to depart appreciably from this value, a terrain roughness correction (ΔF) should be applied to field strength values along this path as predicted with the use of these charts. The magnitude and sign of this correction, for any value of Δh, may be determined from a chart included in § 73.699 as Figure 10e, with linear interpolation as necessary, for the frequency of the UHF signal under consideration.

(l) Alternatively, the terrain roughness correction may be computed using the following formula:

$$\Delta F = C - 0.03(\Delta h)(1 + f/300)$$

Where:

ΔF=terrain roughness correction in dB
C=a constant having a specific value for use with each set of field strength charts:
1.9 for TV Channels 2–6
2.5 for TV Channels 7–13
4.8 for TV Channels 14–69
Δh=terrain roughness factor in meters
f=frequency of signal in megahertz (MHz)

[28 FR 13660, Dec. 13, 1963, as amended at 40 FR 27683, July 1, 1975; 44 FR 36039, June 20, 1979; 48 FR 44807, Sept. 30, 1983; 50 FR 23699, June 5, 1985; 51 FR 26251, July 22, 1986; 52 FR 36879, Oct. 1, 1987]

EFFECTIVE DATE NOTE: At 42 FR 25736, May 19, 1977, in § 73.684, (k) and (l) are stayed indefinitely.

§ 73.685 Transmitter location and antenna system.

(a) The transmitter location shall be chosen so that, on the basis of the effective radiated power and antenna height above average terrain employed, the following minimum field strength in dB above one uV/m will be provided over the entire principal community to be served:

Channels 2–6	Channels 7–13	Channels 14–69
74 dBu	77 dBu	80 dBu

(b) Location of the antenna at a point of high elevation is necessary to reduce to a minimum the shadow effect on propagation due to hills and buildings which may reduce materially the strength of the station's signals. In general, the transmitting antenna of a station should be located at the most central point at the highest elevation available. To provide the best degree of service to an area, it is usually preferable to use a high antenna rather than a low antenna with increased transmitter power. The location should be so chosen that line-of-sight can be obtained from the antenna over the principal community to be served; in no event should there be a major obstruction in this path. The antenna must be constructed so that it is as clear as possible of surrounding buildings or objects that would cause shadow problems. It is recognized that topography, shape of the desired service area, and population distribution may make the choice of a transmitter location difficult. In such cases, consideration may be given to the use of a directional antenna system, although it is generally preferable to choose a site where a nondirectional antenna may be employed.

(c) In cases of questionable antenna locations it is desirable to conduct propagation tests to indicate the field strength expected in the principal community to be served and in other areas, particularly where severe shadow problems may be expected. In considering applications proposing the use of such locations, the Commission may require site tests to be made. Such tests should be made in accordance with the measurement procedure in § 73.686, and full data thereon must be supplied to the Commission. Test transmitters should employ an antenna having a height as close as possible to the proposed antenna height, using a balloon or other support if necessary and feasible. Information concerning the authorization of site tests may be obtained from the Commission upon request.

(d) Present information is not sufficiently complete to establish ''blanket areas'' of television broadcast stations. A ''blanket area'' is that area adjacent to a transmitter in which the reception of other stations is subject to interference due to the strong signal from this station. The authorization of station construction in areas where blanketing is found to be excessive will be on the basis that the applicant will assume full responsibility for the adjustment of reasonable complaints arising from excessively strong signals of the applicant's station or take other corrective action.

(e) An antenna designed or altered to produce a noncircular radiation pattern in the horizontal plane is considered to be a directional antenna. Antennas purposely installed in such a manner as to result in the mechanical beam tilting of the major vertical radiation lobe are included in this category. Directional antennas may be employed for the purpose of improving service upon an appropriate showing of need. Stations operating on Channels 2–13 will not be permitted to employ a directional antenna having a ratio of maximum to minimum radiation in the horizontal plane in excess of 10 dB. Stations operating on Channels 14–69 with transmitters delivering a peak visual power output of more than 1 kW may employ directive transmitting antennas with a maximum to minimum radiation in the horizontal plane of not more than 15 dB. Stations operating on Channels 14–69 and employing transmitters delivering a peak visual power output of 1 kW or less are not limited as to the ratio of maximum to minimum radiation.

(f) Applications proposing the use of directional antenna systems must be accompanied by the following:

(1) Complete description of the proposed antenna system, including the manufacturer and model number of the proposed directional antenna.

(2) Relative field horizontal plane pattern (horizontal polarization only) of the proposed directional antenna. A value of 1.0 should be used for the maximum radiation. The plot of the pattern should be oriented so that 0° corresponds to true North. Where mechanical beam tilt is intended, the amount of tilt in degrees of the antenna vertical axis and the orientation of the downward tilt with respect to true North must be specified, and the horizontal plane pattern must reflect the use of mechanical beam tilt.

(3) A tabulation of the relative field pattern required in paragraph (b)(2), of this section. The tabulation should use the same zero degree reference as the plotted pattern, and be tabulated at least every 10°. In addition, tabulated values of all maxima and minima, with their corresponding azimuths, should be submitted.

(4) Horizontal and vertical plane radiation patterns showing the effective radiated power, in dBk, for each direction. Sufficient vertical plane patterns must be included to indicate clearly the radiation characteristics of the antenna above and below the horizontal plane. In cases where the angles at which the maximum vertical radiation varies with azimuth, a separate vertical radiation pattern must be provided for each pertinent radial direction.

(5) All horizontal plane patterns must be plotted to the largest scale possible on unglazed letter-size polar coordinate paper (main engraving approximately 18 cm x 25 cm (7 inches x 10 inches)) using only scale divisions and subdivisions of 1, 2, 2.5 or 5 times 10-nth. All vertical plane patterns must be plotted on unglazed letter-size rectangular coordinate paper. Values of field strength on any pattern less than 10% of the maximum field strength plotted on that pattern must be shown on an enlarged scale.

(6) The horizontal and vertical plane patterns that are required are the patterns for the complete directional antenna system. In the case of a composite antenna composed of two or more individual antennas, this means that the patterns for the composite antenna, not the patterns for each of the individual antennas, must be submitted.

(g) Applications proposing the use of television broadcast antennas within 61.0 meters (200 feet) of other television broadcast antennas operating on a channel within 20 percent in frequency of the proposed channel, or proposing

the use of television broadcast antennas on Channels 5 or 6 within 61.0 meters (200 feet) of FM broadcast antennas, must include a showing as to the expected effect, if any, of such proximate operation.

(h) Where a TV licensee or permittee proposes to mount an antenna on an AM antenna tower, or locate within 3.2 km of an AM antenna tower, the TV licensee or permittee must comply with §73.1692.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[28 FR 13660, Dec. 14, 1963, as amended at 35 FR 5693, Apr. 8, 1970; 40 FR 25461, June 16, 1975; 43 FR 53740, Nov. 17, 1978; 44 FR 22740, Apr. 17, 1979; 45 FR 26065, Apr. 17, 1980; 47 FR 35990, Aug. 18, 1982; 48 FR 21486, May 12, 1983; 50 FR 23701, June 5, 1985; 58 FR 44951, Aug. 25, 1993; 62 FR 51059, Sept. 30, 1997]

EFFECTIVE DATE NOTE: At 62 FR 51059, Sept. 30, 1997, §73.685 was amended by revising paragraph (h), effective Dec. 1, 1997. For the convenience of the user, the superseded text is set forth as follows:

§73.685 Transmitter location and antenna system.

* * * * *

(h) Where simultaneous use of antennas or antenna structures is proposed, the following provisions shall apply:

(1) In cases where it is proposed to use a tower of an AM broadcast station as a supporting structure for a television broadcast antenna, an appropriate application for changes in the radiating system of the AM broadcast station must be filed by the licensee thereof. A formal application (FCC Form 301, or FCC Form 340 for a noncommercial educational station) will be required if the proposal involves substantial change in the physical height or radiation characteristics of the AM broadcast antennas; otherwise an informal application will be acceptable. (In case of doubt, an informal application (letter) together with complete engineering data should be submitted.) An application may be required for other classes of stations when the tower is to be used in connection with a television station.

(2) When the proposed TV antenna is to be mounted on a tower in the vicinity of an AM station directional antenna system and it appears that the operation of the directional antenna system may be affected, an engineering study must be filed with the TV application concerning the effect of the TV antenna on the AM directional radiation pattern. Field measurements of the AM stations may be required prior to and following construction of the TV station antenna, and readjustments made as necessary.

§73.686 Field strength measurements.

(a) Except as provided for in §73.612, television broadcast stations shall not be protected from any type of interference or propagation effect. Persons desiring to submit testimony, evidence or data to the Commission for the purpose of showing that the technical standards contained in this subpart do not properly reflect the levels of any given type of interference or propagation effect may do so only in appropriate rulemaking proceedings concerning the amendment of such technical standards. Persons making field strength measurements for formal submission to the Commission in rulemaking proceedings, or making such measurements upon the request of the Commission, shall follow the procedure for making and reporting such measurements outlined in paragraph (b) of this section. In instances where a showing of the measured level of a signal prevailing over a specific community is appropriate, the procedure for making and reporting field strength measurements for this purpose is set forth in paragraph (c) of this section.

(b) Collection of field strength data for propagation analysis.

(1) *Preparation for measurements.* (i) On large scale topographic maps, eight or more radials are drawn from the transmitter location to the maximum distance at which measurements are to be made, with the angles included between adjacent radials of approximately equal size. Radials should be oriented so as to traverse representative types of terrain. The specific number of radials and their orientation should be such as to accomplish this objective.

(ii) At a point exactly 16.1 kilometers (10 miles) from the transmitter, each radial is marked, and at greater distances at successive 3.2 kilometer (2 mile) intervals. Where measurements are to be conducted at UHF, or over extremely rugged terrain, shorter intervals may be employed, but all such intervals shall be of equal length. Accessible roads intersecting each radial as nearly as possible at each 3.2 kilometer (2 mile) marker are selected. These

intersections are the points on the radial at which measurements are to be made, and are referred to subsequently as measuring locations. The elevation of each measuring location should approach the elevation at the corresponding 3.2 kilometer (2 mile) marker as nearly as possible.

(2) *Measurement procedure.* The field strength of the visual carrier shall be measured with a voltmeter capable of indicating accurately the peak amplitude of the synchronizing signal. All measurements shall be made utilizing a receiving antenna designed for reception of the horizontally polarized signal component, elevated 9.1 meters (30 feet) above the roadbed. At each measuring location, the following procedure shall be employed.

(i) The instrument calibration is checked.

(ii) The antenna is elevated to a height of 30 feet.

(iii) The receiving antenna is rotated to determine if the strongest signal is arriving from the direction of the transmitter.

(iv) The antenna is oriented so that the sector of its response pattern over which maximum gain is realized is in the direction of the transmitter.

(v) A mobile run of at least 30.5 meters (100 feet) is made, which is centered on the intersection of the radial and the road, and the measured field strength is continuously recorded on a chart recorder over the length of the run.

(vi) The actual measuring location is marked exactly on the topographic map, and a written record, keyed to the specific location, is made of all factors which may affect the recorded field, such as topography, height and types of vegetation, buildings, obstacles, weather, and other local features.

(vii) If, during the test conducted as described in paragraph (b)(2)(iii) of this section, the strongest signal is found to come from a direction other than from the transmitter, after the mobile run prescribed in paragraph (b)(2)(v) of this section is concluded, additional measurements shall be made in a ''cluster'' of at least five fixed points. At each such point, the field strengths with the antenna oriented toward the transmitter, and with the antenna oriented so as to receive the strongest field, are measured and recorded. Generally, all points should be within 61.0 meters (200 feet) of the center point of the mobile run.

(viii) If overhead obstacles preclude a mobile run of at leat 30.5 meters (100 feet), a ''cluster'' of five spot measurements may be made in lieu of this run. The first measurement in the cluster is identified. Generally, the locations for other measurements shall be within 61.0 meters (200 feet) of the location of the first.

(3) *Method of reporting measurements.* A report of measurements to the Commission shall be submitted in affidavit form, in triplicate, and should contain the following information:

(i) Tables of field strength measurements, which, for each measuring location, set forth the following data:

(A) Distance from the transmitting antenna.

(B) Ground elevation at measuring location.

(C) Date, time of day, and weather.

(D) Median field in dBu for 0 dBk, for mobile run or for cluster, as well as maximum and minimum measured field strengths.

(E) Notes describing each measuring location.

(ii) U.S. Geological Survey topographic maps, on which is shown the exact location at which each measurement was made. The original plots shall be made on maps of the largest available scale. Copies may be reduced in size for convenient submission to the Commission, but not to the extent that important detail is lost. The original maps shall be made available, if requested. If a large number of maps is involved, an index map should be submitted.

(iii) All information necessary to determine the pertinent characteristics of the transmitting installation, including frequency, geographical coordinates of antenna site, rated and actual power output of transmitter, measured transmission line loss, antenna power gain, height of antenna above ground, above mean sea level, and above average terrain. The effective radiated power should be computed, and horizontal and vertical plane patterns of

the transmitting antenna should be submitted.

(iv) A list of calibrated equipment used in the field strength survey, which, for each instrument, specifies its manufacturer, type, serial number and rated accuracy, and the date of its most recent calibration by the manufacturer, or by a laboratory. Complete details of any instrument not of standard manufacture shall be submitted.

(v) A detailed description of the calibration of the measuring equipment, including field strength meters, measuring antenna, and connecting cable.

(vi) Terrain profiles in each direction in which measurements were made, drawn on curved earth paper for equivalent 4/3 earth radius, of the largest available scale.

(c) Collection of field strength data to determine television service in specific communities.

(1) *Preparation for measurement.* (i) The population (P) of the community, and its suburbs, if any, is determined by reference to an appropriate source, e.g., the 1970 U.S. Census tables of population of cities and urbanized areas.

(ii) The number of locations at which measurements are to be made shall be at least 15, and shall be approximately equal to 0.1 (P) ½, if this product is a number greater than 15.

(iii) A rectangular grid, of such size and shape as to encompass the boundaries of the community is drawn on an accurate map of the community. The number of line intersections on the grid included within the boundaries of the community shall be at least equal to the required number of measuring locations. The position of each intersection on the community map determines the location at which a measurement shall be made.

(2) *Measurement procedure.* The field strength of the visual carrier shall be measured, with a voltmeter capable of indicating accurately the peak amplitude of the synchronizing signal. All measurements shall be made utilizing a receiving antenna designed for reception of the horizontally polarized signal component, elevated 9.1 meter (30 feet) above street level.

(i) Each measuring location shall be chosen as close as feasible to a point indicated on the map, as previously prepared, and at as nearly the same elevation as that point as possible.

(ii) At each measuring location, after equipment calibration and elevation of the antenna, a check is made to determine whether the strongest signal arrives from a direction other than from the transmitter.

(iii) At 20 percent or more of the measuring locations, mobile runs, as described in paragraph (b)(2) of this section shall be made, with no less than three such mobile runs in any case. The points at which mobile measurements are made shall be well separated. Spot measurements may be made at other measuring points.

(iv) Each actual measuring location is marked exactly on the map of the community, and suitably keyed. A written record shall be maintained, describing, for each location, factors which may affect the recorded field, such as the approximate time of measurement, weather, topography, overhead wiring, heights and types of vegetation, buildings and other structures. The orientation, with respect to the measuring location shall be indicated of objects of such shape and size as to be capable of causing shadows or reflections. If the strongest signal received was found to arrive from a direction other than that of the transmitter, this fact shall be recorded.

(3) *Method of reporting measurements.* A report of measurements to the Commission shall be submitted in affidavit form, in triplicate, and should contain the following information:

(i) A map of the community showing each actual measuring location, specifically identifying the points at which mobile runs were made.

(ii) A table keyed to the above map, showing the field strength at each measuring point, reduced to dBu for the actual effective radiated power of the station. Weather, date, and time of each measurement shall be indicated.

(iii) Notes describing each measuring location.

(iv) A topographic map of the largest available scale on which are marked the community and the transmitter site of the station whose signals have been measured, which includes all areas on or near the direct path of signal propagation.

(v) Computations of the mean and standard deviation of all measured field strengths, or a graph on which the distribution of measured field strength values is plotted.

(vi) A list of calibrated equipment used for the measurements, which for each instrument, specifies its manufacturer, type, serial number and rated accuracy, and the date of its most recent calibration by the manufacturer, or by a laboratory. Complete details of any instrument not of standard manufacture shall be submitted.

(vii) A detailed description of the procedure employed in the calibration of the measuring equipment, including field strength meters measuring antenna, and connecting cable.

[40 FR 27683, July 1, 1975, as amended at 50 FR 23701, June 5, 1985]

§ 73.687 Transmission system requirements.

(a) *Visual transmitter.* (1) The field strength or voltage of the lower sideband, as radiated or dissipated and measured as described in paragraph (a)(2) of this section, shall not be greater than −20 dB for a modulating frequency of 1.25 MHz or greater and in addition, for color, shall not be greater than −42 dB for a modulating frequency of 3.579545 MHz (the color subcarrier frequency). For both monochrome and color, the field strength or voltage of the upper sideband as radiated or dissipated and measured as described in paragraph (a)(2) of this section shall not be greater than −20 dB for a modulating frequency of 4.75 MHz or greater. For stations operating on Channels 15–69 and employing a transmitter delivering maximum peak visual power output of 1 kW or less, the field strength or voltage of the upper and lower sidebands, as radiated or dissipated and measured as described in paragraph (a)(2) of this section, shall depart from the visual amplitude characteristic (Figure 5a of § 73.699) by no more than the following amounts:

−2 dB at 0.5 MHz below visual carrier frequency;
−2 dB at 0.5 MHz above visual carrier frequency;
−2 dB at 1.25 MHz above visual carrier frequency;
−3 dB at 2.0 MHz above visual carrier frequency;
−6 dB at 3.0 MHz above visual carrier frequency;
−12 dB at 3.5 MHz above visual carrier frequency;
−8 dB at 3.58 MHz above visual carrier frequency (for color transmission only).

The field strength or voltage of the upper and lower sidebands, as radiated or dissipated and measured as described in paragraph (a)(2) of this section, shall not exceed a level of −20 dB for a modulating frequency of 4.75 MHz or greater. If interference to the reception of other stations is caused by out-of-channel lower sideband emission, the technical requirements applicable to stations operating on Channels 2–13 shall be met.

(2) The attenuation characteristics of a visual transmitter shall be measured by application of a modulating signal to the transmitter input terminals in place of the normal composite television video signal. The signal applied shall be a composite signal composed of a synchronizing signal to establish peak output voltage plus a variable frequency sine wave voltage occupying the interval between synchronizing pulses. (The ''synchronizing signal'' referred to in this section means either a standard synchronizing wave form or any pulse that will properly set the peak.) The axis of the sine wave in the composite signal observed in the output monitor shall be maintained at an amplitude 0.5 of the voltage at synchronizing peaks. The amplitude of the sine wave input shall be held at a constant value. This constant value should be such that at no modulating frequency does the maximum excursion of the sine wave, observed in the composite output signal monitor, exceed the value 0.75 of peak output voltage. The amplitude of the 200 kHz sideband shall be measured and designated zero dB as a basis for comparison. The modulation signal frequency shall then be varied over the desired range and the field strength or signal voltage of the corresponding sidebands measured. As an alternate method of measuring, in those cases in which the automatic d-c insertion can be replaced by manual control, the above characteristic may be taken by the use of a video sweep

generator and without the use of pedestal synchronizing pulses. The d-c level shall be set for midcharacteristic operation.

(3) A sine wave, introduced at those terminals of the transmitter which are normally fed the composite color picture signal, shall produce a radiated signal having an envelope delay, relative to the average envelope delay between 0.05 and 0.20 MHz, of zero microseconds up to a frequency of 3.0 MHz; and then linearly decreasing to 4.18 MHz so as to be equal to −0.17 μ secs at 3.58 MHz. The tolerance on the envelope delay shall be ±0.05 μ secs at 3.58 MHz. The tolerance shall increase linearly to ±0.1 μ sec down to 2.1 MHz, and remain at ±0.1 μ sec down to 0.2 MHz. (Tolerances for the interval of 0.0 to 0.2 MHz are not specified at the present time.) The tolerance shall also increase linearly to ±0.1 μ sec at 4.18 MHz.

(4) The radio frequency signal, as radiated, shall have an envelope as would be produced by a modulating signal in conformity with § 73.682 and Figure 6 or 7 of § 73.699, as modified by vestigial sideband operation specified in Figure 5 of § 73.699. For stations operating on Channels 15–69 the radio frequency signal as radiated, shall have an envelope as would be produced by a modulating signal in conformity with § 73.682 and Figure 6 or 7 of § 73.699.

(5) The time interval between the leading edges of successive horizontal pulses shall vary less than one half of one percent of the average interval. However, for color transmissions, § 73.682(a) (5) and (6) shall be controlling.

(6) The rate of change of the frequency of recurrence of the leading edges of the horizontal synchronizing signals shall be not greater than 0.15 percent per second, the frequency to be determined by an averaging process carried out over a period of not less than 20, nor more than 100 lines, such lines not to include any portion of the blanking interval. However, for color transmissions, § 73.682(a) (5) and (6) shall be controlling.

(b) *Aural transmitter.* (1) Pre-emphasis shall be employed as closely as practicable in accordance with the impedance-frequency characteristic of a series inductance-resistance network having a time constant of 75 microseconds. (See upper curve of Figure 12 § 73.699.)

(2) If a limiting or compression amplifier is employed, precaution should be maintained in its connection in the circuit due to the use of pre-emphasis in the transmitting system.

(3) Aural modulation levels are specified in § 73.1570.

(c) *Requirements applicable to both visual and aural transmitters.* (1) Automatic means shall be provided in the visual transmitter to maintain the carrier frequency within ±1 kHz of the authorized frequency; automatic means shall be provided in the aural transmitter to maintain the carrier frequency 4.5 MHz above the actual visual carrier frequency within ±1 kHz.

(2) The transmitters shall be equipped with suitable indicating instruments for the determination of operating power and with other instruments necessary for proper adjustment, operation, and maintenance of the equipment.

(3) Adequate provision shall be made for varying the output power of the transmitters to compensate for excessive variations in line voltage or for other factors affecting the output power.

(4) Adequate provisions shall be provided in all component parts to avoid overheating at the rated maximum output powers.

(d) The construction, installation, and operation of broadcast equipment is expected to conform with all applicable local, state, and federally imposed safety regulations and standards, enforcement of which is the responsibility of the issuing regulatory agency.

(e) *Operation.* (1) Spurious emissions, including radio frequency harmonics, shall be maintained at as low a level as the state of the art permits. As measured at the output terminals of the transmitter (including harmonic filters, if required) all emissions removed in frequency in excess of 3 MHz above or below the respective channel edge shall be attenuated no less than 60 dB. below the visual transmitted power. (The 60 dB. value for television transmitters specified in this rule should be considered as a temporary requirement which may be increased at a later date,

especially when more higher-powered equipment is utilized. Stations should, therefore, give consideration to the installation of equipment with greater attenuation than 60 dB.) In the event of interference caused to any service greater attenuation will be required.

(2) If a limiting or compression amplifier is used in conjunction with the aural transmitter, due operating precautions should be maintained because of pre-emphasis in the transmitting system.

(3) TV broadcast stations operating on Channel 14 and Channel 69 must take special precautions to avoid interference to adjacent spectrum land mobile radio service facilities. Where a TV station is authorized and operating prior to the authorization and operation of the land mobile facility, a Channel 14 station must attenuate its emissions within the frequency range 467 to 470 MHz and a Channel 69 station must attentuate its emissions within the frequency range 806 to 809 MHz if necessary to permit reasonable use of the adjacent frequencies by land mobile licensees.

(4) The requirements listed below apply to permittees authorized to construct a new station on TV Channel 14 or TV Channel 69, and to licensees authorized to change the channel of an existing station to Channel 14 or to Channel 69, to increase effective radiated power (ERP) (including any change in directional antenna characteristics that results in an increase in ERP in any direction), or to change the transmitting location of an existing station.

(i) For the purposes of this paragraph, a protected land mobile facility is a receiver that is intended to receive transmissions from licensed land mobile stations within the frequency band below 470 MHz (as relates to Channel 14) or above 806 MHz (as relates to Channel 69), and is associated with one or more land mobile stations for which a license has been issued by the Commission, or a proper application has been received by the Commission prior to the date of the filing of the TV construction permit application. However, a land mobile facility will not be protected if it is proposed in an application that is denied or dismissed and that action is no longer subject to Commission review. Further, if the land mobile station is not operating when the TV facility commences operation and it does not commence operation within the time permitted by its authorization in accordance with part 90 of this chapter, it will not be protected.

(ii) A TV permittee must take steps before construction to identify potential interference to normal land mobile operation that could be caused by TV emissions outside the authorized channel, land mobile receiver desensitization or intermodulation. It must install filters and take other precautions as necessary, and submit evidence that no interference is being caused before it will be permitted to transmit programming on the new facilities pursuant to the provisions of § 73.1615 or § 73.1620 of this part. A TV permittee must reduce its emissions within the land mobile channel of a protected land mobile facility that is receiving interference caused by the TV emission producing a vertically polarized signal and a field strength in excess of 17 dBu at the land mobile receiver site on the land mobile frequency. The TV emission should be measured with equipment set to a 30 kHz measurement bandwidth including the entire applicable land mobile channel. A TV permittee must correct a desensitization problem if its occurrence can be directly linked to the start of the TV operation and the land mobile station is using facilities with typical desensitization rejection characteristics. A TV permittee must identify the source of an intermodulation product that is generated when the TV operation commences. If the intermodulation source is under its control, the TV permittee must correct the problem. If the intermodulation source is beyond the TV permittee's control, it must cooperate in the resolution of the problem and should provide whatever technical assistance it can.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[28 FR 13660, Dec. 14, 1963]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 73.687, see the List of CFR Sections Affected in the Finding Aids section of this volume.

§ 73.688 Indicating instruments.

(a) Each TV broadcast station shall be equipped with indicating instruments which conform with the specifications described in § 73.1215 for measuring the operating parameters of the last radio stage of the visual transmitter, and with such other instruments as are necessary for the proper adjustment, operation, and maintenance of the visual transmitting system.

(b) The function of each instrument shall be clearly and permanently shown on the instrument itself or on the panel immediately adjacent thereto.

(c) In the event that any one of these indicating instruments becomes defective, when no substitute which conforms with the required specifications is available, the station may be operated without the defective instrument pending its repair or replacement for a period not in excess of 60 days without further authority of the FCC, provided that:

(1) If the defective instrument is the transmission line meter used for determining the output power by the direct method, the operating power shall be determined or maintained by the indirect method whenever possible or by using the operating parameters of the last radio stage of the transmitter during the time the station is operated without the transmission line meter.

(2) If conditions beyond the control of the licensee prevent the restoration of the meter to service within the above allowed period, informal request in accordance with § 73.3549 may be filed with the Engineer in Charge of the radio district in which the station is located for such additional time as may be required to complete repairs of the defective instrument.

[41 FR 36818, Sept. 1, 1976, as amended at 48 FR 38480, Aug. 24, 1983; 49 FR 50048, Dec. 26, 1984; 50 FR 26568, June 27, 1985]

§ 73.691 Visual modulation monitoring.

(a) Each TV station must have measuring equipment for determining that the transmitted visual signal conforms to the provisions of this subpart. The licensee shall decide the monitoring and measurement methods or procedures for indicating and controlling the visual signal.

(b) In the event technical problems make it impossible to operate in accordance with the timing and carrier level tolerance requirements of § 73.682 (a)(9)(i), (a)(9)(ii), (a)(12), (a)(13), and (a)(17), a TV broadcast station may operate at variance for a period of not more than 30 days without specific authority from the FCC: *provided that,* the date and time of the initial out-of-tolerance condition has been entered in the station log. If the operation at variance will exceed 10 consecutive days, a notification must be sent to the FCC in Washington, D.C., not later than the 10th day of such operation. In the event normal operation is resumed prior to the end of the 30 day period, the licensee must notify the FCC upon restoration of normal operation. If causes beyond the control of the licensee prevent restoration of normal operation within 30 days, a written request must be made to the FCC in Washington, D.C., no later than the 30th day for such additional time as may be necessary.

[60 FR 55480, Nov. 1, 1995]

§ 73.698 Tables.

TABLE I—[RESERVED]

TABLE II

(1)—Channel	(2)—31.4 kilometers (19.5 miles) If beat	(3)—31.4 kilometers (19.5 miles) intermodulation	(4)—87.7 kilometers (54.5 miles) adjacent channel	(5)—95.7 kilometers (59.5 miles) oscillator	(6)—95.7 kilometers (59.5 miles) sound image	(7)—119.9 kilometers (74.5 miles) picture image
14	22	16–19	15	21	28	29
15	23	17–20	14, 16	22	29	30
16	24	14, 18–21	15, 17	23	30	31
17	25	14–15, 19–22	16, 18	24	31	32
18	26	14–16, 20–23	17, 19	25	32	33

TABLE II—Continued

(1)—Channel	(2)—31.4 kilometers (19.5 miles) If beat	(3)—31.4 kilometers (19.5 miles) intermodulation	(4)—87.7 kilometers (54.5 miles) adjacent channel	(5)—95.7 kilometers (59.5 miles) oscillator	(6)—95.7 kilometers (59.5 miles) sound image	(7)—119.9 kilometers (74.5 miles) picture image
19	27	14–17, 21–24	18, 20	26	33	34
20	28	15–18, 22–25	19, 21	27	34	35
21	29	16–19, 23–26	20, 22	28, 14	35	36
22	30, 14	17–20, 24–27	21, 23	29, 15	36	37
23	31, 15	18–21, 25–28	22, 24	30, 16	37	38
24	32, 16	19–22, 26–29	23, 25	31, 17	38	39
25	33, 17	20–23, 27–30	24, 26	32, 18	39	40
26	34, 18	21–24, 28–31	25, 27	33, 19	40	41
27	35, 19	22–25, 29–32	26, 28	34, 20	41	42
28	36, 20	23–26, 30–33	27, 29	35, 21	42, 14	43
29	37, 21	24–27, 31–34	28, 30	36, 22	43, 15	44, 14
30	38, 22	25–28, 32–35	29, 31	37, 23	44, 16	45, 15
31	39, 23	26–29, 33–36	30, 32	38, 24	45, 17	46, 16
32	40, 24	27–30, 34–37	31, 33	39, 25	46, 18	47, 17
33	41, 25	28–31, 35–38	32, 34	40, 26	47, 19	48, 18
34	42, 26	29–32, 36–39	33, 35	41, 27	48, 20	49, 19
35	43, 27	30–33, 37–40	34, 36	42, 28	49, 21	50, 20
36	44, 28	31–34, 38–41	35, 37	43, 29	50, 22	51, 21
37	45, 29	32–35, 39–42	36, 38	44, 30	51, 23	52, 22
38	46, 30	33–36, 40–43	37, 39	45, 31	52, 24	53, 23
39	47, 31	34–37, 41–44	38, 40	46, 32	53, 25	54, 24
40	48, 32	35–38, 42–45	39, 41	47, 33	54, 26	55, 25
41	49, 33	36–39, 43–46	40, 42	48, 34	55, 27	56, 26
42	50, 34	37–40, 44–47	41, 43	49, 35	56, 28	57, 27
43	51, 35	38–41, 45–48	42, 44	50, 36	57, 29	58, 28
44	52, 36	39–42, 46–49	43, 45	51, 37	58, 30	59, 29
45	53, 37	40–43, 47–50	44, 46	52, 38	59, 31	60, 30
46	54, 38	41–44, 48–51	45, 47	53, 39	60, 32	61, 31
47	55, 39	42–45, 49–52	46, 48	54, 40	61, 33	62, 32
48	56, 40	43–46, 50–53	47, 49	55, 41	62, 34	63, 33
49	57, 41	44–47, 51–54	48, 50	56, 42	63, 35	64, 34
50	58, 42	45–48, 52–55	49, 51	57, 43	64, 36	65, 35
51	59, 43	46–49, 53–56	50, 52	58, 44	65, 37	66, 36
52	60, 44	47–50, 54–57	51, 53	59, 45	66, 38	67, 37
53	61, 45	48–51, 55–58	52, 54	60, 46	67, 39	68, 38
54	62, 46	49–52, 56–59	53, 55	61, 47	68, 40	69, 39
55	63, 47	50–53, 57–60	54, 56	62, 48	69, 41	70, 40
56	64, 48	51–54, 58–61	55, 57	63, 49	70, 42	71, 41
57	65, 49	52–55, 59–62	56, 58	64, 50	71, 43	72, 42
58	66, 50	53–56, 60–63	57, 59	65, 51	72, 44	73, 43
59	67, 51	54–57, 61–64	58, 60	66, 52	73, 45	74, 44
60	68, 52	55–58, 62–65	59, 61	67, 53	74, 46	75, 45
61	69, 53	56–59, 63–66	60, 62	68, 54	75, 47	76, 46
62	70, 54	57–60, 64–67	61, 63	69, 55	76, 48	77, 47
63	71, 55	58–61, 65–68	62, 64	70, 56	77, 49	78, 48
64	72, 56	59–62, 66–69	63, 65	71, 57	78, 50	79, 49
65	73, 57	60–63, 67–70	64, 66	72, 58	79, 51	80, 50
66	74, 58	61–64, 68–71	65, 67	73, 59	80, 52	81, 51
67	75, 59	62–65, 69–72	66, 68	74, 60	81, 53	82, 52
68	76, 60	63–66, 70–73	67, 69	75, 61	82, 54	83, 53
69	77, 61	64–67, 71–74	68, 70	76, 62	83, 55	54

NOTE: The parenthetical reference beneath the mileage figures in columns 2 through 7, inclusive, indicate, in abbreviated form, the bases for the required mileage separations. For a discussion of these bases, see the ''Sixth Report and Order'' of the Commission (FCC 52–294; 17 FR 3905, May 2, 1952). The hyphenated numbers listed in column (3) are both inclusive.

[28 FR 13660, Dec. 14, 1963, as amended at 39 FR 20377, June 10, 1974; 47 FR 35990, Aug. 18, 1982; 50 FR 23701, June 5, 1985; 54 FR 9807, Mar. 8, 1989]

§ 73.699 TV engineering charts.

This section consists of the following Figures 1–5, 5a, 6–10, 10a–10e, 11–12, 13–16.

NOTE: The charts as reproduced herein, due to their small scale, are not to be used in connection with material submitted to the F.C.C.

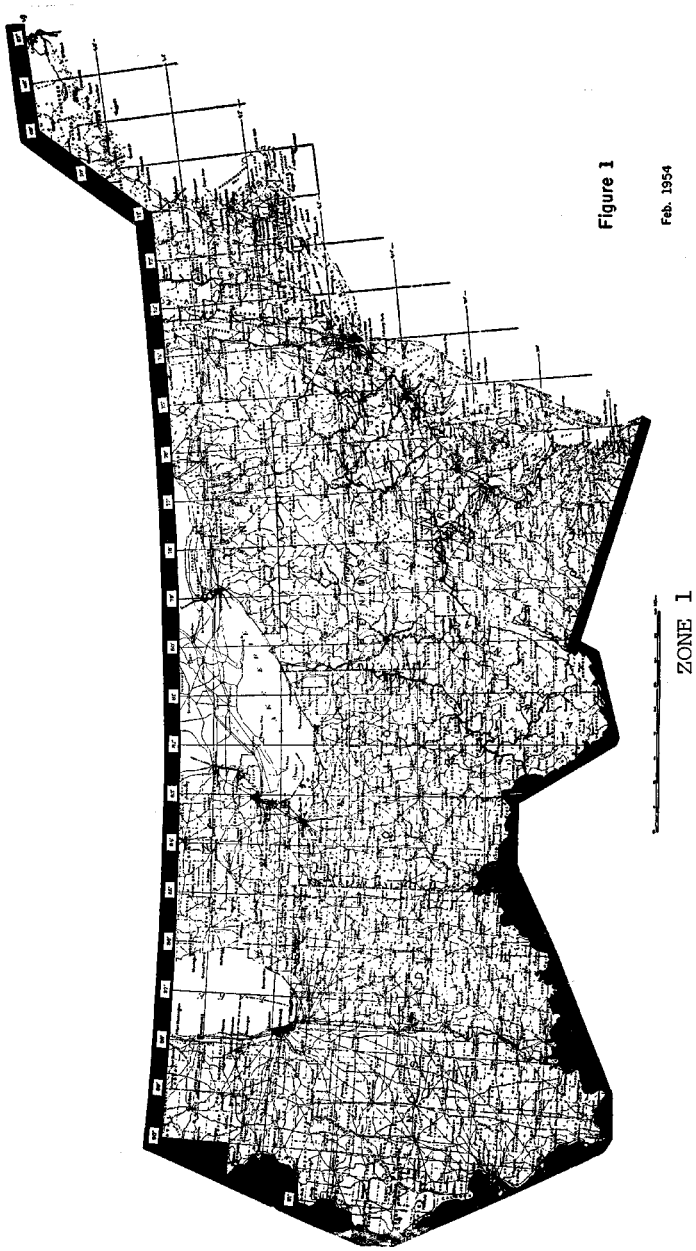
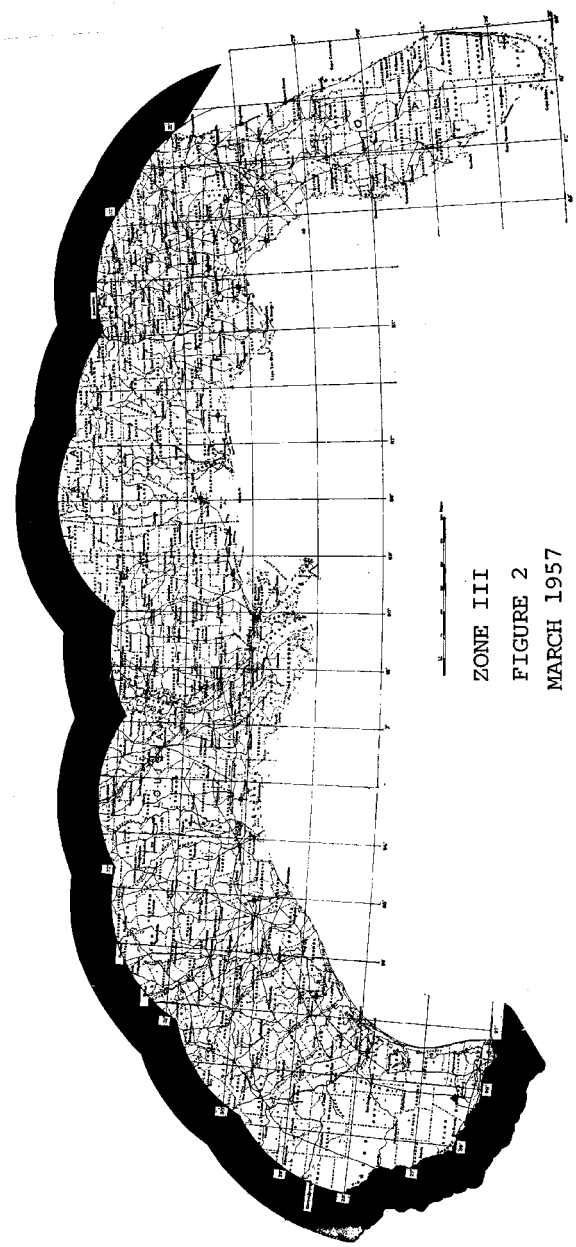
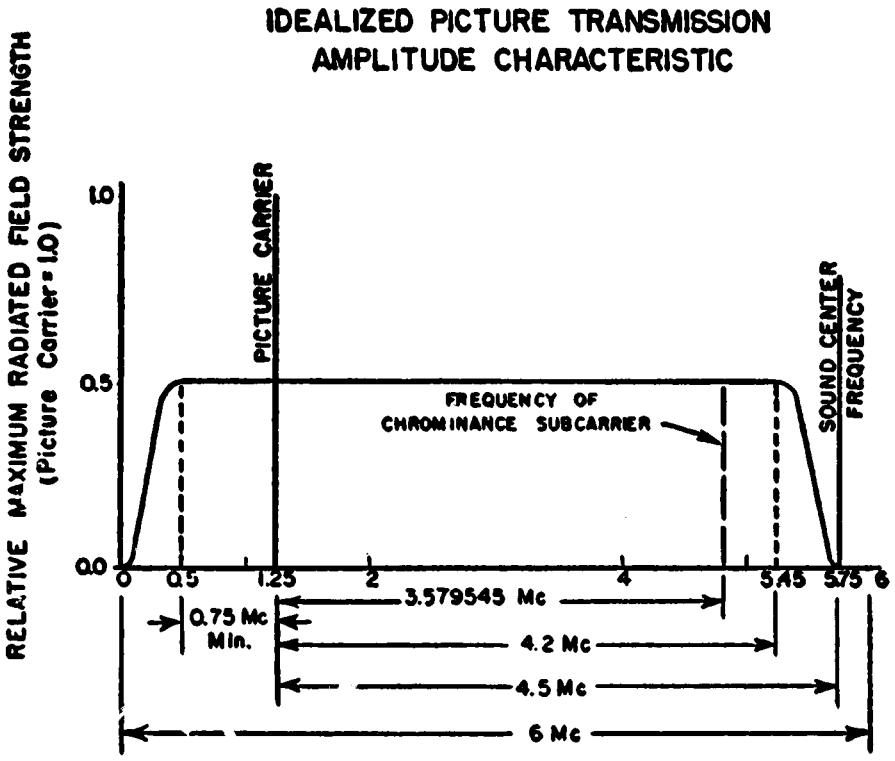


Figure 1

Feb. 1954


ZONE III
FIGURE 2
MARCH 1957



Note: Not drawn to scale

FIGURE 5

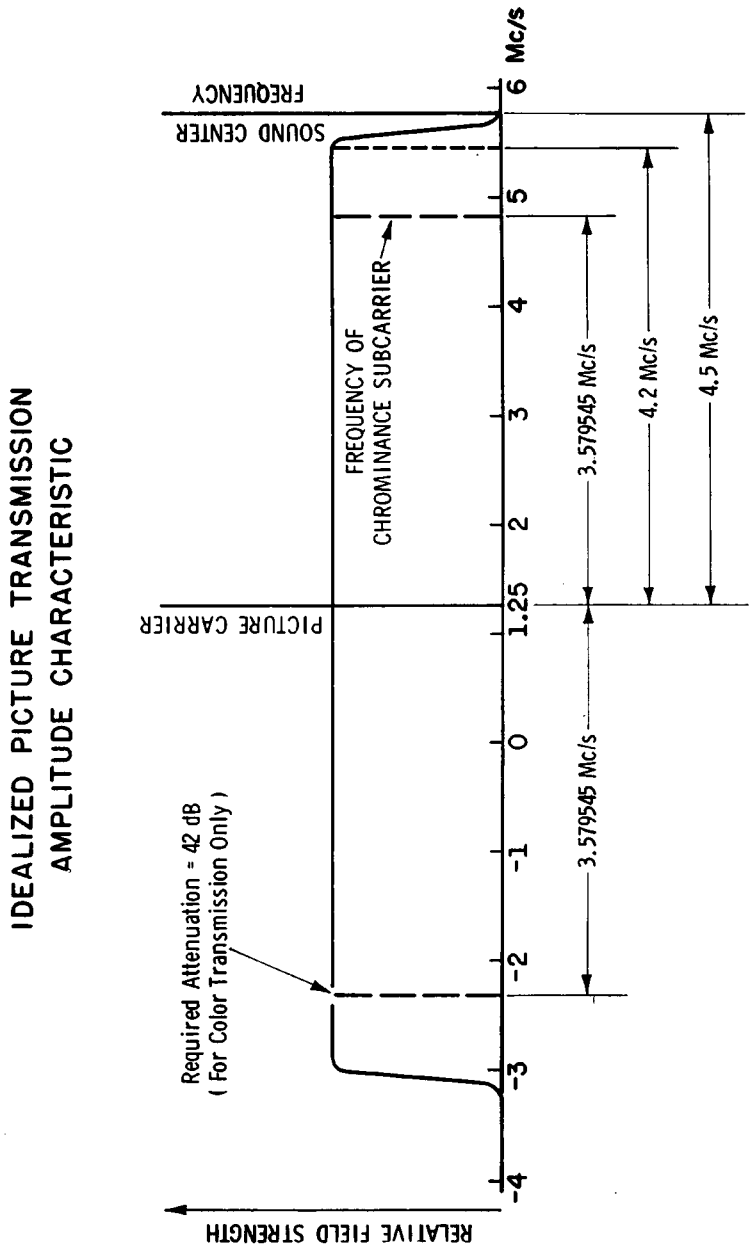
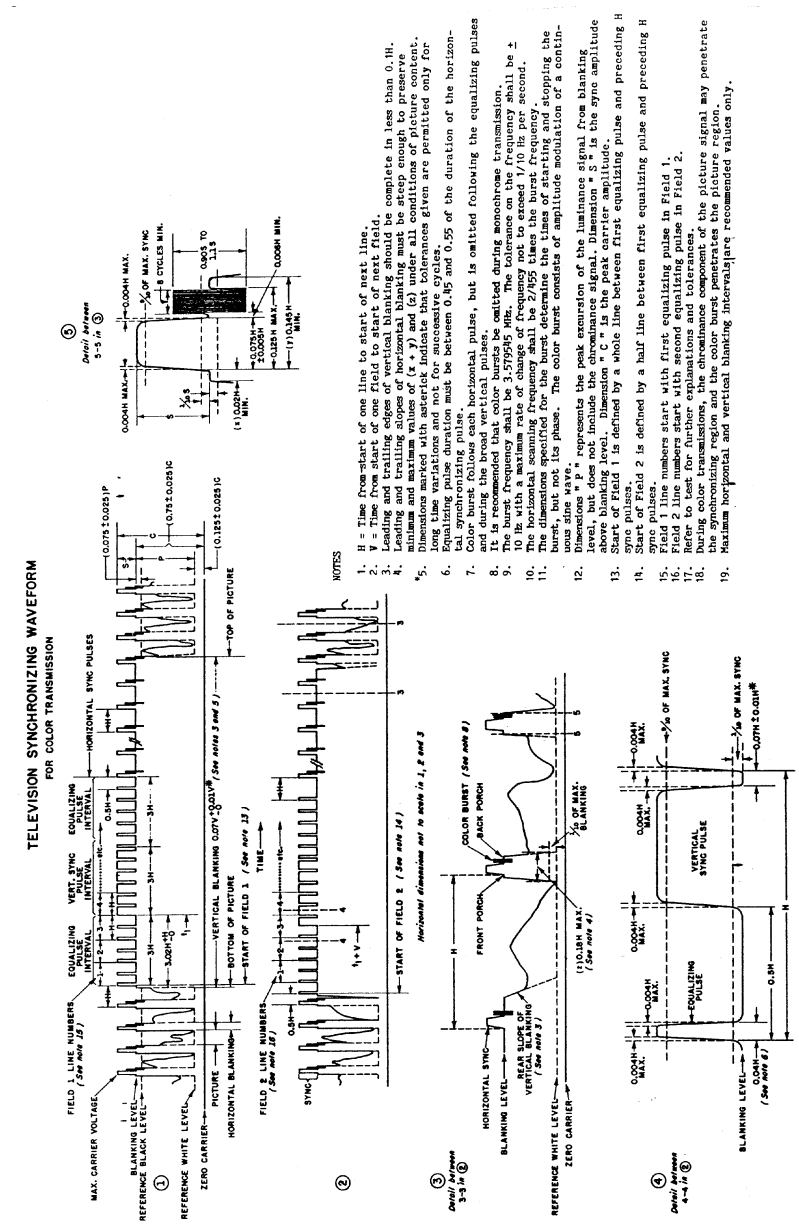

IDEALIZED PICTURE TRANSMISSION
AMPLITUDE CHARACTERISTIC
Required Attenuation = 42 dB
(For Color Transmission Only)
PICTURE CARRIER
FREQUENCY OF
CHROMINANCE SUBCARRIER
SOUND CENTER
FREQUENCY
3.579545 Mc/s
3.579545 Mc/s
4.2 Mc/s
4.5 Mc/s
-4
-3
-2
-1
0
1.25
2
3
4
5
6 Mc/s
RELATIVE FIELD STRENGTH

FIGURE 5(a)



FCC § 73.699, FIGURE 6

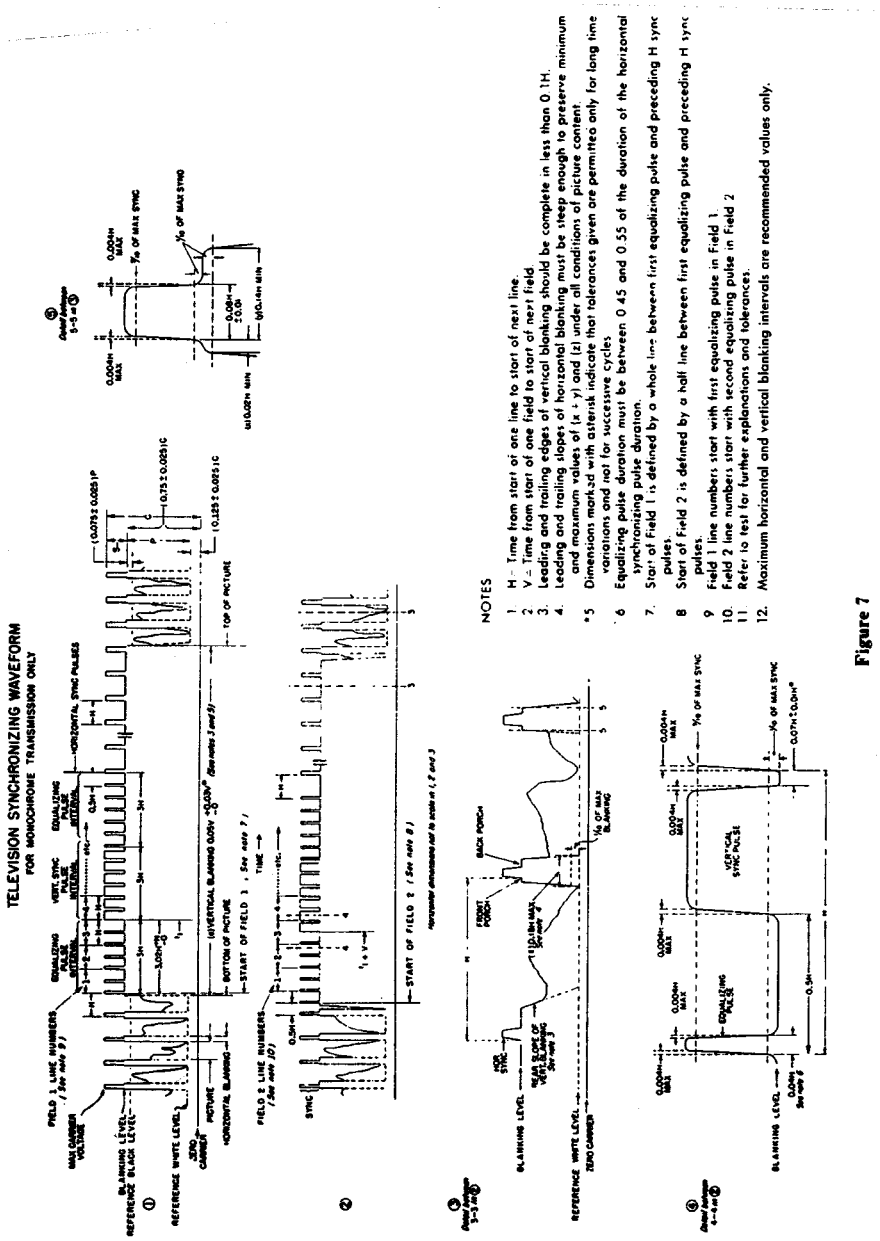

TELEVISION SYNCHRONIZING WAVEFORM
FOR MONOCHROME TRANSMISSION ONLY
NOTES
1. H = Time from start of one line to start of next line.
2. V = Time from start of one field to start of next field
3. Leading and trailing edges of vertical blanking should be complete in less than 0.1H.
4. Leading and trailing slopes of horizontal blanking must be steep enough to preserve minimum and maximum values of (x + y) and (z) under all conditions of picture content.
*5. Dimensions marked with asterisk indicate that tolerances given are permitted only for long time variations and not for successive cycles
6. Equalizing pulse duration must be between 0.45 and 0.55 of the duration of the horizontal synchronizing pulse duration.
7. Start of Field 1 is defined by a whole line between first equalizing pulse and preceding H sync pulses.
8. Start of Field 2 is defined by a half line between first equalizing pulse and preceding H sync pulses.
9. Field 1 line numbers start with first equalizing pulse in Field 1.
10. Field 2 line numbers start with second equalizing pulse in Field 2
11. Refer to test for further explanations and tolerances.
12. Maximum horizontal and vertical blanking intervals are recommended values only.

Figure 7

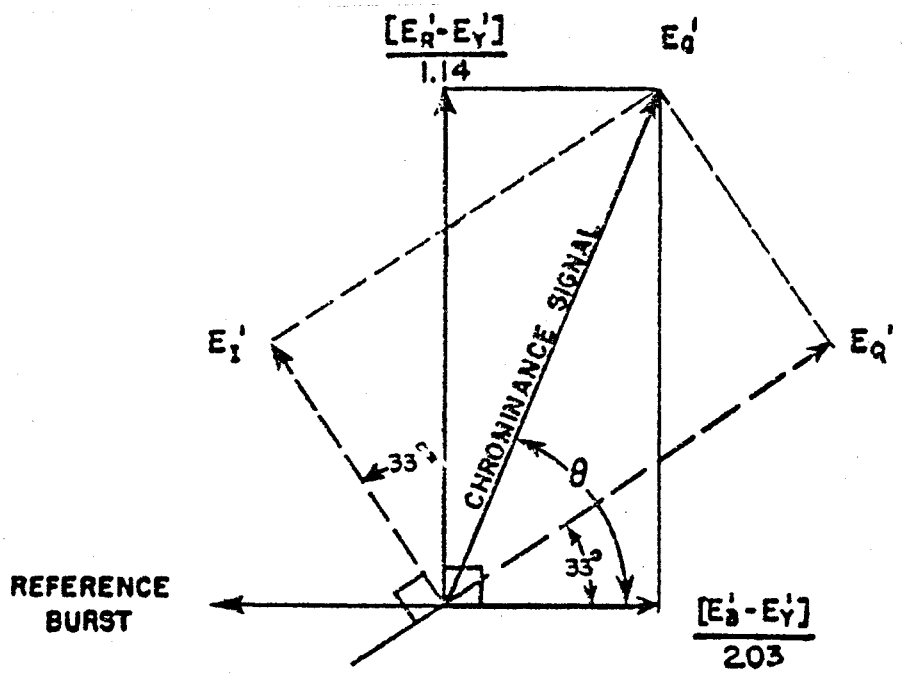
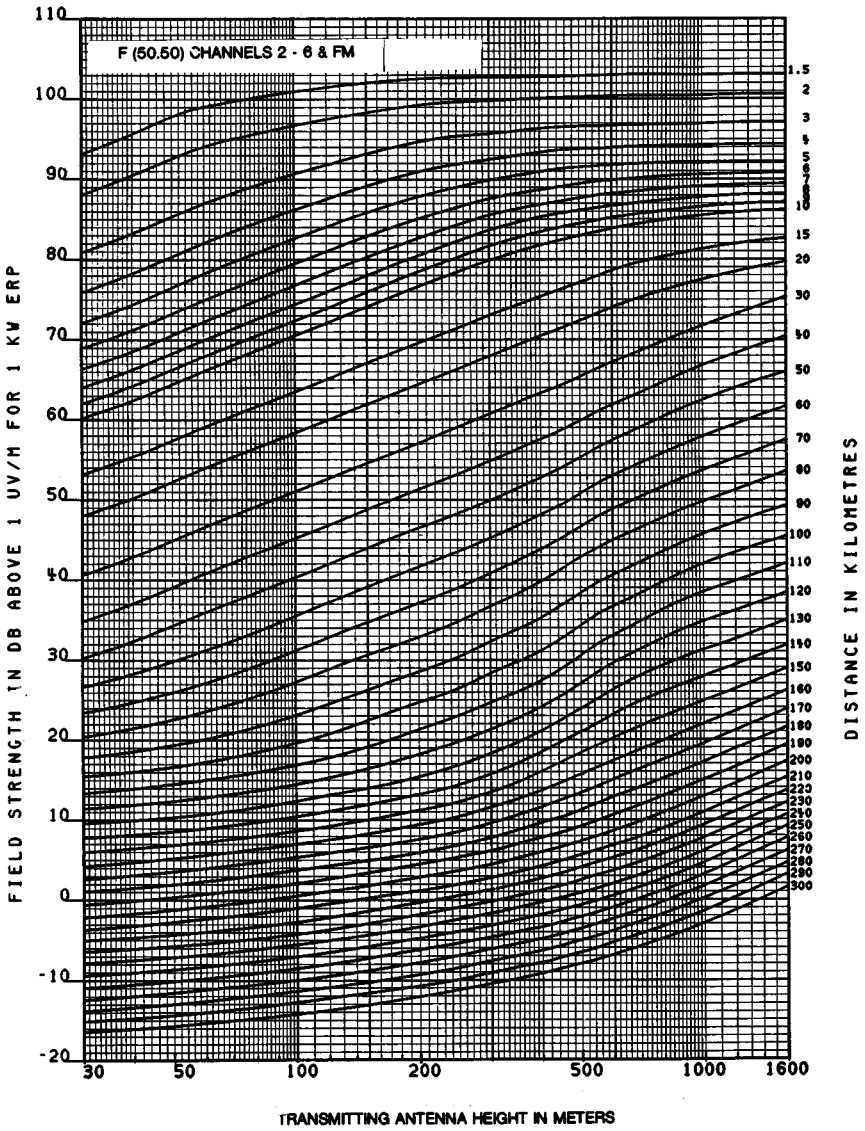
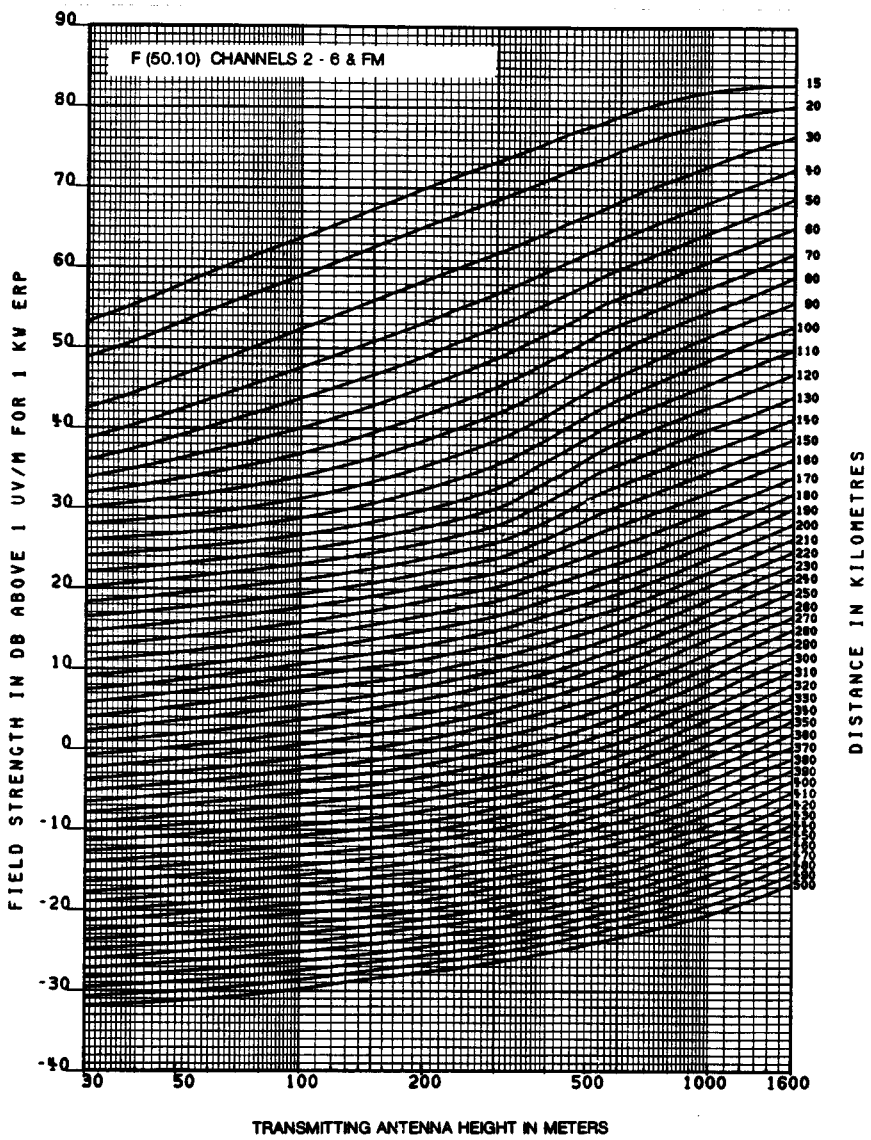

[E'R-E'Y]
1.14
E'Q
E'I
E'Q
CHROMINANCE SIGNAL
33°
θ
33°
REFERENCE
BURST
[E'B-E'Y]
2.03

FIGURE 8



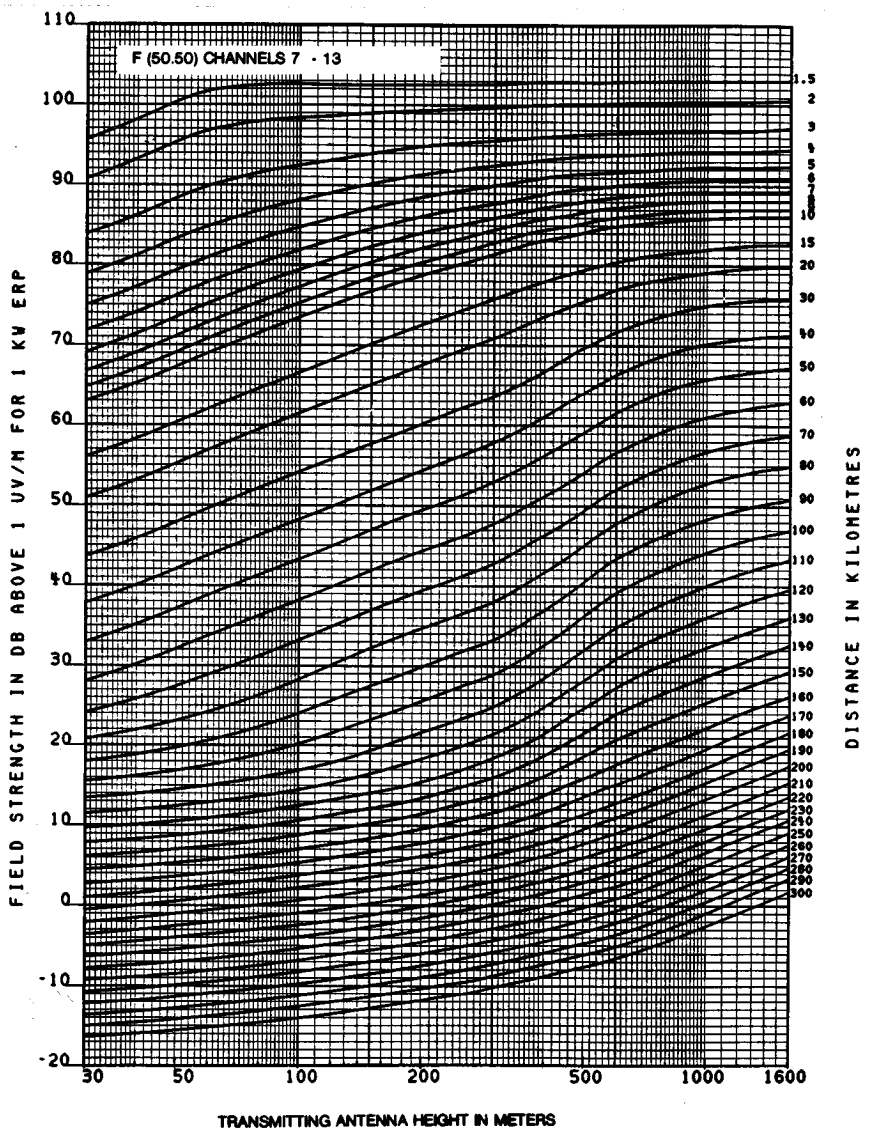
FCC 73.699 Figure 9

ESTIMATED FIELD STRENGTH EXCEEDED AT 50 PERCENT
OF THE POTENTIAL RECEIVER LOCATIONS FOR AT LEAST 50 PERCENT
OF THE TIME AT A RECEIVING ANTENNA HEIGHT OF 9 METERS



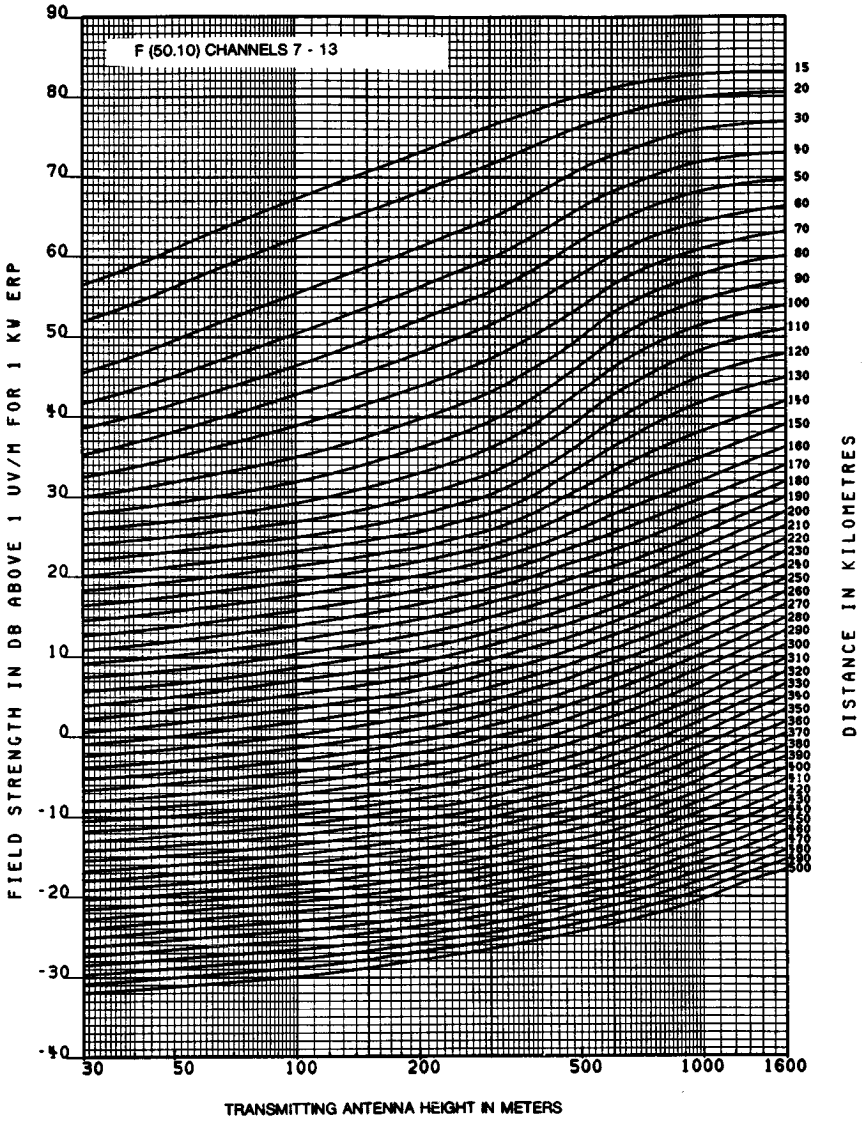
FCC 73.699 Figure 9a

ESTIMATED FIELD STRENGTH EXCEEDED AT 50 PERCENT
OF THE POTENTIAL RECEIVER LOCATIONS FOR AT LEAST 10 PERCENT
OF THE TIME AT A RECEIVING ANTENNA HEIGHT OF 9 METERS



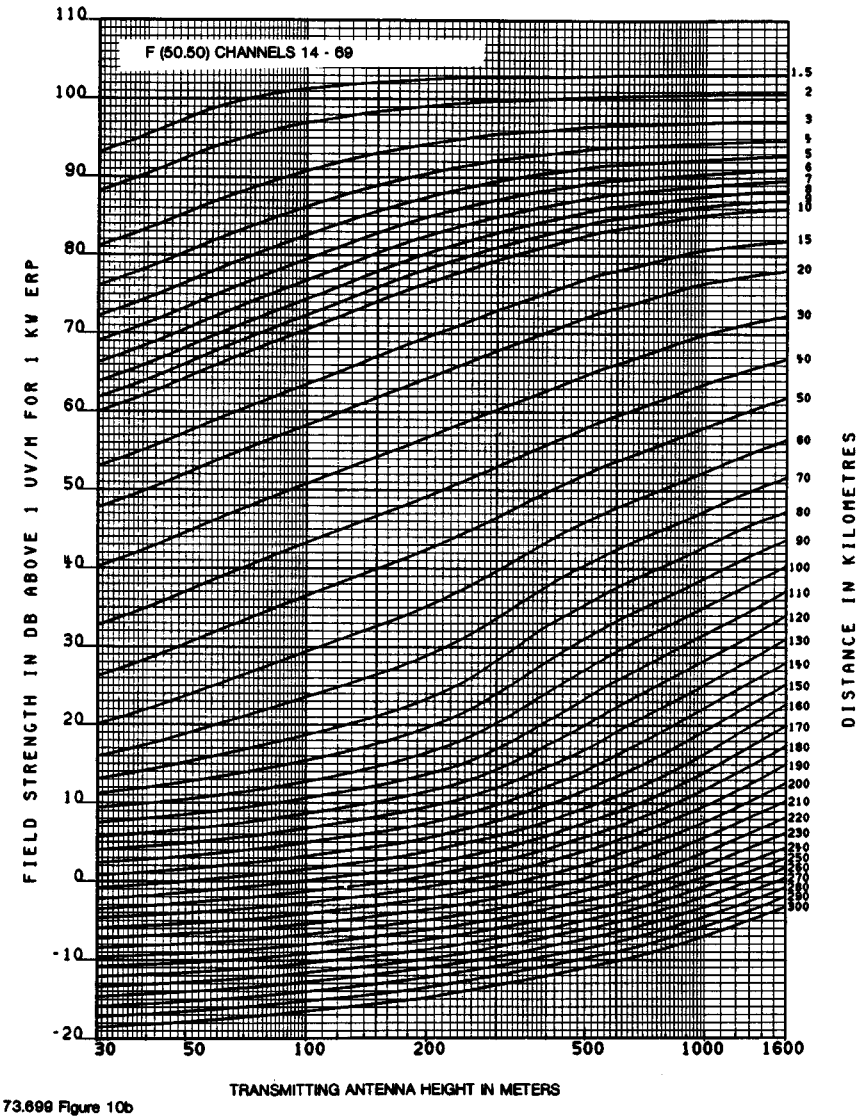
FCC 73.699 Figure 10

ESTIMATED FIELD STRENGTH EXCEEDED AT 50 PERCENT
OF THE POTENTIAL RECEIVER LOCATIONS FOR AT LEAST 50 PERCENT
OF THE TIME AT A RECEIVING ANTENNA HEIGHT OF 9 METERS



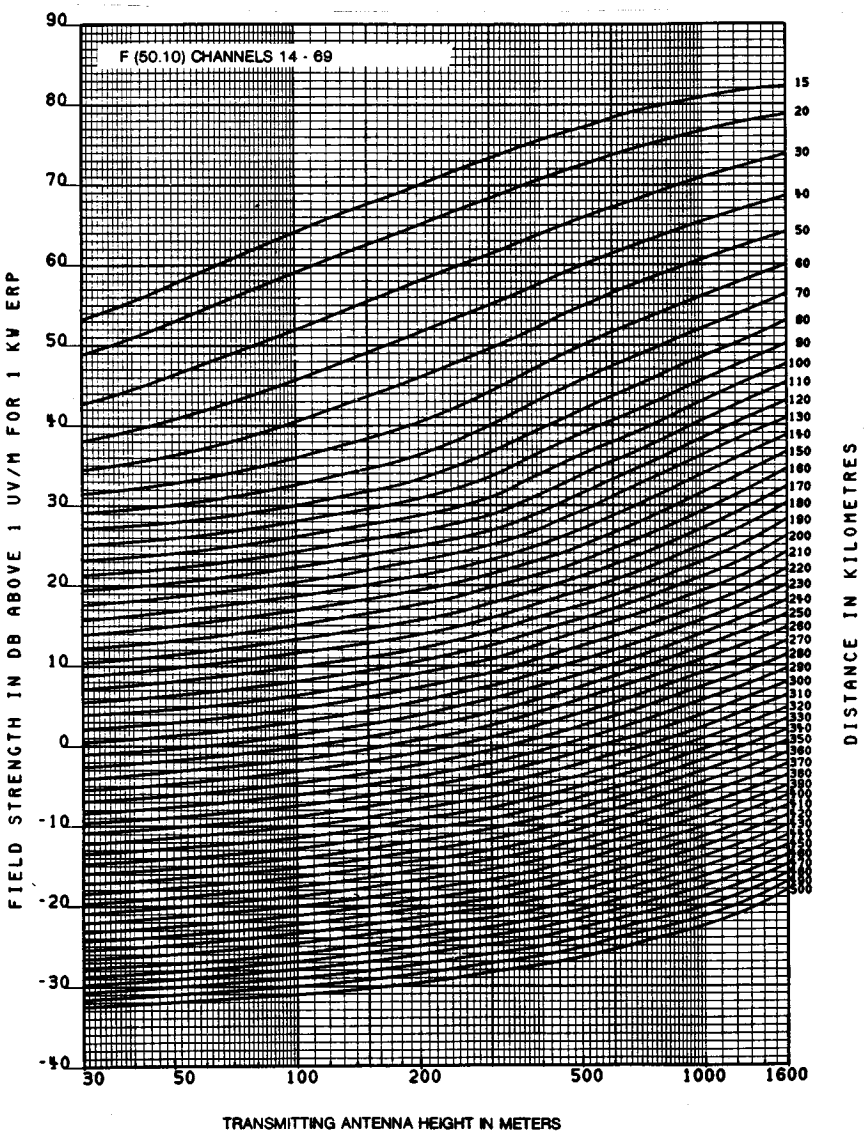
FCC 73.699 Figure 10a

ESTIMATED FIELD STRENGTH EXCEEDED AT 50 PERCENT
OF THE POTENTIAL RECEIVER LOCATIONS FOR AT LEAST 10 PERCENT
OF THE TIME AT A RECEIVING ANTENNA HEIGHT OF 9 METERS



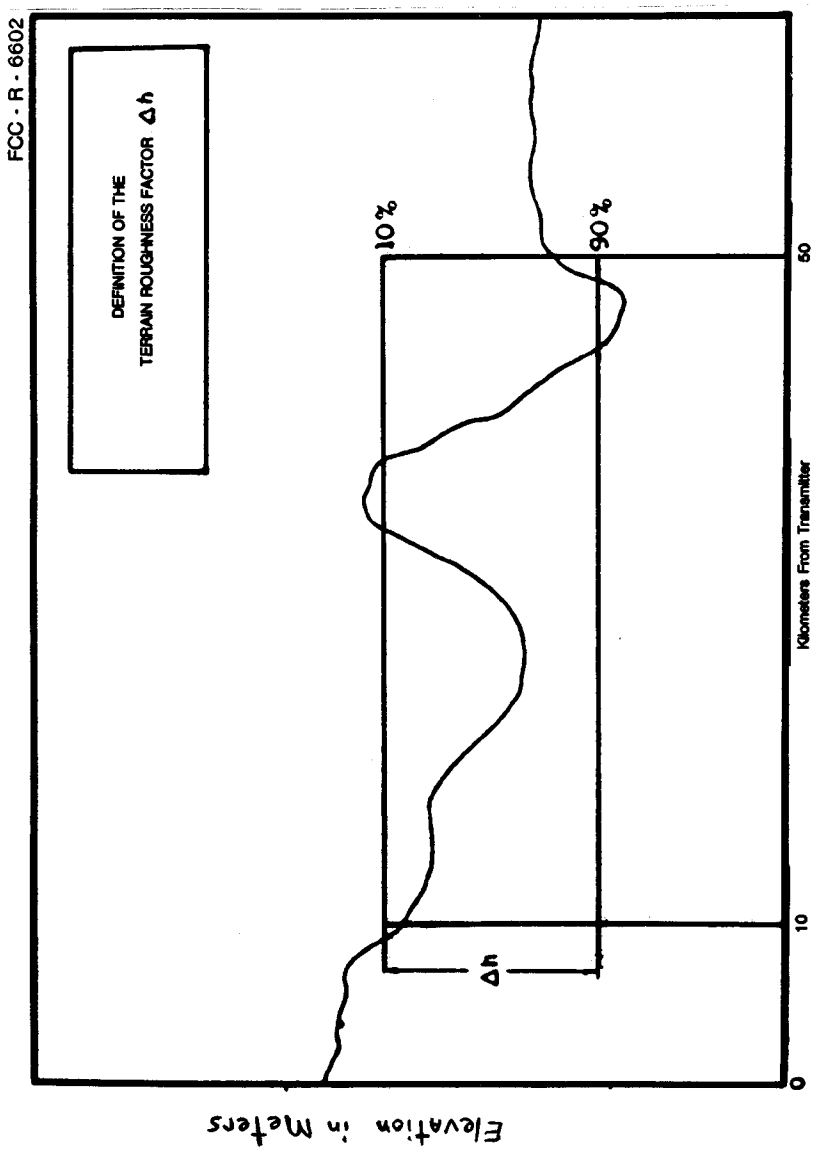
FCC 73.699 Figure 10b

ESTIMATED FIELD STRENGTH EXCEEDED AT 50 PERCENT
OF THE POTENTIAL RECEIVER LOCATIONS FOR AT LEAST 50 PERCENT
OF THE TIME AT A RECEIVING ANTENNA HEIGHT OF 9 METERS

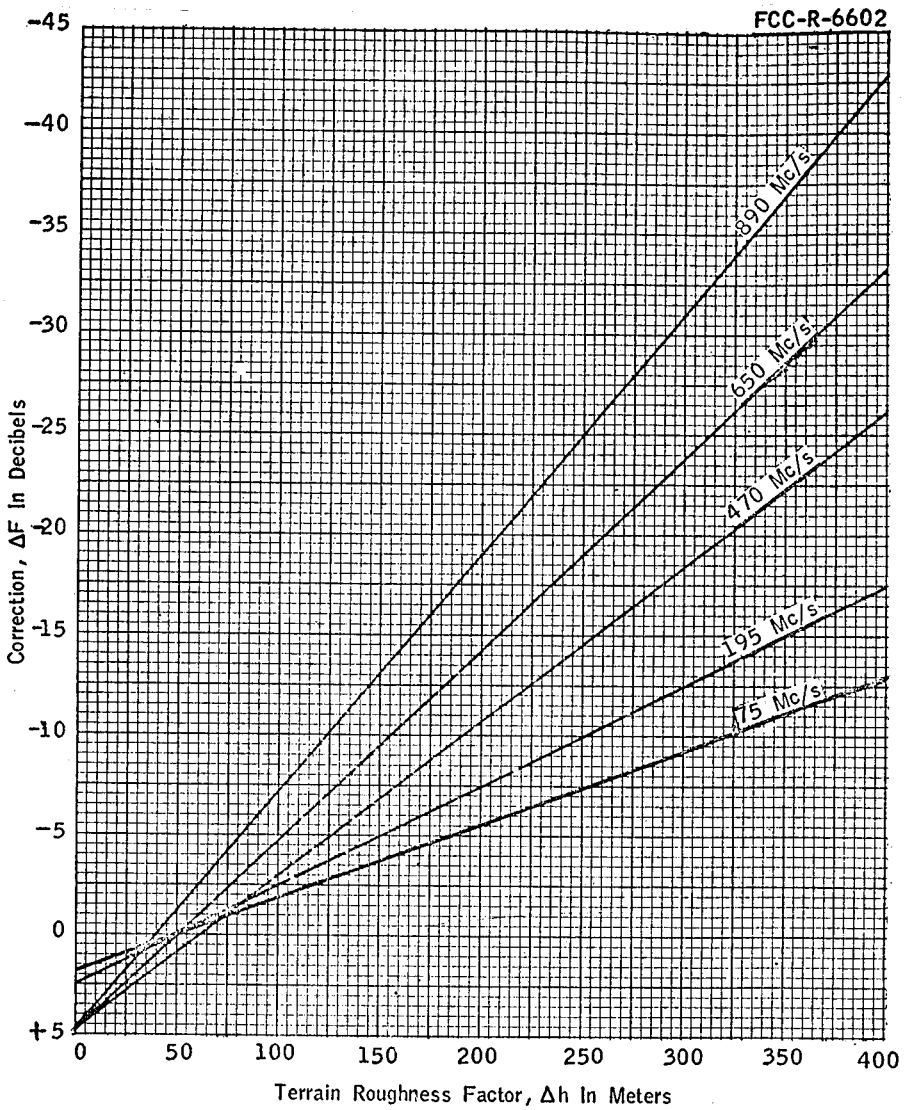


FCC 73.699 Figure 10c

ESTIMATED FIELD STRENGTH EXCEEDED AT 50 PERCENT
OF THE POTENTIAL RECEIVER LOCATIONS FOR AT LEAST 10 PERCENT
OF THE TIME AT A RECEIVING ANTENNA HEIGHT OF 9 METERS



FCC §73.699 FIGURE 10d



TERRAIN ROUGHNESS CORRECTION
for use with estimated F(50,50) and F(50,10) field strength curves

FCC §73.699 FIGURE 10e

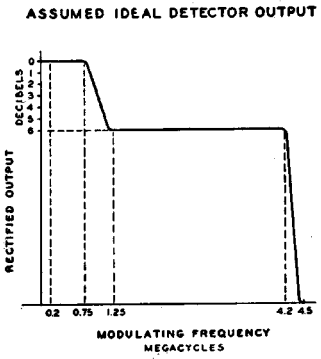


FIGURE 11

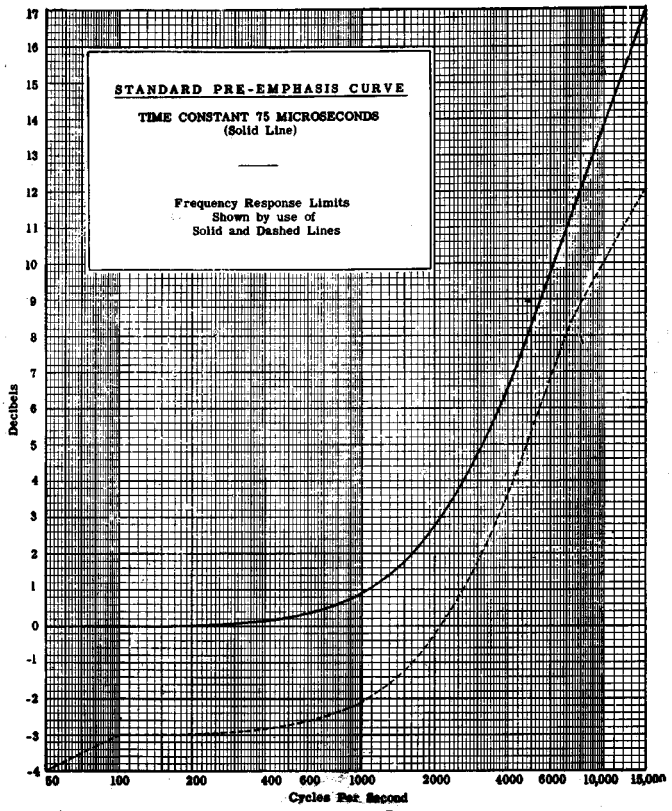
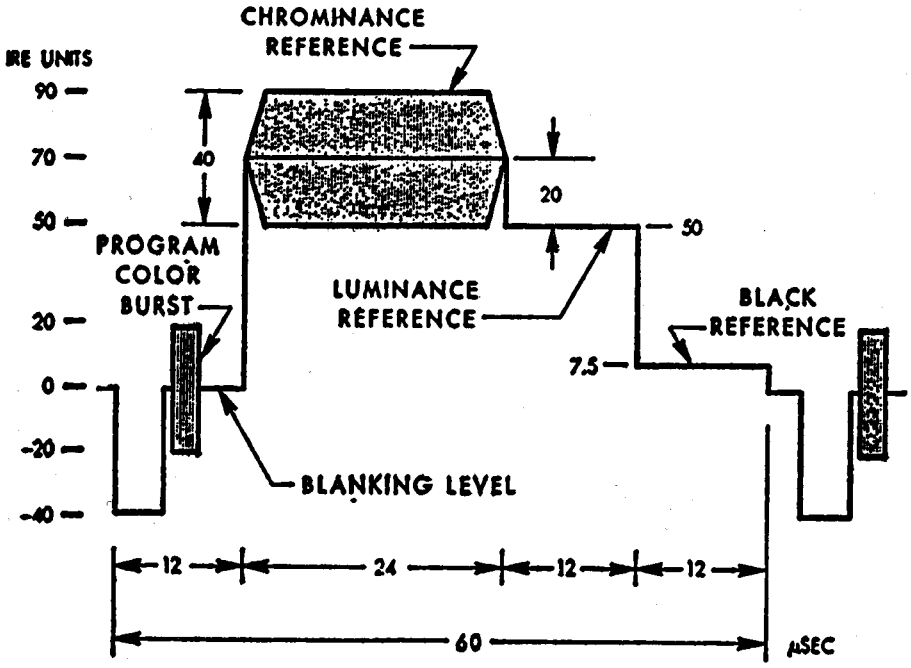


FIGURE 12



NOTE: THE CHROMINANCE REFERENCE AND THE PROGRAM COLOR BURST HAVE THE SAME PHASE.

FIGURE 16

Figures 13 through 15 [Reserved]

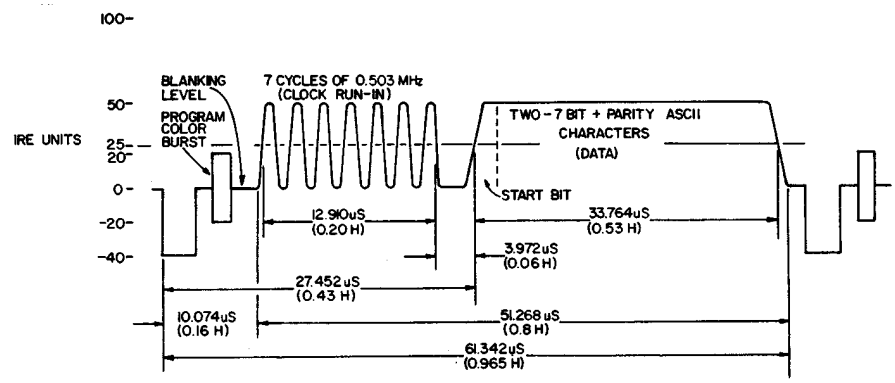


FIGURE 17 LINE 21 FIELD DATA SIGNAL FORMAT

1. DATA "1" = 50 IRE UNITS, DATA "0" = 0.
2. DATA PULSE RISE TIME = 2T BAR RISE TIME.
3. DATA TIME BASE = 32 f_H (0.50349650 MHz.)
4. DATA BIT INTERVAL = H/32 (1.986uS.)
5. NEGATIVE GOING ZERO CROSSINGS OF CLOCK ARE COHERENT WITH DATA TRANSITIONS.
6. DATA AND CLOCK RUN-IN COHERENT WITH H.

HORIZONTAL DIMENSIONS NOT TO SCALE

FCC § 73.699, Figure 17

[28 FR 13660, Dec. 14, 1963, as amended at 36 FR 17429, Aug. 31, 1971; 39 FR 40957, Nov. 22, 1974; 40 FR 27684, July 1, 1975; 41 FR 56326, Dec. 28, 1976; 44 FR 36040, June 20, 1979; 47 FR 3790, Jan. 27, 1982; 47 FR 35990, Aug. 18, 1982; 50 FR 13972, Apr. 9, 1985; 50 FR 23701, June 5, 1985; 50 FR 32205, Aug. 9, 1985; 52 FR 11656, Apr. 10, 1987; 54 FR 9807, Mar. 8, 1989; 58 FR 29983, May 25, 1993]

EFFECTIVE DATE NOTE: At 42 FR 25736, May 19, 1977, the effective date of § 73.699 Figure 10e was stayed indefinitely.

Subpart F—International Broadcast Stations

§ 73.701 Definitions.

The following definitions apply to terminology employed in this subpart:

(a) *International broadcasting stations.* A broadcasting station employing frequencies allocated to the broadcasting service between 5,950 and 26,100 kHz, the transmissions of which are intended to be received directly by the general public in foreign countries. (A station may be authorized more than one transmitter.) There are both government and non-government international broadcasting stations; only the latter are licensed by the Commission and are subject to the rules of this subpart.

(b) *Transmitter-hour.* One frequency used on one transmitter for one hour.

(c) *Frequency-hour.* One frequency used for one hour regardless of the number of transmitters over which it is simultaneously broadcast by a station during that hour.

(d) *Multiple operation.* Broadcasting by a station on one frequency over two or more transmitters simultaneously. If a station uses the same frequency simultaneously on each of two (three, etc.) transmitters for an hour, it uses one frequency-hour and two (three, etc.) transmitter-hours.

(e) *Day.* Any twenty-four hour period beginning 0100 g.m.t. and ending 0100 g.m.t.

(f) *Sunspot number.* The 12–month running average of the number of sunspots for any month as indicated in the

U.S. Department of Commerce Telecommunications Research and Engineering Report No. 13—available from the Superintendent of Documents, Washington, DC 20402. The sunspot number varies in an approximate 11–year cycle.

(g) *March season.* That portion of any year commencing 0100 g.m.t. on the first Sunday in March and ending at 0100 g.m.t. on the first Sunday in May.

(h) *May season.* That portion of any year commencing at 0100 G.M.T. on the first Sunday in May and ending at 0100 g.m.t. on the first Sunday in September.

(i) *September season.* That portion of any year commencing at 0100 g.m.t. on the first Sunday in September and ending at 0100 g.m.t. on the first Sunday in November.

(j) *November season.* That portion of any year commencing at 0100 g.m.t. on the first Sunday in November and ending at 0100 g.m.t. on the first Sunday in March.

(k) *Seasonal schedule.* An assignment, for a season, of a frequency or frequencies, and other technical parameters, to be used by a station for transmission to particular zones or areas of reception during specified hours.

(l) *Reference month.* That month of a season which is used for determining predicted propagation characteristics for the season. The reference month is January, April, July, or October, as related to the season in which it occurs.

(m) *Maximum usable frequency* (*MUF*). The highest frequency which is returned by ionospheric radio propagation to the surface of the earth for a particular path and time of day for 50 percent of the days of the reference month.

(n) *Optimum working frequency* (*FOT*). The highest frequency which is returned by ionospheric radio propagation to the surface of the earth for a particular path and time of day for 90 percent of the days of the reference month.

NOTE: The international abbreviation for optimum working frequency, FOT, is formed with the initial letters of the French words for ''optimum working frequency'' which are ''frequence optimum de travail.''

(o) *Zone of reception.* Any geographic zone indicated in § 73.703 in which the reception of particular programs is specifically intended and in which broadcast coverage is contemplated.

(p) *Area of reception.* Any geographic area smaller than a zone of reception in which the reception of particular programs is specifically intended and in which broadcast coverage is contemplated, such areas being indicated by countries or parts of countries.

(q) *Delivered median field strength, or field strength.* The field strength incident upon the zone or area of reception expressed in microvolts per meter, or decibels above one microvolt per meter, which is exceeded by the hourly median value for 50 percent of the days of the reference month.

(r) *Carrier power.* The average power supplied to the antenna transmission line by a transmitter during one radio frequency cycle under conditions of no modulation.

[38 FR 18892, July 16, 1973]

§ 73.702 Assignment and use of frequencies.

(a) Frequencies will be assigned by the Commission prior to the start of each season to authorized international broadcasting stations for use during the season at specified hours and for transmission to specified zones or areas of reception, with specified power and antenna bearing. Six months prior to the start of each season, licensees and permittees shall by informal written request, submitted to the Commission in triplicate, indicate for the season the frequency or frequencies desired for transmission to each zone or area of reception specified in the license or permit, the specific hours during which it desires to transmit to such zones or areas on each frequency, and the power, antenna gain, and antenna bearing it desires to use. Requests will be honored to the extent that interference and propagation conditions permit and that they are otherwise in accordance with the provisions of this section.

(b) After necessary processing of the requests required by paragraph (a) of this section, the Commission will notify each licensee and permittee of the frequencies, hours of use thereof to specified zones or areas of reception, power, and antenna bearing which it

intends to authorize for the season in question. After receipt of such notification, the licensee or permittee shall, in writing, not later than two months before the start of the season in question, inform the Commission either that it plans to operate in accordance with the authorization which the Commission intends to issue, or that it plans to operate in another manner. If the licensee or permittee indicates that it plans to operate in another manner, it shall furnish explanatory details.

(c) If after submitting the request required under the provisions of paragraph (a) of this section, but before receipt of the Commission's notification referred to in paragraph (b) of this section, the licensee or permittee submits a request for changes of its original request, such requests will be accepted for consideration only if accompanied by statements showing good cause therefor and will be honored only if conditions permit. If the information required to be submitted by the licensee or permittee under the provisions of paragraph (b) of this section indicates that operation in another manner is contemplated, and the explanatory details contain a request for change in the originally proposed manner of operation, such requests will be accepted for consideration only if accompanied by statements showing good cause therefor and will be honored only if conditions permit. If after the licensee or permittee submits the information required under the provisions of paragraph (b) of this section, but before the start of the season in question, the licensee or permittee submits a request for changes in its manner of operation for the season in question, the request will be accepted for consideration only if accompanied by statements showing good cause therefor and will be honored only if conditions permit. If after the start of a season the licensee or permittee submits a request for changes in the manner of operation as authorized, the request will be considered only if accompanied by statements showing good cause therefor, and will be honored only if conditions permit.

(d) The provisions of paragraphs (a), (b), and (c) of the section shall apply to licensees, to permittees operating under program test authority, and to permittees who anticipate applying for and receiving program test authority for operation during the specified season.

NOTE: Permittees who during the process of construction wish to engage in equipment tests shall by informal written request, submitted to the Commission in triplicate not less than 30 days before they desire to begin such testing, indicate the frequencies they desire to use for testing and the hours they desire to use those frequencies. No equipment testing shall occur until the Commission has authorized frequencies and hours for such testing. Such authorizations shall be only for one season, and if it is desired to continue equipment testing in a following season, new requests for frequencies and hours must be submitted at least 30 days before it is desired to begin testing in the following season.

(e) Within 14 days after the end of each season, a report shall be filed with the Commission by each licensee or permittee operating under program test authority who has been issued a seasonal schedule for that season. The report shall state whether the licensee or permittee has operated the number of frequency-hours authorized by the seasonal schedule to each of the zones or areas of reception specified in the schedule. If such operation has not occurred, a detailed explanation of that fact shall also be submitted which includes specific dates, frequency-hours not used, and reasons for the failure to operate as authorized. The report shall also contain information that has been received by the licensee or permittee as to reception or interference, and conclusions with regard to propagation characteristics of frequencies that were assigned for the season in question.

(f) Frequencies assigned by the FCC shall be within the following bands which are allocated exclusively to the international broadcast service;

(1) 5,950–6,200 kHz; 9,500–9,775 kHz; 11,700–11,975 kHz; 15,100–15,450 kHz; 17,700–17,900 kHz; 21,450–21,750 kHz; 25,600–26,100 kHz.

(2) In addition, the following band is allocated exclusively to the international broadcast service in Region 3:

7,100–7,300 kHz. Assignments in this frequency band will be limited to international broadcast stations located in the area designated as Region 3 by No.

395 of the International Radio Regulations and authorized only to transmit to zones and areas of reception situated outside Region 2 as defined in No. 394 of the International Radio Regulations. In addition, during the hours of 0800–1600 UTC (Coordinated Universal Time) antenna gain with reference to an isotropic radiator in any easterly direction that would intersect any area in Region 2 shall not exceed 2.15 dBi, except in the case where a transmitter power of less than 100 kW is used. In this case, antenna gain on restricted azimuths shall not exceed that which is determined in accordance with equation below. Stations desiring to operate in this band must submit sufficient antenna performance information to ensure compliance with these restrictions. Permitted Gain for Transmitter powers less than 100 kW:

$$\mathrm{Gi} = 2.15 + 10 \log \left(\frac{100}{\mathrm{Pa}} \right) \mathrm{dBi}$$

Where:

Gi=maximum gain permitted with reference to an isotropic radiator.

Pa=Transmitter power employed in kW.

(3) The carrier frequencies assignable shall begin 5 kHz above the frequency specified above for the beginning of each band and shall be in sucessive steps of 5 kHz to and including 5 kHz below the frequency specified as the end of each band.

(g) Frequencies requested for assignment must be as near as practicable to the optimum working frequency (unless otherwise justified) for the zone or area of reception for the period and path of transmission, and should be chosen so that a given frequency will provide the largest period of reliable transmission to the selected zone or area of reception. Moreover, at the zone or area of reception frequencies shall provide protection to the transmissions of other broadcasting stations which, in the opinion of the Commission, have priority of assignment.

NOTE 1: Requests for frequency-hours shall be accompanied by all pertinent technical data with reference to the frequencies and hours of operation, including calculated field strengths delivered to the zones or areas of reception.

NOTE 2: It is preferable that calculated field strengths delivered to zones or areas of reception be equal to or greater than those required by I.F.R.B. Technical Standards, Series A (and supplements thereto), in order for the I.F.R.B. to afford the notified assignment protection from interference. Nevertheless, calculated field strengths less than those required by the I.F.R.B. standards for protection will be acceptable to the Commission. However, licensees should note that if such lesser field strengths are submitted no protection from interference will be provided by the I.F.R.B. if their technical examination of such notifications show incompatibilities with other notified assignments fully complying with I.F.R.B. technical standards.

NOTE 3: Licensees are permitted to engage in multiple operation as defined in § 73.701(d).

NOTE 4: Seasonal requests for frequency-hours will be only for transmissions to zones or areas of reception specified in the basic instrument of authorization. Changes in such zones or areas will be made only on separate application for modification of such instruments.

(h) Not more than one frequency will be assigned for use at any one time for any one program transmission except in instances where a program is intended for reception in more than one zone or area of reception and the intended zones or areas cannot be served by a single frequency: *Provided, however,* That on a showing of good cause a licensee may be authorized to operate on more than one frequency at any one time to transmit any one program to a single zone or area of reception.

(i) Any frequency assigned to a licensee or permittee shall also be available for assignment to other licensees or permittees.

(j) All assignments of frequencies and the hours during which they will be used will be made with the express understanding that they are subject to immediate cancellation or change without hearing whenever the Commission determines that interference or propagation conditions so require and that each frequency-hour assignment for a given seasonal schedule is unique unto itself and not necessarily available for use during a subsequent season.

(k) The total maximum number of frequency-hours which will be authorized to all licensees of international broadcasting stations during any one day for any season is 100. The number

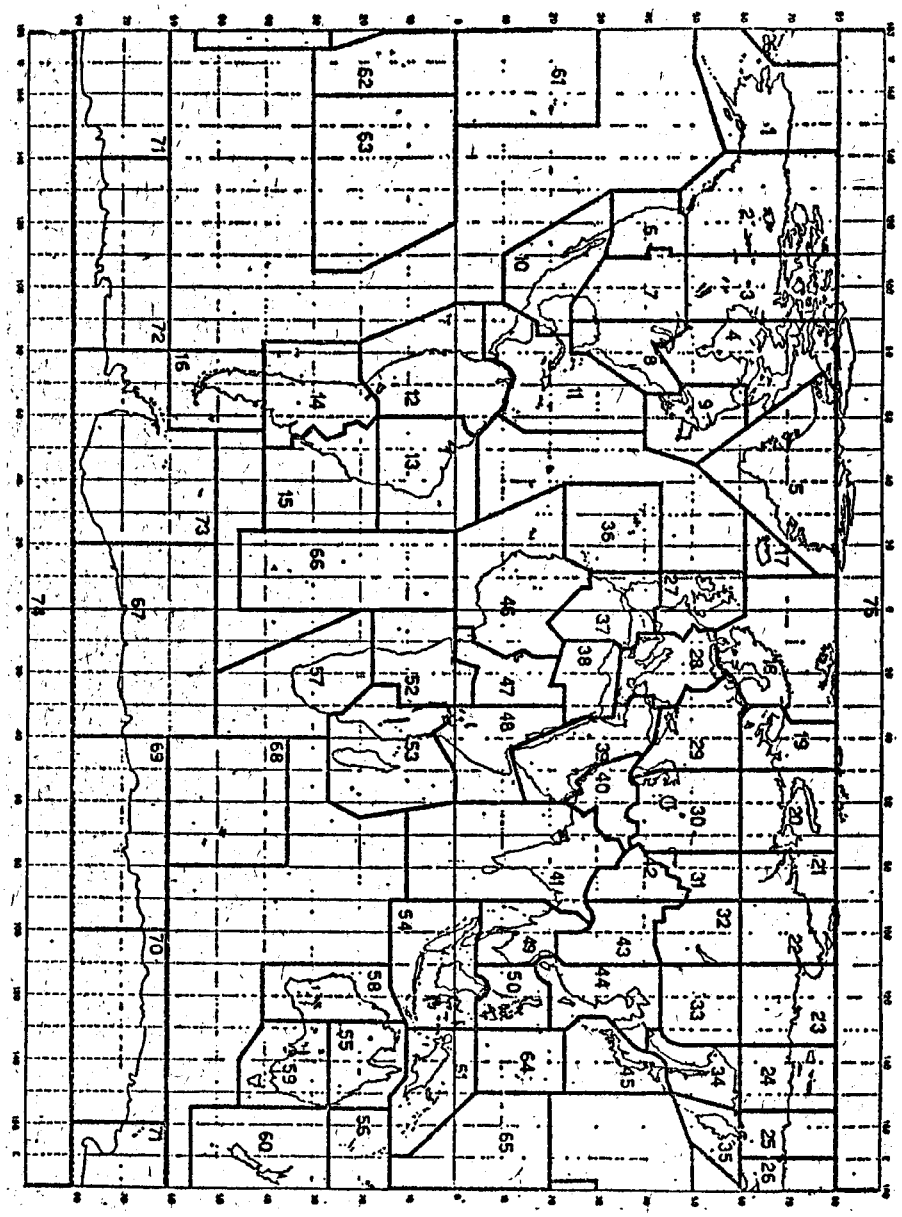
of frequency-hours allocated to any licensee will depend on past usage, availability, and need. If for a forthcoming season the total of the requests for daily frequency-hours of all licensees exceeds 100, all licensees will be notified and each licensee that makes an adequate showing that good cause exists for not having its requested number of frequency-hours reduced and that operation of its station without such reduction would be consistent with the public interest may be authorized the frequency-hours requested.

NOTE: The provisions of this paragraph are not to be construed to mean that a total of 100 (or more) frequency-hours per day is assured licensees. Frequency-hours will only be assigned to the extent that they are available. It is the responsibility of each licensee to make all technical studies to show that frequency-hours requested by it are available and suitable for use as proposed.

[38 FR 18892, July 16, 1973, as amended at 51 FR 9965, Mar. 24, 1986]

§ 73.703 Geographical zones and areas of reception.

The zones or areas of reception to be served by international broadcasting stations shall be based on the following map, and directive antennas shall be employed to direct transmissions thereto:



[38 FR 18893, July 16, 1973]

§ 73.712 Equipment tests.

(a) During the process of construction of an international broadcasting station, the permittee, having obtained authorization for frequencies and hours as set forth in the Note to § 73.702(d) may, without further authority of the FCC, conduct equipment tests for the purpose of such adjustments and measurements as may be necessary to assure compliance with the terms of the construction permit, the technical provisions of the application therefor and the rules and regulations. Such tests shall use voice identification and test tones only. No programming shall be conducted during equipment tests.

(b) The Commission may notify the permittee to conduct no tests or may cancel, suspend, or change the date for the beginning of equipment tests when and if such action may appear to be in the public interest, convenience, and necessity.

(c) Equipment tests may be continued so long as the construction permit shall remain valid: *Provided, however,* That the procedure set forth in paragraph (a) of this section must be repeated prior to the conducting of such tests in each season after the season in which the testing began.

(d) The authorization for tests embodied in this section shall not be construed as constituting a license to operate but as a necessary part of construction.

[28 FR 13696, Dec. 14, 1963, as amended at 37 FR 25842, Dec. 5, 1972. Redesignated and amended at 38 FR 18894, July 16, 1973; 47 FR 40174, Sept. 13, 1982]

§ 73.713 Program tests.

(a) Upon completion of construction of an international broadcasting station in accordance with the terms of the construction permit, the technical provisions of the application therefor, and the rules and regulations and the applicable engineering standards, and when an application for station license has been filed showing the station to be in satisfactory operating condition, the permittee may request authority to conduct program tests. Such request shall be filed with the FCC at least 10 days prior to the date on which it is desired to begin such operation. All data necessary to show compliance with the terms and conditions of the construction permit must be filed with the license application.

(b) Program tests shall not commence until specific Commission authority is received. The Commission reserves the right to change the date of the beginning of such tests or to suspend or revoke the authority for program tests as and when such action may appear to be in the public interest, convenience, and necessity.

(c) Unless sooner suspended or revoked, program test authority continues valid during Commission consideration of the application for license and during this period further extension of the construction permit is not required. Program test authority shall be automatically terminated by final determination upon the application for station license.

(d) All operation under program test authority shall be in strict compliance with the rules governing international broadcasting stations and in strict accordance with representations made in the application for license pursuant to which the tests were authorized.

(e) The granting of program test authority shall not be construed as approval by the Commission of the application for station license.

[38 FR 18894, July 16, 1973, as amended at 47 FR 40174, Sept. 13, 1982]

§ 73.731 Licensing requirements.

(a) A license for an international broadcasting station will be issued only after a satisfactory showing has been made in regard to the following, among others:

(1) That there is a need for the international broadcasting service proposed to be rendered.

(2) That the necessary program sources are available to the applicant to render the international service proposed.

(3) That the production of the program service and the technical operation of the proposed station will be conducted by qualified persons.

(4) That the applicant is legally, technically and financially qualified and possesses adequate technical facilities to carry forward the service proposed.

(5) That the public interest, convenience and necessity will be served through the operation of the proposed station.

[38 FR 18895, July 16, 1973]

§ 73.732 Authorizations.

Authorizations issued to international broadcasting stations by the Commission will be authorizations to permit the construction or use of a particular transmitting equipment combination and related antenna systems for international broadcasting, and to permit broadcasting to zones or areas of reception specified on the instrument of authorization. The authorizations will not specify the frequencies to be used or the hours of use. Requests for frequencies and hours of use will be made as provided in § 73.702. Seasonal schedules, when issued pursuant to the provisions of § 73.702, will become attachments to and part of the instrument of authorization, replacing any such prior attachments.

[38 FR 18895, July 16, 1973]

§ 73.733 Normal license period.

All international broadcast station licenses will be issued so as to expire at the hour of 3 a.m. local time and will be issued for a normal period of 8 years expiring November 1.

[62 FR 5347, Feb. 5, 1997]

§ 73.751 Operating power .

No international broadcasting station will be authorized to install, or be licensed for operation of, transmitter equipment with a rated carrier power of less than 50 kilowatts.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[38 FR 18895, July 16, 1973, as amended at 44 FR 65765, Nov. 15, 1979]

§ 73.753 Antenna systems.

All international broadcasting stations shall operate with directional antennas. Such antennas shall be designed and operated so that the radiated power in the maximum lobe toward the specific zone or area of reception intended to be served shall be at least 10 times the average power from the antenna in the horizontal plane. Radiation in all other directions shall be suppressed to the maximum extent technically feasible. In order to eliminate or mitigate harmful interference, the direction of the maximum lobe may be adjusted upon approval of the Commission.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[38 FR 18895, July 16, 1973, as amended at 44 FR 65765, Nov. 15, 1979]

§ 73.754 Frequency monitors.

(a) The licensee of each international broadcast station shall operate a frequency monitor at the transmitter independent of the frequency control of the transmitter.

(b) The frequency monitor shall be designed and constructed in accordance with good engineering practice. It shall have an accuracy sufficient to determine that the operating frequency is within one-half of the allowed tolerance.

[37 FR 25842, Dec. 5, 1972]

§ 73.755 Modulation monitors.

The licensee of each international broadcast station shall have a modulation monitor in operation at the transmitter.

[37 FR 25842, Dec. 5, 1972]

§ 73.756 Transmission system requirements.

(a) *Design*. The construction, installation, operation, and performance of the international broadcasting transmitter system shall be in accordance with good engineering practice.

(b) *Spurious emission*. (1) Any emission appearing on a frequency removed from the carrier frequency by between 6.4 kHz and 10 kHz, inclusive, shall be attenuated at least 25 dB below the level of the unmodulated carrier. Compliance with the specification will be deemed to show the occupied bandwidth to be 10 kHz or less.

(2) Any emission appearing on a frequency removed from the carrier frequency by more than 10 kHz and up to and including 25 kHz shall be attenuated at least 35 dB below the level of the unmodulated carrier.

(3) Any emission appearing on a frequency removed from the carrier frequency by more than 25 kHz shall be attenuated at least 80 dB below the level of the unmodulated carrier.

(4) In the event spurious emissions cause harmful interference to other stations or services, such additional steps as may be necessary to eliminate the interference must be taken immediately by the licensee.

(c) *Frequency control.* The transmitter shall be equipped with automatic frequency control apparatus so designed and constructed that it is capable of maintaining the operating frequency within 0.0015 percent of the assigned frequency.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[38 FR 18895, July 16, 1973, as amended at 44 FR 65765, Nov. 15, 1979]

§ 73.757 Auxiliary transmitters.

Upon showing that a need exists for the use of auxiliary transmitters, a license may be issued provided that:

(a) Auxiliary transmitters may be installed either at the same location as the main transmitters or at another location.

(b) [Reserved]

(c) The auxiliary transmitters shall be maintained so that they may be put into immediate operation at any time for the following purposes:

(1) The transmission of the regular programs upon the failure of the main transmitters.

(2) The transmission of regular programs during maintenance or modification work on the main transmitter, necessitating discontinuance of its operation for a period not to exceed 5 days. (This includes the equipment changes which may be made without authority as set forth elsewhere in the rules and regulations or as authorized by the Commission by letter or by construction permit. Where such operation is required for periods in excess of 5 days, request therefor shall be in accordance with § 73.3542 of this chapter.)

(3) Upon request by a duly authorized representative of the Commission.

(d) The auxiliary transmitters shall be tested at least once each week to determine that they are in proper operating condition and that they are adjusted to the proper frequency except that in the case of operation in accordance with paragraph (c) of this section during any week, the test in that week may be omitted provided the operation under paragraph (c) of this section is satisfactory. A record shall be kept of the time and result of each test. Such records shall be retained for a period of two years.

(e) The auxiliary transmitters shall be equipped with satisfactory control equipment which will enable the maintenance of the frequency emitted by the station within the limits prescribed by the regulations in this part.

(f) The operating power of an auxiliary transmitter may be less but not greater than the authorized power of the main transmitters.

[28 FR 13696, Dec. 14, 1963, as amended at 37 FR 25843, Dec. 5, 1972; 60 FR 55480, Nov. 1, 1995]

§ 73.758 Alternate main transmitters.

The licensee of an international broadcast station may be licensed for alternate main transmitters provided that a technical need for such alternate transmitters is shown and that the following conditions are met: Both transmitters:

(a) Are located at the same place;

(b) Shall have the same power rating; and

(c) Shall meet the construction, installation, operation, and performance requirements of good engineering practice.

[37 FR 25843, Dec. 5, 1972]

§ 73.759 Modification of transmission systems.

Specific authority, upon filing formal application (FCC Form 309) therefor, is required for any of the following changes:

(a) Change involving an increase or decrease in the power rating of the transmitters.

(b) A replacement of the transmitters as a whole.

(c) Change in the location of the transmitting antenna.

(d) Change in location of main studio, if it is proposed to move the main studio to a different city from that specified in the license.

(e) Change in the power delivered to the antenna.

(f) Change in frequency control and/or modulation system.

(g) Change in direction or gain of antenna system.

Other changes, not specified above in this section, may be made at any time without the authority of the Commission: *Provided*, That the Commission shall be immediately notified thereof and such changes shall be shown in the next application for renewal of license.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[38 FR 18895, July 16, 1973, as amended at 44 FR 65765, Nov. 15, 1979]

§ 73.761 Time of operation.

(a) All international broadcasting stations shall operate in accordance with the times indicated on their seasonal schedules.

(b) In the event that causes beyond a licensee's control make it impossible to adhere to the seasonal schedule or to continue operating, the station may limit or discontinue operation for a period of not more than 10 days, without further authority from the FCC. However, in such cases, the FCC shall be immediately notified in writing of such limitation or discontinuance of operation and shall subsequently be notified when the station resumes regular operation.

(c) In the event that causes beyond a licensee's control make it impossible to adhere to the seasonal schedule or to continue operating for a temporary period of more than 10 days, the station may not limit or discontinue operation until it requests and receives specific authority to do so from the FCC. When the station subsequently resumes regular operation after such limited operation or discontinuance of operation, it shall notify the FCC in Washington, DC. The license of a broadcasting station that fails to transmit broadcast signals for any consecutive 12-month period expires as a matter of law at the end of that period, notwithstanding any provision, term, or condition of the license to the contrary.

[38 FR 18895, July 16, 1973, as amended at 47 FR 40174, Sept. 13, 1982; 61 FR 28767, June 6, 1996]

§ 73.765 Determining operating power.

The operating power specified in § 73.751 shall be determined by use of a calibrated dummy load or by any other method specified by the licensee and accepted by the Commission. Such method may subsequently be used by the licensee to maintain the authorized operating power.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[38 FR 18895, July 16, 1973, as amended at 44 FR 65765, Nov. 15, 1979]

§ 73.766 Modulation and bandwidth.

The percentage of modulation shall be maintained as high as possible consistent with good quality of transmission and good broadcast practice. In no case shall it exceed 100 percent on positive or negative peaks of frequent recurrence. It should not be less than 85 percent on peaks of frequent recurrence. The range of modulation frequencies shall be so controlled that the authorized bandwidth of the emission shall not be exceeded under all conditions of modulation. The highest modulating frequency shall not exceed 5 kHz.

[38 FR 18896, July 16, 1973]

§ 73.781 Logs.

The licensee or permittee of each international broadcast station must maintain the station log in the following manner:

(a) In the program log:

(1) An entry of the time each station identification announcement (call letters and location) is made.

(2) An entry briefly describing each program broadcast, such as ''music'', ''drama'', ''speech'', etc., together with the name or title thereof, language, and the sponsor's name, with the time of the beginning and ending of the complete program.

(3) For each program of network origin, an entry showing the name of the network originating the program.

[28 FR 13696, Dec. 14, 1963, as amended at 37 FR 25843, Dec. 5, 1972; 48 FR 38480, Aug. 24, 1983]

§ 73.782 Retention of logs.

Logs of international broadcast stations shall be retained by the licensee or permittee for a period of two years: *Provided, however,* That logs involving communications incident to a disaster or which include communications incident to or involved in an investigation by the Commission and concerning which the licensee or permittee has been notified, shall be retained by the licensee or permittee until he is specifically authorized in writing by the Commission to destroy them: *Provided, further,* That logs incident to or involved in any claim or complaint of which the licensee or permittee has notice shall be retained by the licensee or permittee until such claim or complaint has been fully satisfied or until the same has been barred by statute limiting the time for the filing of suits upon such claims.

[28 FR 13696, Dec. 14, 1963]

§ 73.787 Station identification.

(a) A licensee of an international broadcast station shall make station identification announcement (call letters and location), at the beginning and ending of each time of operation and during the operation on the hour.

(b) Station identification, program announcements, and oral continuity shall be made with international significance (language particularly) which is designed for the foreign country or countries for which the service is primarily intended.

[28 FR 13696, Dec. 14, 1963, as amended at 34 FR 19762, Dec. 17, 1969; 38 FR 18896, July 16, 1973]

§ 73.788 Service; commercial or sponsored programs.

(a) A licensee of an international broadcast station shall render only an international broadcast service which will reflect the culture of this country and which will promote international goodwill, understanding, and cooperation. Any program solely intended for and directed to an audience in the continental United States does not meet the requirements for this service.

(b) Such international broadcast service may include commercial or sponsored programs: *Provided,* That:

(1) Commercial program continuities give no more than the name of the sponsor of the program and the name and general character of the commodity, utility or service, or attraction advertised.

(2) In case of advertising a commodity, the commodity is regularly sold or is being promoted for sale on the open market in the foreign country or countries to which the program is directed in accordance with paragraph (c) of this section.

(3) In case of advertising an American utility or service to prospective tourists or visitors to the United States, the advertisement continuity is particularly directed to such persons in the foreign country or countries where they reside and to which the program is directed in accordance with paragraph (c) of this section.

(4) In case of advertising an international attraction (such as a world fair, resort, spa, etc.) to prospective tourists or visitors to the United States, the oral continuity concerning such attraction is consistent with the purpose and intent of this section.

(5) In case of any other type of advertising, such advertising is directed to the foreign country or countries to which the program is directed and is consistent with the purpose and intent of this section.

(c) The geographic areas to be served by international broadcasting stations are the zones and areas of reception shown in § 73.703.

(d) An international broadcast station may transmit the program of a AM broadcast station or network system: *Provided,* That the conditions in paragraph (b) of this section as to any commercial continuities are observed and when station identifications are made, only the call letter designation of the international station is given and its assigned frequency: *And provided further,* That in the case of chain broadcasting the program is not carried simultaneously by another international station (except another station owned by the same licensee operated on a frequency in a different group to obtain continuity of signal service), the signals from which are directed to the same area. (See section 3(p) of the

Communications Act of 1934 for the definition of ''chain broadcasting.'')

[28 FR 13696, Dec. 14, 1963, as amended at 37 FR 25843, Dec. 5, 1972; 38 FR 18896, July 16, 1973]

Subpart G—Emergency Broadcast System

AUTHORITY: Secs. 1, 4 (i) and (o), and 303 (r), Communications Act of 1934, as amended.

§ 73.900 Cross references.

The Emergency Broadcast System (EBS) rules have been renamed the Emergency Alert System (EAS) and revised. The new EAS rules are contained in a new Part 11. Equipment type accepted for EBS use under the old Subpart G rules may continue to be used at broadcast stations until January 1, 1998, provided that it meets all applicable requirements of Part 11 of this chapter.

Old section	New section
73.901	11.1
73.902	11.1
73.903	11.11
73.904	Removed
73.905	11.13
73.906	11.12
73.907	11.13
73.908	11.15
73.909	11.16
73.910	11.17
73.912	11.43
73.913	11.18
73.914	11.19
73.915	11.19
73.916	11.19
73.917	11.19
73.918	11.19
73.919	11.20
73.920	11.21(b)
73.921	11.21
73.922	11.44
73.926	11.41
73.927	11.42
73.931	11.14, 11.53
73.932	11.35, 11.51, 11.52
73.933	11.54
73.935	11.55
73.936	11.55
73.937	11.55
73.940	11.32
73.941	11.33
73.942	11.34
73.943	11.34
73.961	11.61
73.962	11.62

[59 FR 67102, Dec. 28, 1994, as amended at 60 FR 56000, Nov. 6, 1995]

Subpart H—Rules Applicable to All Broadcast Stations

§ 73.1001 Scope.

(a) The rules in this subpart are common to all AM, FM, and TV broadcast services, commercial and noncommercial.

(b) Rules in part 73 applying exclusively to a particular broadcast service are contained in the following: AM, subpart A; FM, subpart B; Noncommercial Educational FM, subpart C; and TV, subpart E.

(c) Certain provisions of this subpart apply to International Broadcast Stations (subpart F, part 73), Low Power TV, TV Translator and TV Booster Stations (subpart G, part 74) where the rules for those services so provide.

(d) The provisions of this part applying to licensees also apply to holders of construction permits (permittees).

[43 FR 32781, July 28, 1978, as amended at 52 FR 31399, Aug. 20, 1987]

§ 73.1010 Cross reference to rules in other parts.

Certain rules applicable to broadcast services, some of which are also applicable to other services, are set forth in the following Parts of the FCC Rules and Regulations.

(a) Part 1, ''Practice and Procedure.''

(1) Subpart A, ''General Rules of Practice and Procedure''. (§§ 1.1 to 1.120).

(2) Subpart B, ''Hearing Proceedings''. (§§ 1.201 to 1.364)

(3) Subpart C, ''Rulemaking Proceedings''. (§§ 1.399 to 1.430).

(4) Subpart G, ''Schedule of Statutory Charges and Procedures for Payment''. (§§ 1.1101 to 1.1117.)

(5) Subpart H, ''Ex Parte Communications''. (§§1.1200 to 1.1216).

(6) Subpart I, ''Procedures Implementing the National Environmental Policy Act of 1969''. (§§ 1.1301 to 1.1319).

(7) Subpart P, ''Implementation of the Anti-Drug Abuse Act of 1988''. (§§ 1.2001–1.2003.)

(b) Part 2, ''Frequency Allocations and Radio Treaty Matters, General Rules and Regulations'', including Subparts A, ''Terminology''; B, ''Allocation, Assignments and Use of Radio Frequencies''; C, ''Emissions''; D, ''Call Signs and Other Forms of Identifying

Radio Transmissions''; and J, ''Equipment Authorization Procedures''.

(c) [Reserved]

(d) Part 17, ''Construction, Marking and Lighting of Antenna Structures''.

(e) Part 74, ''Experimental, Auxiliary and Special Broadcast and Other Program Distributional Services'' including:

(1) Subpart A, ''Experimental Broadcast Stations'';

(2) Subpart D, ''Remote Pickup Broadcast Stations'';

(3) Subpart E, ''Aural Broadcast Auxiliary Stations'';

(4) Subpart F, ''Television Broadcast Auxiliary Stations'';

(5) Subpart G, ''Low Power TV, TV Translator and TV Booster Stations'';

(6) Subpart H, ''Low Power Auxiliary Stations'';

(7) Subpart I, ''Instructional TV Fixed Service''; and

(8) Subpart L, ''FM Broadcast Translator Stations and FM Broadcast Booster Stations''.

[53 FR 2498, Jan. 28, 1988, as amended at 57 FR 48333, Oct. 23, 1992; 60 FR 55480, Nov. 1, 1995]

§ 73.1015 Truthful written statements and responses to Commission inquiries and correspondence.

The Commission or its representatives may, in writing, require from any applicant, permittee, or licensee written statements of fact relevant to a determination whether an application should be granted or denied, or to a determination whether a license should be revoked, or to any other matter within the jurisdiction of the Commission, or, in the case of a proceeding to amend the FM or Television Table of Allotments, require from any person filing an expression of interest, written statements of fact relevant to that allotment proceeding. No applicant, permittee, licensee, or person who files an expression of interest shall in any response to Commission correspondence or inquiry or in any application, pleading, report or any other written statement submitted to the Commission, make any misrepresentation or willful material omission bearing on any matter within the jurisdiction of the Commission.

NOTE: Section 73.1015 is limited in application to written matter. It implies no change in the Commissions existing policies respecting the obligation of applicants, permittees and licensees in all instances to respond truthfully to requests for information deemed necessary to the proper execution of the Commission's functions.

[51 FR 3069, Jan. 23, 1986, as amended at 55 FR 28914, July 16, 1990]

§ 73.1020 Station license period.

(a) Initial licenses for broadcast stations will ordinarily be issued for a period running until the date specified in this section for the State or Territory in which the station is located. If issued after such date, it will run to the next renewal date determined in accordance with this section. Both radio and TV broadcasting stations will ordinarily be renewed for 8 years. However, if the FCC finds that the public interest, convenience and necessity will be served thereby, it may issue either an initial license or a renewal thereof for a lesser term. The time of expiration of normally issued initial and renewal licenses will be 3 a.m., local time, on the following dates and thereafter at 8-year intervals for radio and TV broadcast stations located in:

(1) Maryland, District of Columbia, Virginia and West Virginia:

(i) Radio stations, October 1, 1995.

(ii) Television stations, October 1, 1996.

(2) North Carolina and South Carolina:

(i) Radio stations, December 1, 1995.

(ii) Television stations, December 1, 1996.

(3) Florida, Puerto Rico and the Virgin Islands:

(i) Radio stations, February 1, 1996.

(ii) Television stations, February 1, 1997.

(4) Alabama and Georgia:

(i) Radio stations, April 1, 1996.

(ii) Television stations, April 1, 1997.

(5) Arkansas, Louisiana and Mississippi:

(i) Radio stations, June 1, 1996.

(ii) Television stations, June 1, 1997.

(6) Tennessee, Kentucky and Indiana:

(i) Radio stations, August 1, 1996.

(ii) Television stations, August 1, 1997.

(7) Ohio and Michigan:

(i) Radio stations, October 1, 1996.

(ii) Television stations, October 1, 1997.

(8) Illinois and Wisconsin:

(i) Radio stations, December 1, 1996.

(ii) Television stations, December 1, 1997.

(9) Iowa and Missouri:

(i) Radio stations, February 1, 1997.

(ii) Television stations, February 1, 1998.

(10) Minnesota, North Dakota, South Dakota, Montana and Colorado:

(i) Radio stations, April 1, 1997.

(ii) Television stations, April 1, 1998.

(11) Kansas, Oklahoma and Nebraska:

(i) Radio stations, June 1, 1997.

(ii) Television stations, June 1, 1998.

(12) Texas:

(i) Radio stations, August 1, 1997.

(ii) Television stations, August 1, 1998.

(13) Wyoming, Nevada, Arizona, Utah, New Mexico and Idaho:

(i) Radio stations, October 1, 1997.

(ii) Television stations, October 1, 1998.

(14) California:

(i) Radio stations, December 1, 1997.

(ii) Television stations, December 1, 1998.

(15) Alaska, American Samoa, Guam, Hawaii, Mariana Islands, Oregon and Washington:

(i) Radio stations, February 1, 1998.

(ii) Television stations, February 1, 1999.

(16) Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island and Vermont:

(i) Radio stations, April 1, 1998.

(ii) Television stations, April 1, 1999.

(17) New Jersey and New York:

(i) Radio stations, June 1, 1998.

(ii) Television stations, June 1, 1999.

(18) Delaware and Pennsylvania:

(i) Radio stations, August 1, 1998.

(ii) Television stations, August 1, 1999.

(b) For the cutoff date for the filing of applications mutually exclusive with renewal applications that are filed on or before May 1, 1995 and for the deadline for filing petitions to deny renewal applications, see § 73.3516(e).

(c) The license of a broadcasting station that fails to transmit broadcast signals for any consecutive 12-month period expires as a matter of law at the end of that period, notwithstanding any provision, term, or condition of the license to the contrary.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[49 FR 4382, Feb. 6, 1984, as amended at 52 FR 25604, July 8, 1987; 59 FR 63051, Dec. 7, 1994; 61 FR 18291, Apr. 25, 1996; 61 FR 28767, June 6, 1996; 62 FR 5347, Feb. 5, 1997]

§ 73.1030 Notifications concerning interference to radio astronomy, research and receiving installations.

(a) *Radio astronomy and radio research installations.* In order to minimize harmful interference at the National Radio Astronomy Observatory site located at Green, Pocahontas County, West Virginia, and at the Naval Radio Research Observatory at Sugar Grove, Pendleton County, West Virginia, a licensee proposing to operate a short-term broadcast auxiliary station pursuant to § 74.24, or an applicant for authority to construct a new broadcast station or for authority to make changes in the frequency, power, antenna height, or antenna directivity of an existing station within the area bounded by 39°15′ N on the north, 78°30′ W on the east, 37°30′ N on the south, and 80°30′ W on the west shall, at the time of filing such application with the FCC, simultaneously notify the following:

Interference Office, National Radio Astronomy Observatory, P.O. Box 2, Green Bank, West Virginia 24944, Telephone: 304–456–2011.

The notification shall be in writing and set forth the particulars of the proposed station, including the geographical coordinates of the antenna, antenna height, antenna directivity if any, proposed frequency, type of emission and power. In addition, the applicant shall indicate in his application to the FCC the date notification was made to the observatory. After receipt of such applications, the FCC will allow a period of 20 days for comments or objections in response to the notifications indicated. If an objection to the proposed operation is received during the 20-day period from the National Radio Astronomy Observatory for itself or on behalf of the Naval Radio Research Observatory, the FCC will consider all aspects of the problem and

take whatever action is deemed appropriate.

(b) *Radio receiving installations.* Protection for Table Mountain Radio Receiving Zone, Boulder County, Colorado: Applicants for a station authorization to operate in the vicinity of Boulder County, Colorado under this Part are advised to give due consideration, prior to filing applications, to the need to protect the Table Mountain Radio Receiving Zone from harmful interference. These are the research laboratories of the Department of Commerce, Boulder County, Colorado. To prevent degradation of the present ambient radio signal level at the site, the Department of Commerce seeks to ensure that the field strengths of any radiated signals (excluding reflected signals) received on this 1800 acre site (within the area bounded by 40°09′10″ N Latitude on the north, 105°13′31″ W Longitude on the east, 40°07′05″ N Latitude on the south, and 105°15′13″ W Longitude on the west) resulting from new assignments (other than mobile stations) or from the modification of relocation of existing facilities do not exceed the following values:

Frequency range	Field strength in authorized bandwidth of service (mV/m)	Power flux density in authorized bandwidth of service (dBW/m²) [1]
Below 540 kHz	10	−65.8
540 to 1700 kHz	20	−59.8
1.7 to 470 MHz	10	[2] −65.8
470 to 890 MHz	30	[2] −56.2
Above 890 MHz	1	[2] −85.8

[1] Equivalent values of power flux density are calculated assuming free space characteristic impedance of 376.7=120 ohms.

[2] Space stations shall conform to the power flux density limits at the earth's surface specified in appropriate parts of the FCC rules, but in no case should exceed the above levels in any 4 kHz band for all angles of arrival.

(1) Advance consultation is recommended particularly for those applicants who have no reliable data which indicates whether the field strength or power flux density figures in the above table would be exceeded by their proposed radio facilities (except mobile stations). In such instances, the following is a suggested guide for determining whether coordination is recommended:

(i) All stations within 2.4 km (1.5 statute miles);

(ii) Stations within 4.8 km (3 statute miles) with 50 watts or more effective radiated power (ERP) in the primary plane polarization in the azimuthal direction of the Table Mountain Radio Receiving Zone;

(iii) Stations within 16 km (10 statute miles) with 1 kW or more ERP in the primary plane of polarization in the azimuthal direction of Table Mountain Receiving Zone;

(iv) Stations within 80 km (50 statute miles) with 25 kW or more ERP in the primary plane polarization in the azimuthal direction of Table Mountain Receiving Zone.

(2) Applicants concerned are urged to communicate with the Radio Frequency Management Coordinator, Department of Commerce, Research Support Services, NOAA R/E5X2, Boulder Laboratories, Boulder, CO 80303; telephone (303) 497–6548, in advance of filing their applications with the Commission.

(3) The Commission will not screen applications to determine whether advance consultation has taken place. However, applicants are advised that such consultation can avoid objectimns from the Department of Commerce or proceedings to modify any authorization which may be granted which, in fact, delivers a signal at the site in excess of the field strength specified herein.

(c) *Protection for Federal Communications Commission monitoring stations.* (1) Applicants in the vicinity of a FCC monitoring station for a radio station authorization to operate new transmitting facilities or changed transmitting facilities which would increase the field strength produced over the monitoring station in excess of that previously authorized are advised to give consideration, prior to filing applications, to the possible need to protect the FCC stations from harmful interference. Geographical coordinates of the facilities which require protection are listed in §0.121(c) of the FCC rules. Applications for stations (except mobile stations) which will produce on any frequency a direct wave fundamental field strength of *greater than 10 mV/m* in the authorized bandwidth of service (−65.8 dBW/m² power flux density assuming a free space characteristic

impedance of 120 π ohms) at the referenced coordinates, may be examined to determine extent of possible interference. Depending on the theoretical field strength value and existing root-sum-square or other ambient radio field signal levels at the indicated coordinates, a clause protecting the monitoring station may be added to the station authorization.

(2) In the event that calculated value of expected field exceeds 10 mV/m (-65.8 dBW/m^2) at the reference coordinates, or if there is any question whether field strength levels might exceed the threshold value, advance consultation with the FCC to discuss any protection necessary should be considered. Prospective applicants may communicate with: Chief, Compliance and Information Bureau, Federal Communications Commission, Washington, DC 20554, Telephone (202) 632–6980.

(3) Advance consultation is suggested particularly for those applicants who have no reliable data which indicates whether the field strength or power flux density figure indicated would be exceeded by their proposed radio facilities (except mobile stations). In such instances, the following is a suggested guide for determining whether an applicant should coordinate:

(i) All stations within 2.4 kilometers (1.5 statute miles);

(ii) Stations within 4.8 kilometers (3 statute miles) with 50 watts or more average effective radiated power (ERP) in the primary plane of polarization in the azimuthal direction of the Monitoring Stations.

(iii) Stations within 16 kilometers (10 statute miles) with 1 kW or more average ERP in the primary plane of polarization in the azimuthal direction of the Monitoring Station;

(iv) Stations within 80 kilometers (50 statute miles) with 25 kW or more average ERP in the primary plane of polarization in the azimuthal direction of the Monitoring Station;

(4) Advance coordination for stations operating above 1000 MHz is recommended only where the proposed station is in the vicinity of a monitoring station designated as a satellite monitoring facility in §0.121(c) of the Commission's Rules and also meets the criteria outlined in paragraphs (b) (2) and (3) of this section.

(5) The Commission will not screen applications to determine whether advance consultation has taken place. However, applicants are advised that such consultation can avoid objections from the Federal Communications Commission or modification of any authorization which will cause harmful interference.

[43 FR 32782, July 28, 1978, as amended at 44 FR 77167, Dec. 31, 1979; 47 FR 9221, Mar. 4, 1982; 50 FR 39003, Sept. 26, 1985; 52 FR 25867, July 9, 1987; 52 FR 36879, Oct. 1, 1987; 52 FR 37789, Oct. 9, 1987; 56 FR 64872, Dec. 12, 1991; 61 FR 8477, Mar. 5, 1996]

§ 73.1120 Station location.

(a) Each AM, FM and TV broadcast station will be licensed to the principal community or other political subdivision which it primarily serves. This principal community (city, town or other political subdivision) will be considered to be the geographical station location.

[44 FR 69934, Dec. 5, 1979, as amended at 52 FR 21685, June 9, 1987]

§ 73.1125 Station main studio location.

(a) Each AM, FM and TV broadcast station shall maintain a main studio within the station's principal community contour as defined in §73.24(i) (5 mV/m daytime contour), §73.315(a) and §73.685(a), respectively, of this chapter, except

(1) AM stations licensed as synchronous amplifier transmitters (''AM boosters'') or,

(2) An FM station whose main studio is located at the collocated main studio-transmitter site of a commonly-owned AM station licensed to the same principal community or,

(3) Any AM, FM or TV broadcast station whose main studio is located in the community to which the station is licensed to serve at a point situated outside the principal community contour or,

(4) AM, FM or TV stations, when good cause exists for locating the main studio outside the station's principal community contour and that to do so would be consistent with the operation of the station in the public interest.

(b) Relocation of the main studio may be made:

(1) From one point to another within the principal community contour or from a point outside the principal community contour to one within it, without specific FCC authority, but notification to the FCC in Washington shall be made promptly; however,

(2) Written authority to locate a main studio outside a station's principal community contour for the first time must be obtained from the Audio Services Division, Mass Media Bureau for AM and FM stations, or the Television Branch, Video Services Division, Mass Media Bureau for television stations before the studio may be moved to that location. Where the main studio is already authorized at a location outside the station's principal community contour, and the licensee or permittee desires to specify a new location also located outside the station's principal community contour, written authority must also be received from the Commission prior to the relocation of the main studio. Authority for these changes may be requested by filing a letter with an explanation of the proposed changes with the appropriate division. Licensees or permittees should be aware that the filing of a letter request for written authority to locate the main studio outside the principal community contour does not imply approval of the relocation request, because each request is addressed on a case-by-case basis. A filing fee is required for commercial AM, FM, or TV licensees or permittees filing a letter request under this section (*see* § 1.1104).

(3) Exceptions to paragraph (b)(2) of this section are:

(i) Relocation of the main studio of an FM station to the collocated main studio-transmitter site of a commonly-owned AM station licensed to the same principal community; and,

(ii) Relocation of the main studio from one point to another within the principal community of license or from a point outside the principal community to one within it.

(iii) Notification to the FCC in Washington shall be made promptly of such relocations described in paragraphs (b)(3) (i) and (ii) of this section.

(c) Each AM, FM and TV broadcast station shall maintain a local telephone number in its community of license or a toll-free number.

(d) Where the principal community to be served does not have specifically defined political boundaries, applications will be considered on a case-by-case basis by the FCC to determine if the main studio is located within the principal community to be served.

NOTE: AM stations that simulcast on a frequency in the 535–1605 kHz band and on a frequency in the 1605–1705 kHz band need only have the studio be located within the 5 mV/m contour of the lower band operation during the term of the simultaneous operating authority. Upon termination of the 535–1605 kHz band portion of the dual frequency operation, the above rule shall then become applicable to the remaining operation in the 1605–1705 kHz band.

[52 FR 21685, June 9, 1987, as amended at 56 FR 64872, Dec. 12, 1991; 57 FR 48333, Oct. 23, 1992; 62 FR 51059, Sept. 30, 1997]

EFFECTIVE DATE NOTE: At 62 FR 51059, Sept. 30, 1997, § 73.1125 was amended by revising paragraph (b)(2), effective Dec. 1, 1997. For the convenience of the user, the superseded text is set forth as follows:

§ 73.1125 Station main studio location.

* * * * *

(b) * * *

(2) From a point within the principal community contour to one outside it or from one such point outside the community contour to another, only by first securing modification of construction permit or license (FCC Forms 301 for commercial stations and 340 for noncommercial educational stations.)

* * * * *

§ 73.1150 Transferring a station.

(a) In transferring a broadcast station, the licensee may retain no right of reversion of the license, no right to reassignment of the license in the future, and may not reserve the right to use the facilities of the station for any period whatsoever.

(b) No license, renewal of license, assignment of license or transfer of control of a corporate licensee will be granted or authorized if there is a contract, arrangement or understanding, express or implied, pursuant to which,

as consideration or partial consideration for the assignment or transfer, such rights, as stated in paragraph (a) of this section, are retained.

(c) Licensees and/or permittees authorized to operate in the 535–1605 kHz and in the 1605–1705 kHz band pursuant to the Report and Order in MM Docket No. 87–267 will not be permitted to assign or transfer control of the license or permit for a single frequency during the period that joint operation is authorized.

[44 FR 58720, Oct. 11, 1979, as amended at 56 FR 64872, Dec. 12, 1991]

§ 73.1201 Station identification.

(a) *When regularly required.* Broadcast station identification announcements shall be made: (1) At the beginning and ending of each time of operation, and (2) hourly, as close to the hour as feasible, at a natural break in program offerings. Television broadcast stations may make these announcements visually or aurally.

(b) *Content.* (1) Official station identification shall consist of the station's call letters immediately followed by the community or communities specified in its license as the station's location: *Provided,* That the name of the licensee or the station's frequency or channel number, or both, as stated on the station's license may be inserted between the call letters and station location. No other insertion is permissible.

(2) A station may include in its official station identification the name of any additional community or communities, but the community to which the station is licensed must be named first.

(c) *Channel*—(1) *General.* Except as otherwise provided in this paragraph, in making the identification announcement the call letters shall be given only on the channel identified thereby.

(2) *Simultaneous AM (535–1605 kHz) and AM (1605–1705 kHz broadcasts.* If the same licensee operates an AM broadcast station in the 535–1605 kHz band and an AM broadcast station in the 1605–1705 kHz band with both stations licensed to the same community and simultaneously broadcasts the same programs over the facilities of both such stations, station identification announcements may be made jointly for both stations for periods of such simultaneous operations.

(3) *Satellite operation.* When programming of a broadcast station is rebroadcast simultaneously over the facilities of a satellite station, the originating station may make identification announcements for the satellite station for periods of such simultaneous operation.

(i) In the case of a television broadcast station, such announcements, in addition to the information required by paragraph (b)(1) of this section, shall include the number of the channel on which each station is operating.

(ii) In the case of aural broadcast stations, such announcements, in addition to the information required by paragraph (b)(1) of this section, shall include the frequency on which each station is operating.

(d) *Subscription television stations (STV).* The requirements for official station identification applicable to TV stations will apply to Subscription TV stations except, during STV-encoded programming such station identification is not required. However, a station identification announcement will be made immediately prior to and following the encoded Subscription TV program period.

[34 FR 19762, Dec. 17, 1969, as amended at 37 FR 23726, Nov. 8, 1972; 39 FR 6707, Feb. 22, 1974; 39 FR 9442, Mar. 11, 1974; 41 FR 29394, July 16, 1976; 47 FR 3791, Jan. 27, 1982; 48 FR 51308, Nov. 8, 1983; 56 FR 64872, Dec. 12, 1991]

§ 73.1202 Retention of letters received from the public.

(a) All written comments and suggestions received from the public by licensees of commercial AM, FM, and TV broadcast stations regarding operation of their station shall be maintained in the local public inspection file, unless the letter writer has requested that the letter not be made public or when the licensee feels that it should be excluded from public inspection because of the nature of its content, such as a defamatory or obscene letter.

(1) Letters shall be retained in the local public inspection file for three years from the date on which they are received by the licensee.

(2) Letters received by TV licensees only shall be placed in one of the following separated subject categories: programming or non-programming. If comments in a letter relate to both categories, the licensee shall file it under the category to which the writer has given the greater attention.

[44 FR 38846, July 3, 1979, as amended at 46 FR 26247, May 11, 1981; 52 FR 25867, July 9, 1987]

§ 73.1206 Broadcast of telephone conversations.

Before recording a telephone conversation for broadcast, or broadcasting such a conversation simultaneously with its occurrence, a licensee shall inform any party to the call of the licensee's intention to broadcast the conversation, except where such party is aware, or may be presumed to be aware from the circumstances of the conversation, that it is being or likely will be broadcast. Such awareness is presumed to exist only when the other party to the call is associated with the station (such as as employee or part-time reporter), or where the other party originates the call and it is obvious that it is in connection with a program in which the station customarily broadcasts telephone conversations.

[35 FR 7733, May 20, 1970]

§ 73.1207 Rebroadcasts.

(a) The term *rebroadcast* means reception by radio of the programs or other transmissions of a broadcast or any other type of radio station, and the simultaneous or subsequent retransmission of such programs or transmissions by a broadcast station.

(1) As used in this section, ''program'' includes any complete programs or part thereof.

(2) The transmission of a program from its point of origin to a broadcast station entirely by common carrier facilities, whether by wire line or radio, is not considered a rebroadcast.

(3) The broadcasting of a program relayed by a remote pickup broadcast station is not considered a rebroadcast.

(b) No broadcast station may retransmit the program, or any part thereof, of another U.S. broadcast station without the express authority of the originating station. A copy of the written consent of the licensee originating the program must be kept by the licensee of the station retransmitting such program and made available to the FCC upon request.

(1) Stations originating emergency communications under a State EAS plan are considered to have conferred rebroadcast authority to other participating stations.

(2) Permission must be obtained from the originating station to rebroadcast any subsidiary communications transmitted by means of a multiplex subcarrier or telecommunications service on the vertical blanking interval or in the visual signal of a television signal.

(3) Programs originated by the Voice of America (VOA) and the Armed Forces Radio and Television Services (AFRTS) cannot, in general, be cleared for domestic rebroadcast, and may therefore be retransmitted only by special arrangements among the parties concerned.

(4) Except as otherwise provided by international agreement, programs originated by foreign broadcast stations may be retransmitted without the consent of the originating station.

(c) The transmissions of non-broadcast stations may be rebroadcast under the following conditions:

(1) Messages originated by privately-owned non-broadcast stations other than those in the Amateur and Citizens Band (CB) Radio Services may be broadcast only upon receipt of prior permission from the non-broadcast licensee. Additionally, messages transmitted by common carrier stations may be rebroadcast only upon prior permission of the originator of the message as well as the station licensee.

(2) Except as provided in paragraph (d) of this section, messages originated entirely by non-broadcast stations owned and operated by the Federal Government may be rebroadcast only upon receipt of prior permission from the government agency originating the messages.

(3) Messages originated by stations in the amateur and Citizens Band (CB) radio services may be rebroadcast at the discretion of broadcast station licensees.

(4) Emergency communications originated under a State EAS plan.

(d) The rebroadcasting of time signals originated by the Naval Observatory and the National Bureau of Standards and messages from the National Weather Service stations is permitted without specific authorization under the following procedures:

(1) *Naval Observatory Time Signals.* (i) The time signals rebroadcast must be obtained by direct radio reception from a naval radio station, or by land line circuits.

(ii) Announcement of the time signal must be made without reference to any commercial activity.

(iii) Identification of the Naval Observatory as the source of the time signal must be made by an announcement, substantially as follows: ''With the signal, the time will be . . . courtesy of the U.S. Naval Observatory.''

(iv) Schedules of time signal broadcasts may be obtained upon request from the Superintendent, U.S. Naval Observatory, Washington, DC 20390.

(2) *National Bureau of Standards Time Signals.* (i) Time signals for rebroadcast must be obtained by direct radio reception from a National Bureau of Standards (NBS) station.

(ii) Use of receiving and rebroadcasting equipment must not delay the signals by more than 0.05 second.

(iii) Signals must be rebroadcast live, not from tape or other recording.

(iv) Voice or code announcements of the call signs of NBS stations are not to be rebroadcast.

(v) Identification of the origin of the service and the source of the signals must be made by an announcement substantially as follows: ''At the tone, 11 hours 25 minutes *Coordinated Universal Time.* This is a rebroadcast of a continous service furnished by the National Bureau of Standards, Ft. Collins, Colo.'' No commercial sponsorship of this announcement is permitted and none may be implied.

(vi) Schedules of time signal broadcasts may be obtained from, and notice of use of NBS time signals for rebroadcast must be forwarded semiannually to:

National Bureau of Standards, Radio Stations WWV/WWVB, 2000 East County Road 58, Ft. Collins, Colorado 80524.

(vii) In the rebroadcasting of NBS time signals, announcements will not state that they are standard frequency transmissions. Voice announcements of *Coordinated Universal Time* are given in voice every minute. Each minute, except the first of the hour, begins with an 0.8 second long tone of 1000 hertz at WWV and 1200 hertz tone at WWVH. The first minute of every hour begins with an 0.8 second long tone of 1500 hertz at both stations. This tone is followed by a 3-second pause, than the announcement, ''National Bureau of Standards Time.'' This is followed by another 3-second pause before station identification. This arrangement allows broadcast stations sufficient time to retransmit the hour time tone and the words ''National Bureau of Standards Time'' either by manual or automatic switching.

(viii) Time signals or scales made up from integration of standard frequency signals broadcast from NBS stations may not be designated as national standard scales of time or attributed to the NBS as originator. For example, if a broadcasting station transmits time signals obtained from a studio clock which is periodically calibrated against the NBS time signals from WWV or WWVH, such signals may not be announced as NBS standard time or as having been originated by the NBS.

(3) *National Weather Service Messages.* (i) Messages of the National Weather Service must be rebroadcast within 1 hour of receipt.

(ii) If advertisements are given in connection with weather rebroadcast, these advertisements must not directly or indirectly convey an endorsement by the U.S. Government of the products or services so advertised.

(iii) Credit must be given to indicate that the rebroadcast message originates with the National Weather Service.

[44 FR 36040, June 20, 1979, as amended at 45 FR 26065, Apr. 17, 1980; 48 FR 28456, June 22, 1983; 50 FR 25246, June 18, 1985; 59 FR 67102, Dec. 28, 1994; 61 FR 36305, July 10, 1996]

§ 73.1208 Broadcast of taped, filmed, or recorded material.

(a) Any taped, filmed or recorded program material in which time is of special significance, or by which an affirmative attempt is made to create the impression that it is occurring simultaneously with the broadcast, shall be announced at the beginning as taped, filmed or recorded. The language of the announcement shall be clear and in terms commonly understood by the public. For television stations, the announcement may be made visually or aurally.

(b) Taped, filmed, or recorded announcements which are of a commercial, promotional or public service nature need not be identified as taped, filmed or recorded.

[37 FR 23726, Nov. 8, 1972]

§ 73.1209 References to time.

Unless specifically designated as ''standard (non-advanced)'' or ''advanced,'' all references to time contained in this part, and in license documents and other authorizations issued thereunder shall be understood to mean local time; i.e., the time legally observed in the community.

[39 FR 26736, July 23, 1974]

§ 73.1210 TV/FM dual-language broadcasting in Puerto Rico.

(a) For the purpose of this section, dual-language broadcasting shall be understood to mean the telecasting of a program in one language with the simultaneous transmission, on the main channel of a participating FM broadcast station, of companion sound track information in a different language.

(b) Television broadcast licensees in Puerto Rico may enter into dual-language time purchase agreements with FM broadcast licensees, subject to the following conditions:

(1) All such agreements shall be reduced to writing and retained by the licensee for possible Commission inspection, in accordance with § 73.3613 of this chapter.

(2) All such agreements shall specify that the FM licensee will monitor sound track material with a view to rejecting any material deemed to be inappropriate or objectionable for broadcast exposure.

(3) No television or FM broadcast station may devote more than 15 hours per week to dual-language broadcasting, nor may more than three (3) hours of such programming be presented on any given day.

(4) Noncommercial educational television broadcast stations shall take all necessary precautions to assure that the entire operation is conducted on a noncommercial basis and otherwise in accordance with § 73.621 of this part.

[40 FR 17259, Apr. 18, 1975, as amended at 49 FR 33663, Aug. 24, 1984; 50 FR 40016, Oct. 1, 1985]

§ 73.1211 Broadcast of lottery information.

(a) No licensee of an AM, FM, or television broadcast station, except as in paragraph (c) of this section, shall broadcast any advertisement of or information concerning any lottery, gift enterprise, or similar scheme, offering prizes dependent in whole or in part upon lot or chance, or any list of the prizes drawn or awarded by means of any such lottery, gift enterprise or scheme, whether said list contains any part or all of such prizes. (18 U.S.C. 1304, 62 Stat. 763).

(b) The determination whether a particular program comes within the provisions of paragraph (a) of this section depends on the facts of each case. However, the Commission will in any event consider that a program comes within the provisions of paragraph (a) of this section if in connection with such program a prize consisting of money or other thing of value is awarded to any person whose selection is dependent in whole or in part upon lot or chance, if as a condition of winning or competing for such prize, such winner or winners are required to furnish any money or other thing of value or are required to have in their possession any product sold, manufactured, furnished or distributed by a sponsor of a program broadcast on the station in question. (See 21 FCC 2d 846).

(c) The provisions of paragraphs (a) and (b) of this section shall not apply to an advertisement, list of prizes or other information concerning:

(1) A lottery conducted by a State acting under the authority of State law which is broadcast by a radio or television station licensed to a location in that State or any other State which conducts such a lottery. (18 U.S.C. 1307(a); 102 Stat. 3205).

(2) Fishing contests exempted under 18 U.S. Code 1305 (not conducted for profit, *i.e.*, all receipts fully consumed in defraying the actual costs of operation).

(3) Any gaming conducted by an Indian Tribe pursuant to the Indian Gaming Regulatory Act (25 U.S.C. 2701 *et seq.*)

(4) A lottery, gift enterprise or similar scheme, other than one described in paragraph (c)(1) of this section, that is authorized or not otherwise prohibited by the State in which it is conducted and which is:

(i) Conducted by a not-for-profit organization or a governmental organization (18 U.S.C. 1307(a); 102 Stat. 3205); or

(ii) Conducted as a promotional activity by a commercial organization and is clearly occasional and ancillary to the primary business of that organization. (18 U.S.C. 1307(a); 102 Stat. 3205).

(d)(1) For purposes of paragraph (c) of this section, ''lottery'' means the pooling of proceeds derived from the sale of tickets or chances and allotting those proceeds or parts thereof by chance to one or more chance takers or ticket purchasers. It does not include the placing or accepting of bets or wagers on sporting events or contests.

(2) For purposes of paragraph (c)(4)(i) of this section, the term ''not-for-profit organization'' means any organization that would qualify as tax exempt under section 501 of the Internal Revenue Code of 1986.

[40 FR 6210, Feb. 10, 1975, as amended at 45 FR 6401, Jan. 28, 1980; 54 FR 20856, May 15, 1989; 55 FR 18888, May 7, 1990]

§ 73.1212 Sponsorship identification; list retention; related requirements.

(a) When a broadcast station transmits any matter for which money, service, or other valuable consideration is either directly or indirectly paid or promised to, or charged or accepted by such station, the station, at the time of the broadcast, shall announce:

(1) That such matter is sponsored, paid for, or furnished, either in whole or in part, and

(2) By whom or on whose behalf such consideration was supplied: *Provided, however,* That ''service or other valuable consideration'' shall not include any service or property furnished either without or at a nominal charge for use on, or in connection with, a broadcast unless it is so furnished in consideration for an identification of any person, product, service, trademark, or brand name beyond an identification reasonably related to the use of such service or property on the broadcast.

(i) For the purposes of this section, the term ''sponsored'' shall be deemed to have the same meaning as ''paid for.''

(ii) In the case of any television political advertisement concerning candidates for public office, the sponsor shall be identified with letters equal to or greater than four percent of the vertical picture height that air for not less than four seconds.

(b) The licensee of each broadcast station shall exercise reasonable diligence to obtain from its employees, and from other persons with whom it deals directly in connection with any matter for broadcast, information to enable such licensee to make the announcement required by this section.

(c) In any case where a report has been made to a broadcast station as required by section 507 of the Communications Act of 1934, as amended, of circumstances which would have required an announcement under this section had the consideration been received by such broadcast station, an appropriate announcement shall be made by such station.

(d) In the case of any political broadcast matter or any broadcast matter involving the discussion of a controversial issue of public importance for which any film, record, transcription, talent, script, or other material or service of any kind is furnished, either directly or indirectly, to a station as an inducement for broadcasting such matter, an announcement shall be made both at the beginning and conclusion of such broadcast on which such material or service is used that such film, record, transcription, talent,

script, or other material or service has been furnished to such station in connection with the transmission of such broadcast matter: *Provided, however,* That in the case of any broadcast of 5 minutes' duration or less, only one such announcement need be made either at the beginning or conclusion of the broadcast.

(e) The announcement required by this section shall, in addition to stating the fact that the broadcast matter was sponsored, paid for or furnished, fully and fairly disclose the true identity of the person or persons, or corporation, committee, association or other unincorporated group, or other entity by whom or on whose behalf such payment is made or promised, or from whom or on whose behalf such services or other valuable consideration is received, or by whom the material or services referred to in paragraph (d) of this section are furnished. Where an agent or other person or entity contracts or otherwise makes arrangements with a station on behalf of another, and such fact is known or by the exercise of reasonable diligence, as specified in paragraph (b) of this section, could be known to the station, the announcement shall disclose the identity of the person or persons or entity on whose behalf such agent is acting instead of the name of such agent. Where the material broadcast is political matter or matter involving the discussion of a controversial issue of public importance and a corporation, committee, association or other unincorporated group, or other entity is paying for or furnishing the broadcast matter, the station shall, in addition to making the announcement required by this section, require that a list of the chief executive officers or members of the executive committee or of the board of directors of the corporation, committee, association or other unincorporated group, or other entity shall be made available for public inspection at the location specified by the licensee under § 73.3526 of this chapter. If the broadcast is originated by a network, the list may, instead, be retained at the headquarters office of the network or at the location where the originating station maintains its public inspection file under § 73.3526 of this chapter. Such lists shall be kept and made available for a period of two years.

(f) In the case of broadcast matter advertising commercial products or services, an announcement stating the sponsor's corporate or trade name, or the name of the sponsor's product, when it is clear that the mention of the name of the product constitutes a sponsorship identification, shall be deemed sufficient for the purpose of this section and only one such announcement need be made at any time during the course of the broadcast.

(g) The announcement otherwise required by section 317 of the Communications Act of 1934, as amended, is waived with respect to the broadcast of ''want ad'' or classified advertisements sponsored by an individual. The waiver granted in this paragraph shall not extend to a classified advertisement or want ad sponsorship by any form of business enterprise, corporate or otherwise. Whenever sponsorship announcements are omitted pursuant to this paragraph, the licensee shall observe the following conditions:

(1) Maintain a list showing the name, address, and (where available) the telephone number of each advertiser;

(2) Make this list available to members of the public who have a legitimate interest in obtaining the information contained in the list. Such list must be retained for a period of two years after broadcast.

(h) Any announcement required by section 317(b) of the Communications Act of 1934, as amended, is waived with respect to feature motion picture film produced initially and primarily for theatre exhibition.

NOTE: The waiver heretofore granted by the Commission in its Report and Order adopted November 16, 1960 (FCC 60–1369; 40 F.C.C. 95), continues to apply to programs filmed or recorded on or before June 20, 1963, when § 73.654, the predecessor television rule, went into effect.

(i) Commission interpretations in connection with the provisions of the sponsorship identification rules are contained in the Commission's Public Notice, entitled ''Applicability of Sponsorship Identification Rules,'' dated May 6, 1963 (40 F.C.C. 141), as modified by Public Notice, dated April

21, 1975 (FCC 75–418). Further interpretations are printed in full in various volumes of the Federal Communications Commission Reports.

[40 FR 18400, Apr. 28, 1975, as amended at 46 FR 13907, Feb. 24, 1981; 49 FR 4211, Feb. 3, 1984; 49 FR 33663, Aug. 24, 1984; 50 FR 32417, Aug. 12, 1985; 57 FR 8279, Mar. 9, 1992]

§ 73.1213 Antenna structure, marking and lighting.

(a) The provisions of part 17 of this chapter (Construction, Marking, and Lighting of Antenna Structures), requires certain antenna structures to be painted and/or lighted in accordance with part 17.

(b) The owner of each antenna structure is responsible for ensuring that the structure, if required, is painted and/or illuminated in accordance with part 17 of this chapter. In the event of default by the owner, each licensee or permittee shall be responsible for ensuring that the structure complies with applicable painting and lighting requirements.

[61 FR 4367, Feb. 6, 1996]

§ 73.1215 Specifications for indicating instruments.

The following requirements and specifications shall apply to indicating instruments used by broadcast stations:

(a) Linear scale instruments:

(1) Length of scale shall not be less than 2.3 inches (5.8 cm).

(2) Accuracy shall be at least 2 percent of the full scale reading.

(3) The maximum rating of the meter shall be such that it does not read off scale during modulation or normal operation.

(4) Scale shall have at least 40 divisions.

(5) Full scale reading shall not be greater than five times the minimum normal indication.

(b) Instruments having square-law scales:

(1) Meet the requirements of paragraphs (a) (1), (2), and (3) of this section for linear scale instruments.

(2) Full scale reading shall not be greater than three times the minimum normal indication.

(3) No scale division above one-third full scale reading shall be greater than one-thirtieth of the full scale reading. (Example: An ammeter meeting requirement (1) having full scale reading of 6 amperes is acceptable for reading currents from 2 to 6 amperes, provided no scale division between 2 and 6 amperes is greater than one-thirtieth of 6 amperes, 0.2 ampere.)

(c) Instruments having logarithmic scales:

(1) Meet the requirements of paragraphs (a) (1), (2), and (3) of this section for linear scale instruments.

(2) Full scale reading shall not be greater than five times the minimum normal indication.

(3) No scale division above one-fifth full scale reading (in watts) shall be greater than one-thirtieth of the full scale reading. (Example: A wattmeter meeting requirement (3) having full scale reading of 1,500 watts is acceptable for reading power from 300 to 1,500 watts, provided no scale division between 300 and 1,500 watts is greater than one-thirtieth of 1,500 watts or 50 watts.)

(d) Instruments having expanded scales:

(1) Shall meet the requirements of paragraphs (a) (1), (2), and (3) of this section for linear scale instruments.

(2) Full scale reading shall not be greater than five times the minimum normal indication.

(3) No scale division above one-fifth full scale reading shall be greater than one-fiftieth of the full scale reading. (Example: An ammeter meeting the requirement (1) is acceptable for indicating current from 1 to 5 amperes, provided no division between 1 and 5 amperes is greater than one-fiftieth of 5 amperes, 0.1 ampere.)

(e) Digital meters, printers, or other numerical readout devices may be used in addition to or in lieu of indicating instruments meeting the specifications of paragraphs (a), (b), (c), and (d) of this section. The readout of the device must include at least three digits and must indicate the value of the parameter being read to an accuracy of 2%. The multiplier, if any, to be applied to the reading of each parameter must be indicated at the operating position.

(f) No instrument which has been broken or appears to be damaged or defective, or the accuracy of which is questionable shall be used, until it has

been checked, and if necessary repaired and recalibrated by the manufacturer or qualified instrument repair service. Repaired instruments shall not be used unless a certificate of calibration has been provided showing that the instrument conforms to the manufacturer's specifications for accuracy.

[41 FR 36818, Sept. 1, 1976; 41 FR 43152, Sept. 30, 1976, as amended at 51 FR 2707, Jan. 21, 1986]

§ 73.1216 Licensee-conducted contests.

A licensee that broadcasts or advertises information about a contest it conducts shall fully and accurately disclose the material terms of the contest, and shall conduct the contest substantially as announced or advertised. No contest description shall be false, misleading or deceptive with respect to any material term.

NOTE 1: For the purposes of this rule:

(a) A contest is a scheme in which a prize is offered or awarded, based upon chance, diligence, knowledge or skill, to members of the public.

(b) Material terms include those factors which define the operation of the contest and which affect participation therein. Although the material terms may vary widely depending upon the exact nature of the contest, they will generally include: how to enter or participate; eligibility restrictions; entry deadline dates; whether prizes can be won; when prizes can be won; the extent, nature and value of prizes; basis for valuation of prizes; time and means of selection of winners; and/or tie-breaking procedures.

NOTE 2: In general, the time and manner of disclosure of the material terms of a contest are within the licensee's discretion. However, the obligation to disclose the material terms arises at the time the audience is first told how to enter or participate and continues thereafter. The material terms should be disclosed periodically by announcements broadcast on the station conducting the contest, but need not be enumerated each time an announcement promoting the contest is broadcast. Disclosure of material terms in a reasonable number of announcements is sufficient. In addition to the required broadcast announcements, disclosure of the material terms may be made in a non-broadcast manner.

NOTE 3: This rule is not applicable to licensee-conducted contests not broadcast or advertised to the general public or to a substantial segment thereof, to contests in which the general public is not requested or permitted to participate, to the commercial advertisement of non-licensee-conducted contests, or to a contest conducted by a non-broadcast division of the licensee or by a non-broadcast company related to the licensee.

[41 FR 43152, Sept. 30, 1976]

§ 73.1217 Broadcast hoaxes.

No licensee or permittee of any broadcast station shall broadcast false information concerning a crime or a catastrophe if:

(a) The licensee knows this information is false;

(b) It is forseeable that broadcast of the information will cause substantial public harm, and

(c) Broadcast of the information does in fact directly cause substantial public harm.

Any programming accompanied by a disclaimer will be presumed not to pose foreseeable harm if the disclaimer clearly characterizes the program as a fiction and is presented in a way that is reasonable under the circumstances.

NOTE: For purposes of this rule, ''public harm'' must begin immediately, and cause direct and actual damage to property or to the health or safety of the general public, or diversion of law enforcement or other public health and safety authorities from their duties. The public harm will be deemed foreseeable if the licensee could expect with a significant degree of certainty that public harm would occur. A ''crime'' is any act or omission that makes the offender subject to criminal punishment by law. A ''catastrophe'' is a disaster or imminent disaster involving violent or sudden event affecting the public.

[57 FR 28640, June 26, 1992]

§ 73.1225 Station inspections by FCC.

(a) The licensee of a broadcast station shall make the station available for inspection by representatives of the FCC during the station's business hours, or at any time it is in operation.

(b) In the course of an inspection or investigation, an FCC representative may require special equipment tests, program tests or operation with nighttime or presunrise facilities during daytime hours pursuant to §0.314, part 0, of the FCC rules.

(c) The following records shall be made available by all broadcast stations upon request by representatives of the FCC.

(1) Equipment performance measurements required by §§ 73.1590 and 73.1690.

(2) The written designations for chief operators and, when applicable, the contracts for chief operators engaged on a contract basis.

(3) Application for modification of the transmission system made pursuant to § 73.1690(c).

(4) Informal statements or drawings depicting any transmitter modification made pursuant to § 73.1690(e).

(5) Station logs and special technical records.

(d) Commercial and noncommercial AM stations must make the following information also available upon request by representatives of the FCC.

(1) Copy of the most recent antenna or common-point impedance measurements.

(2) Copy of the most recent field strength measurements made to establish performance of directional antennas required by § 73.151.

(3) Copy of the partial directional antenna proofs of performance made in accordance with § 73.154 and made pursuant to the following requirements:

(i) Section 73.68, Sampling systems for antenna monitors.

(ii) Section 73.69, Antenna monitors.

(iii) Section 73.61, AM direction antenna field strength measurements.

[43 FR 45846, Oct. 4, 1978; 43 FR 50683, Oct. 31, 1978, as amended at 51 FR 41629, Nov. 18, 1986; 51 FR 44478, Dec. 10, 1986; 57 FR 48333, Oct. 23, 1992]

§ 73.1226 Availability to FCC of station logs and records.

The following shall be made available to any authorized representative of the FCC upon request:

(a) Station records and logs shall be made available for inspection or duplication at the request of the FCC or its representative. Such logs or records may be removed from the licensee's possession by an FCC representative or, upon request, shall be mailed by the licensee to the FCC by either registered mail, return receipt requested, or certified mail, return receipt requested. The return receipt shall be retained by the licensee as part of the station records until such records or logs are returned to the licensee. A receipt shall be furnished when the logs or records are removed from the licensee's possession by an FCC representative and this receipt shall be retained by the licensee as part of the station records until such records or logs are returned to the licensee. When the FCC has no further need for such records or logs, they shall be returned to the licensee. The provisions of this rule shall apply solely to those station logs and records which are required to be maintained by the provisions of this chapter.

(1) Logs and records stored on microfilm, microfiche or other data-storage systems are subject to the requirements pertaining thereto found in § 73.1840(b).

(b) Where records or logs are maintained as the official records of a recognized law enforcement agency and the removal of the records from the possession of the law enforcement agency will hinder its law enforcement activities, such records will not be removed pursuant to this section if the chief of the law enforcement agency promptly certifies in writing to the FCC that removal of the logs or records will hinder law enforcement activities of the agency, stating insofar as feasible the basis for his decision and the date when it can reasonably be expected that such records will be released to the FCC.

(c) The following contracts, agreements, or understandings, which need not be filed with the FCC (per § 73.3613, Filing of contracts), must be kept at the station and made available for inspection by any authorized representative of the FCC upon request:

(1) Contracts relating to the sale of broadcast time to ''time brokers'' for resale.

(2) FM subchannel leasing agreements for subsidiary communications.

(3) Time sales contracts with the same sponsor for 4 or more hours per day, except where the length of the events (such as athletic contests, musical programs, and special events) broadcast pursuant to the contract is not under control of the station.

(4) Contracts with chief operators or other engineering personnel.

[43 FR 45847, Oct. 4, 1978; 43 FR 50683, Oct. 31, 1978, as amended at 45 FR 41151, June 18, 1980; 48 FR 28457, June 22, 1983]

§ 73.1230 Posting of station license.

(a) The station license and any other instrument of station authorization shall be posted in a conspicuous place and in such a manner that all terms are visible at the place the licensee considers to be the principal control point of the transmitter.

(b) Posting of the station license and any other instruments of authorization shall be done by affixing them to the wall at thee posting location, or by enclosing them in a binder or folder which is retained at the posting location so that the documents will be readily available and easily accessible.

[60 FR 55480, Nov. 1, 1995]

§ 73.1250 Broadcasting emergency information.

(a) Emergency situations in which the broadcasting of information is considered as furthering the safety of life and property include, but are not limited to the following: Tornadoes, hurricanes, floods, tidal waves, earthquakes, icing conditions, heavy snows, widespread fires, discharge of toxic gasses, widspread power failures, industrial explosions, civil disorders and school closing and changes in school bus schedules resulting from such conditions. See also § 73.3542, Application for Emergency Authorization, for requirements involving emergency situations not covered by this section for which prior operating authority must be requested.

(b) If requested by responsible public officials, a station may, at its discretion, and without further FCC authority, transmit emergency point-to-point messages for the purpose of requesting or dispatching aid and assisting in rescue operations.

(c) If the Emergency Alert System (EAS) is activated for a national emergency while a Local Area or State emergency operation is in progress, the national level EAS operation must take precedence. If, during the broadcasting of Local Area or State emergency information, the EAS codes or Attention Signal described in § 11.12 of this chapter are used, the broadcasts are considered as being carried out under a Local Area or State EAS plan.

(d) Any emergency operation undertaken in accordance with this section may be terminated by the FCC if required in the public interest.

(e) Immediately upon cessation of an emergency during which broadcast facilities were used for the transmission of point-to-point messages under paragraph (b) of this section, or when daytime facilities were used during nighttime hours by an AM station in accordance with paragraph (f) of this section, a report in letter form shall be forwarded to the FCC in Washington, DC, setting forth the nature of the emergency, the dates and hours of the broadcasting of emergency information, and a brief description of the material carried during the emergency. A certification of compliance with the noncommercialization provision of paragraph (f) of this section must accompany the report where daytime facilities are used during nighttime hours by an AM station, together with a detailed showing, under the provisisons of that paragraph, that no other broadcast service existed or was adequate.

(f) AM stations may, without further FCC authority, use their full daytime facilities during nighttime hours to broadcast emergency information (examples listed in paragraph (a) of this section), when necessary to the safety of life and property, in dangerous conditions of a general nature and when adequate advance warning cannot be given with the facilities authorized. Because of skywave interference impact on other stations assigned to the same channel, such operation may be undertaken only if regular, unlimited-time service, is non-existent, inadequate from the standpoint of coverage, or not serving the public need. All operation under this paragraph must be conducted on a noncommercial basis. Recorded music may be used to the extent necessary to provide program continuity.

(g) Broadcasting of emergency information shall be confined to the hours, frequencies, powers and modes of operation specified in the station license, except as otherwise provided for AM stations in paragraph (f) of this section.

(h) Any emergency information transmitted by a TV station in accordance with this section shall be transmitted both aurally and visually or only visually. TV stations may use any method of visual presentation which results in a legible message conveying the essential emergency information. Methods which may be used include, but are not necessarily limited to, slides, electronic captioning, manual methods (e.g., hand printing) or mechanical printing processes. However, when an emergency operation is being conducted under a national, State or Local Area Emergency Alert System (EAS) plan, emergency information shall be transmitted both aurally and visually unless only the EAS codes are transmitted as specified in § 11.51(b) of this chapter.

[43 FR 45847, Oct. 4, 1978, as amended at 50 FR 30947, July 31, 1985; 59 FR 67102, Dec. 28, 1994; 60 FR 56000, Nov. 6, 1995]

§ 73.1300 Unattended station operation.

Broadcast stations may be operated as either attended (where a designated person is responsible for the proper operation of the transmitting apparatus either at the transmitter site, a remote control point or an ATS control point) or unattended (where highly stable equipment or automated monitoring of station operating parameters is employed). No prior FCC approval is required to operate a station in the unattended mode. Regardless of which method of station operation is employed, licensees must employ procedures which will ensure compliance with Part 11 of this chapter, the rules governing the Emergency Alert System (EAS).

[60 FR 55481, Nov. 1, 1995]

§ 73.1350 Transmission system operation.

(a) Each licensee is responsible for maintaining and operating its broadcast station in a manner which complies with the technical rules set forth elsewhere in this part and in accordance with the terms of the station authorization.

(b) The licensee must designate a chief operator in accordance with § 73.1870. The licensee may designate one or more technically competent persons to adjust the transmitter operating parameters for compliance with the technical rules and the station authorization.

(1) Persons so authorized by the licensee may make such adjustments directly at the transmitter site or by using control equipment at an off-site location.

(2) The transmitter control personnel must have the capability to turn the transmitter off at all times. If the personnel are at a remote location, the control system must provide this capability continuously or must include an alternate method of acquiring control that can satisfy the requirement of paragraph (d) of this section that operation be terminated within 3 minutes.

(c) The licensee must establish monitoring procedures and schedules for the station and the indicating instruments employed must comply with § 73.1215.

(1) Monitoring procedures and schedules must enable the licensee to determine compliance with § 73.1560 regarding operating power and AM station mode of operation, § 73.1570 regarding modulation levels, and, where applicable, § 73.1213 regarding antenna tower lighting, and § 73.69 regarding the parameters of an AM directional antenna system.

(2) Monitoring equipment must be periodically calibrated so as to provide reliable indications of transmitter operating parameters with a known degree of accuracy. Errors inherent in monitoring equipment and the calibration procedure must be taken into account when adjusting operating parameters to ensure that the limits imposed by the technical rules and the station authorization are not exceeded.

(d) In the event that a broadcast station is operating in a manner that is not in compliance with the technical rules set forth elsewhere in this part or the terms of the station authorization, and the condition is not listed in paragraph (e) of this section, broadcast operation must be terminated within three hours.

(1) Examples of conditions that require termination of operation include excessive power or excessive modulation.

(2) Additional examples for AM stations are any mode of operation not specified by the station license for the pertinent time of day or hours of operation and any condition of antenna parameters or monitoring points out of the tolerances specified elsewhere in this part or by the station's instrument of authorization. For these conditions, operation must be terminated within three minutes unless antenna input power is reduced sufficiently to eliminate any excess radiation.

(3) For AM stations using directional arrays, additional procedures apply when array operating parameters are at variance, monitoring points exceed specified limits, or authorized directional mode capability is lost. See § 73.62, Directional antenna system tolerances; § 73.158, Directional antenna monitoring points; and § 73.1680(b), Emergency antennas.

(e) If a broadcast station is operating in a manner that is not in compliance with one of the following technical rules, operation may continue if the station complies with relevant alternative provisions in the specified rule section.

(1) AM directional antenna system tolerances, *see* § 73.62;

(2) AM directional antenna monitoring points, *see* § 73.158;

(3) TV visual waveform, *see* § 73.691(b);

(4) Reduced power operation, *see* § 73.1560(d);

(5) Reduced modulation level, *see* § 73.1570(a);

(6) Emergency antennas, *see* § 73.1680.

(f) The transmission system must be maintained and inspected in accordance with § 73.1580.

(g) Whenever a transmission system control point is established at a location other than at the main studio or transmitter, notification of that location must be sent to the FCC in Washington, D.C. within 3 days of the initial use of that point. This notification is not required if responsible station personnel can be contacted at the transmitter or studio site during hours of operation.

(h) The licensee must ensure that the station is operated in compliance with Part 11 of this chapter, the rules governing the Emergency Alert System (EAS).

[60 FR 55481, Nov. 1, 1995]

§ 73.1400 Transmission system monitoring and control.

The licensee of an AM, FM or TV station is responsible for assuring that at all times the station operates within tolerances specified by applicable technical rules contained in this part and in accordance with the terms of the station authorization. Any method of complying with applicable tolerances is permissible. The following are typical methods of transmission system operation:

(a) *Attended operation.* (1) Attended operation consists of ongoing supervision of the transmission facilities by a station employee or other person designated by the licensee. Such supervision may be accomplished by either:

(i) Direct supervision and control of transmission system parameters by a person at the transmitter site; or

(ii) Remote control of the transmission system by a person at the main studio or other location. The remote control system must provide sufficient transmission system monitoring and control capability so as to ensure compliance with § 73.1350.

(2) A station may also be monitored and controlled by an automatic transmission system (ATS) that is configured to contact a person designated by the licensee in the event of a technical malfunction. An automatic transmission system consists of monitoring devices, control and alarm circuitry, arranged so that they interact automatically to operate the station's transmitter and maintain technical parameters within licensed values.

(3) A hybrid system containing some remote control and some ATS features is also permissible.

(4) In the case of remote control or ATS operation, not every station parameter need be monitored or controlled if the licensee has good reason to believe that its stability is so great that its monitoring and control are unnecessary.

(b) *Unattended operation.* Unattended operation is either the absence of human supervision or the substitution of automated supervision of a station's

transmission system for human supervision. In the former case, equipment is employed which is expected to operate within assigned tolerances for extended periods of time. The latter consists of the use of a self-monitoring or ATS-monitored and controlled transmission system that, in lieu of contacting a person designated by the licensee, automatically takes the station off the air within three hours of any technical malfunction which is capable of causing interference.

[60 FR 55481, Nov. 1, 1995]

§ 73.1510 Experimental authorizations.

(a) Licensees of broadcast stations may obtain experimental authorizations to conduct technical experimentation directed toward improvement of the technical phases of operation and service, and for such purposes may use a signal other than the normal broadcast program signal.

(b) Experimental authorizations may be requested by filing an informal application with the FCC in Washington, DC, describing the nature and purpose of the experimentation to be conducted, the nature of the experimental signal to be transmitted, and the proposed schedule of hours and duration of the experimentation. Experimental authorizations shall be posted with the station license.

(c) Experimental operations are subject to the following conditions:

(1) The authorized power of the station may not be exceeded, except as specifically authorized for the experimental operations.

(2) Emissions outside the authorized bandwidth must be attenuated to the degree required for the particular type of station.

(3) The experimental operations may be conducted at any time the station is authorized to operate, but the minimum required schedule of programming for the class and type of station must be met. AM stations also may conduct experimental operations during the experimental period (12 midnight local time to local sunrise) and at additional hours if permitted by the experimental authorization provided no interference is caused to other stations maintaining a regular operating schedule within such period(s).

(4) If an experimental authorization permits the use of additional facilities or hours of operation for experimental purposes, no sponsored programs or commercial announcements may be transmitted during such experimentation.

(5) The licensee may transmit regularly scheduled programming concurrently with the experimental transmission if there is no significant impairment of service.

(6) No charges may be made, either directly or indirectly, for the experimentation; however, normal charges may be made for regularly scheduled programming transmitted concurrently with the experimental transmissions.

(d) The FCC may request a report of the research, experimentation and results at the conclusion of the experimental operation.

[43 FR 32783, July 28, 1978]

§ 73.1515 Special field test authorizations.

(a) A special field test authorization may be issued to conduct field strength surveys to aid in the selection of suitable sites for broadcast transmission facilities, determine coverage areas, or to study other factors influencing broadcast signal propagation. The applicant for the authorization must be qualified to hold a license under section 303(1)(l) of the Communications Act.

(b) Requests for authorizations to operate a transmitter under a Special field test authorization must be in writing using an informal application in letter form, signed by the applicant and including the following information:

(1) Purpose, duration and need for the survey.

(2) Frequency, transmitter output powers and time of operation.

(3) A brief description of the test antenna system, its estimated effective radiated field and height above ground or average terrain, and the geographic coordinates of its proposed location(s).

(c) Operation under a special field test authorization is subject to the following conditions:

(1) No objectionable interference will result to the operation of other authorized radio services; in this connection, the power requested shall not exceed that necessary for the purposes of the test.

(2) The carriers will be unmodulated except for the transmission of a test-pattern on a visual TV transmitter, and for hourly voice station identification on aural AM, FM and TV transmitters.

(3) The transmitter output power or antenna input power may not exceed those specified in the test authorization and the operating power must be maintained at a constant value for each phase of the tests.

(4) The input power to the final amplifier stage, and the AM antenna current or the FM or TV transmitter output power must be observed and recorded at half hour intervals and at any time that the power is adjusted or changed. Copies of these records must be submitted to the FCC with the required report.

(5) The test equipment may not be permanently installed, unless such installation has been separately authorized. Mobile units are not deemed permanent installations.

(6) Test transmitters must be operated by or under the immediate direction of an operator holding a commercial radio operator license (any class, unless otherwise endorsed).

(7) A report, containing the measurements, their analysis and other results of the survey shall be filed with the FCC in Washington, DC within sixty (60) days following the termination of the test authorization.

(8) The test transmission equipment, installation and operation thereof need not comply with the requirements of FCC rules and standards except as specified in this section if the equipment, installation and operation are consistent with good engineering principles and practices.

(d) A special field test authorization may be modified or terminated by notification from the FCC if in its judgment such action will promote the public interest, convenience and necessity.

[44 FR 58734, Oct. 11, 1979, as amended at 46 FR 35463, July 8, 1981; 49 FR 4211, Feb. 3, 1984; 49 FR 20670, May 16, 1984]

§ 73.1520 Operation for tests and maintenance.

(a) Broadcast stations may be operated for tests and maintenance of their transmitting systems on their assigned frequencies using their licensed operating power and antennas during their authorized hours of operation without specific authorization from the FCC.

(b) Licensees of AM stations may operate for tests and maintenance during the hours from 12 midnight local time to local sunrise, if no interference is caused to other stations maintaining a regular operating schedule within such period. No AM station licensed for ''daytime'' or ''specified hours'' of operation may broadcast any regular or scheduled programs during this period of test and maintenance operation.

(c) Licensees of AM stations may obtain special antenna test authorizations, and operate under the provisions described in § 73.157, to operate with nighttime facilities during daytime hours in conducting directional antenna field strength and antenna proof of performance measurements.

[43 FR 32783, July 28, 1978, as amended at 45 FR 6401, Jan. 28, 1980]

§ 73.1530 Portable test stations [Definition].

A portable test station is one that is moved from place to place for making field strength and ground conductivity measurements, for selecting station transmitter sites, and conducting other specialized propagation tests. Portable test stations are not normally used while in motion, and may not be used for the transmission of programs intended to be received by the public.

[43 FR 32783, July 28, 1978]

§ 73.1540 Carrier frequency measurements.

(a) The carrier frequency of each AM and FM station and the visual carrier frequency and the difference between the visual carrier and the aural carrier or center frequency of each TV station shall be measured or determined as often as necessary to ensure that they are maintained within the prescribed tolerances.

(b) In measuring the carrier frequency, the licensee may use any

method or procedure that has sufficient precision to establish that the carrier frequency is within the prescribed departure limits.

(c) The primary standard of frequency for radio frequency measurements is the standard frequency maintained by the National Bureau of Standards or the standard signals of Stations WWV, WWVB, and WWVH of the National Bureau of Standards.

[43 FR 32783, July 28, 1978, as amended at 48 FR 44805, Sept. 30, 1983]

§ 73.1545 Carrier frequency departure tolerances.

(a) *AM stations.* The departure of the carrier frequency for monophonic transmissions or center frequency for stereophonic transmissions may not exceed ± 20 Hz from the assigned frequency.

(b) *FM stations.* (1) The departure of the carrier or center frequency of an FM station with an authorized transmitter output power more than 10 watts may not exceed ±2000 Hz from the assigned frequency.

(2) The departure of the carrier or center frequency of an FM station with an authorized transmitter output power of 10 watts or less may not exceed ±3000 Hz from the assigned frequency.

(c) *TV stations.* (1) The departure of the visual carrier frequency of a TV station may not exceed ±1000 Hz from the assigned visual carrier frequency.

(2) The departure of the aural carrier frequency of a TV station may not exceed ±1000 Hz from the actual visual carrier frequency plus exactly 4.5 MHz.

(d) *International broadcast stations.* The departure of the carrier frequency of an International broadcast station may not exceed 0.0015% of the assigned frequency on which the station is transmitting.

[44 FR 58734, Oct. 11, 1979; 44 FR 64408, Nov. 7, 1979, as amended at 47 FR 13165, Mar. 29, 1982]

§ 73.1560 Operating power and mode tolerances.

(a) *AM stations.* (1) Except as provided for in paragraph (d) of this section, the antenna input power of an AM station as determined by the procedures specified in § 73.51 must be maintained as near as is practicable to the authorized antenna input power and may not be less than 90% nor more than 105% of the authorized power.

(2) Whenever the transmitter of an AM station cannot be placed into the specified operating mode at the time required, transmissions of the station must be immediately terminated. However, if the radiated field at any bearing or elevation does not exceed that permitted for that time of day, operation in the mode with the lesser radiated field may continue under the notification procedures of paragraph (d) of this section.

(b) *FM stations.* Except as provided in paragraph (d) of this section, the transmitter output power of an FM station, with power output as determined by the procedures specified in § 73.267, which is authorized for output power more than 10 watts must be maintained as near as practicable to the authorized transmitter output power and may not be less than 90% nor more than 105% of the authorized power. FM stations operating with authorized transmitter output power of 10 watts or less, may operate at less than the authorized power, but not more than 105% of the authorized power.

(c) *TV stations.* (1) Except as provided in paragraph (d) of this section, the visual output power of a TV transmitter, as determined by the procedures specified in § 73.663, must be maintained as near as is practicable to the authorized transmitter output power and may not be less than 80% nor more than 110% of the authorized power.

(2) The output power of the aural transmitter shall be maintained to provide an aural carrier ERP not to exceed 22% of the peak authorized visual ERP.

(3) The FCC may specify deviation from the power of tolerance requirements for subscription television operations to the extent it deems necessary to permit proper operation.

(d) *Reduced power operation.* In the event it becomes technically impossible to operate with the authorized power, a broadcast station may operate at reduced power for a period of not more than 30 days without specific authority from the FCC. If operation at reduced power will exceed 10 consecutive days, a notification must be sent to the FCC in Washington, D.C., not

later than the 10th day of the lower power operation. In the event the normal power is restored prior to the expiration of the 30 day period, the licensee must notify the FCC upon restoration of normal operation. If causes beyond the control of the licensee prevent restoration of authorized power within 30 days, an informal written request must be made to the FCC in Washington, DC, no later than the 30th day for the additional time as may be necessary.

[44 FR 58734, Oct. 11, 1979, as amended at 49 FR 22093, May 25, 1984; 49 FR 29069, July 18, 1984; 49 FR 47610, Dec. 6, 1984; 50 FR 26568, June 27, 1985; 50 FR 40015, Oct. 1, 1985]

§ 73.1570 Modulation levels: AM, FM, and TV aural.

(a) The percentage of modulation is to be maintained at as high a level as is consistent with good quality of transmission and good broadcast service, with maximum levels not to exceed the values specified in paragraph (b). Generally, the modulation should not be less than 85% on peaks of frequent recurrence, but where lower modulation levels may be required to avoid objectionable loudness or to maintain the dynamic range of the program material, the degree of modulation may be reduced to whatever level is necessary for this purpose, even though under such circumstances, the level may be substantially less than that which produces peaks of frequent recurrence at a level of 85%.

(b) Maximum modulation levels must meet the following limitations:

(1) *AM stations.* In no case shall the amplitude modulation of the carrier wave exceed 100% on negative peaks of frequent recurrence, or 125% on positive peaks at any time.

(i) AM stations transmitting stereophonic programs not exceed the AM maximum stereophonic transmission signal modulation specifications of stereophonic system in use.

(ii) For AM stations transmitting telemetry signals for remote control or automatic transmission system operation, the amplitude of modulation of the carrier by the use of subaudible tones must not be higher than necessary to effect reliable and accurate data transmission and may not, in any case, exceed 6%.

(2) *FM Stations.* The total modulation must not exceed 100 percent on peaks of frequent reoccurrence referenced to 75 kHz deviation. However, stations providing subsidiary communications services using subcarriers under provisions of § 73.319 concurrently with the broadcasting of stereophonic or monophonic programs may increase the peak modulation deviation as follows:

(i) The total peak modulation may be increased 0.5 percent for each 1.0 percent subcarrier injection modulation.

(ii) In no event may the modulation of the carrier exceed 110 percent (82.5 kHz peak deviation).

(3) TV station. In no case shall the total modulation of the aural carrier exceed 100% on peaks of frequent recurrence, unless some other peak modulation level is specified in an instrument of authorization. For monophonic transmissions, 100% modulation is defined as ±25 kHz.

(c) If a limiting or compression amplifier is employed to maintain modulation levels, precaution must be taken so as not to substantially alter the dynamic characteristics of programs.

[44 FR 58735, Oct. 11, 1979, as amended at 47 FR 13165, Mar. 29, 1982; 49 FR 14508, Apr. 12, 1984; 49 FR 15081, Apr. 17, 1984; 49 FR 27147, July 2, 1984; 49 FR 47610, Dec. 6, 1984; 49 FR 48312, Dec. 12, 1984; 51 FR 26251, July 22, 1986; 56 FR 64872, Dec. 12, 1991]

§ 73.1580 Transmission system inspections.

Each AM, FM, and TV station licensee or permittee must conduct periodic complete inspections of the transmitting system and all required monitors to ensure proper station operation.

[60 FR 55482, Nov. 1, 1995]

§ 73.1590 Equipment performance measurements.

(a) The licensee of each AM, FM and TV station, except licensees of Class D non-commercial educational FM stations authorized to operate with 10 watts or less output power, must make equipment performance measurements for each main transmitter as follows:

(1) Upon initial installation of a new or replacement main transmitter.

(2) Upon modification of an existing transmitter made under the provisions of § 73.1690, Modification of transmission systems, and specified therein.

(3) Installation of AM stereophonic transmission equipment pursuant to § 73.128.

(4) Installation of FM subcarrier or stereophonic transmission equipment pursuant to § 73.295, § 73.297, § 73.593 or § 73.597.

(5) Installation of TV stereophonic or subcarrier transmission equipment pursuant to §§ 73.669 and 73.1690.

(6) Annually, for AM stations, with not more than 14 months between measurements.

(7) When required by other provisions of the rules or the station license.

(b) Measurements for spurious and harmonic emissions must be made to show compliance with the transmission system requirements of § 73.44 for AM stations; § 73.317 for FM stations and § 73.687 for TV stations. Measurements must be made under all conditions of modulation expected to be encountered by the station whether transmitting monophonic or stereophonic programs and providing subsidiary communications services.

(c) TV visual equipment performance measurements must be made with the equipment adjusted for normal program operation at the transmitter antenna sampling port to yield the following information:

(1) Field strength or voltage of the lower side-band for a modulating frequency of 1.25 MHz or greater, (including 3.58 MHz for color), and of the upper side-band for a modulating frequency of 4.75 MHz or greater.

(2) Data showing that the waveform of the transmitted signal conforms to that specified by the standards for TV transmissions.

(3) Photographs of a test pattern taken from a receiver or monitor connected to the transmitter output.

(4) Data showing envelope delay characteristics of the radiated signal.

(5) Data showing the attenuation of spurious and harmonic radiation, if, after type acceptance, any changes have been made in the transmitter or associated equipment (filters, multiplexer, etc.) which could cause changes in its radiation products.

(d) The data required by paragraphs (b) and (c) of this section, together with a description of the equipment and procedure used in making the measurements, signed and dated by the qualified person(s) making the measurements, must be kept on file at the transmitter or remote control point for a period of 2 years, and on request must be made available during that time to duly authorized representatives of the FCC.

[47 FR 8589, Mar. 1, 1982, as amended at 51 FR 18450, May 20, 1986]

§ 73.1610 Equipment tests.

(a) During the process of construction of a new broadcast station, the permittee, after notifying the FCC in Washington, D.C. may, without further authority from the FCC, conduct equipment tests for the purpose of making such adjustments and measurements as may be necessary to assure compliance with the terms of the construction permit, the technical provisions of the application therefore, the rules and regulations and the applicable engineering standards. For AM stations, equipment tests, including either a directional or nondirectional proof of performance required by the construction permit, may be conducted during daytime hours provided that the antenna system is first substantially tuned during the experimental period. The nondirectional proof shall be conducted with power adjusted to 25% of that specified in the permit for the authorized directional facilities or, if applicable, to such higher power as is specified in the same permit for authorized nondirectional facilities. For licensed stations, see § 73.1615, Operation During Modification of Facilities; and § 73.157, Antenna Testing During Daytime.

(b) The FCC may notify the permittee not to conduct equipment tests or may modify, cancel, suspend, or change the modes of testing or the dates and times for such tests in order to resolve interference complaints or when such action may appear to be in the public interest, convenience, and necessity.

(c) Equipment tests may be continued so long as the construction permit shall remain valid.

(d) The authorization for tests embodied in this section shall not be construed as constituting a license to operate but as a necessary part of construction.

[43 FR 32783, July 28, 1978, as amended at 47 FR 40174, Sept. 13, 1982; 50 FR 30947, July 31, 1985]

§ 73.1615 Operation during modification of facilities.

When the licensee of an existing AM, FM or TV station is in the process of modifying existing facilities as authorized by a construction permit and determines it is necessary to either discontinue operation or to operate with temporary facilities to continue program service, the following procedures apply:

(a) Licensees holding a construction permit for modification of directional or nondirectional FM and TV or nondirectional AM station facilities may, without specific FCC authority, for a period not exceeding 30 days:

(1) Discontinue operation, or

(2) Operate with temporary facilities to maintain, as nearly as possible, but not exceed, the size of the presently licensed coverage area.

(b) Licensees of an AM station holding a construction permit which involves directional facilities and which does not involve a change in operating frequency may, without specific FCC authority, for a period not exceeding 30 days:

(1) Discontinue operation, or

(2) Operate with reduced power or with parameters at variance from licensed tolerances while maintaining monitoring point field strengths within licensed limits during the period subsequent to the commencement of modifications authorized by the construction permit, or

(3) Operate in a nondirectional mode during the presently licensed hours of directional operation with power reduced to 25% or less of the nominal licensed power, or whatever higher power, not exceeding licensed power, will insure that the radiated field strength specified by the license is not exceeded at any given asimuth for the corresponding hours of directional operation, or

(4) Operate in a nondirectional mode during daytime hours, if not already so licensed, only as necessary to conduct a required nondirectional proof of performance with a power not to exceed 25% of the maximum power authorized by the construction permit for directional operation, or

(5) Operate during daytime hours with either the daytime or nighttime directional pattern and with the power authorized by the construction permit only as necessary to take proof of performance measurements. Operating power shall be promptly reduced to presently licensed level during any significant period of time that these measurements are not being taken. No daytime operation of construction permit directional patterns authorized by this paragraph shall be conducted before such patterns have been substantially tuned during the experimental period.

(6) In the event the directional pattern authorized by the construction permit replaces a licensed directional pattern, the licensee may operate with the substantially adjusted construction permit pattern during the corresponding licensed hours of directional operation with power not exceeding that specified for the licensed pattern.

(c) Such operation or discontinuance of operation in accordance with the provisions of paragraph (a) or (b) of this section may begin upon notification to the FCC in Washington, DC.

(1) Should it be necessary to continue the procedures in either paragraph (a) or (b) of this section beyond 30 days, an informal letter request signed by the licensee or the licensee's representative must be sent to the FCC in Washington, DC. prior to the 30th day.

(2) The license of a broadcasting station that fails to transmit broadcast signals for any consecutive 12-month period expires as a matter of law at the end of that period, notwithstanding any provision, term, or condition of the license or construction permit to the contrary.

(d) Licensees of an AM station holding a construction permit which authorizes both a change in frequency and directional facilities must request and obtain authority from the FCC in Washington, DC. prior to using any

new installation authorized by the permit, or using temporary facilities.

(1) The request is to be made at least 10 days prior to the date on which the temporary operation is to commence. The request is to be made by letter which shall describe the operating modes and facilities to be used. Such letter requests shall be signed by the licensee or the licensee's representative.

(2) Discontinuance of operation is permitted upon notification to the FCC In Washington, DC. Should it be necessary to discontinue operation longer than 30 days, an informal letter request, signed by the licensee or the licensee's representatives, must be sent to the FCC in Washington, DC prior to the 30th day.

(e) The FCC may modify or cancel the temporary operation permitted under the provisions of paragraph (a), (b), (c) or (d) of this section without prior notice or right to hearing.

[50 FR 30947, July 31, 1985, as amended at 61 FR 28767, June 6, 1996]

§ 73.1620 Program tests.

(a) Upon completion of construction of an AM, FM or TV station in accordance with the terms of the construction permit, the technical provisions of the application, the rules and regulations and the applicable engineering standards, program tests may be conducted in accordance with the following:

(1) The permittee of a nondirectional AM or FM station, or a nondirectional or directional TV station, may begin program tests upon notification to the FCC in Washington, DC provided that within 10 days thereafter, an application for a license is filed with the FCC in Washington, DC.

(2) The permittee of an FM station with a directional antenna system must file an application for license on FCC Form 302–FM requesting authority to commence program test operations at full power with the FCC in Washington, D.C. This license application must be filed at least 10 days prior to the date on which full power operations are desired to commence. The application for license must contain any exhibits called for by conditions on the construction permit. The staff will review the license application and the request for program test authority and issue a letter notifying the applicant whether full power operation has been approved. Upon filing of the license application and related exhibits, and while awaiting approval of full power operation, the FM permittee may operate the directional antenna at one half (50%) of the authorized effective radiated power. Alternatively, the permittee may continue operation with its existing licensed facilities pending the issuance of program test authority at the full effective radiated power by the staff.

(3) FM licensees replacing a directional antenna pursuant to § 73.1690 (c)(2) without changes which require a construction permit (*see* § 73.1690(b)) may immediately commence program test operations with the new antenna at one half (50%) of the authorized ERP upon installation. If the directional antenna replacement is an EXACT duplicate of the antenna being replaced (i.e., same manufacturer, antenna model number, and measured composite pattern), program tests may commence with the new antenna at the full authorized power upon installation. The licensee must file a modification of license application on FCC Form 302–FM within 10 days of commencing operations with the newly installed antenna, and the license application must contain all of the exhibits required by § 73.1690(c)(2). After review of the modification-of-license application to cover the antenna change, the Commission will issue a letter notifying the applicant whether program test operation at the full authorized power has been approved for the replacement directional antenna.

(4) The permittee of an AM station with a directional antenna system must file an application for license on FCC Form 302–AM requesting program test authority with the FCC in Washington, DC at least ten (10) days prior to the date on which it desires to commence program test operations. The application must provide an AM directional antenna proof of performance, containing the exhibits required by § 73.186. After review of the application to cover the construction permit, the

Commission will issue a letter notifying the applicant whether program test operations may commence. Program test operations may not commence prior to issuance of staff approval.

(b) The Commission reserves the right to revoke, suspend, or modify program tests by any station without right of hearing for failure to comply adequately with all terms of the construction permit or the provisions of § 73.1690(c) for a modification of license application, or in order to resolve instances of interference. The Commission may, at its discretion, also require the filing of a construction permit application to bring the station into compliance the Commission's rules and policies.

(c) Unless sooner suspended or revoked, the program test authority continues valid during FCC consideration of the application for license, and during this period further extension of the construction permit is not required. Program test authority shall be automatically terminated by final determination upon the application for station license.

(d) All operation under program test authority shall be in strict compliance with the rules governing broadcast stations and in strict accordance with representations made in the application for license pursuant to which the tests were authorized.

(e) Acceptance by the FCC of notification of the station of program tests, or the granting of program test authority by the FCC, is not to be construed by the permittee as approval by the FCC of the application for station license.

(f) The licensee of a UHF TV station which is not in operation on, but assigned to, the same allocated channel which a 1000 watt UHF translator station is authorized to use (see § 73.3516, ''Specification of facilities''), shall notify the licensee of the translator station, in writing, at least 10 days prior to commencing or resuming operation. The TV station licensee shall also certify to the FCC in Washington, DC that such advance notice has been given to the translator station licensee.

(g) *Reports required.* In their application for a license to cover a construction permit and on the first anniversary of the commencement of program tests, applicants for new broadcast facilities that were granted after designation for a comparative hearing as a result of a post designation settlement or a decision favoring them after comparative consideration must report.

(1) Any deviations from comparative proposals relating to integration of ownership and management and diversification of the media of mass communciation contained in their application for a construction permit at the time such application was granted; and

(2) Any deviations from an active/passive ownership structure proposed in their application for a construction permit at the time such application was granted.

(3) The reports referred to in paragraphs (g)(1) and (2) of this section shall not be required in any case in which the order granting the application relieved the applicant of the obligation to adhere to such proposals.

[43 FR 32784, July 28, 1978, as amended at 45 FR 6401, Jan. 28, 1980; 47 FR 28388, June 30, 1982; 49 FR 38132, Sept. 27, 1984; 56 FR 795, Jan. 9, 1991; 56 FR 25639, June 5, 1991; 57 FR 48333, Oct. 23, 1992; 62 FR 51059, Sept. 30, 1997]

EFFECTIVE DATE NOTE: At 62 FR 51059, Sept. 30, 1997, § 73.1620 was amended by revising paragraph (a)(2); by adding paragraphs (a)(3) and (a)(4); and by revising paragraph (b), effective Dec. 1, 1997. For the convenience of the user, the superseded text is set forth as follows:

§ 73.1620 Program tests.

(a) * * *

(2) The permittee of an AM or FM station with a directional antenna system must file an application for license requesting program test authority with the FCC in Washington, DC at least 10 days prior to the date on which it desires to begin program tests. Also, an antenna proof of performance must be filed with the request by an AM or FM station with a directional antenna.

* * * * *

(b) The FCC reserves the right to revoke or suspend program tests by any station without right of hearing for failure to comply adequately with all terms of the construction permit or in order to resolve instances of objectionable interference.

* * * * *

§ 73.1635 Special temporary authorizations (STA).

(a) A special temporary authorization (STA) is the authority granted to a permittee or licensee to permit the operation of a broadcast facility for a limited period at a specified variance from the terms of the station authorization or requirements of the FCC rules applicable to the particular class of station.

(1) A request for a STA should be filed with FCC in Washington, DC at least 10 days prior to the date of the proposed operation.

(2) The request is to be made by letter and shall fully describe the proposed operation and the necessity for the requested STA. Such letter requests shall be signed by the licensee or the licensee's representative.

(3) A request for a STA necessitated by unforeseen equipment damage or failure may be made without regard to the procedural requirements of this section (e.g. via telegram or telephone). Any request made pursuant to this paragraph shall be followed by a written confirmation request conforming to the requirements of paragraph (a)(2) of this section. Confirmation requests shall be submitted within 24 hours. (See also § 73.1680 Emergency Antennas).

(4) An STA may be granted for an initial period not to exceed 180 days. A limited number of extensions of such authorizations may be granted for additional periods not exceeding 180 days per extension. An STA necessitated by technical or equipment problems, however, may, in practice, be granted for an initial period not to exceed 90 days with a limited number of extensions not to exceed 90 days per extension. The permittee or licensee must demonstrate that any further extensions requested are necessary and that all steps to resume normal operation are being undertaken in an expeditions and timely fashion. The license of a broadcasting station that fails to transmit broadcast signals for any consecutive 12-month period expires as a matter of law at the end of that period, notwithstanding any STA or provision, term, or condition of the license to the contrary.

(5) Certain rules specify special considerations and procedures in situations requiring an STA or permit temporary operation at variance without prior authorization from the FCC when notification is filed as prescribed in the particular rules. See § 73.62, Directional antenna system tolerances; § 73.157, Antenna testing during daytime; § 73.158, Directional antenna monitoring points; § 73.691, Visual modulation monitoring; § 73.1250, Broadcasting emergency information; § 73.1350, Transmission system operation; § 73.1560, Operating power and mode tolerances; § 73.1570, Modulation levels: AM, FM, and TV aural; § 73.1615, Operation during modification of facilities; § 73.1680, Emergency antennas; and § 73.1740, Minimum operating schedule.

(b) An STA may be modified or cancelled by the FCC without prior notice or right to hearing.

(c) No request by an AM station for temporary authority to extend its hours of operation beyond those authorized by its regular authorization will be accepted or granted by the FCC except in emergency situations conforming with the requirements of § 73.3542, Application for Emergency Authorization. See also § 73.1250, Broadcasting Emergency Information.

[50 FR 30948, July 31, 1985, as amended at 58 FR 51250, Oct. 1, 1993; 60 FR 55482, Nov. 1, 1995; 61 FR 28767, June 6, 1996]

§ 73.1650 International agreements.

(a) The rules in this part 73, and authorizations for which they provide, are subject to compliance with the international obligations and undertakings of the United States. Accordingly, all provisions in this part 73 are subject to compliance with applicable requirements, restrictions, and procedures accepted by the United States that have been established by or pursuant to treaties or other international agreements, arrangements, or understandings to which the United States is a signatory, including applicable annexes, protocols, resolutions, recommendations and other supplementing documents associated with such international instruments.

(b) The United States is a signatory to the following treaties and other international agreements that relate,

in whole or in part, to AM, FM or TV broadcasting:

(1) The following instruments of the International Telecommunication Union:

(i) Constitution.

(ii) Convention.

(iii) Radio Regulations.

(2) Regional Agreements for the Broadcasting Service in Region 2:

(i) MF Broadcasting 535–1605 kHz, Rio de Janeiro, 1981.

(ii) MF Broadcasting 1605–1705 kHz, Rio de Janeiro, 1988.

(3) Bi-lateral Agreements between the United States and Canada relating to:

(i) AM Broadcasting.

(ii) FM Broadcasting.

(iii) TV Broadcasting.

(4) Bi-lateral Agreements between the United States and Mexico relating to:

(i) AM Broadcasting.

(ii) FM Broadcasting.

(iii) TV Broadcasting.

(5) Bi-lateral Agreement between the United States and the Bahama Islands relating to presunrise operations by AM stations.

(6) North American Regional Broadcasting Agreement (NARBA), which, for the United States, remains in effect with respect to the Dominican Republic and the Bahama Islands.

The documents listed in this paragraph are available for inspection in the office of the Chief, Planning and Negotiations Division, International Bureau, FCC, Washington, DC. Copies may be purchased from the FCC Copy Contractor, whose name may be obtained from the FCC Consumer Assistance Office.

[54 FR 39737, Sept. 28, 1989, as amended at 56 FR 64872, Dec. 12, 1991; 60 FR 5333, Jan. 27, 1995]

§ 73.1660 Acceptability of broadcast transmitters.

(a) An AM, FM or TV transmitter may be type accepted or notified upon the request of any manufacturer of transmitters following the procedures described in Part 2 of the FCC Rules. If acceptable, the transmitter will be included in the FCC's ''Radio Equipment List, Equipment Acceptable for Licensing.'' Since March 5, 1984, these transmitters have been authorized under notification.

(b) A permittee or licensee planning to install and use as a main transmitter one not included on the FCC's ''Radio Equipment List'' must obtain authority to use such a transmitter by filing for a construction permit on FCC Form 301 (FCC Form 340 for noncommercial educational stations). The application must include a complete description and circuit diagram of the transmitter, description of the carrier frequency determining circuits, complete operating parameters, and measurement data as would be requlred for a grant of type acceptance. A permittee or licensee planning to modify a transmitter which is included on the FCC's ''Radio Equipment List'' or for which an FCC Form 301 has been submitted and approved, must follow the requirements contained in § 73.1690.

(c) A transmitter which was in use prior to January 30, 1955, may continue to be used by the licensee, and successors or assignees, if it continues to comply with the technical requirements for the type of station at which it is used.

(d) AM stereophonic exciter-generators for interfacing with type accepted or notified AM transmitters may be type accepted upon request from any manufacturer by the procedures described in part 2 of the FCC Rules. Broadcast licensees may modify their type accepted AM stereophonic exciter-generators in accordance with § 73.1690.

(e) Additional rules covering type acceptance and notification, modification of authorized transmitters, and withdrawal of a grant of authorization are contained in part 2 of the FCC Rules.

[43 FR 53740, Nov. 17, 1978, as amended at 49 FR 4000, Feb. 1, 1984; 51 FR 18451, May 20, 1986; 51 FR 41629, Nov. 18, 1986; 51 FR 44478, Dec. 10, 1986]

§ 73.1665 Main transmitters.

(a) Each AM, FM and TV broadcast station must have at least one main transmitter which complies with the provisions of the transmitter technical requirements for the type and class of station. A main transmitter is one which is used for regular program service having power ratings appropriate for the authorized operating power(s).

(b) There is no maximum power rating limit for FM or TV station transmitters, however, the maximum rated transmitter power of a main transmitter installed at an AM station shall be as follows:

Authorized power	Maximum rated transmitter power (kW)
0.25, 0.5, or 1 kW	1
2.5 kW	5
5 or 10 kW	10
25 or 50 kW	50

(c) A licensee may, without further authority or notification to the FCC, replace an existing main transmitter or install additional main transmitter(s) for use with the authorized antenna if the replacement or additional transmitter(s) is type accepted or notified as shown in the FCC's ''Radio Equipment List''. Within 10 days after commencement of regular use of the replacement or additional transmitter(s), equipment performance measurements, as prescribed for the type of station are to be completed.

NOTE: Pending the availability of AM broadcast transmitters that are type-accepted for use in the 1605–1705 kHz band, transmitters that are type-accepted for use in the 535–1605 kHz band as shown on the FCC's Radio Equipment List may be utilized in the 1605–1705 kHz band if it is shown that the requirements of § 73.44 have been met. FCC approval of the manufacturer's application for type-acceptance will supersede the applicability of this note.

[43 FR 53741, Nov. 17, 1978, as amended at 47 FR 8590, Mar. 1, 1982; 47 FR 28388, June 30, 1982; 49 FR 4000, Feb. 1, 1984; 51 FR 18451, May 20, 1986; 56 FR 64872, Dec. 12, 1991]

§ 73.1670 Auxiliary transmitters.

(a) A licensee of a broadcast station may, without further authority from the FCC, install and use with the main antenna system one or more auxiliary transmitters for the following purposes:

(1) The transmission of regular programs upon failure of the main transmitter.

(2) The transmission of regular programs during maintenance or modification of the main transmitter.

(3) Emergency broadcast system operation.

(4) The transmission of regular programs by an AM station authorized for Presunrise (PSRA) and/or Postsunset (PSSA) operation.

(5) The transmission of tests to determine the operating condition of the auxiliary transmitter or auxiliary antenna.

(6) For testing, upon the request of representatives of the FCC.

(b) Authorization to install an auxiliary transmitter for use with other than the main antenna or authorized auxiliary antenna must be obtained by filing an application for a construction permit on FCC form 301 (FCC form 340 for noncommercial educational stations).

(c) The following technical and operating standards apply to auxiliary transmitters:

(1) The auxiliary transmitter may be operated on only the station's authorized frequency and within the required carrier frequency departure tolerance for the type of station.

(2) The carrier frequency of the auxiliary transmitter must be measured as often as necessary to ensure that it is maintained within the prescribed tolerance.

(3) When using an auxiliary transmitter, the operating power may be less than the authorized power but may not exceed the authorized power within the permitted tolerance for the type of station. If operation with an auxiliary transmitter at reduced power continues for a period exceeding 10 days, the FCC in Washington, DC must be notified. (See § 73.51, AM; § 73.267, FM; § 73.567, NCE–FM; and § 73.663, TV).

(4) Normal operator requirements apply to the operation of the auxiliary transmitter.

NOTE: After January 1, 1979, new licenses will not be issued nor will existing licenses be renewed for auxiliary transmitters that are operated into the main antenna system.

[43 FR 53741, Nov. 17, 1978, as amended at 44 FR 22740, Apr. 17, 1979; 48 FR 36463, Aug. 11, 1983; 48 FR 42960, Sept. 20, 1983; 48 FR 44806, Sept. 30, 1983; 50 FR 32417, Aug. 12, 1985; 51 FR 32088, Sept. 9, 1986]

§ 73.1675 Auxiliary antennas.

(a) An auxiliary antenna is one that is permanently installed and available for use when the main antenna is out

of service for repairs or replacement. An auxiliary antenna may be located at the same transmitter site as the station's main antenna or at a separate site. In either case, however, the coverage area when operating with the auxiliary antenna may not extend beyond the coverage area of the main antenna. An application for an auxiliary antenna authorization filed under the procedures given in paragraph (b) or (c) of this section must contain a map showing the following contours for both the main and auxiliary antenna radiation:

(1) *AM stations:* The 0.5 mv/m field strength contours.

(2) *FM stations:* The 1.0 mv/m field strength contours.

(3) *TV stations:* The Grade B coverage contours.

(b) An application for a construction permit to install a new auxiliary antenna, or to make changes in an existing auxiliary antenna for which prior FCC authorization is required (see § 73.1690), must be filed on FCC Form 301 (FCC Form 340 for noncommercial educational stations).

(c)(1) Where an FM or TV licensee proposes to use a formerly licensed main facility as an auxiliary facility, or proposes to modify a presently authorized auxiliary facility, and no changes in the height of the antenna radiation center are required in excess of the limits in § 73.1690(c)(1), the FM or TV licensee may apply for the proposed auxiliary facility by filing a modification of license application. The modified auxiliary facility must operate on the same channel as the licensed main facility. An exhibit must be provided with this license application to demonstrate compliance with § 73.1675(a). All FM and TV licensees may request a decrease from the authorized facility's ERP in the license application. An FM or TV licensee may also increase the ERP of the auxiliary facility in a license modification application, provided the application contains an analysis demonstrating compliance with the Commission's radiofrequency radiation guidelines, and an analysis showing that the auxiliary facility will comply with § 73.1675(a). Auxiliary facilities mounted on an AM antenna tower must also demonstrate compliance with § 73.1692 in the license application.

(2) Where an AM licensee proposes to use a former licensed main facility as an auxiliary facility with an ERP less than or equal to the ERP specified on the former main license, the AM station may apply to license the proposed auxiliary facility by filing a modification of license application on Form 302-AM. The proposed auxiliary facilities must have been previously licensed on the same frequency as the present main facility. The license application must contain an exhibit to demonstrate compliance with § 73.1675(a).

[43 FR 53741, Nov. 17, 1978, as amended at 44 FR 22740, Apr. 17, 1979; 45 FR 26066, Apr. 17, 1980; 50 FR 13974, Apr. 9, 1985; 51 FR 32088, Sept. 9, 1986; 62 FR 51060, Sept. 30, 1997]

EFFECTIVE DATE NOTE: At 62 FR 51060, Sept. 30, 1997, § 73.1675 was amended by revising paragraph (c), effective Dec. 1, 1997. For the convenience of the user, the superseded text is set forth as follows:

§ 73.1675 Auxiliary antennas.

* * * * *

(c) Authority to use a formerly licensed main antenna without changes or modifications as an auxiliary antenna may be obtained by filing FCC Form 302.

§ 73.1680 Emergency antennas.

(a) An emergency antenna is one that is erected for temporary use after the authorized main and auxiliary antennas are damaged and cannot be used.

(b) Prior authority from the FCC is not required to erect and commence using an emergency antenna to restore program service to the public. However, an informal request to continue operation with the emergency antenna must be made to the FCC in Washington, DC within 24 hours after commencement of its use. The request is to include a description of the damage to the authorized antenna, a description of the emergency antenna, and the station operating power with the emergency antenna.

(1) *AM stations.* AM stations may use a horizontal or vertical wire or a nondirectional vertical element of a directional antenna as an emergency antenna. AM stations using an emergency nondirectional antenna or a horizontal

or vertical wire pursuant to this section, in lieu or authorized directional facilities, shall operate with power reduced to 25% or less of the nominal licensed power, or, a higher power, not exceeding licensed power, while insuring that the radiated filed strength does not exceed that authorized in any given azimuth for the corresponding hours of directional operation.

(2) *FM and TV stations.* FM and TV stations may erect any suitable radiator, or use operable sections of the authorized antenna(s) as an emergency antenna.

(c) The FCC may prescribe the output power, radiation limits, or other operating conditions when using an emergency antenna, and emergency antenna authorizations may be modified or terminated in the event harmful interference is caused to other stations or services by the use of an emergency antenna.

[43 FR 53741, Nov. 17, 1978, as amended at 44 FR 22740, Apr. 17, 1979; 50 FR 30948, July 31, 1985]

§ 73.1690 Modification of transmission systems.

The following procedures and restrictions apply to licensee modifications of authorized broadcast transmission system facilities.

(a) The following changes are prohibited:

(1) Those that would result in the emission of signals outside of the authorized channel exceeding limits prescribed for the class of service.

(2) Those that would cause the transmission system to exceed the equipment performance measurements prescribed for the class of service, (AM, § 73.44; FM, §§ 73.317, 73.319, and 73.322; TV, §§ 73.682 and 73.687).

(b) The following changes may be made only after the grant of a construction permit application on FCC Form 301 for commercial stations or Form 340 for noncommercial educational stations:

(1) Any construction of a new tower structure for broadcast purposes, except for replacement of an existing tower with a new tower of identical height and geographic coordinates.

(2) Any change in station geographic coordinates, including coordinate corrections. FM and TV directional stations must also file a construction permit application for any move of the antenna to another tower structure located at the same coordinates.

(3) Any change which would require an increase along any azimuth in the composite directional antenna pattern of an FM station from the composite directional antenna pattern authorized (*see* § 73.316), or any increase from the authorized directional antenna pattern for a TV station (*see* § 73.685).

(4) Any change in the directional radiation characteristics of an AM directional antenna system. *See* § 73.45 and § 73.150.

(5) Any decrease in the authorized power of an AM station or the ERP of a TV station, or any decrease or increase in the ERP of an FM commercial station, which is intended for compliance with the multiple ownership rules in § 73.3555.

(6) For FM noncommercial educational stations, any of the following:

(i) Any increase in the authorized maximum ERP, whether horizontally or vertically polarized, for a noncommercial educational FM station operating on Channels 201 through 220, or a Class D FM station operating on Channel 200.

(ii) For those FM noncommercial educational stations on Channels 201 to 220, or a Class D FM station operating on Channel 200, which are within the separation distances specified in Table A of § 73.525 with respect to a Channel 6 television station, any increase in the horizontally or vertically polarized ERP from the presently authorized ERP.

(iii) For those FM noncommercial educational stations on Channels 201 through 220 which are located within the separation distances in § 73.525 with respect to a Channel 6 television station, or a Class D FM station operating on Channel 200, any decrease in the presently authorized horizontal effective radiated power which would eliminate the horizontal ERP to result in use of vertical ERP only.

(iv) For those FM noncommercial educational stations which employ separate antennas for the horizontal ERP

and the vertical ERP, mounted at different heights, the station may not increase or decrease either the horizontal ERP or the vertical ERP without a construction permit.

(7) Any increase in the authorized ERP of a television station, FM commercial station, or noncommercial educational FM station, except as provided for in §§ 73.1690(c)(4), (c)(5), or (c)(7), or § 73.1675(c)(1) in the case of auxiliary facilities.

(8) A commercial TV or noncommercial educational TV station operating on Channels 14 or Channel 69 may increase its horizontally or vertically polarized ERP only after the grant of a construction permit. A television station on Channels 15 through 21 within 341 km of a cochannel land mobile operation, or 225 km of a first-adjacent channel land mobile operation, must also obtain a construction permit before increasing the horizontally or vertically polarized ERP (*see* part 74, § 74.709(a) and (b) for tables of urban areas and corresponding reference coordinates of potentially affected land mobile operations).

(c) The following FM and TV station modifications may be made without prior authorization from the Commission. A modification of license application must be submitted to the Commission within 10 days of commencing program test operations pursuant to § 73.1620. With the exception of applications filed solely pursuant to Sections (c)(6), (c)(9), or (c)(10), the modification of license application must contain an exhibit demonstrating compliance with the Commission's radiofrequency radiation guidelines. In addition, except for applications solely filed pursuant to Sections (c)(6) or (c)(9), where the installation is located within 3.2 km of an AM tower or is located on an AM tower, an exhibit demonstrating compliance with § 73.1692 is also required.

(1) Replacement of an omnidirectional antenna with one of the same or different number of antenna bays, provided that the height of the antenna radiation center is not more than 2 meters above or 4 meters below the authorized values. Any concurrent change in ERP must comply with § 73.1675(c)(1), 73.1690(4), (c)(5), or (c)(7). Program test operations at the full authorized ERP may commence immediately upon installation pursuant to § 73.1620(a)(1).

(2) Replacement of a directional FM antenna, where the measured composite directional antenna pattern does not exceed the licensed composite directional pattern at any azimuth, where no change in effective radiated power will result, and where compliance with the principal coverage requirements of § 73.315(a) will be maintained by the measured directional pattern. The antenna must be mounted not more than 2 meters above or 4 meters below the authorized values. The modification of license application on Form 302-FM to cover the antenna replacement must contain all of the data in the following sections (i) through (v). Program test operations at one half (50%) power may commence immediately upon installation pursuant to § 73.1620(a)(3). However, if the replacement directional antenna is an exact replacement (i.e., no change in manufacturer, antenna model number, AND measured composite antenna pattern), program test operations may commence immediately upon installation at the full authorized power.

(i) A measured directional antenna pattern and tabulation on the antenna manufacturer's letterhead showing both the horizontally and vertically polarized radiation components and demonstrating that neither of the components exceeds the authorized composite antenna pattern along any azimuth.

(ii) Contour protection stations authorized pursuant to § 73.215 or § 73.509 must attach a showing that the RMS (root mean square) of the composite measured directional antenna pattern is 85% or more of the RMS of the authorized composite antenna pattern. *See* § 73.316(c)(9). If this requirement cannot be met, the licensee may include new relative field values with the license application to reduce the authorized composite antenna pattern so as to bring the measured composite antenna pattern into compliance with the 85 percent requirement.

(iii) A description from the manufacturer as to the procedures used to measure the directional antenna pattern. The antenna measurements must

be performed with the antenna mounted on a tower, tower section, or scale model equivalent to that on which the antenna will be permanently mounted, and the tower or tower section must include transmission lines, ladders, conduits, other antennas, and any other installations which may affect the measured directional pattern.

(iv) A certification from a licensed surveyor that the antenna has been oriented to the proper azimuth.

(v) A certification from a qualified engineer who oversaw installation of the directional antenna that the antenna was installed pursuant to the manufacturer's instructions.

(3) A directional TV station on Channels 2 through 13 or 22 through 68, or a directional TV station on Channels 15 through 21 which is in excess of 341 km (212 miles) from a cochannel land mobile operation or in excess of 225 km (140 miles) from a first-adjacent channel land mobile operation (*see* Part 74, § 74.709(a) and (b) for tables of urban areas and reference coordinates of potentially affected land mobile operations), may replace a directional TV antenna by a license modification application, if the proposed horizontal theoretical directional antenna pattern does not exceed the licensed horizontal directional antenna pattern at any azimuth and where no change in effective radiated power will result. The modification of license application on Form 302–TV must contain all of the data set forth in § 73.685(f).

(4) Commercial and noncommercial educational FM stations operating on Channels 221 through 300 (except Class D), NTSC TV stations operating on Channels 2 through 13 and 22 through 68, and TV stations operating on Channels 15 through 21 that are in excess of 341 km (212 miles) from a cochannel land mobile operation or in excess of 225 km (140 miles) from a first-adjacent channel land mobile operation [*see* Part 74, § 74.709(a) and (b) for tables of urban areas and reference coordinates of potentially affected land mobile operations], which operate omnidirectionally, may increase the vertically polarized effective radiated power up to the authorized horizontally polarized effective radiated power in a license modification application. Noncommercial educational FM licensees and permittees on Channels 201 through 220, that do not use separate antennas mounted at different heights for the horizontally polarized ERP and the vertically polarized ERP, and are located in excess of the separations from a Channel 6 television station listed in Table A of § 73.525(a)(1), may also increase the vertical ERP, up to (but not exceeding) the authorized horizontally polarized ERP via a license modification application. Program test operations may commence at full power pursuant to § 73.1620(a)(1).

(5) Those Class A FM commercial stations which were permitted to increase ERP pursuant to MM Docket No. 88–375 by a modification of license application remain eligible to do so, provided that the station meets the requirements of § 73.1690 (c)(1) and is listed on one of the Public Notices as authorized to increase ERP, or by a letter from the Commission's staff authorizing the change. These Public Notices were released on November 3, 1989; November 17, 1989; December 8, 1989; March 2, 1990; and February 11, 1991. The increased ERP must comply with the multiple ownership requirements of § 73.3555. Program test operations may commence at full power pursuant to § 73.1620(a)(1).

(6) FM contour protection stations authorized pursuant to § 73.215 which have become fully spaced under § 73.207 may file a modification of license application to delete the § 73.215 contour protection designation with an exhibit to demonstrate that the station is fully spaced in accordance with § 73.207. The contour protection designation will be removed upon grant of the license application. Applications filed under this rule section will be processed on a first come / first served basis with respect to conflicting FM commercial minor change applications and modification of license applications (including those filed pursuant to § 73.1690 (b) and (c)(6) and (c)(7)).

(7) FM omnidirectional commercial stations, and omnidirectional noncommercial educational FM stations operating on Channels 221 through 300 (except Class D), which are not designated as contour protection stations pursuant to § 73.215 and which meet the

spacing requirements of § 73.207, may file a license modification application to increase ERP to the maximum permitted for the station class, provided that any change in the height of the antenna radiation center remains in accordance with § 73.1690(c)(1). Program test operations may commence at full power pursuant to § 73.1620(a)(1). All of the following conditions also must be met before a station may apply pursuant to this section:

(i) The station may not be a ''grandfathered'' short-spaced station authorized pursuant to § 73.213 or short-spaced by a granted waiver of § 73.207;

(ii) If the station is located in or near a radio quiet zone, radio coordination zone, or a Commission monitoring station (*see* § 73.1030 and § 0.121(c)), the licensee or permittee must have secured written concurrence from the affected radio quiet zone, radio coordination zone, or the Commission's Compliance and Information Bureau in the case of a monitoring station, to increase effective radiated power PRIOR to implementation. A copy of that concurrence must be submitted with the license application to document that concurrence has been received;

(iii) The station does not require international coordination as the station does not lie within the border zones, or clearance has been obtained from Canada or Mexico for the higher power operation within the station's specified domestic class and the station complies with § 73.207(b)(2) and (3) with respect to foreign allotments and allocations;

(iv) The increased ERP will not cause the station to violate the multiple ownership requirements of § 73.3555.

(8) FM commercial stations and FM noncommercial educational stations may decrease ERP on a modification of license application provided that exhibits are included to demonstrate that all six of the following requirements are met:

(i) Commercial FM stations must continue to provide a 70 dBu principal community contour over the community of license, as required by § 73.315(a). Noncommercial educational FM stations must continue to provide a 60 dBu contour over at least a portion of the community of license. The 60 and 70 dBu contours must be predicted by use of the standard contour prediction method in § 73.313(b), (c), and (d).

(ii) For both commercial FM and noncommercial educational FM stations, the location of the main studio remains within the 70 dBu principal community contour, as required by § 73.1125, or otherwise complies with that rule. The 70 dBu contour must be predicted by use of the standard contour prediction method in § 73.313(b), (c), and (d).

(iii) For commercial FM stations only, there is no change in the authorized station class as defined in § 73.211.

(iv) For commercial FM stations only, the power decrease is not necessary to achieve compliance with the multiple ownership rule, § 73.3555.

(v) Commercial FM stations, noncommercial educational FM stations on Channels 221 through 300, and noncommercial educational FM stations on Channels 200 through 220 which are located in excess of the distances in Table A of § 73.525 with respect to a Channel 6 TV station, may not use this rule to decrease the horizontally polarized ERP below the value of the vertically polarized ERP.

(vi) Noncommercial educational FM stations on Channels 201 through 220 which are within the Table A distance separations of § 73.525, or Class D stations on Channel 200, may not use the license modification process to eliminate an authorized horizontally polarized component in favor of vertically polarized-only operation. In addition, noncommercial educational stations operating on Channels 201 through 220, or Class D stations on Channel 200, which employ separate horizontally and vertically polarized antennas mounted at different heights, may not use the license modification process to increase or decrease either the horizontal ERP or vertical ERP without a construction permit.

(9) The licensee of an AM, FM, or TV commercial station may propose to change from commercial to noncommercial educational on a modification of license application, provided that the application contains completed Sections II and IV of FCC Form

340. In addition, a noncommercial educational AM licensee, a TV licensee on a channel not reserved for noncommercial educational use, or an FM licensee on Channels 221 to 300 (except Class D FM) on a channel not reserved for noncommercial educational use, may apply to change from educational to commercial via a modification of license application, and no exhibits are required with the application. The change will become effective upon grant of the license application.

(10) Replacement of a transmission line with one of a different type or length which changes the transmitter operating power (TPO) from the authorized value, but not the ERP, must be reported in a license modification application to the Commission.

(d) The following changes may be made without authorization from the FCC, however informal notification of the changes must be made according to the rule sections specified:

(1) Change in studio location within the principal community contour. See § 73.1125.

(2) Commencement of remote control operation pursuant to §§ 73.1400 and 73.1410.

(3) Modification of an AM directional antenna sampling system. See § 73.68.

(e) Any electrical and mechanical modification to authorized transmitting equipment that is not otherwise restricted by the preceding provisions of this section, may be made without FCC notification or authorization. Equipment performance measurements must be made within ten days after completing the modifications (See § 73.1590). An informal statement, diagram, etc., describing the modification must be retained at the transmitter site for as long as the equipment is in use.

[47 FR 8590, Mar. 1, 1982]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 73.1690, see the List of CFR Sections Affected in the Finding Aids section of this volume.

EFFECTIVE DATE NOTE: At 62 FR 51060, Sept. 30, 1997, § 73.1690 was amended by revising paragraphs (b) and (c), effective Dec. 1, 1997. For the convenience of the user, the superseded text is set forth as follows:

§ 73.1690 Modification of transmission systems.

* * * * *

(b) The following changes may be made only upon specific authority of the FCC. Applications requesting authorization must be filed on FCC Form 301 for commercial stations and on FCC Form 340 for noncommercial educational stations.

(1) Any change in the location, or directional radiation characteristics of a directional antenna system. (See § 73.45 and § 73.150, AM; § 73.316, FM; or § 73.685, TV.)

(2) Change in the operating power from that specified on the station authorization, except as provided in paragraph (c)(4) of this section.

(3) Change in location of the main studio to a location outside the station's principal community contour, except as provided for in § 73.1125.

(c) The following FM and TV station modifications may be made and operation commenced without prior authorization from the FCC, provided that the modifications would not possibly affect the operation of any co-located or nearby AM station. An application for license modification must be filed on FCC Form 302 within 10 days following completion of the changes. Equipment performance measurements are not required for applications covering changes described in paragraphs (c) (1) and (2) of this section.

(1) Replacement of a non-directional antenna with one of the same or different type or number of bays, provided that the height above ground of the center of radiation is within 2 meters of that specified in the station authorization, the parameters are within that permitted by its class designation, and there is no change in the maximum effective radiated power.

(2) Installation of a transmission line with one of a different type or length which requires change in the transmitter output power to maintain the licensed effective radiated power.

(3) Installation of harmonic filters, sideband filters or diplexers of a different type which requires a change in the transmitter output power to maintain the licensed effective radiated power.

(4) On or after December 1, 1989, increase in the effective radiated power of eligible Class A FM stations pursuant to MM Docket 88–375, when such increase is effected by:

(i) Replacement of a non-directional antenna with another non-directional antenna having higher gain, provided that the height above ground of the center of radiation is within ±2 meters of that specified in the station authorization; and/or

(ii) Increase in the power input to the antenna, as a result of adjustment of the transmitter output power, change in the type or

length of the transmission line, and/or installation of filters or diplexers.

NOTE: Class A stations eligible for a power increase pursuant to paragraph (c)(4) are those which appear on a list issued by the Commission in November 1989.

* * * * *

§ 73.1692 Broadcast station construction near or installation on an AM broadcast tower.

Where a broadcast licensee or permittee proposes to mount a broadcast antenna on an AM station tower, or where construction is proposed within 0.8 km of an AM nondirectional tower or within 3.2 km of an AM directional station, the broadcast licensee or permittee is responsible for ensuring that the construction does not adversely affect the AM station, as follows:

(a) *Installations on an AM nondirectional tower.* During installation of the broadcast antenna and related equipment, the AM station shall determine operating power by the indirect method (*see* § 73.51). Upon the completion of the installation, antenna impedance measurements on the AM antenna shall be made, and, prior to or simultaneously with the filing of the license application covering the broadcast station installation, an application on FCC Form 302–AM (including a tower sketch of the installation) shall be filed with the Commission for the AM station to return to direct power measurement.

(b) *Installations on an AM directional array.* Prior to commencing construction, the broadcast permittee or licensee shall notify the AM station so that, if necessary, the AM station may determine operating power by the indirect method (*see* § 73.51) and request special temporary authority pursuant to § 73.1635 to operate with parameters at variance in order to maintain monitoring point field strengths within authorized limits. Both prior to the commencement of construction and upon completion of construction, a partial proof of performance (as defined by § 73.154) shall be conducted to establish that the AM array has not been adversely affected. Prior to or simultaneously with filing of the license application to cover the broadcast station construction, the results of the partial proof of performance shall be filed with the Commission on Form 302–AM.

(c) *Tower erections or modifications within 0.8 km of an AM nondirectional tower.* Prior to commencing the construction of tower modifications, or the erection of a new tower, within 0.8 km of an AM nondirectional tower, the broadcast permittee or licensee is required to notify the AM station so that the AM station may commence determining operating power by the indirect method (*see* § 73.51). The broadcast licensee or permittee shall be responsible for the installation and continued maintenance of detuning apparatus necessary to prevent adverse effects on the radiation pattern of the AM station. Both prior to construction of the tower modifications and upon completion of construction, antenna impedance measurements of the AM station shall be made. In addition, sufficient field strength measurements taken at a minimum of 10 locations along each of 8 equally spaced radials, shall be made to establish that the AM radiation pattern is essentially omnidirectional. Prior or simultaneously with the filing of the application for license to cover this permit, the results of the impedance measurements and the field strength measurements shall be filed with the Commission on FCC Form 302–AM for the AM station to return to the direct method of power determination.

(d) *Tower erections or modifications within 3.2 km of an AM directional station.* Prior to commencing construction of tower modifications, or the erection of a new tower structure, within 3.2 km of an AM directional array, the broadcast permittee or licensee shall notify the AM station so that, if necessary, the AM station may determine operating power by the indirect method (*see* § 73.51) and request special temporary authority pursuant to § 73.1635 to operate with parameters at variance in order to maintain monitoring point field strengths within authorized limits. The broadcast licensee or permittee shall be responsible for the installation and continued maintenance of detuning apparatus necessary to prevent adverse effects upon the radiation pattern of the AM station. Both prior to the commencement of construction

and upon completion of construction, a partial proof of performance (as defined by § 73.154) shall be conducted to establish that the AM array has not been adversely affected. Prior to or simultaneously with filing of the license application to cover the broadcast station construction, the results of the partial proof of performance shall be filed with the Commission on Form 302–AM.

[62 FR 51062, Sept. 30, 1997]

EFFECTIVE DATE NOTE: At 62 FR 51062, Sept. 30, 1997, § 73.1692 was added, effective Dec. 1, 1997.

§ 73.1695 Changes in transmission standards.

The FCC will consider the question whether a proposed change or modification of transmission standards adopted for broadcast stations would be in the public interest, convenience, and necessity, upon petition being filed by the person proposing such change or modification, setting forth the following:

(a) The exact character of the change or modification proposed;

(b) The effect of the proposed change or modification upon all other transmission standards that have been adopted by the FCC for broadcast stations;

(c) The experimentation and field tests that have been made to show that the proposed change or modification accomplishes an improvement and is technically feasible;

(d) The effect of the proposed change or modification in the adopted standards upon operation and obsolescence of receivers;

(1) Should a change of modification in the transmission standards be adopted by the FCC, the effective date thereof will be determined in the light of the considerations mentioned in this paragraph (d);

(2) [Reserved]

(e) The change in equipment required in existing broadcast stations for incorporating the proposed change or modification in the adopted standards; and

(f) The facts and reasons upon which the petitioner bases the conclusion that the proposed change or modification would be in the public interest, convenience, and necessity.

[49 FR 4211, Feb. 3, 1984]

§ 73.1700 Broadcast day.

The term *broadcast day* means that period of time between the station's sign-on and its sign-off.

[43 FR 45849, Oct. 4, 1978]

§ 73.1705 Time of operation.

(a) Commercial and noncommercial educational TV and commercial FM stations will be licensed for unlimited time operation. Application may be made for voluntary share-time operation.

(b) Noncommercial educational FM stations will be licensed for unlimited and share time operation according to the provisions of § 73.561.

(c) AM stations in the 535–1705 kHz band will be licensed for unlimited time. In the 535–1605 kHz band, stations that apply for share time and specified hours operations may also be licensed. AM stations licensed to operate daytime-only and limited-time may continue to do so; however, no new such stations will be authorized, except for fulltime stations that reduce operating hours to daytime-only for interference reduction purposes.

[43 FR 45849, Oct. 4, 1978, as amended at 56 FR 64872, Dec. 12, 1991]

§ 73.1710 Unlimited time.

Operation is permitted 24 hours a day.

[43 FR 45849, Oct. 4, 1978]

§ 73.1715 Share time.

Operation is permitted by two or more broadcast stations using the same channel in accordance with a division of hours mutually agreed upon and considered part of their licenses.

(a) If the licenses of stations authorized to share time do not specify hours of operation, the licensees shall endeavor to reach an agreement for a definite schedule of periods of time to be used by each. Such agreement shall be in writing and each licensee shall file it in duplicate original with each application to the FCC in Washington, DC for renewal of license. If and when

such written agreements are properly filed in conformity with this Section, the file mark of the FCC will be affixed thereto, one copy will be retained by the FCC, and one copy returned to the licensee to be posted with the station license and considered as a part thereof. If the license specifies a proportionate time division, the agreement shall maintain this proportion. If no proportionate time division is specified in the license, the licensees shall agree upon a division of time. Such division of time shall not include simultaneous operation of the stations unless specifically authorized by the terms of the license.

(b) If the licensees of stations authorized to share time are unable to agree on a division of time, the FCC in Washington, DC shall be so notified by a statement filed with the applications for renewal of licenses. Upon receipt of such statement, the FCC will designate the applications for a hearing and, pending such hearing, the operating schedule previously adhered to shall remain in full force and effect.

(c) A departure from the regular schedule in a time-sharing agreement will be permitted only in cases where an agreement to that effect is put in writing, is signed by the licensees of the stations affected thereby and filed in triplicate by each licensee with the FCC in Washington, DC prior to the time of the time of the proposed change. If time is of the essence, the actual departure in operating schedule may precede the actual filing of written agreement, provided appropriate notice is sent to the FCC.

(d) If the license of an AM station authorized to share time does not specify the hours of operation, the station may be operated for the transmission of regular programs during the experimental period provided an agreement thereto is reached with the other stations with which the broadcast day is shared: *And further provided,* Such operation is not in conflict with § 73.72 (Operating during the experimental period). Time-sharing agreements for operation during the experimental period need not be submitted to the FCC.

(e) Noncommercial educational FM stations are authorized for share time operation according to the provisions of § 73.561.

[43 FR 45849, Oct. 4, 1978, as amended at 47 FR 40174, Sept. 13, 1982]

§ 73.1720 Daytime.

Operation is permitted during the hours between average monthly local sunrise and average monthly local sunset.

(a) The controlling times for each month of the year are stated in the station's instrument of authorization. Uniform sunrise and sunset times are specified for all of the days of each month, based upon the actual times of sunrise and sunset for the fifteenth day of the month adjusted to the nearest quarter hour. Sunrise and sunset times are derived by using the standardized procedure and the tables in the 1946 American Nautical Almanac issued by the United States Naval Observatory.

(b) [Reserved]

[43 FR 45849, Oct. 4, 1978]

§ 73.1725 Limited time.

(a) Operation is applicable only to Class B (secondary) AM stations on a clear channel with facilities authorized before November 30, 1959. Operation of the secondary station is permitted during daytime and until local sunset if located west of the Class A station on the channel, or until local sunset at the Class A station if located east of that station. Operation is also permitted during nighttime hours not used by the Class A station or other stations on the channel.

(b) No authorization will be granted for:

(1) A new limited time station;

(2) A limited time station operating on a changed frequency;

(3) A limited time station with a new transmitter site materially closer to the 0.1 mV/m contour of a co-channel U.S. Class A station; or

(4) Modification of the operating facilities of a limited time station resulting in increased radiation toward any point on the 0.1 mV/m contour of a co-channel U.S. Class A station during the hours after local sunset in which the limited time station is permitted to operate by reason of location east of the Class A station.

(c) The licensee of a secondary station which is authorized to operate limited time and which may resume operation at the time the Class A station (or stations) on the same channel ceases operation shall, with each application for renewal of license, file in triplicate a copy of its regular operating schedule. It shall bear a signed notation by the licensee of the Class A station of its objection or lack of objection thereto. Upon approval of such operating schedule, the FCC will affix its file mark and return one copy to the licensee authorized to operate limited time. This shall be posted with the station license and considered as a part thereof. Departure from said operating schedule will be permitted only pursuant to § 73.1715 (Share time).

[56 FR 64872, Dec. 12, 1991]

§ 73.1730 Specified hours.

(a) Specified hours stations must operate in accordance with the exact hours specified in their license. However, such stations, operating on local channels, unless sharing time with other stations, may operate at hours beyond those specified in their licenses to carry special events programing. When such programs are carried during nighttime hours, the station's authorized nighttime facilities must be used.

(b) Other exceptions to the adherence to the schedule of specified hours of operation are provided in § 73.72 (Operating during the experimental period), § 73.1250 (Broadcasting emergency information) and § 73.1740 (Minimum operating schedule).

[43 FR 45850, Oct. 4, 1978]

§ 73.1735 AM station operation pre-sunrise and post-sunset.

Certain classes of AM stations are eligible to operate pre-sunrise and/or post-sunset for specified periods with facilities other than those specified on their basic instruments of authorization. Such pre-sunrise and post-sunset operation is authorized pursuant to the provisions of § 73.99 of the Rules.

[49 FR 41249, Oct. 22, 1984]

§ 73.1740 Minimum operating schedule.

(a) All commercial broadcast stations are required to operate not less than the following minimum hours:

(1) *AM and FM stations.* Two-thirds of the total hours they are authorized to operate between 6 a.m. and 6 p.m. local time and two-thirds of the total hours they are authorized to operate between 6 p.m. and midnight, local time, each day of the week except Sunday.

(i) Class D stations which have been authorized nighttime operations need comply only with the minimum requirements for operation between 6 a.m. and 6 p.m., local time.

(2) *TV stations.* (i) During the first 36 months of operation, not less than 2 hours daily in any 5 broadcast days per calendar week and not less than a total of:

(A) 12 hours per week during the first 18 months.

(B) 16 hours per week during the 19th through 24th months.

(C) 20 hours per week during the 25th through 30th months.

(D) 24 hours per week during the 31st through 36th months.

(ii) After 36 months of operation, not less than 2 hours in each day of the week and not less than a total of 28 hours per calendar week.

(iii) Visual transmissions of test patterns, slides, or still pictures accompanied by unrelated aural transmissions may not be counted in computing program service (see § 73.653).

(3) ''Operation'' includes the period during which the station is operated pursuant to temporary authorization or program tests, as well as during the license period.

(4) In the event that causes beyond the control of a licensee make it impossible to adhere to the operating schedule of this section or to continue operating, the station may limit or discontinue operation for a period of not more than 30 days without further authority from the FCC. Notification must be sent to the FCC in Washington, D.C. not later than the 10th day of limited or discontinued operation. During such period, the licensee shall continue to adhere to the requirements in the station license pertaining to the lighting of antenna structures. In the

event normal operation is restored prior to the expiration of the 30 day period, the licensee will so notify the FCC of this date. If the causes beyond the control of the licensee make it impossible to comply within the allowed period, informal written request shall be made to the FCC no later than the 30th day for such additional time as may be deemed necessary.

(b) Noncommercial educational AM and TV stations are not required to operate on a regular schedule and no minimum hours of operation are specified; but the hours of actual operation during a license period shall be taken into consideration in the renewal of noncommercial educational AM and TV broadcast licenses. Noncommercial educational FM stations are subject to the operating schedule requirements according to the provisions of § 73.561.

(c) The license of any broadcasting station that fails to transmit broadcast signals for any consecutive 12-month period expires as a matter of law at the end of that period, notwithstanding any provision, term, or condition of the license to the contrary.

[43 FR 45850, Oct. 4, 1978, as amended at 53 FR 1032, Jan. 15, 1988; 56 FR 64873, Dec. 12, 1991; 61 FR 28767, June 6, 1996]

§ 73.1745 Unauthorized operation.

(a) No broadcast station shall operate at times, or with modes or power, other than those specified and made a part of the license, unless otherwise provided in this part.

(b) Any unauthorized departure from an operating schedule which is required to be filed with the FCC in Washington, DC, will be considered as a violation of a material term of the license.

[43 FR 45850, Oct. 4, 1978]

§ 73.1750 Discontinuance of operation.

The licensee of each station shall notify the FCC in Washington, DC of permanent discontinuance of operation at least two days before operation is discontinued. Immediately after discontinuance of operation, the licensee shall forward the station license and other instruments of authorization to the FCC, Washington, DC for cancellation. The license of any broadcasting station that fails to transmit broadcast signals for any consecutive 12-month period expires as a matter of law at the end of that period, notwithstanding any provision, term, or condition of the license to the contrary. If a licensee surrenders its license pursuant to an interference reduction arrangement, and its surrender is contingent upon the grant of another application, the licensee surrendering the license must identify in its notification the contingencies involved.

[47 FR 40175, Sept. 13, 1982, as amended at 61 FR 28767, June 6, 1996; 61 FR 46563, Sept. 4, 1996]

§ 73.1800 General requirements related to the station log.

(a) The licensee of each station must maintain a station log as required by § 73.1820. This log shall be kept by station employees competent to do so, having actual knowledge of the facts required. All entries, whether required or not by the provisions of this part, must accurately reflect the station operation. Any employee making a log entry shall sign the log, thereby attesting to the fact that the entry, or any correction or addition made thereto, is an accurate representation of what transpired.

(b) The logs shall be kept in an orderly and legible manner, in suitable form and in such detail that the data required for the particular class of station concerned are readily available. Key letters or abbreviations may be used if the proper meaning or explanation is contained elsewhere in the log. Each sheet must be numbered and dated. Time entries must be made in local time and must be indicated as advanced (*e.g.*, EDT) or non-advanced (*e.g.*, EST) time.

(c) Any necessary corrections of a manually kept log after it has been signed in accordance with paragraph (a) of this section shall be made only by striking out the erroneous portion and making a corrective explanation on the log or attachment to it. Such corrections shall be dated and signed by the person who kept the log or the station chief operator, the station manager or an officer of the licensee.

(d) No automatically kept log shall be altered in any way after entries have been recorded. When automatic

logging processes fail or malfunction, the log must be kept manually for that period and in accordance with the requirements of this section.

(e) No log, or portion thereof, shall be erased, obliterated or willfully destroyed during the period in which it is required to be retained. (Section 73.1840, Retention of logs.)

(f) Application forms for licenses and other authorizations may require that certain technical operating data be supplied. These application forms should be kept in mind in connection with the maintenance of the station log.

[43 FR 45850, Oct. 4, 1978, as amended at 48 FR 38481, Aug. 24, 1983; 48 FR 44806, Sept. 30, 1983; 49 FR 14509, Apr. 12, 1984; 49 FR 33663, Aug. 24, 1984; 50 FR 40016, Oct. 1, 1985]

§ 73.1820 Station log.

(a) Entries must be made in the station log either manually by a person designated by the licensee who is in actual charge of the transmitting apparatus, or by automatic devices meeting the requirements of paragraph (b) of this section. Indications of operating parameters that are required to be logged must be logged prior to any adjustment of the equipment. Where adjustments are made to restore parameters to their proper operating values, the corrected indications must be logged and accompanied, if any parameter deviation was beyond a prescribed tolerance, by a notation describing the nature of the corrective action. Indications of all parameters whose values are affected by the modulation of the carrier must be read without modulation. The actual time of observation must be included in each log entry. The following information must be entered:

(1) *All stations:* (i) Entries required by § 17.49 of this chapter concerning any observed or otherwise known extinguishment or improper functioning of a tower light:

(A) The nature of such extinguishment or improper functioning.

(B) The date and time the extinguishment or improper operation was observed or otherwise noted.

(C) The date, time and nature of adjustments, repairs or replacements made.

(ii) Any entries not specifically required in this section, but required by the instrument of authorization or elsewhere in this part.

(iii) An entry of each test and activation of the Emergency Alert System (EAS) pursuant to the requirement of part 11 of this chapter and the EAS Operating Handbook. Stations may keep EAS data in a special EAS log which shall be maintained at a convenient location; however, this log is considered a part of the station log.

(2) *Directional AM stations without an FCC–approved antenna sampling system* (See § 73.68): (i) An entry at the beginning of operations in each mode of operation, and thereafter at intervals not exceeding 3 hours, of the following (actual readings observed prior to making any adjustments to the equipment and an indication of any corrections to restore parameters to normal operating values):

(A) Common point current.

(B) When the operating power is determined by the indirect method, the efficiency factor F and either the product of the final amplifier input voltage and current or the calculated antenna input power. See § 73.51(e).

(C) Antenna monitor phase or phase deviation indications.

(D) Antenna monitor sample currents, current ratios, or ratio deviation indications.

(ii) Entries required by § 73.61 performed in accordance with the schedule specified therein.

(iii) Entries of the results of calibration of automatic logging devices (see paragraph (b) of this section) or indicating instruments (see § 73.67), whenever performed.

(b) Automatic devices accurately calibrated and with appropriate time, date and circuit functions may be utilized to record entries in the station log *Provided:*

(1) The recording devices do not affect the operation of circuits or accuracy of indicating instruments of the equipment being recorded;

(2) The recording devices have an accuracy equivalent to the accuracy of the indicating instruments;

(3) The calibration is checked against the original indicators as often as necessary to ensure recording accuracy;

(4) In the event of failure or malfunctioning of the automatic equipment, the person designated by the licensee as being responsible for the log small make the required entries in the log manually at that time;

(5) The indicating equipment conforms to the requirements of § 73.1215 (Indicating instruments—specifications) except that the scales need not exceed 5 cm (2 inches) in length. Arbitrary scales may not be used.

(c) In preparing the station log, original data may be recorded in rough form and later transcribed into the log.

[43 FR 45854, Oct. 4, 1978, as amended at 44 FR 58735, Oct. 11, 1979; 47 FR 24580, June 7, 1982; 48 FR 38481, Aug. 24, 1983; 48 FR 44806, Sept. 30, 1983; 49 FR 33603, Aug. 23, 1984; 58 FR 44951, Aug. 25, 1993; 59 FR 67102, Dec. 28, 1994; 60 FR 55482, Nov. 1, 1995]

§ 73.1835 Special technical records.

The FCC may require a broadcast station licensee to keep operating and maintenance records as necessary to resolve conditions of actual or potential interference, rule violations, or deficient technical operation.

[48 FR 38482, Aug. 24, 1983]

§ 73.1840 Retention of logs.

(a) Any log required to be kept by station licensees shall be retained by them for a period of 2 years. However, logs involving communications incident to a disaster or which include communications incident to or involved in an investigation by the FCC and about which the licensee has been notified, shall be retained by the licensee until specifically authorized in writing by the FCC to destroy them. Logs incident to or involved in any claim or complaint of which the licensee has notice shall be retained by the licensee until such claim or complaint has been fully satisfied or until the same has been barred by statute limiting the time for filing of suits upon such claims.

(b) Logs may be retained on microfilm, microfiche or other data-storage systems subject to the following conditions:

(1) Suitable viewing—reading devices shall be available to permit FCC inspection of logs pursuant to § 73.1226, availability to FCC of station logs and records.

(2) Reproduction of logs, stored on data-storage systems, to full-size copies, is required of licensees if requested by the FCC or the public as authorized by FCC rules. Such reproductions must be completed within 2 full work days of the time of the request.

(3) Corrections to logs shall be made:

(i) Prior to converting to a data-storage system pursuant to the requirements of § 73.1800 (c) and (d), (§ 73.1800, General requirements relating to logs).

(ii) After converting to a data-storage system, by separately making such corrections and then associating with the related data-stored logs. Such corrections shall contain sufficient information to allow those reviewing the logs to identify where corrections have been made, and when and by whom the corrections were made.

(4) Copies of any log required to be filed with any application; or placed in the station's local public inspection file as part of an application; or filed with reports to the FCC must be reproduced in fullsize form when complying with these requirements.

[45 FR 41151, June 18, 1980, as amended at 46 FR 13907, Feb. 24, 1981; 46 FR 18557, Mar. 25, 1981; 49 FR 33663, Aug. 24, 1984]

§ 73.1870 Chief operators.

(a) The licensee of each AM, FM, or TV broadcast station must designate a person to serve as the station's chief operator. At times when the chief operator is unavailable or unable to act (*e.g.*, vacations, sickness), the licensee shall designate another person as the acting chief operator on a temporary basis.

(b) Chief operators shall be employed or serve on the following basis:

(1) The chief operator for an AM station using a directional antenna or operating with greater than 10 kW authorized power, or of a TV station is to be an employee of the station on duty for whatever number of hours each week the station licensee determines is necessary to keep the station's technical operation in compliance with FCC rules and the terms of the station authorization.

(2) Chief operators for non-directional AM stations operating with authorized powers not exceeding 10 kW and FM stations may be either an employee of the station or engaged to serve on a contract basis for whatever number of hours each week the licensee determines is necessary to keep the station's technical operation in compliance with the FCC rules and terms of the station authorization.

(3) The designation of the chief operator must be in writing with a copy of the designation posted with the station license. Agreements with chief operators serving on a contract basis must be in writing with a copy kept in the station files.

(c) The chief operator is responsible for completion of the following duties specified in this paragraph below. When these duties are delegated to other persons, the chief operator shall maintain supervisory oversight sufficient to know that each requirement has been fulfilled in a timely and correct manner.

(1) Inspections and calibrations of the transmission system, required monitors, metering and control systems; and any necessary repairs or adjustments where indicated. (See § 73.1580.)

(2) Periodic AM field monitoring point measurements, equipment performance measurements, or other tests as specified in the rules or terms of the station license.

(3) Review of the station records at least once each week to determine if required entries are being made correctly. Additionally, verification must be made that the station has been operated as required by the rules or the station authorization. Upon completion of the review, the chief operator or his designee must date and sign the log, initiate any corrective action which may be necessary, and advise the station licensee of any condition which is repetitive.

(4) Any entries which may be required in the station records. (See § 73.1820.)

[46 FR 35463, July 8, 1981, as amended at 47 FR 31580, July 21, 1982; 48 FR 38482, Aug. 24, 1983; 48 FR 44806, Sept. 30, 1983; 49 FR 20670, May 16, 1984; 49 FR 50048, Dec. 26, 1984; 50 FR 32416, Aug. 12, 1985; 60 FR 55482, Nov. 1, 1995]

§ 73.1910 Fairness Doctrine.

The Fairness Doctrine is contained in section 315(a) of the Communications Act of 1934, as amended, which provides that broadcasters have certain obligations to afford reasonable opportunity for the discussion of conflicting views on issues of public importance. See FCC public notice ''Fairness Doctrine and the Public Interest Standards,'' 39 FR 26372. Copies may be obtained from the FCC upon request.

[43 FR 45856, Oct. 4, 1978]

§ 73.1920 Personal attacks.

(a) When, during the presentation of views on a controversial issue of public importance, an attack is made upon the honesty, character, integrity or like personal qualities of an identified person or group, the licensee shall, within a reasonable time and in no event later than one week after the attack, transmit to the persons or group attacked:

(1) Notification of the date, time and identification of the broadcast;

(2) A script or tape (or an accurate summary if a script or tape is not available) of the attack; and

(3) An offer of a reasonable opportunity to respond over the licensee's facilities.

(b) The provisions of paragraph (a) of this section shall not apply to broadcast material which falls within one or more of the following categories:

(1) Personal attacks on foreign groups or foreign public figures;

(2) Personal attacks occurring during uses by legally qualified candidates.

(3) Personal attacks made during broadcasts not included in paragraph (b)(2) of this section and made by legally qualified candidates, their authorized spokespersons, or those associated with them in the campaign, on other such candidates, their authorized spokespersons or persons associated with the candidates in the campaign; and

(4) Bona fide newscasts, bona fide news interviews, and on-the-spot coverage of bona fide news events, including commentary or analysis contained in the foregoing programs.

(c) The provisions of paragraph (a) of this section shall be applicable to editorials of the licensee, except in the case of noncommercial educational stations since they are precluded from editorializing (section 399(a), Communications Act).

[43 FR 45856, Oct. 4, 1978, as amended at 44 FR 45956, Aug. 6, 1979]

§ 73.1930 Political editorials.

(a) Where a licensee, in an editorial,

(1) Endorses or,

(2) Opposes a legally qualified candidate or candidates, the licensee shall, with 24 hours after the editorial, transmit to, respectively,

(i) The other qualified candidate or candidates for the same office or,

(ii) The candidate opposed in the editorial,

(A) Notification of the date and the time of the editorial,

(B) A script or tape of the editorial and

(C) An offer of reasonable opportunity for the candidate or a spokesman of the candidate to respond over the licensee's facilities. Where such editorials are broadcast on the day of the election or within 72 hours prior to the day of the election, the licensee shall comply with the provisions of this paragraph sufficiently far in advance of the broadcast to enable the candidate or candidates to have a reasonable opportunity to prepare a response and to present it in a timely fashion.

(b) Inasmuch as noncommercial educational stations may not engage in editorializing nor may support nor oppose any candidate for political office (section 399, Communications Act), the provisions of paragraph (a) of this section, do not apply to such stations.

[43 FR 45856, Oct. 4, 1978, as amended at 47 FR 3791, Jan. 27, 1982; 51 FR 9965, Mar. 24, 1986]

§ 73.1940 Legally qualified candidates for public office.

(a) A legally qualified candidate for public office is any person who:

(1) Has publicly announced his or her intention to run for nomination or office;

(2) Is qualified under the applicable local, State or Federal law to hold the office for which he or she is a candidate; and

(3) Has met the qualifications set forth in either paragraph (b), (c), (d), or (e) of this section.

(b) A person seeking election to any public office including that of President or Vice President of the United States, or nomination for any public office except that of President or Vice President, by means of a primary, general or special election, shall be considered a legally qualified candidate if, in addition to meeting the criteria set forth in paragraph (a) of this section, that person:

(1) Has qualified for a place on the ballot; or

(2) Has publicly committed himself or herself to seeking election by the write-in method and is eligible under applicable law to be voted for by sticker, by writing in his or her name on the ballot or by other method, and makes a substantial showing that he or she is a bona fide candidate for nomination or office.

(c) A person seeking election to the office of President or Vice President of the United States shall, for the purposes of the Communications Act and the rules in 47 CFR chapter I, be considered legally qualified candidates only in those States or territories (or the District of Columbia) in which they have met the requirements set forth in paragraphs (a) and (b) of this section: Except, that any such person who has met the requirements set forth in paragraphs (a) and (b) of this section in at least 10 States (or 9 and the District of Columbia) shall be considered a legally qualified candidate for election in all States, territories, and the District of Columbia for the purposes of this Act.

(d) A person seeking nomination to any public office, except that of President or Vice President of the United States, by means of a convention, caucus or similar procedure, shall be considered a legally qualified candidate if, in addition to meeting the requirements set forth in paragraph (a) of this section, that person makes a substantial showing that he or she is a bona fide candidate for such nomination: Except, that no person shall be considered a legally qualified candidate for nomination by the means set forth in this

paragraph prior to 90 days before the beginning of the convention, caucus or similar procedure in which he or she seeks nomination.

(e) A person seeking nomination for the office of President or Vice President of the United States shall, for the purposes of the Communications Act and the rules thereunder, be considered a legally qualified candidate only in those States or territories (or the District of Columbia) in which, in addition to meeting the requirements set forth in paragraph (a) of this section:

(1) He or she, or proposed delegates on his or her behalf, have qualified for the primary or Presidential preference ballot in that State, territory or the District of Columbia; or

(2) He or she has made a substantial showing of a bona fide candidacy for such nomination in that State, territory or the District of Columbia; except, that any such person meeting the requirements set forth in paragraphs (a)(1) and (2) of this section in at least 10 States (or 9 and the District of Columbia) shall be considered a legally qualified candidate for nomination in all States, territories and the District of Columbia for purposes of this Act.

(f) The term ''substantial showing'' of a bona fide candidacy as used in paragraphs (b), (d) and (e) of this section means evidence that the person claiming to be a candidate has engaged to a substantial degree in activities commonly associated with political campaigning. Such activities normally would include making campaign speeches, distributing campaign literature, issuing press releases, maintaining a campaign committee, and establishing campaign headquarters (even though the headquarters in some instances might be the residence of the candidate or his or her campaign manager). Not all of the listed activities are necessarily required in each case to demonstrate a substantial showing, and there may be activities not listed herein which would contribute to such a showing.

[57 FR 27708, June 22, 1992]

§ 73.1941 Equal opportunities.

(a) *General requirements.* Except as otherwise indicated in § 73.1944, no station licensee is required to permit the use of its facilities by any legally qualified candidate for public office, but if any licensee shall permit any such candidate to use its facilities, it shall afford equal opportunities to all other candidates for that office to use such facilities. Such licensee shall have no power of censorship over the material broadcast by any such candidate. Appearance by a legally qualified candidate on any:

(1) Bona fide newscast;

(2) Bona fide news interview;

(3) Bona fide news documentary (if the appearance of the candidate is incidental to the presentation of the subject or subjects covered by the news documentary); or

(4) On-the-spot coverage of bona fide news events (including, but not limited to political conventions and activities incidental thereto) shall not be deemed to be use of broadcasting station. (section 315(a) of the Communications Act.)

(b) *Uses.* As used in this section and § 73.1942, the term ''use'' means a candidate appearance (including by voice or picture) that is not exempt under paragraphs 73.1941 (a)(1) through (a)(4) of this section.

(c) *Timing of request.* A request for equal opportunities must be submitted to the licensee within 1 week of the day on which the first prior use giving rise to the right of equal opportunities occurred: Provided, however, That where the person was not a candidate at the time of such first prior use, he or she shall submit his or her request within 1 week of the first subsequent use after he or she has become a legally qualified candidate for the office in question.

(d) *Burden of proof.* A candidate requesting equal opportunities of the licensee or complaining of noncompliance to the Commission shall have the burden of proving that he or she and his or her opponent are legally qualified candidates for the same public office.

(e) *Discrimination between candidates.* In making time available to candidates for public office, no licensee shall make any discrimination between candidates in practices, regulations, facilities, or services for or in connection with the service rendered pursuant to this part,

or make or give any preference to any candidate for public office or subject any such candidate to any prejudice or disadvantage; nor shall any licensee make any contract or other agreement which shall have the effect of permitting any legally qualified candidate for any public office to broadcast to the exclusion of other legally qualified candidates for the same public office.

[57 FR 208, Jan. 3, 1992, as amended at 59 FR 14568, Mar. 29, 1994]

§ 73.1942 Candidate rates.

(a) Charges for use of stations. The charges, if any, made for the use of any broadcasting station by any person who is a legally qualified candidate for any public office in connection with his or her campaign for nomination for election, or election, to such office shall not exceed:

(1) During the 45 days preceding the date of a primary or primary runoff election and during the 60 days preceding the date of a general or special election in which such person is a candidate, the lowest unit charge of the station for the same class and amount of time for the same period.

(i) A candidate shall be charged no more per unit than the station charges its most favored commercial advertisers for the same classes and amounts of time for the same periods. Any station practices offered to commercial advertisers that enhance the value of advertising spots must be disclosed and made available to candidates on equal terms. Such practices include but are not limited to any discount privileges that affect the value of advertising, such as bonus spots, time-sensitive make goods, preemption priorities, or any other factors that enhance the value of the announcement.

(ii) The Commission recognizes non-premptible, preemptible with notice, immediately preemptible and run-of-schedule as distinct classes of time.

(iii) Stations may establish and define their own reasonable classes of immediately preemptible time so long as the differences between such classes are based on one or more demonstrable benefits associated with each class and are not based solely upon price or identity of the advertiser. Such demonstrable benefits include, but are not limited to, varying levels of preemption protection, scheduling flexibility, or associated privileges, such as guaranteed time-sensitive make goods. Stations may not use class distinctions to defeat the purpose of the lowest unit charge requirement. All classes must be fully disclosed and made available to candidates.

(iv) Stations may establish reasonable classes of preemptible with notice time so long as they clearly define all such classes, fully disclose them and make available to candidates.

(v) Stations may treat non-preemptible and fixed position as distinct classes of time provided that stations articulate clearly the differences between such classes, fully disclose them, and make them available to candidates.

(vi) Stations shall not establish a separate, premium-period class of time sold only to candidates. Stations may sell higher-priced non-preemptible or fixed time to candidates if such a class of time is made available on a *bona fide* basis to both candidates and commercial advertisers, and provided such class is not functionally equivalent to any lower-priced class of time sold to commercial advertisers.

(vii) [Reserved]

(viii) Lowest unit charge may be calculated on a weekly basis with respect to time that is sold on a weekly basis, such as rotations through particular programs or dayparts. Stations electing to calculate the lowest unit charge by such a method must include in that calculation all rates for all announcements scheduled in the rotation, including announcements aired under long-term advertising contracts. Stations may implement rate increases during election periods only to the extent that such increases constitute ''ordinary business practices,'' such as seasonal program changes or changes in audience ratings.

(ix) Stations shall review their advertising records periodically throughout the election period to determine whether compliance with this section requires that candidates receive rebates or credits. Where necessary, stations shall issue such rebates or credits promptly.

(x) Unit rates charged as part of any package, whether individually negotiated or generally available to all advertisers, must be included in the lowest unit charge calculation for the same class and length of time in the same time period. A candidate cannot be required to purchase advertising in every program or daypart in a package as a condition for obtaining package unit rates.

(xi) Stations are not required to include non-cash promotional merchandising incentives in lowest unit charge calculations; provided, however, that all such incentives must be offered to candidates as part of any purchases permitted by the licensee. Bonus spots, however, must be included in the calculation of the lowest unit charge calculation.

(xii) Makes goods, defined as the rescheduling of preempted advertising, shall be provided to candidates prior to election day if a station has provided a time-sensitive make good during the year preceding the pre-election periods, perspectively set forth in paragraph (a)(1) of this section, to any commercial advertiser who purchased time in the same class.

(xiii) Stations must disclose and make available to candidates any make good policies provided to commercial advertisers. If a station places a make good for any commercial advertiser or other candidate in a more valuable program or daypart, the value of such make good must be included in the calculation of the lowest unit charge for that program or daypart.

(2) At any time other than the respective periods set forth in paragraph (a)(1) of this section, stations may charge legally qualified candidates for public office no more than the changes made for comparable use of the station by commercial advertisers. The rates, if any, charged all such candidates for the same office shall be uniform and shall not be rebated by any means, direct or indirect. A candidate shall be charged no more than the rate the station would charge for comparable commercial advertising. All discount privileges otherwise offered by a station to commercial advertisers must be disclosed and made available upon equal terms to all candidate for public office.

(b) If a station permits a candidate to use its facilities, the station shall make all discount privileges offered to commercial advertisers, including the lowest unit charges for each class and length of time in the same time period, and all corresponding discount privileges, available upon equal terms to all candidates. This duty includes an affirmative duty to disclose to candidates information about rates, terms conditions and all value-enhancing discount privileges offered to commercial advertisers. Stations may use reasonable discretion in making the disclosure; provided, however, that the disclosure includes, at a minimum, the following information:

(1) A description and definition of each class of time available to commercial advertisers sufficiently complete to allow candidates to identify and understand what specific attributes differentiate each class;

(2) A description of the lowest unit charge and related privileges (such as priorities against preemption and make goods prior to specific deadlines) for each class of time offered to commercial advertisers;

(3) A description of the station's method of selling preemptible time based upon advertiser demand, commonly known as the ''current selling level,'' with the stipulation that candidates will be able to purchase at these demand-generated rates in the same manner as commercial advertisers;

(4) An approximation of the likelihood of preemption for each kind of preemptible time; and

(5) An explanation of the station's sales practices, if any, that are based on audience delivery, with the stipulation that candidates will be able to purchase this kind of time, if available to commercial advertisers.

(c) Once disclosure is made, stations shall negotiate in good faith to actually sell time to candidates in accordance with the disclosure.

(d) This rule (§ 73.1942) shall not apply to any station licensed for non-commercial operation.

[57 FR 209, Jan. 3, 1992, as amended at 57 FR 27709, June 22, 1992]

§ 73.1943 Political file.

(a) Every licensee shall keep and permit public inspection of a complete and orderly record (political file) of all requests for broadcast time made by or on behalf of a candidate for public office, together with an appropriate notation showing the disposition made by the licensee of such requests, and the charges made, if any, if the request is granted. The ''disposition'' includes the schedule of time purchased, when spots actually aired, the rates charged, and the classes of time purchased.

(b) When free time is provided for use by or on behalf of candidates, a record of the free time provided shall be placed in the political file.

(c) All records required by this paragraph shall be placed in the political file as soon as possible and shall be retained for a period of two years. As soon as possible means immediately absent unusual circumstances.

[57 FR 210, Jan. 3, 1992]

§ 73.1944 Reasonable access.

(a) Section 312(a)(7) of the Communications Act provides that the Commission may revoke any station license or construction permit for willful or repeated failure to allow reasonable access to, or to permit purchase of, reasonable amounts of time for the use of a broadcasting station by a legally qualified candidate for Federal elective office on behalf of his candidacy.

(b) *Weekend Access.* For purposes of providing reasonable access, a licensee shall make its facilities available for use by federal candidates on the weekend before the election if the licensee has provided similar access to commercial advertisers during the year preceding the relevant election period. Licensees shall not discriminate between candidates with regard to weekend access.

[57 FR 210, Jan. 3, 1992]

§ 73.2080 Equal employment opportunities.

(a) *General EEO policy.* Equal opportunity in employment shall be afforded by all licensees or permittees of commercially or noncommercially operated AM, FM, TV, or international broadcast stations (as defined in this part) to all qualified persons, and no person shall be discriminated against in employment by such stations because of race, color, religion, national origin, or sex.

(b) *EEO program.* Each broadcast station shall establish, maintain, and carry out a positive continuing program of specific practices designed to ensure equal opportunity in every aspect of station employment policy and practice. Under the terms of its program, a station shall:

(1) Define the responsibility of each level of management to ensure a positive application and vigorous enforcement of its policy of equal opportunity, and establish a procedure to review and control managerial and supervisory performance;

(2) Inform its employees and recognized employee organizations of the positive equal employment opportunity policy and program and enlist their cooperation;

(3) Communicate its equal employment opportunity policy and program and its employment needs to sources of qualified applicants without regard to race, color, religion, national origin, or sex, and solicit their recruitment assistance on a continuing basis;

(4) Conduct a continuing program to exclude all unlawful forms of prejudice or discrimination based upon race, color, religion, national origin, or sex from its personnel policies and practices and working conditions; and

(5) Conduct a continuing review of job structure and employment practices and adopt positive recruitment, job design, and other measures needed to ensure genuine equality of opportunity to participate fully in all organizational units, occupations, and levels of responsibility.

(c) *EEO program requirements.* A broadcast station's equal employment opportunity program should reasonably address itself to the specific areas set forth below, to the extent possible, and to the extent that they are appropriate in terms of the station's size, location, etc.:

(1) Disseminate its equal opportunity program to job applicants and employees. For example, this requirement may be met by:

(i) Posting notices in the station's office and other places of employment, informing employees, and applicants for employment, of their equal employment opportunity rights. Where it is appropriate, such equal employment opportunity notices should be posted in languages other than English;

(ii) Placing a notice in bold type on the employment application informing prospective employees that discrimination because of race, color, religion, national origin, or sex is prohibited;

(iii) Seeking the cooperation of labor unions, if represented at the station, in the implementation of its EEO program and the inclusion of non-discrimination provisions in union contracts;

(iv) Utilizing media for recruitment purposes in a manner that will contain no indication, either explicit or implicit, of a preference for one sex over another and that can be reasonably expected to reach minorities and women.

(2) Use minority organizations, organizations for women, media, educational institutions, and other potential sources of minority and female applicants, to supply referrals whenever job vacancies are available in its operation. For example, this requirement may be met by:

(i) Placing employment advertisements in media that have significant circulation among minorities residing and/or working in the recruiting area;

(ii) Recruiting through schools and colleges, including those located in the station's local area, with significant minority-group enrollments;

(iii) Contacting, both orally and in writing, minority and human relations organizations, leaders, and spokesmen and spokeswomen to encourage referral of qualified minority or female applicants;

(iv) Encouraging current employees to refer minority or female applicants;

(v) Making known to recruitment sources in the employer's immediate area that qualified minority members and females are being sought for consideration whenever you hire and that all candidates will be considered on a nondiscriminatory basis.

(3) Evaluate its employment profile and job turnover against the availability of minorities and women in its recruitment area. For example, this requirement may be met by:

(i) Comparing the composition of the relevant labor area with composition of the station's workforce;

(ii) Where there is underrepresentation of either minorities and/or women, examining the company's personnel policies and practices to assure that they do not inadvertently screen out any group and take appropriate action where necessary. Data on representation of minorities and women in the available labor force are generally available on a metropolitan statistical area (MSA) or county basis.

(4) Undertake to offer promotions of qualified minorities and women in a nondiscriminatory fashion to positions of greater responsibility. For example, this requirement may be met by:

(i) Instructing those who make decisions on placement and promotion that qualified minority employees and females are to be considered without discrimination, and that job areas in which there is little or no minority or female representation should be reviewed;

(ii) Giving qualified minority and female employees equal opportunity for positions which lead to higher positions. Inquiring as to the interest and skills of all lower paid employees with respect to any of the higher paid positions.

(5) Analyze its efforts to recruit, hire, and promote minorities and women and address any difficulties encountered in implementing its equal employment opportunity program. For example, this requirement may be met by:

(i) Avoiding use of selection techniques or tests that have the effect of discriminating against qualified minority groups or females;

(ii) Reviewing seniority practices to ensure that such practices are nondiscriminatory;

(iii) Examining rates of pay and fringe benefits for employees having the same duties, and eliminating any inequities based upon race or sex discrimination.

(d) *Mid-term review for television broadcast stations.* The Commission will conduct a mid-term review of the employment practices of each broadcast television station at two and one half

years following the station's most recent license expiration date as specified in § 73.1020. The Commission will use the employment profile information provided on the first two Form 395–B reports submitted following such license expiration date to determine whether television station's employment profiles as compared to the applicable labor force data, are in compliance with the Commission's processing criteria. Television broadcast stations which employment profiles fall below the processing criteria will receive a letter noting any necessary improvements identified as a result of the review.

[52 FR 26684, July 16, 1987, as amended at 58 FR 42249, Aug. 9, 1993]

§ 73.3500 Application and report forms.

Following are the FCC broadcast application and report forms, listed by number.

Form number	Title
301	Application for Authority to Construct or Make Changes in a Commercial Broadcast Station.
301–A	Application for Authority to Operate a Broadcast Station by Remote Control or to Make Changes in a Remote Control Authorization.
302–AM	Application for AM Broadcast Station License.
302–FM	Application for FM Broadcast Station License.
302–TV	Application for Television Broadcast Station License.
303–S Application for Renewal of License for AM, FM, TV, Translator, or LPTV Station.	
307	Application for Extension of Broadcast Construction Permit or to Replace Expired Construction Permit.
308	Application for Permit to Deliver Programs to Foreign Broadcast Stations.
309	Application for Authority to Construct or Make Changes in an International or Experimental Broadcast Station.
310	Application for an International or Experimental Broadcast Station License.
311	Application for Renewal of an International or Experimental Broadcast Station License.
313	Application for Authorization in the Auxiliary Broadcast Services.
313–R	Application for Renewal of Auxiliary Broadcast License (Short Form).
314	Application for Consent to Assignment of Broadcast Station Construction Permit or License.
315	Application for Consent to Transfer of Control of Corporation Holding Broadcast Station Construction Permit or License.
316	Application for Consent to Assignment of Broadcast Station Construction Permit or License or Transfer of Control of Corporation Holding Broadcast Station Construction Permit or License.
323	Ownership Report.
323–E	Ownership Report for Noncommercial Educational Broadcast Station.
330	Application for authorization to construct new or make changes in Instructional TV Fixed and/or Response Stations, or to assign or transfer such stations.
330–L	Application for Instructional Television Fixed Station License.
330–R	Application for Renewal of Instructional TV Fixed Station and/or Response Station(s) and Low Power Relay Station(s) License.
340	Application for Authority to Construct or Make Changes in a Noncommercial Educational Broadcast Station.
345	Application for Consent to Assignment of a TV or FM Translator Station Construction Permit or License.
346	Application for Authority to Construct or Make Changes in a Low Power TV, TV Translator or TV Booster Station.
347	Application for a Low Power TV, TV Translator or TV Booster Station License.
349	Application for Authority to Construct or Make Changes in an FM Translator or FM Booster Station.
350	Application for an FM Translator or FM Booster Station License.
395–B	Annual Employment Report and instructions.
396	Broadcast Equal Employment Opportunity Program Report.
396–A	Broadcast Equal Employment Opportunity Model Program Report.
398	Children's Television Programming Report.

[44 FR 38486, July 2, 1979]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 73.3500, see the List of CFR Sections Affected in the Finding Aids section of this volume.

EFFECTIVE DATE NOTES: 1. At 61 FR 43998, Aug. 27, 1996, in § 73.3500, the table was amended by adding entry ''398'' in numerical order, effective either Jan. 2, 1997 or after approval has been given by the Office of Management and Budget, whichever comes later.

2. At 62 FR 51063, Sept. 3, 1997, § 73.3500 was amended by removing the entroy for ''Form 302'' and inserting the entries ''Form 302–AM'' and ''Form 302–TV'', effective Dec. 1, 1997.

§ 73.3511 Applications required.

(a) *Formal application* means any request for authorization where an FCC form for such request is prescribed. The prescription of an FCC form includes the requirement that the proper edition of the form is used. Formal applications on obsolete forms are subject to the provisions of § 73.3564 concerning

acceptance of applications and § 73.3566 concerning defective applications.

(b) *Informal application*1 means all other written requests for authorization. All such applications should contain a caption clearly indicating the nature of the request submitted therein.

(c) Formal and informal applications must comply with the requirements as to signing specified herein and in § 73.3513.

[44 FR 38486, July 2, 1979, as amended at 47 FR 40172, Sept. 13, 1982]

§ 73.3512 Where to file; number of copies.

All applications for authorizations required by § 73.3511 shall be filed at the FCC in Washington, DC (Applications requiring fees as set forth at Part 1, Subpart G of this chapter must be filed in accordance with § 0.401(b) of the rules.) The number of copies required for each application is set forth in the FCC Form which is to be used in filing such application.

[52 FR 10231, Mar. 31, 1987]

§ 73.3513 Signing of applications.

(a) Applications, amendments thereto, and related statements of fact required by the FCC must be signed by the following persons:

(1) *Individual Applicant.* The applicant, if the applicant is an individual.

(2) *Partnership.* One of the partners, if the applicant is a partnership.

(3) *Corporation.* An officer, if the applicant is a corporation.

(4) *Unincorporated Association.* A member who is an officer, if the applicant is an unincorporated association.

(5) *Governmental Entity.* Such duly elected or appointed officials as may be competent to do so under the law of the applicable jurisdiction, if the applicant is an eligible governmental entity, such as a State or Territory of the United States and political subdivisions thereof, the District of Columbia, and a unit of local government, including an unincorporated municipality.

(b) Applications, amendments thereto, and related statements of fact required by the FCC may be signed by the applicant's attorney in case of the applicant's physical disability or of his absence from the United States. The attorney shall in that event separately set forth the reason why the application is not signed by the applicant. In addition, if any matter is stated on the basis of the attorney's belief only (rather than his knowledge), he shall separately set forth his reasons for believing that such statements are true.

(c) Only the original of applications, amendments, or related statements of fact, need be signed; copies may be conformed.

(d) Applications, amendments, and related statements of fact need not be submitted under oath. Willful false statements made therein however, will be considered a violation of § 73.1015, are also punishable by fine and imprisonment, U.S. Code, Title 18, section 1001, and by appropriate adminstrative sanctions including revocation of station license pursuant to section 312(a)(i) of the Communications Act.

[44 FR 38487, July 2, 1979, as amended at 51 FR 3069, Jan. 23, 1986]

§ 73.3514 Content of applications.

(a) Each application shall include all information called for by the particular form on which the application is required to be filed, unless the information called for is inapplicable, in which case this fact shall be indicated.

(b) The FCC may require an applicant to submit such documents and written statements of fact as in its judgment may be necessary. The FCC may also, upon its own motion or upon motion of any party to a proceeding, order the applicant to amend the application so as to make it more definite and certain.

[44 FR 38487, July 2, 1979]

§ 73.3516 Specification of facilities.

(a) An application for facilities in the AM, FM, or TV broadcast services or low power TV service shall be limited to one frequency, or channel, and no application will be accepted for filing if it requests an alternate frequency or channel. Applications specifying split frequency AM operations using one frequency during daytime hours complemented by a different frequency during nighttime hours will not be accepted for filing.

(b) An application for facilities in the experimental and auxiliary broadcast services may request the assignment of more than one frequency if consistent with applicable rules in Part 74. Such applications must specify the frequency or frequencies requested and may not request alternate frequencies.

(c) An application for a construction permit for a new broadcast station, the facilities for which are specified in an outstanding construction permit or license, will not be accepted for filing.

(d) An application for facilities in the International broadcast service may be filed without a request for specific frequency, as the FCC will assign frequencies from time to time in accordance with §§ 73.702 and 73.711.

(e) An application for construction permit for a new broadcast station or for modification of construction permit or license of a previously authorized broadcast station will not be accepted for filing if it is mutually exclusive with an application for renewal of license of an existing broadcast station unless the application for renewal of license is filed on or before May 1, 1995 and unless the mutually exclusive construction permit application is tendered for filing by the end of the first day of the last full calendar month of the expiring license term. A petition to deny an application for renewal of license of an existing broadcast station will be considered as timely filed if it is tendered for filing by the end of the first day of the last full calendar month of the expiring license term.

(1) If the license renewal application is not timely filed as prescribed in § 73.3539, the deadline for filing petitions to deny thereto is the 90th day after the FCC gives public notice that it has accepted the late-filed renewal application for filing. In the case of a renewal application filed on or before May 1, 1995, if the license renewal application is not timely filed as prescribed in § 73.3539, the deadline for filing applications mutually exclusive therewith is the 90th day after the FCC gives public notice that it has accepted the late-filed renewal application for filing.

(2) If any deadline falls on a nonbusiness day, the cutoff shall be the close of business of the first full business day thereafter.

(3) The dates when the licenses of all broadcast and broadcast auxiliary services regularly expire are listed in §§ 73.733, 73.1020 and 74.15.

[44 FR 38487, July 2, 1979, as amended at 47 FR 21494, May 18, 1982; 49 FR 47843, Dec. 7, 1984; 51 FR 44071, Dec. 8, 1986; 56 FR 64873, Dec. 12, 1991; 61 FR 18291, Apr. 25, 1996]

§ 73.3517 Contingent applications.

Contingent applications for new stations and for changes in facilities of existing stations are not acceptable for filing. Contingent applications will be accepted for filing under circumstances described below:

(a) Upon filing of an application for the assignment of a license or construction permit, or for a transfer of control of a licensee or permittee, the proposed assignee or transferee may, upon payment of the processing fee prescribed in Subpart G, Part 1 of this chapter, file applications in its own name for authorization to make changes in the facilities to be assigned or transferred contingent upon approval and consummation of the assignment or transfer. Any application filed pursuant to this paragraph must be accompanied by a written statement from the existing licensee which specifically grants permission to the assignee or permittee to file such application. The processing fee will not be refundable should the assignment or transfer not be approved. The existing licensee or permittee may also file a contingent application in its own name, but fees in such cases also not refundable.

(b) Whenever the FCC determines that processing of any application filed pursuant to paragraph (a) of this section, would be contrary to sound administrative practice or would impose an unwarranted burden on its staff and resources, the FCC may defer processing of such application until the assignment or transfer has been granted and consummated.

(c) Upon payment of the filing fees prescribed in § 1.1111 of this chapter, the Commission will accept two or more applications filed by existing AM licensees for modification of facilities that are contingent upon granting of

both, if granting such contingent applications will reduce interference to one or more AM stations or will otherwise increase the area of interference-free service. The applications must state that they are filed pursuant to an interference reduction arrangement and must cross-reference all other contingent applications.

(d) Modified proposals curing conflicts between mutually exclusive clusters of applications filed in accordance with paragraphs (c) of this section will be accepted for 60 days following issuance of a public notice identifying such conflicts.

NOTE 1: No application to move to a frequency in the 1605–1705 kHz band may be part of any package of contingent applications associated with a voluntary agreement.

NOTE 2: In cases where no modified proposal is filed pursuant to paragraph (d) of this section, the Commission will grant the application resulting in the greatest net interference reduction.

[44 FR 38487, July 2, 1979, as amended at 45 FR 41152, June 18, 1980; 52 FR 5294, Feb. 20, 1987; 53 FR 36787, Sept. 22, 1988; 56 FR 64873, Dec. 12, 1991]

§ 73.3518 Inconsistent or conflicting applications.

While an application is pending and undecided, no subsequent inconsistent or conflicting application may be filed by or on behalf of or for the benefit of the same applicant, successor or assignee.

[44 FR 38487, July 2, 1979]

§ 73.3519 Repetitious applications.

(a) Where the FCC has denied an application for a new station or for any modification of services or facilities, or dismissed such application with prejudice, no like application involving service of the same kind for substantially the same area by substantially the same applicant, or his successor or assignee, or on behalf or for the benefit of the original parties in interest, may be filed within 12 months from the effective date of the FCC's action. However, applicants whose applications have been denied in a comparative hearing may apply immediately for another available facility.

(b) Where an appeal has been taken from the action of the FCC in denying a particular application, another application for the same class of broadcast station and for the same area, in whole or in part, filed by the same applicant, or his successor or assignee, or on behalf of, or for the benefit of the original parties in interest, will not be considered until final disposition of such appeal.

[44 FR 38488, July 2, 1979]

§ 73.3520 Multiple applications.

Where there is one application for new or additional facilities pending, no other application for new or additional facilities for a station of the same class to serve the same community may be filed by the same applicant, or successor or assignee, or on behalf of, or for the benefit of the original parties in interest. Multiple applications may not be filed simultaneously.

[44 FR 38488, July 2, 1979]

§ 73.3521 Mutually exclusive applications for low power television, television translators and television booster stations.

When there is a pending application for a new low power television, television translator, or television booster station, or for major changes in an existing station, no other application which would be directly mutually exclusive with the pending application may be filed by the same applicant or by any applicant in which any individual in common with the pending application has any interest, direct or indirect, except that interests or less than 1% will not be considered.

[52 FR 31400, Aug. 20, 1987]

§ 73.3522 Amendment of applications.

(a) *Predesignation amendment.* (1) Subject to the provisions of §§ 73.3525, 73.3571, 73.3572, 73.3573, and 73.3580, and except as provided in paragraph (a)(2) of this section, any application, other than an application for a low power TV, TV translator, TV booster or a nonreserved band FM station may be amended as a matter of right prior to the adoption date of an order designating such applications for hearings,

merely by filing the appropriate number of copies of the amendments in question duly executed in accordance with § 73.3513. If a petition to deny (or to designate for hearing) has been filed, the amendment shall be served on the petitioner.

(2) Subject to the provisions of §§ 73.3525, 73.3571, 73.3572, 73.3573 and 73.3580, and except for applications for low power TV, TV translator, TV booster or non-reserved band FM stations, mutually exclusive broadcast applications may be amended as a matter of right by the date specified (not less than 30 days after issuance) in the FCC's Public Notice announcing the acceptance for filing of the last-filed mutually exclusive application. Subsequent amendments prior to designation of the proceeding for hearing will be considered only upon a showing of good cause for late filing or pursuant to § 1.65 or § 73.3514. Unauthorized or untimely amendments are subject to return by the FCC's staff without consideration.

(3) Subject to the provisions of §§ 73.3525, 73.3572 and 73.3580, any application for a low power TV, TV translator or TV booster station may be amended as a matter of right during the application window filing period pursuant to § 73.3564(d). If it is determined that a low power TV, TV translator or TV booster application is substantially complete but contains some defect(s) or omission(s), a deficiency letter will be issued affording the applicant 30 days to correct the defect.

(4) No applicant for a low power TV, TV translator or TV booster station which is mutually exclusive can improve its status with respect to § 1.1622 by amendment of its application subsequent to the release of the initial Public Notice announcing the public lottery that will resolve the applicant's mutual exclusivity pursuant to § 1.1601 *et seq.*, not withstanding the requirements of § 1.65.

(5) Paragraphs (b) and (c) of this section are not applicable to applications for low power TV, TV translator, or TV booster stations.

(6) Subject to the provisions of § 73.3525, 73.3573, and 73.3580, applications for non-reserved band FM stations (other than Class D stations) may be amended as a matter of right during the appropriate window filing period pursuant to § 73.3564(d). For a period of 30 days following the FCC's issuance of a Public Notice announcing the tender of the application, minor amendments may be filed as a matter of right. For applications received on or after August 7, 1992, an applicant whose application is found to meet minimum filing requirements but nevertheless is not complete and acceptable shall have the opportunity in the 30-day period specified in the FCC staff's deficiency letter to correct all deficiencies in the tenderability and acceptability of the underlying application, including any deficiency not specifically identified by the staff. [For minimum filing requirements see § 73.3564(a). Examples of tender defects appear at 50 FR 19936 at 19945–46 (May 13, 1985), *reprinted as* Appendix D, *Report and Order*, MM Docket No. Docket No. 91–347, 7 FCC Red 5074, 5083–88 (1992). For examples of acceptance defects see 49 FR 47331.] Prior to the end of the period specified in the deficiency letter, a submission seeking to correct a tender and/or acceptance defect in an application meeting minimum filing requirements will be treated as an amendment for good cause if it would successfully and directly correct the defect. Other amendments prior to designation for hearing or grant will be considered only upon a showing of good cause for late filing or pursuant to § 1.65 or § 73.3514. Unauthorized or untimely amendments are subject to return by the Commission without consideration. However, an amendment to a non-reserved band application will not be accepted after the close of the appropriate filing window if the effect of such amendment is to alter the proposed facility's coverage area so as to produce a conflict with an applicant who files subsequent to the initial applicant but prior to the amendment application. Similarly, an applicant subject to ''first come/first serve'' processing will not be permitted to amend its application and retain filing priority if the result of such amendment is to alter the facility's coverage area so as to produce a conflict with an applicant who files subsequent to the initial applicant but prior to the amendment.

(b) *Postdesignation amendment.* (1) Except as provided in paragraph (b)(2) of this section, requests to amend an application after it has been designated for hearing will be considered only upon written petition properly served upon the parties of record in accordance with § 1.47 and, where applicable, compliance with the provisions of § 73.3525, and will be considered only upon a showing of good cause for late filing. In the case of requests to amend the engineering proposal (other than to make changes with respect to the type of equipment specified), good cause will be considered to have been shown only if, in addition to the usual good cause consideration, it is demonstrated:

(i) That the amendment is necessitated by events which the applicant could not reasonably have foreseen (e.g., notification of a new foreign station or loss of transmitter site by condemnation); and

(ii) That the amendment does not require an enlargement of issues or the addition of new parties to the proceeding.

(2) In comparative broadcast cases (including comparative renewal proceedings), amendments relating to issues first raised in the designation order may be filed as a matter of right within 30 days after that Order or a summary thereof is published in the FEDERAL REGISTER, or by a date certain to be specified in the Order.

(c) Notwithstanding the provisions of paragraph (b) of this section, and subject to compliance with the provisions of § 73.3525, a petition for leave to amend may be granted, provided it is requested that the application as amended be removed from the hearing docket and returned to the processing line. See § 73.3571.

NOTE 1: When two or more broadcast applications are tendered for filing which are mutually exclusive with each other but not in conflict with any previously filed applications which have been accepted for filing, the FCC, where appropriate, will announce acceptance of the earliest tendered application and place the later filed application or applications on a subsequent public notice of acceptance for filing in order to establish a deadline for the filing of amendments as a matter of right for all applicants in the group.

[44 FR 38488, July 2, 1979, as amended at 44 FR 40311, July 10, 1979; 51 FR 19347, May 29, 1986; 52 FR 31400, Aug. 20, 1987; 53 FR 26074, July 11, 1988; 57 FR 34878, Aug. 7, 1992; 58 FR 51250, Oct. 1, 1993; 59 FR 31556, June 20, 1994]

§ 73.3523 Dismissal of applications in renewal proceedings.

(a) An applicant for construction permit, that has filed an application that is mutually exclusive with an application for renewal of a license of an AM, FM or television station (hereinafter competing applicant'') filed on or before May 1, 1995, and seeks to dismiss or withdraw its application and thereby remove a conflict between applications pending before the Commission, must obtain the approval of the Commission.

(b) If a competing applicant seeks to dismiss or withdraw its application prior to the Initial Decision stage of the hearing on its application, it must submit to the Commission a request for approval of the dismissal or withdrawal of its application, a copy of any written agreement related to the dismissal or withdrawal of its application, and an affidavit setting forth:

(1) A certification that neither the applicant nor its principals has received or will receive any money or other consideration in exchange for dismissing or withdrawing its application;

(2) A statement that its application was not filed for the purpose of reaching or carrying out an agreement with any other applicant regarding the dismissal or withdrawal of its application; and

(3) The terms of any oral agreement relating to the dismissal or withdrawal of its application.

In addition, within 5 days of the applicant's request for approval, each remaining competing applicant and the renewal applicant must submit an affidavit setting forth:

(4) A certification that neither the applicant nor its principals has paid or will pay any money or other consideration in exchange for the dismissal or withdrawal of the application; and

(5) The terms of any oral agreement relating to the dismissal or withdrawal of the application.

(c) If a competing applicant seeks to dismiss or withdraw its application after the Initial Decision stage of the hearing on its application, it must submit to the Commission a request for approval of the dismissal or withdrawal of its application, a copy of the any written agreement related to the dismissal or withdrawal, and an affidavit setting forth:

(1) A certification that neither the applicant nor its principals has received or will receive any money or other consideration in excess of the legitimate and prudent expenses of the applicant;

(2) The exact nature and amount of any consideration paid or promised;

(3) An itemized accounting of the expenses for which it seeks reimbursement;

(4) A statement that its application was not filed for the purpose of reaching or carrying out an agreement with any other applicant regarding the dismissal or withdrawal of its application; and

(5) The terms of any oral agreement relating to the dismissal or withdrawal of its application.

In addition, within 5 days of the applicant's request for approval, each remaining party to any written or oral agreement must submit an affidavit setting forth:

(6) A certification that neither the applicant nor its principals has paid or will pay money or other consideration in excess of the legitimate and prudent expenses of the withdrawing applicant in exchange for the dismissal or withdrawal of the application; and

(7) The terms of any oral agreement relating the dismissal or withdrawal of the application.

(d) For the purpose of this section:

(1) Affidavits filed pursuant to this section shall be executed by the applicant, permittee or licensee, if an individual; a partner having personal knowledge of the facts, if a partnership; or an officer having personal knowledge of the facts, if a corporation or association.

(2) An application shall be deemed to be pending before the Commission from the time an application is filed with Commission until an order of the Commission granting or denying the application is no longer subject to reconsideration by the Commission or to review by any court.

(3) ''Legitimate and prudent expenses'' are those expenses reasonably incurred by an applicant in preparing, filing, and prosecuting its application.

(4) ''Other consideration'' consists of financial concessions, including but not limited to the transfer of assets or the provision of tangible pecuniary benefit, as well as nonfinancial concessions that confer any type of benefit on the recipient.

[54 FR 22598, May 25, 1989, as amended at 61 FR 18291, Apr. 25, 1996]

§ 73.3525 Agreements for removing application conflicts.

(a) Except as provided in § 73.3523 regarding dismissal of applications in comparative renewal proceedings, whenever applicants for a construction permit for a broadcast station enter into an agreement to procure the removal of a conflict between applications pending before the FCC by withdrawal or amendment of an application or by its dismissal pursuant to § 73.3568, all parties thereto shall, within 5 days after entering into the agreement, file with the FCC a joint request for approval of such agreement. The joint request shall be accompanied by a copy of the agreement, including any ancillary agreements, and an affidavit of each party to the agreement setting forth:

(1) The reasons why it is considered that such agreement is in the public interest;

(2) A statement that its application was not filed for the purpose of reaching or carrying out such agreement;

(3) A certification that neither the applicant nor its principals has received any money or other consideration in excess of the legitimate and prudent expenses of the applicant; *Provided* That this provision shall not apply to *bona fide* merger agreements;

(4) The exact nature and amount of any consideration paid or promised;

(5) An itemized accounting of the expenses for which it seeks reimbursement; and

(6) The terms of any oral agreement relating to the dismissal or withdrawal of its application.

(b) Whenever two or more conflicting applications for construction permits for broadcast stations pending before the FCC involve a determination of fair, efficient and equitable distribution of service pursuant to section 307(b) of the Communications Act, and an agreement is made to procure the withdrawal (by amendment to specify a different community or by dismissal pursuant to § 73.3568) of the only application or applications seeking the same facilities for one of the communities involved, all parties thereto shall file the joint request and affidavits specified in paragraph (a) of this section.

(1) If upon examination of the proposed agreement the FCC finds that withdrawal of one of the applications would unduly impede achievement of a fair, efficient and equitable distribution of radio servce among the several States and communities, then the FCC shall order that further opportunity be afforded for other persons to apply for the facilities specified in the application or applications to be withdrawn before acting upon the pending request for approval of the agreement.

(2) Upon release of such order, any party proposing to withdraw its application shall cause to be published a notice of such proposed withdrawal at least twice a week for 2 consecutive weeks within the 3-week period immediately following release of the FCC's order, in a daily newspaper of general circulation published in the community in which it was proposed to locate the station. However, if there is no such daily newspaper published in the community, the notice shall be published as follows:

(i) If one or more weekly newspapers of general circulation are published in the community in which the station was proposed to be located, notice shall be published in such a weekly newspaper once a week for 3 consecutive weeks within the 4-week period immediately following the release of the FCC's order.

(ii) If no weekly newspaper of general circulation is published in the community in which the station was proposed to be located, notice shall be published at least twice a week for 2 consecutive weeks within the 3-week period immediately following the release of the FCC's order in the daily newspaper having the greatest general circulation in the community in which the station was proposed to be located.

(3) The notice shall state the name of the applicant; the location, frequency and power of the facilities proposed in the application; the location of the station or stations proposed in the applications with which it is in conflict; the fact that the applicant proposes to withdraw the application; and the date upon which the last day of publication shall take place.

(4) Such notice shall additionally include a statement that new applications for a broadcast station on the same frequency, in the same community, with substantially the same engineering characteristics and proposing to serve substantially the same service area as the application sought to be withdrawn, timely filed pursuant to the FCC's rules, or filed, in any event, within 30 days from the last date of publication of the notice (notwithstanding any provisions normally requiring earlier filing of a competing application), will be entitled to comparative consideration with other pending mutually exclusive affidavits.

(5) Within 7 days of the last day of publication of the notice, the applicant proposing to withdraw shall file a statement in triplicate with the FCC giving the dates on which the notice was published, the text of the notice and the name and location of the newspaper in which the notice was published.

(6) Where the FCC orders that further opportunity be afforded for other persons to apply for the facilities sought to be withdrawn, no application of any party to the agreement will be acted upon by the FCC less than 30 days from the last day of publication of the notice specified in paragraph (b)(2) of this section. Any applications for a broadcast station on the same frequency in the same community, with substantially the same engineering characteristics and proposing to serve substantially the same service area as the application sought to be withdrawn, filed

within the 30-day period following the last date of publication of the notice (notwithstanding any provisions normally requiring earlier filing of a competing application), or otherwise timely filed, will be entitled to comparative consideration with other pending mutually exclusive applications. If the application of any party to which the new application may be in conflict has been designated for hearing, any such new application will be entitled to consolidation in the proceeding.

(c) Except where a joint request is filed pursuant to paragraph (a) of this section, any applicant filing an amendment pursuant to §73.3522(a) or a request for dismissal pursuant to §73.3568(a) which would remove a conflict with another pending application; or a petition for leave to amend pursuant to §73.3522 (b) or (c) which would permit a grant of the amended applcation or an application previously in conflict with the amended application; or a request for dismissal pursuant to §73.3568(c), shall file with it an affidavit as to whether or not consideration (including an agreement for merger of interests) has been promised to or received by such applicant, directly or indirectly, in connection with the amendment, petition or request.

(d) Upon the filing of a petition for leave to amend or to dismiss an application for broadcast facilities which has been designated for hearing or upon the dismissal of such application on the FCC's own motion pursuant to §73.3568(b), each applicant or party remaining in hearing, as to whom a conflict would be removed by the amendment or dismissal shall submit for inclusion in the record of that proceeding an affidavit stating whether or not he has directly or indirectly paid or promised consideration (including an agreement for merger of interests) in connection with the removal of such conflict.

(e) Where an affidavit filed pursuant to paragraph (c) of this section states that consideration has been paid or promised, the affidavit shall set forth in full all relevant facts, including, but not limited to, the material listed in paragraph (a) of this section for inclusions in affidavits.

(f) Affidavits filed pursuant to this section shall be executed by the applicant, permittee or licensee, if an individual; a partner having personal knowledge of the facts, if a partnership; or an officer having personal knowledge of the facts, if a corporation or association.

(g) Requests and affidavits which relate to an application which has not been designated for hearing shall bear the file number of such application. If the affiant is also an applicant, the affidavit shall also bear the file number of affiant's pending application(s). Requests and affidavits which relate to an application which is designated for hearing shall bear the file number of that application and the hearing docket number and will be acted on by the presiding officer.

(h) For the purposes of this section an application shall be deemed to be ''pending'' before the FCC and a party shall be considered to have the status of an ''applicant'' from the time an application is filed with the FCC until an order of the FCC granting or denying it is no longer subject to reconsideration by the FCC or to review by any court.

(i) For purposes of this section, ''legitimate and prudent expenses'' are those expenses reasonably incurred by an applicant in preparing, filing, prosecuting, and settling its application for which reimbursement is being sought.

(j) For purposes of this section, ''other consideration'' consists of financial concessions, including, but not limited to the transfer of assets or the provision of tangible pecuniary benefit, as well as non-financial concessions that confer any type of benefit on the recipient.

(k) For purposes of this section, an ''ancillary agreement'' means any agreement relating to the dismissal of an application or settling of a proceeding, including any agreement on the part of an applicant or principal of an applicant to render consulting services to another party or principal of another party in the poroceeding.

NOTE: Although §74.780 of the Rules makes this section generally applicable to low power TV, TV translators, and TV booster

stations, paragraph (b) of this section shall not be applicable to such stations.

[56 FR 28097, June 19, 1991]

§ 73.3526 Local public inspection file of commercial stations.

(a) *Records to be maintained.* Every applicant for a construction permit for a new station in the commercial broadcast services shall maintain for public inspection a file containing the material described in paragraph (a)(1) of this section. Every permittee or licensee of an AM, FM or TV station in the commercial broacast services shall maintain for public inspection a file containing the material described in paragraphs (a)(1), (2), (3), (4), (5), (6), (7) and (10) of this section. In addition, every permittee or licensee of a TV station shall maintain for public inspection a file containing material described in paragraph (a)(8) of this section; every permittee or licensee of an AM or FM station shall maintain for public inspection a file containing material described in paragraph (a)(9) of this section. The material to be contained in the file is as follows:

(1) A copy of every application tendered for filing, with respect to which local public notice is required to be given under the provisions of § 73.3580 or § 73.3594; and all exhibits, letters and other documents tendered for filing as part thereof; all amendments thereto, copies of all documents incorporated therein by reference, all correspondence between the FCC and the applicant pertaining to the application after it has been tendered for filing, and copies of Initial Decisions and Final Decisions in hearing cases pertaining thereto, which according to the provisions of §§ 0.451 through 0.461 of the rules are open for public inspection at the offices of the FCC. Information incorporated by reference which is already in the local file need not be duplicated if the entry making the reference sufficienty identifies the information so that it may be found in the file, and if there has been no change in the document since the date of filing and the applicant, after making the reference, so states. If petitions to deny are filed against the application, and have been duly served on the applicant, a statement that such a petition has been filed shall appear in the local file together with the name and address of the party filing the petition. The file shall also contain a copy of every written citizen agreement. For purposes of this section, a citizen agreement is a written agreement between a broadcast applicant, permittee, or licensee, and one or more citizens or citizen groups, entered for primarily noncommercial purposes. This definition includes those agreements that deal with goals or proposed practices directly or indirectly affecting station operation in the public interest, in areas such as—but not limited to—community ascertainment, programming, and employment. It excludes common commercial agreements such as advertising contracts; union, employment, and personal services contracts; network affiliation, syndication, program supply contracts and so on. However, the mere inclusion of commercial terms in a primarily noncommercial agreement—such as a provision for payment of fees for future services of the citizen-parties (see ''Report and Order,'' Docket 19518, 57 FCC 2d 494 1976))—would not cause the agreement to be considered commercial for purposes of this section.

NOTE: Applications tendered for filing on or before May 13, 1965, which are subsequently designated for hearing after May 13, 1965, with local notice being given pursuant to the provisions of § 73.3594, and material related to such applications, need not be placed in the file required to be kept by this section. Applications tendered for filing after May 13, 1965, which contain major amendments to applications tendered for filing on or before May 13, 1965, with local notice of the amending application being given pursuant to the provisions of § 73.3580, need not be placed in the file requred to be kept by this section.

(2) A copy of every application tendered for filing by the licensee or permittee for such station which is not included in paragraph (a)(1) of this section and which involves changes in program service, which requests an extension of time in which to complete construction of a new station, or which requests consent to involuntary assignment or transfer, or to voluntary assignment or transfer not resulting in a substantial change in ownership or control and which may be applied for

on FCC Form 316; and copies of all exhibits, letters, and other documents filed as part thereof, all amendments thereto, all correspondence between the FCC and the applicant pertaining to the application after it has been tendered for filing, and copies of all documents incorporated therein by reference, which according to the provisions of §§0.451 through 0.461 of the rules are open for public inspection at the offices of the FCC. Information incorporated by reference which is already in the local file need not be duplicated if the entry making the reference sufficiently identifies the information so that it may be found in the file, and there has been no change in the document since the date of filing and the licensee, after making the reference, so states. If petitions to deny are filed against the application, and have been duly served on the applicant, a statement that such a petition has been filed shall appear in the local file together with the name and address of the party filing the petition.

NOTE: The engineering section of the applications mentioned in paragraphs (a)(1) and (2) of this section, and material related to the engineering section, need not be kept in the file required to be maintained by this paragraph. If such engineering section contains service contour maps submitted with that section, copies of such maps and information (State, county, city, street address, or other identifying information) showing main studio and transmitter location shall be kept in the file.

(3) A copy of every ownership report or supplemental ownership report filed by the licensee or permittee for such station after May 13, 1965, pursuant to the provisions of this part; and copies of all exhibits, letters, and other documents filed as part thereof, all amendments thereto, all correspondence between the permittee or licensee and the FCC pertaining to the reports after they have been filed, and all documents incorporated therein by reference, including contracts listed in such reports in accordance with the provisions of §73.3615(a)(4)(i) and which according to the provisions of §§0.451 through 0.461 of the rules are open for public inspection at the offices of the FCC. Information incorporated by reference which is already in the local file need not be duplicated if the entry making the reference sufficiently identifies the information so that it may be found in the file, and if there has been no change in the document since the date of filing and the licensee or permittee, after making the reference, so states.

(4) Such records as are required to be kept by §73.1940 concerning broadcasts by candidates for public office.

(5) A copy of every annual employment report filed by the licensee or permittee for such station pursuant to the provisions of this part; and copies of all exhibits, letters and other documents filed as part thereof, all amendments thereto, and all correspondence between the permittee or licensee and the FCC pertaining to the reports after they have been filed and all documents incorporated therein by reference and which according to the provisions of §§0.451 through 0.461 of the rules are open for public inspection at the offices of the FCC.

(6) The Public and Broadcasting—A Procedure Manual (see FCC 74–942, 39 FR 32288, September 5, 1974).

(7) Letters received from members of the public as are required to be retained by §73.1202.

(8)(i) For commerical TV broadcast stations, every three months a list of programs that have provided the station's most significant treatment of community issues during the preceding three month period. The list for each calendar quarter is to be filed by the tenth day of the succeeding calendar quarter (*e.g.*, January 10 for the quarter October–December, April 10 for the quarter January–March, etc.). The list include a brief narrative describing what issues were given significant treatment and the programming that provided this treatment. The description of the programs should include, but is not limited to, the time, date, duration and title of each program in which the issue was treated.

(ii) For commercial TV broadcast stations, records sufficient to permit substantiation of the station's certification, in its license renewal application, of compliance with the commercial limits on children's programming established in 47 U.S.C. 303a and 47 CFR 73.670.

(iii) For commercial TV broadcast stations, on a quarterly basis, a completed Children's Television Programming Report (''Report''), on FCC Form 398, reflecting efforts made by the licensee during the preceding quarter, and efforts planned for the next quarter, to serve the educational and informational needs of children. The Report for each quarter is to be filed by the tenth day of the succeeding calendar quarter. The Report shall identify the licensee's educational and informational programming efforts, including programs aired by the station that are specifically designed to serve the educational and informational needs of children, and it shall explain how programs identified as Core Programming meet the definition set forth in § 73.671(c). The Report shall include the name of the individual at the station responsible for collecting comments on the station's compliance with the Children's Television Act, and it shall be separated from other materials in the public inspection file. Licensees shall publicize in an appropriate manner the existence and location of these Reports. For an experimental period of three years, licensees shall file these Reports with the Commission on an annual basis, *i.e.*, four quarterly reports filed jointly each year, preferably in electronic form. These Reports shall be filed with the Commission on January 10, 1998, January 10, 1999, and January 10, 2000.

(9) For commercial AM and FM broadcast stations, every three months a list of programs that have provided the station's most significant treatment of community issues during the preceding three month period. The list for each calendar quarter is to be filed by the tenth of the succeeding calendar quarter (*e.g.*, January 10 for the quarter October-December, April 10 for the quarter January-March, etc.). The list shall include a brief narrative describing what issues were given significant treatment and the programming that provided this treatment. The description of the programs should include, but is not limited to, the time, date, duration and title of each program in which the issue was treated.

(10) Each applicant for renewal of license shall, within 7 days of the last day of broadcast of the local public notice of filing announcements required pursuant to § 73.3580(h), place in the station's local public inspection file a statement certifying compliance with this requirement. The dates and times that the pre-filing and post-filing notices were broadcast and the text thereof shall be made part of the certifying statement.

(11) Every television broadcast station owned or controlled by a television network shall maintain the records required by § 73.661. These records shall be maintained in the file until the remaining syndication rules expire.

(12) For commercial radio stations, a copy of every agreement or contract involving time brokerage of the licensee's station or of another station by the licensee, with confidential or proprietary information redacted where appropriate.

(b) *Responsibility in case of assignment or transfer.* (1) In cases involving applications for consent to assignment of broadcast station construction permits or licenses, with respect to which public notice is required to be given under the provisions of § 73.3580 or § 73.3594, the file mentioned in paragraph (a) of this section shall be maintained by the assignor. If the assignment is consented to by the FCC and consummated, the assignee shall maintain the file commencing with the date on which notice of the consummation of the assignment is filed with the FCC. The file maintained by the assignee shall cover the period both before and after the time when the notice of consummation of assignment was filed. The assignee is responsible for obtaining copies of the necessary documents from the assignor or from the FCC files.

(2) In cases involving applications for consent to transfer of control of a permittee or licensee of a broadcast station, the file mentioned in paragraph (a) of this section shall be maintained by the permittee or licensee.

(c) *Station to which reports pertain.* The file need contain only applications, ownership reports, and related material that concern the station for which the file is kept. Applicants, permittees, and licensees need not keep in

the file copies of such applications, reports, and material which pertain to other stations with regard to which they may be applicants, permittees, or licensees, except to the extent that such information is reflected in the materials required to be kept under the provisions of this section.

(d) *Location of records.* The file shall be maintained at the main studio of the station, where such studio is located in the community to which the station is licensed or where such studio is located outside of the community of license pursuant to authorization granted under § 73.1125(a) of the rules prior to July 16, 1987, or at any accessible place (such as a public registry for documents or an attorney's office) in the community to which the station is or is proposed to be licensed. The file shall be available for public inspection at any time during regular business hours.

(e) *Period of retention.* The records specified in paragraph (a)(4) of this section shall be retained for periods specified in § 73.1940 (2 years). The manual specified in paragraph (a)(6) of this section shall be retained indefinitely. The letters specified in paragraph (a)(7) of this section shall be retained for the period specified in § 73.1202 (3 years). The ''significant treatment of community issues'' list and the records demonstrating the station's response to the educational and informational needs of children specified in paragraph (a)(8) of this section shall be retained by commercial broadcast television licensees for the term of license, 5 years. Commercial AM and FM radio licensees shall retain the ''significant treatment of community issues list'' specified in paragraph (a)(9) of this section for the term of license, 7 years. The certification specified in paragraph (a)(10) of this section shall be retained for the period specified in § 73.3580 (for as long as the application to which it refers). The records specified in paragraphs (a)(1), (2), (3), and (5) of this section shall be retained, as follows:

(1) The applicant for a construction permit for a new station shall maintain such a file so long as the application is pending before the FCC or any proceeding involving that application is pending before the courts. (If the application is granted, paragraph (e)(2) of this section shall apply.)

(2) The permittee or licensee shall maintain such a file so long as an authorization to operate the station is outstanding, and shall permit public inspection of the material as long as it is retained by the licensee even though the request for inspection is made after the conclusion of the required retention period specified in this paragraph. However, material which is voluntarily retained after the required retention time may be kept in a form and place convenient to the licensee and shall be made available to the inquiring party, in good faith after written request, at a time and place convenient to both the party and the licensee.

Applications and related material placed in the file shall be retained for a period beginning with the date that they are tendered for filing and ending with the expiration of one license term (five (5) years for television licensees or seven (7) years for radio licensees) or until the grant of the first renewal application of the television or radio broadcast license in question, whichever is later, with two exceptions:

(i) Engineering material pertaining to a former mode of operation need not be retained longer than 3 years after a station commences operation under a new or modified mode; and

(ii) Material having a substantial bearing on a matter which is the subject of a claim against the licensee, or relating to an FCC investigation or a complaint to the FCC of which the licensee has been advised, shall be retained until the licensee is notified in writing that the material may be discarded, or, if the matter is a private one, the claim has been satisfied or is barred by statute of limitations. Where an application or related material incorporates by reference material in earlier applications and material concerning programming and related matters (section IV and related material), the material so referred to shall be retained as long as the application referring to it. If a written agreement is not incorporated in an application tendered for filing with the FCC, the starting date of the retention period for that agreement is the date the agreement is executed.

(f) Copies of any material required to be in the public file of any applicant for a construction permit, or permittee or licensee of any commercial TV or radio station shall be available for machine reproduction upon request made in person, provided the requesting party shall pay the reasonable cost of reproduction. Requests for machine copies shall be fulfilled at a location specified by the applicant, permittee or licensee, within a reasonable period of time which, in no event, shall be longer than seven days unless reproduction facilities are unavailable in the applicant's, permittee's, or licensee's community. The applicant, permittee or licensee is not required to honor requests made by mail, but may do so if it chooses.

(g) Statements of a commercial television station's election with respect to either must-carry or retransmission consent as defined in §76.64 of this chapter shall be retained in the public file of the television station for the duration of the three year election period to which the statement applies.

[50 FR 8630, Mar. 4, 1985, as amended at 51 FR 20292, 20293, June 4, 1986; 53 FR 17046, May 13, 1988; 53 FR 32901, Aug. 29, 1988; 56 FR 19616, Apr. 29, 1991; 56 FR 26270, June 6, 1991; 56 FR 28825, June 25, 1991; 56 FR 64209, Dec. 9, 1991; 57 FR 18091, Apr. 29, 1992; 57 FR 42704, Sept. 16, 1992; 58 FR 28932, May 18, 1993; 59 FR 62344, Dec. 5, 1994; 61 FR 43998, Aug. 27, 1996]

EFFECTIVE DATE NOTES: 1. At 57 FR 18093, Apr. 29, 1992, in §73.3526, paragraph (e) introductory text was revised, effective August 1, 1992. At 57 FR 35763, Aug. 11, 1992, the effective date was deferred pending action by the agency. At 57 FR 37888, Aug. 21, 1992, the effective date was further delayed. For the convenience of the user, the revised text is set forth as follows:

§ 73.3526 Local public inspection file of commercial stations.

* * * * *

(e) *Period of retention.* The records specified in paragraph (a)(4) of this section shall be retained for periods specified in §73.1940 (2 years). The manual specified in paragraph (a)(6) of this section shall be retained indefinitely. The letters specified in paragraph (a)(7) of this section shall be retained for the period specified in §73.1202 (3 years). The ''significant treatment of community issues'' list and the records demonstrating the station's response to the educational and informational needs of children specified in paragraph (a)(8) of this section shall be retained by commercial broadcast television licensees for the term of license (5 years). Commercial AM and FM radio licensees shall retain the ''significant treatment of community issues list'' specified in paragraph (a)(9) of this section for the term of license (7 years). The certification specified in paragraph (a)(10) of this section shall be retained for the period specified in §73.3580 (for as long as the application to which it refers). The records specified in paragraph (a)(12) of this section shall be retained as long as the contract or agreement is in force. The records specified in paragraphs (a) (1), (2), (3), and (5) of this section shall be retained as follows:

* * * * *

2. At 59 FR 62344, Dec. 5, 1994, in §73.3526, paragraph (g) was added. This amendment contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

3. At 61 FR 43998, Aug. 27, 1996, in §73.3526, paragraph (a)(8)(iii) was revised, effective either Jan. 2, 1997 or after approval has been given by the Office of Management and Budget, whichever comes later.

§ 73.3527 Local public inspection file of noncommercial educational stations.

(a) *Records to be maintained.* Every applicant for a construction permit for a new station in the noncommercial educational broadcast servcies shall maintain for public inspection a file containing the material in paragraph (a)(1) of this section. Every permittee or licensee of a station in the noncommercial educational broadcast services shall maintain for public inspection a file containing the material described in paragraphs (a) (1) through (9) of this section. The material to be contained in the file is as follows:

(1) A copy of every application tendered for filing with respect to which local public notice is required to be given under the provisions of §73.3580 or §73.3594; and all exhibits, letters and other documents tendered for filing as part thereof, all amendments thereto, copies of all documents incorporated therein by reference, all correspondence between the FCC And the applicant pertaining to the application after

it has been tendered for filing, and copies of Initial Decisions and Final Decisions in hearing cases pertaining thereto, which according to the provisions of §§0.451 through 0.461 of the rules are open for public inspection at the offices of the FCC. Information incorporated by reference which is already in the local file need not be duplicated if the entry making the reference sufficiently identifies the information so that it may be found in the file, and if there has been no change in the document since the date of filing and the applicant, after making the reference, so states. If petitions to deny are filed against the application, and have been duly served on the applicant, a statement that such a petition has been filed shall appear in the local file together with the name and address of the party filing the petition.

NOTE: Applications tendered for filing on or before May 13, 1965, which were subsequently designated for hearing after May 13, 1965, with local notice being given pursuant to the provisions of §73.3594, and material related to such applications, need not be placed in the file required to be kept by this section. Materials tendered for filing after May 13, 1965, which contain major amendments to applications tendered for filing on or before May 13, 1965, which local notice of the amending application being given pursuant to the provisions of §73.3580 need not be placed in the file required to be kept by this section.

(2) A copy of every application tendered for filing by the licensee or permittee for such station after May 13, 1965, pursuant to the provisions of this part, which is not included in paragraph (a)(1) of this section and which involves changes in program service, which requests an extension of time in which to complete construction of a new station, or which requests consent to involuntary assignment or transfer, or to voluntary assignment or transfer not resulting in a substantial change in ownership or control and which may be applied for on FCC Form 316; and copies of all exhibits, letters, and other documents filed as part thereof, all amendments thereto, all correspondence between the FCC and the applicant pertaining to the application after it has been tendered for filing, and copies of all documents incorporated therein by reference, which according to the provisions of §§0.451 through 0.461 of the rules are open for public inspection at the offices of the FCC. Information incorporated by reference which is already in the local file need not be duplicated if the entry making the reference sufficiently identifies the information so that it may be found in the file, and there has been no change in the document since the date of filing and the licensee, after making the reference so states. If petitions to deny are filed against the application, and have been duly served on the applicant, a statement that such a petition has been filed shall appear in the local file together with the name and address of the party filing the petition.

NOTE: The engineering section of the applications mentioned in paragraphs (a) (1) and (2) of this section, and material related to the engineering section, need not be kept in the file required to be maintained by this paragraph. If such engineering section contains service contour maps submitted with that section, copies of such maps and information (State, county, city, street address, or other identifying information) showing main studio and transmitter location shall be kept in the file.

(3) A copy of contracts listed in ownership reports filed in accordance with the provisions of §73.3615(e) and which according to the provisions of §§0.451 through 0.461 of the rules are open for public inspection at the offices of the FCC. Information incorporated by reference which is already in the local file need not be duplicated if the enty making the reference sufficiently identifies the information so that it may be found in the file, and if there has been no change in the document since the date of filing and the licensee or permittee, after making the reference, so states.

(4) Such records as are required to be kept by §73.1940, ''Broadcasts by candidates for public office.

(5) A copy of every annual employment report filed by the licensee or permittee for such station pursuant to the provisions of this Part; and copies of all exhibits, letters and other documents filed as part thereof, all amendments thereto, all correspondence between the permittee or licensee and the FCC pertaining to the reports after they have been filed and all documents incorporated therein by reference and

which, according to the provisions of §§0.451 through 0.461 of the rules, are open for public inspection at the office of the FCC.

(6) The Public and Broadcasting: Revised Edition (see FCC 74–942, 39 FR 32288, September 5, 1974).

(7) For nonexempt noncommercial educational broadcast stations, every three months a list of programs that have provided the station's most significant treatment of community issues during the preceding three month period. The list for each calendar quarter is to be filed by the tenth day of the succeeding calendar quarter (e.g. January 10 for the quarter October–December, April 10 for the quarter January–March, etc.). The list shall include a brief narrative describing what issues were given significant treatment and the programming that provided this treatment. The description of the programs should include, but is not limited to, the time, date, duration and title of each program in which the issue was treated.

(8) The lists of donors supporting specific programs.

(9) Each applicant for renewal of license shall, within 7 days of the last day of broadcast of the local public notice of filing announcements required pursuant to §73.3580(h), place in the station's public inspection file a statement certifying compliance with this requirement. The dates and times that the pre-filing and post-filing notices were broadcast and the text thereof shall be made part of the certifying statement.

(b) *Responsibility in case of assignment or transfer.* (1) In cases involving applications for consent to assignment of broadcast station construction permits or licenses, with respect to which public notice is required to be given under the provisions of §73.3580 or §73.3594, the file mentioned in paragraph (a) of this section shall be maintained by the assignor. If the assignment is consented to by the FCC, and consummated, the assignee shall maintain the file commencing with the date on which notice of the consummation of the assignment is filed with the FCC. The file maintained by the assignee shall cover the period both before and after the time when the notice of consummation of assignment was filed. The assignee is responsible for obtaining copies of the necessary documents from the assignor or from the FCC files.

(2) In cases involving applications for consent to transfer of control of a permittee or licensee of a broadcast station, the file mentioned in paragraph (a) of this section shall be maintained by the permittee or licensee.

(c) *Station to which records pertain.* The file need contain only applications, ownership reports, and related material that concern the station for which the file is kept. Applicants, permittees and licensees need not keep in the file copies of such applications, reports and material which pertain to other stations with regard to which they may be applicants, permittees, or licensees, except to the extent that such information is reflected in the materials required to be kept under the provisions of this section.

(d) *Location of records.* The file shall be maintained at the main studio of the station, where such studio is located in the community to which the station is licensed or where such studio is located outside of the community of license pursuant to authorization granted under §73.1125(a) of the rules prior to July 16, 1987, or at any accessible place (such as a public registry for documents or an attorney's office) in the community to which the station is or is proposed to be licensed. The file shall be available for public inspection at any time during regular business hours.

(e) *Period of retention.* The records specified in paragraph (a)(4) of this section shall be retained for the period specified in §73.1940 (two years). The manual specified in paragraph (a)(6) of this section shall be retained indefinitely. The issues/programs list specified (a)(7) shall be retained for the term of the license (5 years and 7 years for TV and radio respectively). The donor lists specified in paragraph (a)(8) of this section shall be retained for two years. The certification specified in paragraph (a)(9) of this section shall be retained for the period specified in §73.3580 (for as long as the application to which it refers). The records specified in paragraphs (a)(1), (2), (3), and (5)

of this section must be retained as follows:

(1) The applicant for a construction permit for a new station shall maintain such a file so long as the proceeding in which that application was filed is pending before the FCC or any proceeding involving that application is pending before the courts. (If the application is granted, paragraph (e)(2) of this section shall apply.)

(2) The permittee or licensee shall maintain such a file so long as an authorization to operate the station is outstanding, and shall permit public inspection of the material as long as it is retained by the licensee even though the request for inspection is made after the conclusion of the required retention period specified in this paragraph. However, material which is voluntarily retained after the required retention time may be kept in a form and place convenient to the licensee and shall be made available to the inquiring party, in good faith after written request, at a time and place convenient to both the party and the licensee.

Applications and related material placed in the file shall be retained for a period beginning with the date that they are tendered for filing and ending with the expiration of one license term (five (5) years for television licensees or seven (7) years for radio licensees) or until the grant of the first renewal application of the television or radio broadcast license in question, whichever is later, with two exceptions:

(i) Engineering material pertaining to a former mode of operation need not be retained longer than 3 years after a station commences operation under a new or modified mode; and

(ii) Material having a substantial bearing on a matter which is the subject of a claim against the licensee, or relating to an FCC investigation or a complaint to the FCC of which the licensee has been advised, shall be retained until the licensee is notified in writing that the material may be discarded, or, if the matter is a private one, the claim has been satisfied or is barred by statutes of limitations. Where an application or related material incorporates by reference material in an earlier application and material concerning programming and related matters (section IV and related material), the material so referred to shall be retained as long as the application referring to it.

(f) Copies of any material required to be in the public file of any applicant for a construction permit, or permittee or licensee of any noncommercial educational TV or radio station shall be available for machine reproduction upon request made in person, provided the requesting party shall pay the reasonable costs of reproduction. Requests for machine copies shall be fulfilled at a location specified by the applicant, permittee or licensee, within a reasonable period of time which, in no event, shall be longer than seven days unless reproduction facilities are unavailable in the applicant's, permittee's or licensee's community. The applicant, permittee or licensee is not required to honor requests made by mail but may do so if it chooses.

(g) Noncommercial television stations requesting mandatory carriage on any cable system pursuant to § 76.56 of this chapter shall place a copy of such request in its public file and shall retain both the request and relevant correspondence for the duration of any period to which the statement applies.

[50 FR 8632, Mar. 4, 1985, as amended at 53 FR 15225, Apr. 28, 1988; 53 FR 17047, May 13, 1988; 53 FR 32901, Aug. 29, 1988; 59 FR 62344, Dec. 5, 1994]

EFFECTIVE DATE NOTE: At 59 FR 62344, Dec. 5, 1994, § 73.3527 was amended by adding paragraph (g). Paragraph (g) contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

§ 73.3533 Application for construction permit or modification of construction permit.

(a) Application for construction permit, or modification of a construction permit, for a new facility or change in an existing facility is to be made on the following forms:

(1) FCC Form 301, ''Application for Authority to Construct or Make Changes in an Existing Commercial Broadcast Station.''

(2) FCC Form 309, ''Application for Authority to Construct or Make Changes in an Existing International or Experimental Broadcast Stations.''

(3) FCC Form 313, ''Application for Authorization in the Auxiliary Broadcast Services.''

(4) FCC Form 330, ''Application for Authorization to Construct New or Make Changes in an Instructional Television Fixed and/or Response Station(s), or to Assign to Transfer Such Station(s).''

(5) FCC Form 340, ''Application for Authority to Construct or Make Changes in a Noncommercial Educational Broadcast Station.''

(6) FCC Form 346, ''Application for Authority to Construct or Make Changes in a Low Power TV, TV Translator or TV Booster Station.''

(7) FCC Form 349, ''Application for Authority to Construct or Make Changes in an FM Translator or FM Booster Station.''

(b) The filing of an application for modification of construction permit does not extend the expiration date of the construction permit. Extension of the expiration date must be applied for on FCC Form 307, in accordance with the provisions of § 73.3534.

(c) In each application referred to in paragraph (a) of this section, the applicant will provide the Antenna Structure Registration Number (FCC Form 854R) of the antenna structure upon which it will locate its proposed antenna. In the event the antenna structure does not already have a Registration Number, either the antenna structure owner shall file FCC Form 854 (''Application for Antenna Structure Registration'') in accordance with part 17 of this chapter or the applicant shall provide a detailed explanation why registration and clearance of the antenna structure is not necessary.

[44 FR 38494, July 2, 1979, as amended at 47 FR 28388, June 30, 1982; 49 FR 32582, Aug. 15, 1984; 50 FR 40016, Oct. 1, 1985; 53 FR 36788, Sept. 22, 1988; 61 FR 4367, Feb. 6, 1996]

§ 73.3534 Application for extension of construction permit or for construction permit to replace expired construction permit.

(a) Application for extension of time within which to construct a station shall be filed on FCC Form 307, ''Application for Extension of Broadcast Construction Permit or to Replace Expired Construction Permit.'' The application shall be filed at least 30 days prior to the expiration date of the construction permit if the facts supporting such application for extension are known to the applicant in time to permit such filing. In other cases, an application will be accepted upon a showing satisfactory to the FCC of sufficient reasons for filing within less than 30 days prior to the expiration date.

(b) Applications for extension of time to construct broadcast stations, with the exception of International Broadcast and Instructional TV Fixed stations, will be granted only if one of the following three circumstances have occurred:

(1) Construction is complete and testing is underway looking toward prompt filing of a license application;

(2) Substantial progress has been made *i.e.*, demonstration that equipment is on order or on hand, site acquired, site cleared and construction proceeding toward completion; or

(3) No progress has been made for reasons clearly beyond the control of the permittee (such as delays caused by governmental budgetary processes and zoning problems) but the permittee has taken all possible steps to expeditiously resolve the problem and proceed with construction.

(c) Applications for extension of time to construct International Broadcast and Instructional TV Fixed stations will be granted upon a specific and detailed showing that the failure to complete was due to causes not under the control of the permittee, or upon a specific and detailed showing of other sufficient to justify an extension.

(d) If an application for extension of time within which to construct a station is approved, such an extension will be limited to a period of no more than 6 months except when as assignment or transfer has been approved that provides for a longer period up to a maximum of 12 months from the date of consummation.

(e) Application for a construction permit to replace an expired construction permit shall be filed on FCC Form 307. Such applications must be filed within 30 days of the expiration date of the authorization sought to be replaced. If approved, such authorization shall specify a period of not more than

6 months within which construction shall be completed and application for license filed.

[50 FR 52779, Dec. 26, 1985, as amended at 53 FR 36788, Sept. 22, 1988]

§ 73.3535 Application to modify authorized but unbuilt facilities, or to assign or transfer control of an unbuilt facility.

(a) If a permittee finds it necessary to file either an application to modify its authorized, but unbuilt facilities, or an assignment/transfer application, such application shall be filed within the first 9 months of the issuance of the original construction permit for radio and other broadcast and auxiliary stations, or within 12 months of the issuance of the original construction permit for television facilities. Before such an application can be granted, the permittee or assignee must certify that it will immediately begin building after the modification is granted or the assignment is consummated.

(b) Modification and assignment applications filed after the time periods stated in paragraph (a) will not be granted absent a showing that one of the following three criteria apply: (1) Construction is complete and testing is underway looking toward prompt filing of a license application; (2) substantial progress has been made *i.e.*, demonstration that equipment is on order or on hand, site acquired, site cleared and construction proceeding toward completion; or (3) no progress has been made for reasons clearly beyond the control of the permittee (such as delays caused by governmental budgetary processes and zoning problems) but the permittee has taken all possible steps to expeditiously resolve the problem and proceed with construction. A certification by the permittee or the assignee that it immediately will begin building after the modification is granted or the assignment is consummated is also necessary. A seller must make the ''one of three criteria'' showing in an assignment application.

(c) If a modification is granted, the time period allowed for construction will be 6 months from the issuance of the authorization to modify or the remainder of the construction period, whichever is longer. Also, in the case of an assignment, the time period allowed for construction will be 12 months from the consummation of the assignment or the remainder of the construction period, whichever is longer. The extension will be given subject to the condition that the modification is completed or the assignment is consummated. Failure to modify or consummate within the time allowed will result in cancellation of the construction permit.

(d) We will not entertain an application for modification of an authorized but unbuilt facility or an application for assignment or transfer of control of an unbuilt facility if filed after the expiration of the initial construction period.

[50 FR 52779, Dec. 26, 1985]

§ 73.3536 Application for license to cover construction permit.

(a) The application for station license shall be filed by the permittee pursuant to the requirements of § 73.1620 Program tests.

(b) The following application forms shall be used:

(1)(i) Form 302–AM for AM stations, ''Application for New AM Station Broadcast License.''

(ii) Form 302–FM for FM stations, ''Application for FM Station License.''

(iii) Form 302–TV for television stations, ''Application for TV Station Broadcast License.''

(2) FCC Form 310, ''Application for an International or Experimental Broadcast Station License.''

(3) FCC Form 313, ''Application for Authorization in the Auxiliary Broadcast Services.''

(4) FCC Form 330–L ''Application for Instructional Television Fixed Station License.''

(5) FCC Form 347, ''Application for a Low Power TV, TV Translator or TV Booster Station License.''

(6) FCC Form 350, ''Application for an FM Translator or FM Booster Station License.''

[44 FR 38495, July 2, 1979, as amended at 49 FR 32582, Aug. 15, 1984; 50 FR 40016, Oct. 1, 1985; 51 FR 18451, May 20, 1986; 51 FR 32088, Sept. 9, 1986; 52 FR 31400, Aug. 20, 1987; 53 FR 36788, Sept. 22, 1988; 62 FR 51063, Sept. 30, 1997]

EFFECTIVE DATE NOTE: At 62 FR 51063, Sept. 30, 1997, § 73.3536 was amended by revising paragraph (b)(1), effective Dec. 1, 1997. For the convenience of the user, the superseded text is set forth as follows:

§ 73.3536 Application for license to cover construction permit.

* * * * *

(b) * * *

(1) FCC Form 302, ''Application for a New Broadcast Station License.''

* * * * *

§ 73.3537 Application for license to use former main antenna as an auxiliary.

See § 73.1675, *Auxiliary facility*.

[62 FR 51063, Sept. 30, 1997]

EFFECTIVE DATE NOTE; At 62 FR 51063, Sept. 30, 1997, § 73.3537 was revised, effective Dec. 1, 1997. For the convenience of the user, the superseded text is set forth as follows:

§ 73.3537 Application for license to use former main antenna as an auxiliary.

A licensee may apply on FCC Form 302 for authority to use a formerly licensed main antenna system as an auxiliary antenna.

[51 FR 32088, Sept. 9, 1986]

§ 73.3538 Application to make changes in an existing station.

Where prior authority is required from the FCC to make changes in an existing station, the following procedures shall be used to request that authority:

(a) An application for construction permit using the forms listed in § 73.3533 must be filed for authority to:

(1) Make any of the changes listed in § 73.1690(b).

(2) Change the hours of operation of an AM station, where the hours of operation are specified on the license or permit.

(3) Install a transmitter which has not been approved (type accepted) by the FCC for use by licensed broadcast stations.

(4) Any change in the location, height, or directional radiating characteristics of the antenna or antenna system.

(b) An informal application filed in accordance with § 73.3511 is to be used to obtain authority to make the following changes in the station authorization:

(1) To specify a new AM station directional antenna field monitoring point as a substitute for one that is no longer suitable or available, such as due to construction. The request is to include sufficient measurement data taken at the new monitoring point to establish its reliability in comparison with data taken at the old monitoring point on the same radial, the routing directions to the new point, a location photograph, and such other information as the FCC may request.

(2) To modify or discontinue the obstruction marking or lighting of the antenna supporting structure where that specified on the station authorization either differs from that specified in FCC Rules, part 17, or is not appropriate for other reasons.

(3) Relocation of a main studio outside the principal community contour may require the filing and approval of a letter request for authority to make this change prior to implementation. *See* § 73.1125.

[44 FR 38495, July 2, 1979, as amended at 44 FR 69935, Dec. 5, 1979; 49 FR 4000, Feb. 1, 1984; 52 FR 21685, June 9, 1987; 62 FR 51063, Sept. 30, 1997]

EFFECTIVE DATE NOTE: At 62 FR 51063, Sept. 30, 1997, § 73.3538 was amended by revising the introductory text, the introductory text of paragraph (a), and paragraphs (a)(1) through (a)(3); by removing paragraphs (a)(5) through (a)(7); and by adding paragraph (b)(3), effective Dec. 1, 1997. For the convenience of the user, the superseded text is set forth as follows:

§ 73.3538 Application to make changes in an existing station.

Where prior authority from the FCC is required to make changes in an existing station the following procedures shall be used to request that authority:

(a) An application for a construction permit using the forms specified in § 73.3533 must be filed for authority to make the following changes:

(1) Any change involving frequency, power or location of the station.

(2) A change in the hours of operation of an AM station, where the hours of operation are specified on the station license.

(3) The installation of a transmitter which has not been authorized by the FCC for use by licensed broadcast stations.

(4) * * *

(5) To move the main studio location of an AM station to a location outside the principal community contour or to move the studio from one location outside the principal community contour to another such location (other than to a point within the principal community). See § 73.1125.

(6) To move the main studio of an FM station to a location outside the principal community contour or to move the studio from one location outside the principal community contour to another such location (other than to the collocated studio-transmitter site of a commonly-owned AM station licensed to the same community or to a point within the principal community). See § 73.1125.

(7) To move the main studio of a TV station to a location outside the principal community contour or to move the studio from one location outside the principal community contour to another such location (other than to a point within the principal community). See § 73.1125.

* * * * *

§ 73.3539 Application for renewal of license.

(a) Unless otherwise directed by the FCC, an application for renewal of license shall be filed not later than the first day of the fourth full calendar month prior to the expiration date of the license sought to be renewed, except that applications for renewal of license of an experimental broadcast station shall be filed not later than the first day of the second full calendar month prior to the expiration date of the license sought to be renewed. If any deadline prescribed in this paragraph falls on a nonbusiness day, the cutoff shall be the close of business of the first full business day thereafter.

(b) No application for renewal of license of any broadcast station will be considered unless there is on file with the FCC the information currently required by §§ 73.3612 through 73.3615, inclusive, for the particular class of station.

(c) Whenever the FCC regards an application for a renewal of license as essential to the proper conduct of a hearing or investigation, and specifically directs that it be filed by a date certain, such application shall be filed within the time thus specified. If the licensee fails to file such application within the prescribed time, the hearing or investigation shall proceed as if such renewal application had been received.

(d) Renewal application forms titles and numbers are listed in § 73.3500, Application and Report Forms.

[44 FR 38495, July 2, 1979, as amended at 47 FR 28388, June 30, 1982; 49 FR 32582, Aug. 15, 1984]

§ 73.3540 Application for voluntary assignment or transfer of control.

(a) Prior consent of the FCC must be obtained for a voluntary assignment or transfer of control.

(b) Application should be filed with the FCC at least 45 days prior to the contemplated effective date of assignment or transfer of control.

(c) Application for consent to the assignment of construction permit or license must be filed on FCC Form 314 ''Assignment of license'' or FCC Form 316 ''Short form'' (See paragraph (f) of this section).

(d) Application for consent to the transfer of control of a corporation holding a construction permit or license must be filed on FCC Form 315 ''Transfer of Control'' or FCC Form 316 ''Short form'' (see paragraph (f) of this section).

(e) Application for consent to the assignment of construction permit or license or to the transfer of control of a corporate licensee or permittee for an FM or TV translator station, a low power TV station and any associated auxiliary station, such as translator microwave relay stations and UHF translator booster stations, only must be filed on FCC Form 345 ''Application for Transfer of Control of Corporate Licensee or Permittee, or Assignment of License or Permit for an FM or TV translator Station, or a Low Power TV Station.''

(f) The following assignment or transfer applications may be filed on FCC ''Short form'' 316:

(1) Assignment from an individual or individuals (including partnerships) to a corporation owned and controlled by such individuals or partnerships without any substantial change in their relative interests;

(2) Assignment from a corporation to its individual stockholders without effecting any substantial change in the disposition of their interests;

(3) Assignment or transfer by which certain stockholders retire and the interest transferred is not a controlling one;

(4) Corporate reorganization which involves no substantial change in the beneficial ownership of the corporation;

(5) Assignment or transfer from a corporation to a wholly owned subsidiary thereof or vice versa, or where there is an assignment from a corporation to a corporation owned or controlled by the assignor stockholders without substantial change in their interests; or

(6) Assignment of less than a controlling interest in a partnership.

[44 FR 38496, July 2, 1979, as amended at 48 FR 21486, May 12, 1983; 49 FR 47843, Dec. 7, 1984; 50 FR 32416, Aug. 12, 1985]

§ 73.3541 Application for involuntary assignment of license or transfer of control.

(a) The FCC shall be notified in writing promptly of the death or legal disability of an individual permittee or licensee, a member of a partnership, or a person directly or indirectly in control of a corporation which is a permittee or licensee.

(b) Within 30 days after the occurrence of such death or legal disability, an application on FCC Form 316 shall be filed requesting consent to involuntary assignment of such permit or license or for involuntary transfer of control of such corporation to a person or entity legally qualified to succeed to the foregoing interests under the laws of the place having jurisdiction over the estate involved.

[44 FR 38496, July 2, 1979]

§ 73.3542 Application for emergency authorization.

(a) Authority may be granted, on a temporary basis, in extraordinary circumstances requiring emergency operation to serve the public interest. such situations include: emergencies involving danger to life and property; a national emergency proclaimed by the President or the Congress of the U.S.A and; the continuance of any war in which the United States is engaged, and where such action is necessary for the national defense or security or otherwise in furtherance of the war effort.

(1) An informal application may be used. The FCC may grant such construction permits, station licenses, modifications or renewals thereof, without the filing of a formal application.

(2) No authorization so granted shall continue to be effective beyond the period of the emergency or war requiring it.

(3) Each individual request submitted under the provisions of this paragraph shall contain, as a minimum requirement, the following information:

(i) Name and address of applicant.

(ii) Location of proposed installation or operation.

(iii) Official call letters of any valid station authorization already held by applicant and the station location.

(iv) Type of service desired (not required for renewal or modification unless class of station is to be modified).

(v) Frequency assignment, authorized transmitter power(s), authorized class(es) of emission desired (not required for renewal; required for modification only to the extent such information may be involved).

(vi) Equipment to be used, specifying the manufacturer and type or model number (not required for renewal; required for modification only to the extent such information may be involved).

(vii) Statements to the extent necessary for the FCC to determine whether or not the granting of the desired authorization will be in accordance with the citizenship eligibility requirements of section 310 of the Cummunications Act.

(viii) Statement of facts which, in the opinion of the applicant, constitute an emergency to be found by the FCC for the purpose of this section. This statement must also include the estimated duration of the emergency and if during an emergency or war declared by the President or Congress, why such action, without formal application, is necessary for the national defense or security or in furtherance of the war effort.

(b) Emergency operating authority issued under this section may be cancelled or modified by the FCC without

prior notice or right to hearing. See also § 73.1250, Broadcasting Emergency Information, for situations in which emergency operation may be conducted without prior authorization, and § 73.1635, Special Temporary Authorization (STA), for temporary operating authorizations necessitated by circumstances not within the ambit of its section.

[50 FR 30948, July 31, 1985]

§ 73.3543 Application for renewal or modification of special service authorization.

(a) No new special service authorization will be issued. However, consideration will be given to renewal or modification of a special service authorization which was outstanding on February 3, 1958, providing a satisfactory showing has been made in regard to the following, among others:

(1) That the requested operation may not be granted on a regular basis under the existing rules governing the operation of AM stations;

(2) That experimental operation is not involved as provided for by § 73.1510 (Experimental authorizations); and

(3) That public interest, convenience and necessity will be served by the authorization requested.

[44 FR 38496, July 2, 1979]

§ 73.3544 Application to obtain a modified station license.

Where prior authority from the FCC is not required to make certain changes in the station authorization or facilities, but a modified station license must be obtained, the following procedures shall be used to obtain modification of the station license:

(a) The changes specified in § 73.1690(c) may be made by the filing of a license application using the forms listed in § 73.3536(b)(1).

(b) An informal application filed according to the procedures specified in § 73.3511(b) shall be used to cover the following changes:

(1) A correction of the routing instructions and description of an AM station directional antenna system field monitoring point, when the point itself is not changed.

(2) A change in the type of AM station directional antenna monitor. See § 73.69.

(3) A change in the location of the station main studio when prior authority to move the main studio location is not required.

(4) The location of a remote control point of an AM or FM station when prior authority to operate by remote control is not required.

(c) A change in the name of the licensee where no change in ownership or control is involved may be accomplished by written notification by the licensee to the Commission.

[44 FR 38497, July 2, 1979, as amended at 45 FR 20483, Mar. 28, 1980; 50 FR 32416, Aug. 12, 1985; 62 FR 51063, Sept. 30, 1997]

EFFECTIVE DATE NOTE: At 62 FR 51063, Sept. 30, 1997, § 73.3544 was amended by revising paragraph (a), effective Dec. 1, 1997. For the convenience of the user, the superseded text is set forth as follows:

§ 73.3544 Application to obtain a modified station license.

* * * * *

(a) An application for a station license using the forms specified in § 73.3536 shall be used to cover the following changes:

(1) A change in the type of FM or TV transmitting antenna where prior authority from the FCC is not required to make such a change. See § 73.1690, Modification of transmission systems.

(2) A change in the output power of FM or TV aural or visual transmitters to accommodate a change in the antenna type or transmission line.

* * * * *

§ 73.3545 Application for permit to deliver programs to foreign stations.

Application under section 325(c) of the Communications Act for authority to locate, use, or maintain a broadcast studio in connection with a foreign station consistently received in the United States, should be made on FCC Form 308, ''Application for Permit to Deliver Programs to Foreign Broadcast Stations.'' An informal application may be used by applicants holding an AM, FM or TV broadcast station license or construction permit. Informal applications must, however, contain a description of the nature and character

of the programming proposed, together with other information requested on Page 4 of Form 308.

[44 FR 38497, July 2, 1979, as amended at 58 FR 51250, Oct. 1, 1993]

§ 73.3549 Requests for extension of authority to operate without required monitors, indicating instruments, and EAS encoders and decoders.

Requests for extension of authority to operate without required monitors, transmission system indicating instruments, or encoders and decoders for monitoring and generating the EAS codes and Attention Signal should be made to the Engineer in Charge of the Field Office in which the station is operating. Such requests must contain information as to when and what steps were taken to repair or replace the defective equipment and a brief description of the alternative procedures being used while the defective equipment is out of service.

[44 FR 38497, July 2, 1979, as amended at 59 FR 67103, Dec. 28, 1994]

§ 73.3550 Requests for new or modified call sign assignments.

(a) Requests for new or modified call sign assignments for broadcast stations shall be made by letter to the Secretary, FCC, Washington, DC 20554. An original and one copy of the letter shall be submitted. Incomplete or otherwise defective filings will be returned by the FCC. As many as five call sign choices, listed in decending order of preference, may be included in a single request. A call sign may not be reserved.

(b) No request for a new call sign assignment will be accepted from an applicant for a new station until the FCC has granted a construction permit. Failure by the permittee of a new station to request the assignment of a specific call sign within 30 days of grant of the construction permit will result in the FCC, on its own motion, assigning an appropriate call sign. All initial construction permits for low power TV stations will be issued with a five-character low power TV call sign.

(c) An applicant for transfer or assignment of an outstanding construction permit or license may, in accordance with this section, request a new call sign assignment at the time the application for transfer or assignment is filed, or at any time thereafter. In the absence of written consent of the proposed transferor or assignor, no change in call sign assignment will be made effective until such application is granted by the FCC and the transaction consummated.

(d) Where an application is granted by the FCC for transfer or assignment of the construction permit or license of a station whose existing call sign conforms to that of a commonly owned station not part of the transaction, the licensee shall, within 30 days after consummation, request a different call sign or submit a statement of written consent to retain the conforming call sign from the existing owner and the licensee of any other station that may be using the station's call sign. In such cases, should a suitable application or proper consent statement not be submitted within that period of time, the FCC will, on its own motion, select an appropriate call sign and effect the change in call sign assignment.

(e) Call signs beginning with the letter ''K'' will not be assigned to stations located east of the Mississippi River, nor will call signs beginning with the letter ''W'' be assigned to stations located west of the Mississippi River.

(f) Only four-letter call signs (plus an LP suffix or FM or TV suffixes, if used) will be assigned. However, subject to the other provisions of this section, a call sign of a station may be conformed to a commonly owned station holding a three-letter call assignment (plus FM, TV or LP suffixes, if used).

(g) Subject to the foregoing limitations, applicants may request call signs of their choice if the combination is available. Objections to the assignment of requested call signs will not be entertained at the FCC. However, this does not hamper any party from asserting such rights as it may have under private law in some other forum. Should it be determined by an appropriate forum that a station should not utilize a particular call sign, the initial assignment of a call sign will not serve as a bar to the making of a different assignment.

(h) Call signs are assigned on a ''first-come-first-served'' basis. Receipt by

the FCC of a request for an available call sign blocks the acceptance of competing requests until the first received request is processed to completion. In the case of requests for the same call sign being received on the same date at the FCC, the assignment (if otherwise grantable) will be made to the station having the longest continuous record of broadcasting operation under substantially unchanged ownership and control. However, involuntary and *pro forma* assignments will not be taken into account in determining priority. If a low-power TV operator and an AM, FM or full-power TV operator apply for the same call sign on the same date at the FCC, the AM, FM or full-power TV operator will prevail.

NOTE: The provisions of paragraph (h) of this section shall not apply to a licensee requesting a transfer to another frequency where the existing and new facilities serve substantially the same area (*i.e.,* where at least one of the stations serves both communities of license).

(i) Stations in different broadcast services (or operating jointly in the 535–1605 kHz band and in the 1605–1705 kHz band) which are under common control may request that their call signs be conformed by the assignment of the same basic call sign if that call sign is not being used by a non-commonly owned station. For the purposes of this paragraph, 50% or greater common ownership shall constitute a prima facie showing of common control.

(j) The provisions of this section shall not apply to International broadcast stations, to stations authorized under Part 74 of the rules (except as provided in § 74.783 of this chapter), nor to FM or TV stations seeking to modify an existing call sign only to the extent of adding or deleting an ''–FM'' or ''–TV'' suffix. The latter additions and deletions may be effective upon notification to the Commission.

(k) Unless subject to a pending transfer or assignment application, a change in call sign assignment will be made effective on the date specified in the telegram authorizing the change. In this regard, the applicant may include with its application a request for a specific effective date to take place within 45 days of the submission of its application for a call sign. Postponement of the effective date will be granted only in response to a timely request and for only the most compelling reasons.

(l) Four-letter combinations commencing with ''W'' or ''K'' which are assigned as call signs to ships or to other radio services are not available for assignment to broadcast stations, with or without the ''–FM'' or ''–TV'' suffix.

(m) Users of nonlicensed, low-power devices operating under Part 15 of the FCC rules may use whatever identification is currently desired, so long as propriety is observed and no confusion results with a station for which the FCC issues a license.

(n) Where a requested call sign, without the ''–FM,'' ''–TV'' or ''–LP'' suffix, would conform to the call sign of any other non-commonly owned station(s) operating in a different service, the applicant must obtain and submit with the application for the call sign the written consent of the licensee(s) of such stations.

[48 FR 57136, Dec. 28, 1983, as amended at 52 FR 5295, Feb. 20, 1987; 52 FR 43079, Nov. 9, 1987; 56 FR 64873, Dec. 12, 1991; 59 FR 31556, June 20, 1994]

§ 73.3555 Multiple ownership.

(a)(1) *Radio contour overlap rule.* No license for an AM or FM broadcasting station shall be granted to any party (including all parties under common control) if the grant of such license will result in overlap of the principal community contour of that station and the principal community contour of any other broadcasting station directly or indirectly owned, operated, or controlled by the same party, except that such license may be granted in connection with a transfer or assignment from an existing party with such interests, or in the following circumstances:

(i) In a radio market with 45 or more commercial radio stations, a party may own, operate, or control up to 8 commercial radio stations, not more than 5 of which are in the same service (AM or FM);

(ii) In a radio market with between 30 and 44 (inclusive) commercial radio stations, a party may own, operate, or

control up to 7 commercial radio stations, not more than 4 of which are in the same service (AM or FM);

(iii) In a radio market with between 15 and 29 (inclusive) commercial radio stations, a party may own, operate, or control up to 6 commercial radio stations, not more than 4 of which are in the same service (AM or FM); and

(iv) In a radio market with 14 or fewer commercial radio stations, a party may own, operate, or control up to 5 commercial radio stations, not more than 3 of which are in the same service (AM or FM), except that a party may not own, operate, or control more than 50 percent of the stations in such market.

(2) Overlap between two stations in different services is permissible if neither of those two stations overlaps a third station in the same service.

(3) (i) Where the principal community contours of two radio stations overlap and a party (including all parties under common control) with an attributable ownership interest in one such station brokers more than 15 percent of the broadcast time per week of the other such station, that party shall be treated as if it has an interest in the brokered station subject to the limitations set forth in paragraph (a)(1) of this section. This limitation shall apply regardless of the source of the brokered programming supplied by the party to the brokered station.

(ii) Every time brokerage agreement of the type described in paragraph (a)(3)(i) of this section shall be undertaken only pursuant to a signed written agreement that shall contain a certification by the licensee or permittee of the brokered station verifying that it maintains ultimate control over the station's facilities, including specifically control over station finances, personnel and programming, and by the brokering station that the agreement complies with the provisions of paragraph (a) of this section.

(4) For purposes of this paragraph (a):

(i) The ''principal community contour'' for AM stations is the predicted or measured 5 mV/m groundwave contour computed in accordance with § 73.183 or § 73.186 and for FM stations is the predicted 3.16 mV/m contour computed in accordance with § 73.313.

(ii) The number of stations in a radio market is the number of commercial stations whose principal community contours overlap, in whole or in part, with the principal community contours of the stations in question (i.e., the station for which an authorization is sought and any station in the same service that would be commonly owned whose principal community contour overlaps the principal community contour of that station). In addition, if the area of overlap between the stations in question is overlapped by the principal community contour of a commonly owned station or stations in a different service (AM or FM), the number of stations in the market includes stations whose principal community contours overlap the principal community contours of such commonly owned station or stations in a different service.

(iii) ''Time brokerage'' is the sale by a licensee of discrete blocks of time to a ''broker'' that supplies the programming to fill that time and sells the commercial spot announcements in it.

(b) *Television contour overlap (duopoly) rule.* No license for a TV broadcast station shall be granted to any party (including all parties under common control) if the grant of such license will result in overlap of the Grade B contour of that station (computed in accordance with § 73.684) and the Grade B contour of any other TV broadcast station directly or indirectly owned, operated, or controlled by the same party.

(c) *One-to-a-market ownership rule.* No license for an AM, FM or TV broadcast station shall be granted to any party (including all parties under common control) if such party directly or indirectly owns, operates or controls one or more such broadcast stations and the grant of such license will result in:

(1) The predicted or measured 2 mV/m groundwave contour of an existing or proposed AM station, computed in accordance with § 73.183 or § 73.186, encompassing the entire community of license of an existing or proposed TV broadcast station(s), or the Grade A contour(s) of the TV broadcast station(s), computed in accordance with § 73.684, encompassing the entire community of license of the AM station; or

(2) The predicted 1 mV/m contour of an existing or proposed FM station,

computed in accordance with § 73.313, encompassing the entire community of license of an existing or proposed TV broadcast station(s), or the Grade A contour(s) of the TV broadcast station(s), computed in accordance with § 73.684, encompassing the entire community of license of the FM station.

(d) *Daily newspaper cross-ownership rule.* No license for an AM, FM or TV broadcast station shall be granted to any party (including all parties under common control) if such party directly or indirectly owns, operates or controls a daily newspaper and the grant of such license will result in:

(1) The predicted or measured 2 mV/m contour of an AM station, computed in accordance with § 73.183 or § 73.186, encompassing the entire community in which such newspaper is published; or

(2) The predicted 1 mV/m contour for an FM station, computed in accordance with § 73.313, encompassing the entire community in which such newspaper is published; or

(3) The Grade A contour of a TV station, computed in accordance with § 73.684, encompassing the entire community in which such newspaper is published.

(e)(1) *National television multiple ownership rule.* No license for a commercial TV broadcast station shall be granted, transferred or assigned to any party (including all parties under common control) if the grant, transfer or assignment of such license would result in such party or any of its stockholders, partners, members, officers or directors, directly or indirectly, owning, operating or controlling, or having a cognizable interest in TV stations which have an aggregate national audience reach exceeding thirty-five (35) percent.

(2) For purposes of this paragraph (e):

(i) *National audience reach* means the total number of television households in the Arbitron Area of Dominant Influence (ADI) markets in which the relevant stations are located divided by the total national television households as measured by ADI data at the time of a grant, transfer or assignment of a license. For purposes of making this calculation, UHF television stations shall be attributed with 50 percent of the television households in their ADI market. Where the relevant application forms require a showing with respect to audience reach and the application relates to an area where Arbitron ADI market data are unavailable, then the applicant shall make a showing as to the number of television households in its market. Upon such a showing, the Commission shall make a determination as to the appropriate audience reach to be attributed to the applicant.

(ii) *TV broadcast station or TV station* excludes stations which are primarily satellite operations.

(f) This section is not applicable to noncommercial educational FM and noncommercial educational TV stations.

NOTE 1: The word ''control'' as used herein is not limited to majority stock ownership, but includes actual working control in whatever manner exercised.

NOTE 2: In applying the provisions of this section, ownership and other interests in broadcast licensees, cable television systems and daily newspapers will be attributed to their holders and deemed cognizable pursuant to the following criteria:

(a) Except as otherwise provided herein, partnership and direct ownership interests and any voting stock interest amounting to 5% or more of the outstanding voting stock of a corporate broadcast licensee, cable television system or daily newspaper will be cognizable;

(b) No minority voting stock interest will be cognizable if there is a single holder of more than 50% of the outstanding voting stock of the corporate broadcast licensee, cable television system or daily newspaper in which the minority interest is held;

(c) Investment companies, as defined in 15 U.S.C. 80a–3, insurance companies and banks holding stock through their trust departments in trust accounts will be considered to have a cognizable interest only if they hold 10% or more of the outstanding voting stock of a corporate broadcast licensee, cable television system or daily newspaper, or if any of the officers or directors of the broadcast licensee, cable television system or daily newspaper are representatives of the investment company, insurance company or bank concerned. Holdings by a bank or insurance company will be aggregated if the bank or insurance company has any right to determine how the stock will be voted. Holdings by investment companies will be aggregated if under common management.

(d) Attribution of ownership interests in a broadcast licensee, cable television system or daily newspaper that are held indirectly

by any party through one or more intervening corporations will be determined by successive multiplication of the ownership percentages for each link in the vertical ownership chain and application of the relevant attribution benchmark to the resulting product, except that wherever the ownership percentage for any link in the chain exceeds 50%, it shall not be included for purposes of this multiplication. [For example, if A owns 10% of company X, which owns 60% of company Y, which owns 25% of ''Licensee,'' then X's interest in ''Licensee'' would be 25% (the same as Y's interest since X's interest in Y exceeds 50%), and A's interest in ''Licensee'' would be 2.5% (0.1×0.25). Under the 5% attribution benchmark, X's interest in ''Licensee'' would be cognizable, while A's interest would not be cognizable.]

(e) Voting stock interests held in trust shall be attributed to any person who holds or shares the power to vote such stock, to any person who has the sole power to sell such stock, and to any person who has the right to revoke the trust at will or to replace the trustee at will. If the trustee has a familial, personal or extra-trust business relationship to the grantor or the beneficiary, the grantor or beneficiary, as appropriate, will be attributed with the stock interests held in trust. An otherwise qualified trust will be ineffective to insulate the grantor or beneficiary from attribution with the trust's assets unless all voting stock interests held by the grantor or beneficiary in the relevant broadcast licensee, cable television system or daily newspaper are subject to said trust.

(f) Holders of non-voting stock shall not be attributed an interest in the issuing entity. Holders of debt and instruments such as warrants, convertible debentures, options or other non-voting interests with rights of conversion to voting interests shall not be attributed unless and until conversion is effected.

(g)(1) A limited partnership interest shall be attributed to a limited partner unless that partner is not materially involved, directly or indirectly, in the management or operation of the media-related activities of the partnership and the licensee or system so certifies.

(2) In order for a licensee or system to make the certification set forth in paragraph (g)(1) of this section, it must verify that the partnership agreement or certificate of limited partnership, with respect to the particular limited partner exempt from attribution, establishes that the exempt limited partner has no material involvement, directly or indirectly, in the management or operation of the media activities of the partnership. The criteria which would assume adequate insulation for purposes of this certification are described in the *Memorandum Opinion and Order* in MM Docket No. 83–46, FCC 85–252 (released June 24, 1985), as modified on reconsideration in the *Memorandum Opinion and Order* in MM Docket No. 83–46, FCC 86–410 (released November 28, 1986). Irrespective of the terms of the certificate of limited partnership or partnership agreement, however, no such certification shall be made if the individual or entity making the certification has actual knowledge of any material involvement of the limited partners in the management or operation of the media-related businesses of the partnership.

(h) Officers and directors of a broadcast licensee, cable television system or daily newspaper are considered to have a cognizable interest in the entity with which they are so associated. If any such entity engages in businesses in addition to its primary business of broadcasting, cable television service or newspaper publication, it may request the Commission to waive attribution for any officer or director whose duties and responsibilities are wholly unrelated to its primary business. The officers and directors of a parent company of a broadcast licensee, cable television system or daily newspaper, with an attributable interest in any such subsidiary entity, shall be deemed to have a cognizable interest in the subsidiary unless the duties and responsibilities of the officer or director involved are wholly unrelated to the broadcast licensee, cable television system or daily newspaper subsidiary, and a statement properly documenting this fact is submitted to the Commission. [This statement may be included on the appropriate Ownership Report.] The officers and directors of a sister corporation of a broadcast licensee, cable television system or daily newspaper shall not be attributed with ownership of these entities by virtue of such status.

(i) Discrete ownership interests will be aggregated in determining whether or not an interest is cognizable under this section. An individual or entity will be deemed to have a cognizable investment if:

(1) The sum of the interests held by or through ''passive investors'' is equal to or exceeds 10 percent; or

(2) The sum of the interests other than those held by or through ''passive investors'' is equal to or exceeds 5 percent; or

(3) The sum of the interests computed under paragraph (i)(1) of this section plus the sum of the interests computed under paragraph (i)(2) of this section is equal to or exceeds 10 percent.

NOTE 3: In cases where record and beneficial ownership of voting stock is not identical (*e.g.*, bank nominees holding stock as record owners for the benefit of mutual funds, brokerage houses holding stock in street names for the benefit of customers, investment advisors holding stock in their own names for the benefit of clients, and insurance companies holding stock), the party having the right to determine how the stock

will be voted will be considered to own it for purposes of these rules.

NOTE 4: Paragraphs (a) through (e) of this section will not be applied so as to require divestiture, by any licensee, of existing facilities, and will not apply to applications for increased power for Class C stations, to applications for assignment of license or transfer of control filed in accordance with § 73.3540(f) or § 73.3541(b), or to applications for assignment of license or transfer of control to heirs or legatees by will or intestacy if no new or increased overlap would be created between commonly owned, operated or controlled broadcast stations in the same service and if no new encompassment of Communities proscribed in paragraphs (c) and (d) of this section as to commonly owned, operated or controlled broadcast stations or daily newspaper would result. Said paragraphs will apply to all applications for new stations, to all other applications for assignment or transfer, and to all applications for major changes in existing stations except major changes that will result in overlap of contours of broadcast stations in the same service with each other no greater than already existing. (The resulting areas of overlap of contours of such broadcast stations with each other in such major change cases may consist partly or entirely of new terrain. However, if the population in the resulting areas substantially exceeds that in the previously existing overlap areas, the Commission will not grant the application if it finds that to do so would be against the public interest, convenience or necessity.) Commonly owned, operated or controlled broadcast stations with overlapping contours or with community-encompassing contours prohibited by this section may not be assigned or transferred to a single person, group or entity, except as provided above in this note and by § 73.3555(a). If a commonly owned, operated or controlled broadcast station and daily newspaper fall within the encompassing proscription of this section, the station may not be assigned to a single person, group or entity if the newspaper is being simultaneously sold to such single person, group or entity.

NOTE 5: Paragraphs (a) through (e) of this section will not be applied to cases involving television stations that are ''satellite'' operations. Such cases will be considered in accordance with the analysis set forth in the *Report and Order* in MM Docket No. 87–8, FCC 91–182(released July 8, 1991), in order to determine whether common ownership, operation, or control of the stations in question would be in the public interest. An authorized and operating ''satellite'' television station, the Grade B contour of which overlaps that of a commonly owned, operated, or controlled ''non-satellite'' parent television broadcast station, or the Grade A contour of which completely encompasses the community of publication of a commonly owned, operated, or controlled daily newspaper, or the community of license of a commonly owned, operated, or controlled AM or FM broadcast station, or the community of license of which is completely encompassed by the 2 mV/m contour of such AM broadcast station or the 1 mV/m contour of such FM broadcast station, may subsequently become a ''non-satellite'' station under the circumstances described in the aforementioned *Report and Order* in MM Docket No. 87–8. However, such commonly owned, operated, or controlled ''non-satellite'' television stations and AM or FM stations with the aforementioned community encompassment, may not be transferred or assigned to a single person, group, or entity except as provided in Note 4 of this section. Nor shall any application for assignment or transfer concerning such ''non-satellite'' stations be granted if the assignment or transfer would be to the same person, group or entity to which the commonly owned, operated, or controlled newspaper is proposed to be transferred, except as provided in Note 4 of this section.

NOTE 6: For the purposes of this section a daily newspaper is one which is published four or more days per week, which is in the English language and which is circulated generally in the community of publication. A college newspaper is not considered as being circulated generally.

NOTE 7: The Commission will entertain requests to waive the restrictions of paragraph (c) of this section on a case-by-case basis. The Commission will look favorably upon waiver applications that meet either of the following two standards:

(1) Those involving radio and television station combinations in the top 25 television markets where there will be at least 30 separately owned, operated and controlled broadcast licensees after the proposed combination, as determined by counting television licensees in the relevant ADI television market and radio licensees in the relevant television metropolitan market;

(2) Those involving ''failed'' broadcast stations that have not been operated for a substantial period of time, *e.g.*, four months, or that are involved in bankruptcy proceedings. For the purposes of determining the top 25 ADI television markets, the relevant ADI television market, and the relevant television metropolitan market for each prospective combination, we will use the most recent *Arbitron Ratings Television ADI Market Guide.* We will determine that number of radio stations in the relevant television metropolitan market and the number of television licensees within the relevant ADI television market based on the most recent Commission ownership records.

Other waiver requests will be evaluated on a more rigorous case-by-case basis, as set forth in the *Second Report and Order* in MM Docket No. 87–7, FCC 88–407, released February 23, 1989, and *Memorandum Opinion and Order* in MM Docket No. 87–7, FCC 89–256, released August 4, 1989.

NOTE 8: Paragraph (a)(1) of this section will not apply to an application for an AM station license in the 535–1605 kHz band where grant of such application will result in the overlap of 5 mV/m groundwave contours of the proposed station and that of another AM station in the 535–1605 kHz band that is commonly owned, operated or controlled if the applicant shows that a significant reduction in interference to adjacent or co-channel stations would accompany such common ownership. Such AM overlap cases will be considered on a case-by-case basis to determine whether common ownership, operation or control of the stations in question would be in the public interest. Applicants in such cases must submit a contingent application of the major or minor facilities change needed to achieve the interference reduction along with the application which seeks to create the 5 mV/m overlap situation.

NOTE 9: Paragraph (a)(1) of this section will not apply to an application for an AM station license in the 1605–1705 kHz band where grant of such application will result in the overlap of the 5 mV/m groundwave contours of the proposed station and that of another AM station in the 535–1605 kHz band that is commonly owned, operated or controlled. Paragraphs (d)(1)(i) and (d)(1)(ii) of this section will not apply to an application for an AM station license in the 1605–1705 kHz band by an entity that owns, operates, controls or has a cognizable interest in AM radio stations in the 535–1605 kHz band.

NOTE 10: Authority for joint ownership granted pursuant to Note 9 will expire at 3 a.m. local time on the fifth anniversary for the date of issuance of a construction permit for an AM radio station in the 1605–1705 kHz band.

[59 FR 49007, Sept. 26, 1994, as amended at 59 FR 62613, Dec. 6, 1994; 61 FR 10690 and 10692, Mar. 15, 1996]

§ 73.3556 Duplication of programming on commonly owned or time brokered stations.

(a) No commercial AM or FM radio station shall operate so as to devote more than 25 percent of the total hours in its average broadcast week to programs that duplicate those of any station in the same service (AM or FM) which is commonly owned or with which it has a time brokerage agreement if the principal community contours (predicted or measured 5 mV/m groundwave for AM stations and predicted 3.16 mV/m for FM stations) of the stations overlap and the overlap constitutes more than 50 percent of the total principal community contour service area of either station.

(b) For purposes of this section, duplication means the broadcasting of identical programs within any 24 hour period.

(c) Any party engaged in a time brokerage arrangement which conflicts with the requirements of paragraph (a) of this section on September 16, 1992, shall bring that arrangement into compliance within one year thereafter.

[57 FR 18093, Apr. 29, 1992, as amended at 57 FR 42706, Sept. 16, 1992]

EFFECTIVE DATE NOTE: At 57 FR 18093, Apr. 29, 1992, § 73.3556 was added, effective August 1, 1992. At 57 FR 35763, Aug. 11, 1992, the effective date was deferred pending action by the agency. At 57 FR 37888, Aug. 21, 1992, the effective date was further deferred. At 57 FR 42706, Sept. 16, 1992, paragraph (a) was revised and paragraph (c) was added, effective September 16, 1992. The agency will publish a notice of the effective date of paragraph (b) in the FEDERAL REGISTER at a later date.

§ 73.3561 Staff consideration of applications requiring Commission action.

Upon acceptance of an application, the complete file is reviewed by the staff and, except where the application is acted upon by the staff pursuant to delegation of authority, a report containing the recommendations of the staff and any other documents required is prepared and placed on the Commission's agenda.

[44 FR 38499, July 2, 1979]

§ 73.3562 Staff consideration of applications not requiring action by the Commission.

Those applications which do not require action by the Commission but which, pursuant to the delegations of authority set forth in subpart B of part 0, may be acted upon by the Chief, Mass Media Bureau, are forwarded to the Mass Media Bureau for necessary action. If the application is granted, the formal authorization is issued. In any case where it is recommended that

the application be set for hearing, where a novel question of policy is presented, or where the Chief, Mass Media Bureau desires instructions from the Commission, the matter is placed on the Commission agenda.

[49 FR 14509, Apr. 12, 1984]

§ 73.3564 Acceptance of applications.

(a) Applications tendered for filing are dated upon receipt and then forwarded to the Mass Media Bureau, where an administrative examination is made to ascertain whether the applications are complete. Except for non-reserved band FM (except for Class D) applications, those found to be complete or substantially complete are accepted for filing and are given file numbers.In the case of minor defects as to completeness, the applicant will be required to supply the missing or correct information. Applications that are not substantially complete will be returned to the applicant. In the case of non-reserved band FM applications received on or after August 7, 1992, applications will be placed on public notice if they meet the following two-tiered minimum filing requirement prior to close of the filing window in window proceedings and as initially filed in first come/first served proceedings:

(1) The application must include:

(i) Applicant's name and address,

(ii) Applicant's original signature,

(iii) Principal community,

(iv) Channel or frequency,

(v) Class of station, and

(vi) Transmitter site coordinates; and

(2) The application must not omit more than 3 of the second tier items specified in appendix C, Report and Order, MM Docket No. 91–347, FCC 92–328, 7 FCC Rcd 5074 (1992). Applications found not to meet minimum filing requirements will be returned to the applicant. Applications found to meet minimum filing requirements but that contain deficiencies in tender and/or acceptance information shall be given an opportunity for corrective amendment pursuant to § 73.3522. Applications found to be substantially complete and in accordance with the Commission's core legal and technical requirements will be accepted for filing. Applications with uncorrected tender and/or acceptance defects remaining after the opportunity for corrective amendment will be dismissed with no further opportunity for corrective amendment. In the case of low power TV, TV translator and TV booster applications, those found to be substantially complete will be listed on a Commission public notice as tendered for filing and given file numbers. Those that are not substantially complete will be returned to the applicant. If it is determined that a low power TV, TV translator or TV booster application is substantially complete but contains some defect(s) or omission(s), a deficiency letter will be issued affording the applicant 30 days to correct the defect. If the defect is not corrected within 30 days of the date on the deficiency letter, the application will be returned with no further opportunity to amend.

NOTE: For non-reserved band FM applications received prior to August 7, 1992 applications with deficiencies in tender and/or acceptance information will be returned to the applicant without an opportunity for corrective amendment. See 50 FR 19936 (May 13, 1985).

(b) Acceptance of an application for filing merely means that it has been the subject of a preliminary review by the FCC's administrative staff as to completeness. Such acceptance will not preclude the subsequent dismissal of the application if it is found to be patently not in accordance with the FCC's rules.

(c) At regular intervals, the FCC will issue a Public Notice listing all applications and major amendments thereto which have been accepted for filing, except for low power TV, TV translator, TV booster, and non-reserved band FM stations. Pursuant to §§ 73.3571(c), 73.3572(c) and 73.3573(d) such notice shall establish a cut-off date (not less than 30 days from the date of issuance) for the filing of mutually exclusive applications and petitions to deny. However, no application will be accepted for filing unless certification of compliance with the local notice requirements of § 73.3580(h) has been made in the tendered application.

(d) New and major change applications for non-reserved band FM stations (except for Class D stations) and for low power TV and TV translator stations will be accepted only on

date(s) specified by the Commission. Low power TV and TV translator station filing period(s) will be designated by the Commission in a Public Notice. No more than five (5) applications for new low power TV or TV translator stations may be tendered for filing by any applicant, or by any individual or entity having an interest of one (1) percent or greater in any applicant(s) in a single filing period. This restriction does not apply to applications for major or minor changes in low power TV or TV translator stations as defined by § 73.3572. Non-reserved band FM facilities and major change applications will have filing dates designated by the Commission in the following manner:

(1) For all vacant non-reserved band FM allocations listed on the FM Table of Allotments, § 73.202, as of March 14, 1985, a one-time filing period or ''window'' will open for 30 days, beginning on the 31st day after the date of publication of the *Report and Order* in MM Docket No. 84–750 in the FEDERAL REGISTER and will close on the 60th day after such publication. (This filing window does not apply to the 689 FM channels added to the FM Table of Allotments by the Commission's decision in MM Docket No. 84–231).

(2) The 689 FM allocations added to the FM Table of Allotments by MM Docket 84–231 will be subject to a series of windows. The Audio Services Division of the Mass Media Bureau will establish, by Public Notice, the window filing dates for this group of allotments.

(3) Each *Report and Order* specifying a new non-reserved FM band allocation will identify the window filing period which will begin upon the effective date of that *Order* and continue for at least 30 days.

(4) Where no applications are tendered during a window filing period, applications may be tendered any time after the window closes. These applications will be processed on a ''first come/first serve'' basis and will be treated as simultaneously filed if filed on the same day. Any applications received after the filing of a lead applicant will be placed in a queue, according to filing date, behind the lead applicant.

(5) If a non-reserved band FM channel allotment is vacant after the grant of a construction permit becomes final, because of a lapsed construction permit or for any other reason, the FCC will, by Public Notice, announce a subsequent filing window for the acceptance of new applications for such channels.

(6) However, no application will be accepted for tender unless certification of compliance with the local notice requirements of § 73.3580(h) has been made in the tendered application.

(e) Applications for operation in the 1605–1705 kHz band will be accepted only if filed pursuant to the terms of § 73.30(b).

[44 FR 38499, July 2, 1979, as amended at 50 FR 19943, May 13, 1985; 52 FR 7421, Mar. 11, 1987; 52 FR 31400, Aug. 20, 1987; 56 FR 64873, Dec. 12, 1991; 57 FR 34878, Aug. 7, 1992; 59 FR 31556, June 20, 1994]

§ 73.3566 Defective applications.

(a) Applications which are determined to be patently not in accordance with the FCC rules, regulations, or other requirements, unless accompanied by an appropriate request for waiver, will be considered defective and will not be accepted for filing or if inadvertently accepted for filing will be dismissed. Requests for waiver shall show the nature of the waiver or exception desired and shall set forth the reasons in support thereof.

(b) If an applicant is requested by the FCC to file any additional documents or information not included in the prescribed application form, a failure to comply with such request will be deemed to render the application defective, and such application will be dismissed.

[44 FR 38499, July 2, 1979]

§ 73.3568 Dismissal of applications.

(a) Subject to the provisions of § 73.3523 (Dismissal of applications in renewal proceedings) and § 73.3525 (Agreements for removing application conflicts), any application may, upon request of the applicant be dismissed without prejudice as a matter of right prior to the designation of such application for hearing. An applicant's request for the return of an application that has been accepted for filing will be regarded as a request for dismissal.

(b) Failure to prosecute an application, or failure to respond to official correspondence or request for additional information, will be cause for dismissal. Subject to the provisions of § 73.3525, such dismissal will be without prejudice where an application has not yet been designated for hearing, but may be made with prejudice after designation for hearing.

(c) Subject to the provisions of § 73.3523 (Dismissal of applications in renewal proceedings) and § 73.3525 (Agreements for removing application conflicts), requests to dismiss an application without prejudice after it has been designated for hearing will be considered only upon written petition properly served upon all parties of record. Such requests shall be granted only upon a showing that the request is based on circumstances wholly beyond the applicant's control which preclude further prosecution of his application.

[44 FR 38499, July 2, 1979, as amended at 54 FR 22599, May 25, 1989]

§ 73.3571 Processing of AM broadcast station applications.

(a) Applications for AM broadcast facilities are divided into three groups.

(1) In the first group are applications for new stations or for major changes in the facilities of authorized stations. A major change is any increase in power except where accompanied by a complimentary reduction of antenna efficiency which leads to the same amount, or less, radiation in all directions (in the horizontal and vertical planes when skywave propagation is involved, and in the horizontal plane only for daytime considerations), relative to the presently authorized radiation levels, or any change in frequency, hours of operation, or community of license. However, the FCC may, within 15 days after the acceptance for filing of any other application for modification of facilities, advise the applicant that such application is considered to be one for a major change and therefore is subject to the provisions of §§ 73.3580 and 1.1111 of this chapter pertaining to major changes.

(2) The second group consists of applications for licenses and all other changes in the facilities of authorized stations.

(3) The third group consists of applications for operation in the 1605–1705 kHz band which are filed subsequent to Commission notification that allotments have been awarded to petitioners under the procedure specified in § 73.30.

(b) If an application is amended so as to effect a major change as defined in paragraph (a)(1) of this section or so as to result in a situation where the original party or parties to the application do not retain more than 50% ownership interest in the application as originally filed, § 73.3580 will apply to such amended application.

(c) Applications for new stations or for major changes in the facilities of authorized stations are processed as nearly as possible in the order in which they are filed. Such applications will be placed in the processing line in numerical sequence, and are drawn by the staff for study, the lowest file number first. Thus, the file number determines the order in which the staff's work is begun on a particular application or group of conflicting applications. In order that those applications which are entitled to be grouped for processing may be fixed prior to the time processing of the earliest filed application is begun, the FCC will periodically release a Public Notice listing applications which have been accepted for filing and announcing a date (not less than 30 days after release) on which the listed applications will be considered available and ready for processing and by which all mutually exclusive applications and/or petitions to deny the listed applications must be filed.

(1) In order to grant a major or minor change application made contingent upon the grant of another licensee's request for a facility modification, the Commission will not consider mutually exclusive applications by other parties that would not protect the currently authorized facilities of the contingent applicants. Such major change applications remain, however, subject to the provisions of §§ 73.3580 and 1.1111. The Commission shall grant contingent requests for construction permits for station modifications only upon a finding that such action will promote the public interest, convenience and necessity.

(2) In addition to announcing the acceptance of mutually exclusive applications and establishing a date for the filing of petitions to deny such applications, the public notice referred to in paragraph (c) of this section will also announce the date on which all mutually exclusive applicants (including the previously accepted lead applicant) will be required to pay the hearing fee established in part 1 of these rules, 47 CFR 1.1104(2)(c) of this chapter. The date for fee payment shall be at least 30 days after the date established for peitions to deny.

(3) Whenever the public notice announces the acceptance of an application that is mutually exclusive with a renewal application, it shall also announce that the mutually exclusive applicants and the renewal applicant will be required to pay the hearing fee on the date established in the public notice.

(d) Applications proposing to increase the power of an AM station are subject to the following requirements:

(1) In order to be acceptable for filing, any application which does not involve a change in site must propose at least a 20% increase in the station's nominal power.

(2) Applications involving a change in site are not subject to the requirements in paragraph (d)(1) of this section.

(3) Applications for nighttime power increases for Class D stations are not subject to the requirements of this section and will be processed as minor changes.

(4) [Reserved]

(5) The following special procedures will be followed in authorizing Class II–D daytime-only stations on 940 and 1550 kHz, and Class III daytime-only stations on the 41 regional channels listed in § 73.26(a), to operate unlimited-time.

(i) Each eligible daytime-only station in the foregoing categories will receive an Order to Show Cause why its license should not be modified to specify operation during nighttime hours with the facilities it is licensed to start using at local sunrise, using the power stated in the Order to Show Cause, that the Commission finds is the highest nighttime level—not exceeding 0.5 kW—at which the station could operate without causing prohibited interference to other domestic or foreign stations, or to co-channel or adjacent channel stations for which pending applications were filed before December 1, 1987.

(ii) Stations accepting such modification shall be reclassified. Those authorized in such Show Cause Orders to operate during nighttime hours with a power of 0.25 kW or more, or with a power that, although less than 0.25 kW, is sufficient to enable them to attain RMS field strengths of 141 mV/m or more at 1 kilometer, shall be redesignated as Class II–B stations if they are assigned to 940 or 1550 kHz, and as unlimited-time Class III stations if they are assigned to regional channels.

(iii) Stations accepting such modification that are authorized to operate during nighttime hours at powers less than 0.25 kW, and that cannot with such powers attain RMS field strengths of 141 mV/m or more at 1 kilometer, shall be redesignated as Class II–S stations if they are assigned to 940 or 1550 kHz, and as Class III–S stations if they are assigned to regional channels.

(iv) Applications for new stations may be filed at any time on 940 and 1550 kHz and on the regional channels. Also, stations assigned to 940 or 1550 kHz, or to the regional channels, may at any time, regardless of their classifications, apply for power increases up to the maximum generally permitted. Such applications for new or changed facilities will be granted without taking into account interference caused to Class II–S or Class III–S stations, but will be required to show interference protection to other classes of stations, including stations that were previously classified as Class II–S or Class III–S, but were later reclassified as Class II–B or Class III unlimited-time stations as a result of subsequent facilities modifications that permitted power increases qualifying them to discountinue their ''S'' subclassification.

(e) Applications other than those for new stations or for major changes in the facilities of authorized stations are not placed on the processing line but are processed as nearly as possible in the order in which they are filed.

(f) Applications for change of license to change hours of operation of a Class

C station, to decrease hours of operation of any other class of station, or to change station location involving no change in transmitter site will be considered without reference to the processing line.

(g) If, upon examination, the FCC finds that the public interest, convenience and necessity will be served by the granting of an application, the same will be granted. If the FCC is unable to make such a finding and it appears that a hearing may be required, the procedure set forth in § 73.3593 will be followed.

(h) When an application which has been designated for hearing has been removed from the hearing docket, the application will be returned to its proper position (as determined by the file number) in the processing line. Whether or not a new file number will be assigned will be determined pursuant to paragraph (i) of this section, after the application has been removed from the hearing docket.

(i)(1) A new file number will be assigned to an application for a new station, or for major changes in the facilities of an authorized station, when it is amended to change frequency, to increase power, to increase hours of operation, or to change station location. Any other amendment modifying the engineering proposal, except an amendment regarding the type of equipment specified, will also result in the assignment of a new file number unless such amendment is accompanied by a complete engineering study showing that the amendments would not involve new or increased interference problems with existing stations or other applications pending at the time the amendment is filed. If, after submission and acceptance of such an engineering amendment, subsequent examination indicates new or increased interference problems within either existing stations or other applications pending at the time the amendment was received at the FCC, the application will then be assigned a new file number and placed in the processing line according to the numerical sequence of the new file number.

(2) A new file number will be assigned where an application for a new station is amended (whether by a single amendment or by a series of amendments) so as to result in a situation where the original party or parties to the application do not retain more than 50% ownership interest in the application as originally filed, and § 73.3580 will apply to such amended application.

(3) Where an amendment to an application would require a new file number pursuant to paragraph (j)(1) or (j)(2) of this section, the applicant will have an opportunity to withdraw the amendment at any time prior to designation for a hearing if applicable; and may be afforded, subject to the discretion of the Administrative Law Judge, an opportunity to withdraw the amendment after designation for a hearing.

(4) An application for changes in the facilities of an existing station will continue to carry the same file number even though (pursuant to FCC approval) an assignment of license or transfer of control of said licensee or permittee has taken place if, upon consummation, the application is amended to reflect the new ownership.

(j) When an application is reached for processing, and it is necessary to address a letter to the applicant asking further information, the application will not be processed until the information requested is received, and the application will be placed in the pending file to await the applicant's response.

(k) When an application is placed in the pending file, the applicant will be notified of the reason for such action.

[44 FR 38501, July 2, 1979; 44 FR 40311, July 10, 1979, as amended at 46 FR 36852, July 16, 1981; 49 FR 14745, Apr. 13, 1984; 49 FR 32589, Aug. 15, 1984; 49 FR 48187, Dec. 11, 1984; 50 FR 18848, May 2, 1985; 50 FR 24522, June 11, 1985; 52 FR 21311, June 5, 1987; 53 FR 1032, Jan. 15, 1988; 54 FR 39534, Sept. 27, 1989; 55 FR 19265, May 9, 1990; 56 FR 795, Jan. 9, 1991; 56 FR 64874, Dec. 12, 1991; 61 FR 46563, Sept. 4, 1996]

§ 73.3572 Processing of TV broadcast, low power TV, TV translator and TV booster station applications.

(a) Applications for TV stations are divided into two groups:

(1) In the first group are applications for new stations or major changes in the facilities of authorized stations. A major change for TV broadcast stations authorized under this part is any change in frequency or community of

license which is in accord with a present allotment contained in the Table of Allotments (§ 73.606). Other requests for change in frequency or community of license for TV broadcast stations must first be submitted in the form of a petition for rulemaking to amend the Table of Allotments. In the case of low power TV, TV translator, and TV booster stations authorized under Part 74 of this chapter, a major change is any change in:

(i) Frequency (output channel) assignment (does not apply to TV boosters);

(ii) Transmitting antenna system including the direction of the radiation, directive antenna pattern or transmission line;

(iii) Antenna height;

(iv) Antenna location exceeding 200 meters; or

(v) Authorized operating power.

(2) However, if the proposed modification of facilities, other than a change in frequency, will not increase the signal range of the low power TV, TV translator or TV booster station in any horizontal direction, the modification will not be considered a major change. Provided, that in the case of an authorized low power TV, TV translator or TV booster station which is predicted to cause or receive interference to or from an authorized TV broadcast station pursuant to § 74.705 or interferes with broadcast or other services under § 74.703 or § 74.709, that an application for a change in output channel, together with technical modifications which are necessary to avoid interference (including a change in antenna location of less than 16.1 km), will not be considered as an application for a major change in those facilities. Provided further, that the FCC may, within 15 days after the acceptance of any other application for modification of facilities, advise the applicant that such application is considered to be one for a major change and therefore subject to the provisions of §§ 73.3580 and 1.1111 pertaining to major changes.

(b) A new file number will be assigned to an application for a new station or for major changes in the facilities of an authorized station, when it is amended so as to effect a major change, as defined in paragraph (a)(1) of this section, or result in a situation where the original party or parties to the application do not retain more than 50% ownership interest in the application as originally filed and § 73.3580 will apply to such amended application. An application for change in the facilities of any existing station will continue to carry the same file number even though (pursuant to FCC approval) an assignment of license or transfer of control of such licensee or permittee has taken place if, upon consummation, the application is amended to reflect the new ownership.

(c) Where an amendment to an application would require a new file number pursuant to paragraph (b) of this section, the applicant will have the opportunity to withdraw the amendment at any time prior to designation for a hearing if applicable; and may be afforded, subject to the discretion of the Administrative Law Judge, an opportunity to withdraw the amendment after designation for a hearing.

(d) Applications for TV stations, other than low power TV, TV translator and TV booster stations, will be processed as nearly as possible in the order in which they are filed. Such applications will be placed in the processing line in numerical sequence, and will be drawn by the staff for study, the lowest file number first. In order that those applications which are entitled to be grouped for processing may be fixed prior to the time processing of the earliest filed application is begun, the FCC will periodically release a Public Notice listing applications which have been accepted for filing and announcing a date (not less than 30 days after issuance) on which the listed applications will be considered available and ready for processing and by which all mutually exclusive applications and petitions to deny the listed applications must be filed.

(1) In addition to announcing the acceptance of mutually exclusive applications and establishing a date for the filing of petitions to deny such applications, the public notice referred to in paragraph (c) of this section will also announce the date on which all mutually exclusive applicants (including the previously accepted lead applicant) will be required to pay the hearing fee

established in part 1 of these rules, 47 CFR 1.1104(1)(c) of this chapter. The date for fee payment shall be at least 30 days after the date established for petitions to deny.

(2) Whenever the public notice announces the acceptance of an application that is mutually exclusive with a renewal application, it shall also announce that the mutually exclusive applicants and the renewal applicant will be required to pay the hearing fee on the date established in the public notice.

(e) Except for applications for low power TV, TV translator and TV booster stations, regardless of the number of applications filed for channels in a city or the number of assignments available in that city, those applications which are mutually exclusive, i.e., which request the same channel, will be designated for hearing. All other applications for channels will, if the applicants are duly qualified, receive grants. For example, if channels 6, 13, 47 and 53 have been assigned to City X and there are pending two applications for Channel 6 and one application for each of the remaining channels, the latter three applications will be considered grants without hearing and the two mutually exclusive applications requesting Channel 6 will be designated for hearing. If there are two pending applications for Channel 6 and two applications for Channel 13, separate hearings will be held.

(f) Where applications, other than applications for low power TV, TV translator, and TV booster stations, are mutually exclusive because the distance between the respective proposed transmitter sites is contrary to the station separation requirements set forth in § 73.610, such applications will be processed and designated for hearing at the time the application with the lower file number is reached for processing. In order to be considered mutually exclusive with a lower file number application, the higher file number application must have been accepted for filing at least one day before the lower file number application has been acted upon by the FCC.

(g) *Processing of applications for low power TV and TV translator stations.* (1) Applications for low power TV and TV translator stations will be processed as nearly as possible in the order in which they are filed. Such applications will be placed in the processing line in numerical sequence, and will be drawn by the staff for study, the lowest file number first. The FCC will specify, by Public Notice, a period for filing low power TV or TV translator applications. The filing period will open no less than 30 days after release of the Public Notice and remain open for an least five work days.

(2) Subsequently, the FCC will release a Public Notice: (i) Establishing a date, time, and place for a public lottery; (ii) accepting for filing mutually exclusive applications which were timely filed during the filing period previously specified by the FCC; (iii) designating the listed mutually exclusive applications for public lottery pursuant to the procedures set forth in § 1.1601 *et seq.;* and (iv) describing each applicant's certified perferences and selection probabilities and assigning to each applicant a number block. (It will be the applicant's responsibility to notify the FCC, within 30 days of the release of the Public Notice, or any omissions of applications or clerical or mathematical errors in preferences or probabilities. The FCC will not entertain appeals involving these matters if timely notification to the FCC has not been made.) If necessary, the FCC will release subsequent Public Notices correcting only clerical or mathematical errors and including any previously omitted mutually exclusive applications. The public lottery pursuant to the procedures set forth in § 1.1601 *et seq.*, will be held no less than 30 days subsequent to the initially released Public Notice announcing the lottery. Subsequent to the lottery, the FCC will release a Public Notice announcing the selection of a tentative selectee resulting from the lottery and providing and opportunity for the filing of Petitions to Deny pursuant to the requirements of § 73.3584(c). If, upon examination, the FCC finds that the public interest, convenience and necessity will be served by the granting of a tentative selectee's application, the same will be granted. Those applications which, due to the lottery, are no longer mutually exclusive with other applications will

be announced in a Public Notice proposing the grant of those applications and providing an opportunity for the filing of Petitions to Deny pursuant to § 73.3584(c). Groups of mutually exclusive applicants remaining after a lottery will be designated for lottery. Applications which are are not grantable due to mutual exclusivity with the permittee selected by lottery will be dismissed.

(3) If, upon examination, the FCC is unable to find that the public interest, convenience and necessity will be served by the granting of a lottery tentative selectee's applications, and it appears that a hearing may be required, the procedure set forth in § 73.3593 will be followed. No further action will be taken with reference to the other applications in the lottery group from which the tentative selectee was selected until the tentative selectee's qualifications to be a permittee are resolved. If the tentative selectee is ultimately found to be unqualified to be a permittee, the procedure set forth in paragraph (f)(2) of this section will be followed.

(4) The FCC will periodically release a Public Notice accepting for filing and proposing for grant those applications which were timely filed during the filing period specified by the FCC in a Public Notice for filing low power TV or TV translator applications, but which are not mutually exclusive with any other application, and providing an opportunity for the filing of Petitions to Deny pursuant to § 73.3584.

NOTE 1: Notwithstanding paragraph (f)(1) and § 73.3522(a)(3), applications for low power TV and TV translator stations will be processed within the tiered processing framework as set forth in *Notice on Interim Processing,* 45 FR 62004 (published September 17, 1980), *Order Imposing Freeze,* 46 FR 26062 (published May 11, 1981), and *Report and Order in the Matter of Inquiry Into the Future Role of Low Power Television Broadcasting and Television Translators in the National Telecommunications System,* 47 FR 21468 (published May 18, 1982).

NOTE 2: Pursuant to § 73.3584(c), the Commission may announce, by the Public Notice designating the applications for public lottery, that a Notice of Petition to Deny will be required to be filed no later than 30 days after issuance of the Public Notice.

(5) TV booster station applications may be filed at any time and will be subject to the following procedures:

(i) Subsequent to filing, the FCC will release a Public Notice accepting for filing and proposing for grant those applications which are not mutually exclusive with any other TV translator, low power TV, or TV booster application, and providing for the filing of Petitions To Deny pursuant to § 73.3584;

(ii) Any application received during the filing period for TV translator, low power TV, or TV booster applications with which it is mutually exclusive will be included in the relevant public lottery pursuant to § 1.1601 *et seq.;* and

(iii) Applications received after the filing date for applications with which it is mutually exclusive will be dismissed as an untimely filing.

[44 FR 38502, July 2, 1979, as amended at 48 FR 27205, June 13, 1983; 48 FR 34039, July 27, 1983; 49 FR 47843, Dec. 7, 1984; 52 FR 31400, Aug. 20, 1987; 55 FR 19265, May 9, 1990; 56 FR 795, Jan. 9, 1991; 56 FR 33720, July 23, 1991]

§ 73.3573 Processing FM broadcast station applications.

(a) Applications for FM broadcast stations are divided into two groups:

(1) In the first group are applications for new stations or for major changes in the facilities of authorized stations. A major change for FM station authorized under this part is any change in frequency or community of license which is in accord with a present allotment contained in the Table of Allotments (73.202 (b)). Other requests for change in frequency or community of license for FM stations must first be submitted in the form of a petition for rule making to amend the Table of Allotments. Applications filed on a first come, first served basis may propose a higher or lower class adjacent, intermediate frequency or co-channel in an application for a new FM broadcast station. A licensee or permittee may seek the higher or lower class adjacent, intermediate frequency or co-channel or the same class adjacent channel of its existing FM broadcast station authorization by filing a minor change application. For noncommercial educational FM stations, a major change is any change in frequency or community of license or any change in power

or antenna location or height above average terrain (or combination thereof) which would result in a change of 50% or more in the area within the station's predicted 1 mV/m field strength contour. (A change in area is defined as the sum of the area gained and the area lost as a percentage of the original area). However, the FCC may within 15 days after the acceptance of the application for modification of facilities, advise the applicant that such application is considered to be one for a major change and therefore subject to the provisions of §§ 73.3580 and 1.1111 of this chapter pertaining to major changes.

(2) The second group consists of applications for licenses and all other changes in the facilities of authorized stations.

(b) A new file number will be assigned to an application for a new station or for major changes in the facilities of an authorized station, when it is amended so as to effect a major change, as defined in paragraph (a)(1) of this section, or result in a situation where the original party or parties to the application do not retain more than 50% ownership interest in the application as originally filed, and § 73.3580 will apply to such amended application. An application for changes in the facilities of any existing station will continue to carry the same file number even though (pursuant to FCC approval) an assignment of license or transfer of control of such licensee or permittee has taken place if, upon consummation, the application is amended to reflect the new ownership.

(c) Where an amendment to an application would require a new file pursuant to paragraph (b) of this section, the applicant will have the opportunity to withdraw the amendment at any time prior to designation for a hearing if applicable; and may be afforded, subject to the discretion of the Administrative Law Judge, an opportunity to withdraw the amendment after designation for a hearing.

(d) If, upon examination, the FCC finds that the public interest, convenience and necessity will be served by the granting of an application for FM broadcast facilities, the same will be granted. If the FCC is unable to make such a finding and it appears that a hearing may be required, the procedure given in § 73.3593 will be followed.

(e) Applications for reserved band and Class D FM broadcast stations will be processed as nearly as possible in the order in which they are filed. Such applications will be placed in the processing line in numerical sequence, and will be drawn by the staff for study, the lowest file number first. In order that those applications which are entitled to be grouped for processing may be fixed prior to the time processing of the earliest filed application is begun, the FCC will periodically release a Public Notice listing applications which have been accepted for filing and announcing a date (not less than 30 days after publication) on which the listed applications will be considered available and ready for processing and by which all mutually exclusive applications and/or petitions to deny the listed applications must be filed.

(f) Where reserved band plus Class D applications are mutually exclusive because the distance between their respective proposed transmitter sites is contrary to the station separation requirements set forth in § 73.507, such applications will be processed and designated for hearing at the time the application with the lower file number is reached for processing. In order to be considered mutually exclusive with a lower file number application, the higher file number application must have been accepted for filing at least one day before the lower file number application has been acted upon by the FCC.

(g) Processing non-reserved FM broadcast station applications.

(1) Applications for non-reserved FM broadcast stations will be processed as nearly as possible in the order in which they are tendered. Such applications will be placed in the processing line in numerical sequence, and will be drawn by the staff for study, the lowest file number first. The FCC will specify, pursuant to § 73.3564(d), the filing periods for non-reserved band FM applications.

(2) All applications received during the appropriate filing period or ''window'' which are found to be mutually exclusive will be designated for hearing. All other applications will, if the

applicants are duly qualified, receive grants. The FCC will periodically release a Public Notice listing applications pending hearings or grant and announcing a date (not less than 30 days after issuance) by which petitions to deny must be filed.

(i) In addition to announcing the acceptance of mutually exclusive applications and establishing a date for the filing of petitions to deny such applications, the public notice referred to in paragraph (g)(2) of this section will also announce the date on which all mutually exclusive applicants will be required to pay the hearing fee established in part 1 of these rules, 47 CFR 1.1104(2)(c) of this chapter. The date for fee payment shall be at least 30 days after the date established for petitions to deny.

(ii) Whenever the public notice announces the acceptance of an application that is mutually exclusive with a renewal application, it shall also announce that the mutually exclusive applicants and the renewal applicant will be required to pay the hearing fee on the date established in the public notice.

(3) If, after the close of the appropriate window filing period, a non-reserved FM allotment remains vacant, processing for that channel will be on a ''first come/first serve'' basis with the first acceptable application cutting off the filing rights of subsequent applicants. All applications received on the same day will be treated as simultaneously tendered and, if they are found to be mutually exclusive, will be designated for hearing. Applications received after the tender of a lead application will be grouped, according to filing date, behind the lead application in a queue. The priority rights of the lead applicant, as against all other applicants, are determined by the date of filing but the filing date for subsequent applicants for that channel and community only reserves a place in the queue. The rights of an applicant in a queue ripen only upon a final determination that the lead applicant is unacceptable and if the queue member is reached and found acceptable. The queue will remain behind the lead applicant until a construction permit is finally granted, at which time the queue dissolves. If there is no queue or if no queue member is found acceptable, that allotment remains subject to ''first come/first serve'' processing. The FCC will periodically release a Public Notice listing those pending hearings or grant and announcing a date (not less than 30 days after issuance) by which petitions to deny must be filed.

(h) Resolving processing conflicts between the reserved and non-reserved bands. The reserved bands include Class D stations.

(1) Reserved band applicants, applying for a channel on the non-reserved band are subject to the processing procedures in paragraph (f).

(2) If a reserved band applicant has generated a cut-off list that overlaps a non-reserved band window filing period, the non-reserved band applicant must file within the cut-off if he seeks mutually exclusive status with the reserved band applicant.

(3) Following the close of a non-reserved band application filing window, the non-reserved band applicant is subject to the ''first come/first serve'' rules and would lose to a pre-filed reserved band applicant.

NOTE 1: Applications to modify the channel and/or class of an FM broadcast station to an adjacent channel, intermediate frequency (IF) channel, or co-channel shall not require any other amendments to the Table of Allotments. Such applications may resort to the provisions of the Commission's Rules permitting short spaced stations as set forth in § 73.215 as long as the applicant shows by separate exhibit attached to the application the existence of an allotment reference site which meets the allotment standards, the minimum spacing requirements of § 73.207 and the city grade coverage requirements of § 73.315. This exhibit must include a site map or, in the alternative, a statement that the transmitter will be located on an existing tower. Examples of unsuitable allotment reference sites include those which are offshore, in a national or state park in which tower construction is prohibited, on an airport, or otherwise in an area which would necessarily present a hazard to air navigation.

NOTE 2: Processing of applications for new low power educational FM applications:

Pending the Commission's restudy of the impact of the rule changes pertaining to the allocations of 10-watt and other low power noncommercial educational FM stations, applications for such new stations, or major changes in existing ones, will not be accepted for filing. Exceptions are: (1) In Alaska,

applications for new Class D stations or major changes in existing ones are acceptable for filing; and (2) applications for existing Class D stations to change frequency are acceptable for filing. In (2), upon the grant of such application, the station shall become a Class D (secondary) station. (See First Report and Order, Docket 20735, FCC 78–386, 43 FR 25821, and Second Report and Order, Docket 20735, FCC 78–384, 43 FR 39704.) Effective date of this FCC imposed ''freeze'' was June 15, 1978. Applications which specify facilities of at least 100 watts effective radiated power will be accepted for filing.

NOTE 3: For rules on processing FM translator and booster stations, see § 74.1233 of this chapter.

[44 FR 38503, July 2, 1979, as amended at 48 FR 29510, June 27, 1983; 49 FR 32589, Aug. 15, 1984; 50 FR 19943, May 13, 1985; 54 FR 11954, Mar. 23, 1989; 55 FR 19265, May 9, 1990; 55 FR 50692, Dec. 10, 1990; 56 FR 796, Jan. 9, 1991; 58 FR 38535, July 19, 1993]

§ 73.3574 Processing of international broadcast station applications.

(a) Applications for International station facilities are divided into two groups.

(1) In the first group are applications for new stations, or for major changes in the facilities of authorized stations. A major change is any change in or addition to authorized zones or areas of reception, any change in transmitter location other than one in the immediate vicinity of existing antennas of the station, or any change in power, or antenna directivity. However, the FCC may, within 15 days after the acceptance for filing of any other application for modification, advise the applicant that such application is considered to be one for a major change and therefore is subject to §§ 1.1111 and 73.3580 pertaining to major changes.

(2) The second group consists of applications for licenses and all other changes in the facilities of authorized stations.

(b) If an application is amended so as to effect a major change as defined in paragraph (a)(1) of this section, or so as to result in an assignment or transfer of control which, in the case of an authorized station, would require the filing of an application therefor on FCC Form 314 or 315 (see § 73.3540), § 73.3580 will apply to such amended application.

(c) Applications for International stations will be processed as nearly as possible in the order in which they are filed.

[44 FR 38504, July 2, 1979]

§ 73.3578 Amendments to applications for renewal, assignment or transfer of control.

(a) Any amendments to an application for renewal of any instrument of authorization shall be considered to be a minor amendment. However, the FCC may, within 15 days after tender for filing of any amendment, advise the applicant that the amendment is considered to be a major amendment and therefore is subject to the provisions of § 73.3580.

(b) Any amendment to an application for assignment of construction permit or license, or consent to the transfer of control of a corporation holding such a construction permit or license, shall be considered to be a minor amendment, except that any amendment which seeks a change in the ownership interest of the proposed assignee or transferee which would result in a change in control, or any amendment which would require the filing of FCC Forms 314, 315, or 345 (see § 73.3540), if the changes sought were made in an original application for assignment or transfer of control, shall be considered to be a major amendment. However, the FCC may, within 15 days after the acceptance for filing of any other amendment, advise the applicant that the amendment is considered to be a major amendment and therefore is subject to the provisions of § 73.3580.

[44 FR 38504, July 2, 1979, as amended at 51 FR 18451, May 20, 1986]

§ 73.3580 Local public notice of filing of broadcast applications.

(a) All applications for instruments of authorization in the broadcast service (and major amendments thereto, as indicated in §§ 73.3571, 73.3572, 73.3573, 73.3574 and 73.3578) are subject to the local public notice provisions of this section, except applications for:

(1) A minor change in the facilities of an authorized station, as indicated in §§ 73.3571, 73.3572, 73.3573 and 73.3574.

(2) Consent to an involuntary assignment or transfer or to a voluntary assignment or transfer which does not result in a change of control and which may be applied for on FCC Form 316 pursuant to the provisions of § 73.3540(b).

(3) A license under section 319(c) of the Communications Act or, pending application for or grant of such license, any special or temporary authorization to permit interim operation to facilitate completion of authorized construction or to provide substantially the same service as would be authorized by such license.

(4) Extension of time to complete construction of authorized facilities.

(5) An authorization of facilities for remote pickup or studio links for use in the operation of a broadcast station.

(6) Authorization pursuant to section 325(c) of the Communications Act (''* * * studios of foreign stations'') where the programs to be transmitted are special events not of a continuing nature.

(7) An authorization under any of the proviso clauses of section 308(a) of the Communications Act concerning applications for and conditions in licenses.

(b) Applications (as originally filed or amended) will be acted upon by the FCC no sooner than 30 days following public notice of acceptance for filing or amendment, except as otherwise permitted in § 73.3542, ''Application for temporary authorization.''

(c) An applicant who files an application or amendment thereto which is subject to the provisions of this section, must give a notice of this filing in a newspaper. Exceptions to this requirement are applications for renewal of AM, FM, TV and International broadcasting stations; low power TV stations; TV and FM translator stations, TV booster stations; FM booster stations; and applications subject to paragraph (e) of this section. The local public notice must be completed within 30 days of the tendering of the application. In the event the FCC notifies the applicant that a major change is involved, requiring the applicant to file public notice pursuant to §§ 73.3571, 73.3572, 73.3573 or 73.3578, this filing notice shall be given in a newspaper following this notification.

(1) *Notice requirements for these applicants are as follows.* (i) In a daily newspaper of general circulation published in the community in which the station is located, or proposed to be located, at least twice a week for two consecutive weeks in a three-week period; or,

(ii) If there is no such daily newspaper, in a weekly newspaper of general circulation published in that community, once a week for 3 consecutive weeks in a 4-week period; or,

(iii) If there is no daily or weekly newspaper published in that community, in the daily newspaper from wherever published, which has the greatest general circulation in that community, twice a week for 2 consecutive weeks within a 3-week period.

(2) *Notice requirements for applicants for a permit pursuant to section 325(b) of the Communications Act (''* * * Studios of Foreign Stations'') are as follows.* In a daily newspaper of general circulation in the largest city in the principal area to be served in the U.S.A. by the foreign broadcast station, at least twice a week for 2 consecutive weeks within a three-week period.

(3) *Notice requirements for applicants for a change in station location are as follows.* In the community in which the station is located and the one in which it is proposed to be located, in a newspaper with publishing requirements as in paragraphs (c)(1)(i), (ii) or (iii) of this section.

(4) The notice required in paragraphs (c)(1), (2) and (3) of this section shall contain the information described in paragraph (f) of this section.

(d) The licensee of an operating broadcast station who files an application or amendment thereto which is subject to the provisions of this section must gibe notice as follows:

(1) An applicant who files for renewal of a broadcast station license, other than a low power TV station license not locally originating programming as defined by § 74.701(h), an FM translator station or a TV translator station license, must give notice of this filing by broadcasting announcements on applicant's station. (Sample and schedule of announcements are below.) Newspaper publication is not required. An applicant who files for renewal of a low power TV station license not locally

originating programming as defined by § 74.701(h), an FM translator station or a TV translator station license will comply with (g) below.

(2) An applicant who files an amendment of an application for renewal of a broadcast station lincense will comply with paragraph (d)(1) of this section.

(3) An applicant who files for modification, assignment or transfer of a broadcast station license (except for International broadcast, low power TV, TV translator, TV booster, FM translator and FM booster stations) shall give notice of the filing in a newspaper as described in paragraph (c) of this section, and also broadcast the same notice over the station as follows:

(i) At least once daily on four days in the second week immediately following either the tendering for filing of the application or immediately following notification to the applicant by the FCC that Public Notice is required pursuant to §§ 73.3571, 73.3572, 73.3573 or § 73.3578. For commercial radio stations these announcements shall be made between 7 a.m. and 9 a.m. and/or 4 p.m. and 6 p.m. For stations which neither operate between 7 a.m. and 9 a.m. nor between 4 p.m. and 6 p.m., these announcements shall be made during the first two hours of broadcast operation. For commercial TV stations, these announcements shall be made between 6 p.m. and 11 p.m. (5 p.m. and 10 p.m. Central and Mountain time).

(4) The broadcast notice requirements for those filing renewal applications and amendments thereto are as follows:

(i) *Pre-filing announcements.* During the period and beginning on the first day of the sixth calendar month prior to the expiration of the license, and continuing to the date on which the application is filed, the following announcement shall be broadcast on the 1st and 16th day of each calendar month. Stations broadcasting primarily in a foreign language should broadcast the announcements in that language.

On (*date of last renewal grant*) (*Station's call letters*) was granted a license by the Federal Communication Commission to serve the public interest as a public trustee until (*expiration date*).

Our license will expire on (*date*). We must file an application for renewal with the FCC (*date four calendar months prior to expiration date*). When filed, a copy of this application will be available for public inspection during our regular business hours. It contains information concerning this station's performance during the last (*period of time covered by the application*).

Individuals who wish to advise the FCC of facts relating to our renewal application and to whether this station has operated in the public interest should file comments and petitions with the FCC by (*date first day of last full calendar month prior to the month of expiration).*

Further information concerning the FCC's broadcast license renewal process is available at (*address of location of the station's public inspection file*) or may be obtained from the FCC, Washington, DC 20554.

(A) An applicant who files for renewal of a low power TV station locally originating programming (as defined by § 74.701(h)) shall broadcast this announcement, except that statements indicating there is a public inspection file at the station containing the renewal application and other information on the license renewal process, shall be omitted.

(B) This announcement shall be made during the following time periods:

(*1*) For commercial TV stations—at least two of the required announcements between 6 p.m. and 11 p.m. (5 p.m. and 10 p.m. Central and Mountain Time).

(*2*) For commercial radio stations—at least two of the required announcements between 7 a.m. and 9 a.m. and/or 4 p.m. and 6 p.m. For stations which neither operate between 7 a.m. and 9 a.m. nor between 4 p.m. and 6 p.m., at least two of the required announcements shall be made during the first two hours of broadcast operation.

(*3*) For noncommercial educational stations, at the same time as commercial stations, except that such stations need not broadcast the announcement during any month during which the station does not operate.

(*4*) For low power TV stations locally originating programming (as defined by § 74.701(h)), at the same time as for commercial TV stations, or as close to that time as possible.

(ii) *Post-filing announcements.* During the period beginning of the date on which the renewal application is filed

to the sixteenth day of the next to last full calendar month prior to the expiration of the license, all applications for renewal of broadcast station licenses shall broadcast the following announcement on the 1st and 16th day of each calendar month. Stations broadcasting primarily in a foreign language should broadcast the announcements in that language.

On (*date of last renewal grant*) (*Station's call letters*) was granted a license by the Federal Communications Commission to serve the public interest as a public trustee until (*expiration date*).

Our license will expire on (*date*). We have filed an application for renewal with the FCC.

A copy of this application is available for public inspection during our regular business hours. It contains information concerning this station's performance during the last (*period of time covered by application*).

Individuals who wish to advise the FCC of facts relating to our renewal application and to whether this station has operated in the public interest should file comments and petitions with the FCC by (*date first day of last full calendar month prior to the month of expiration*).

Further information concerning the FCC's broadcast license renewal process is available at (*address of location of the station's public inspection file*) or may be obtained from the FCC, Washington, DC 20554.

(A) An applicant who files for renewal of a low power TV station locally originating programming (as defined by § 74.701(h)) shall broadcast this announcement, except that statements indicating there is a public inspection file at the station containing the renewal application and other information on the license renewal process, shall be omitted.

(B) This announcement shall be made during the following time periods:

(*1*) For commercial TV stations—at least three of the required announcements between 6 p.m. and 11 p.m. (5 p.m. and 10 p.m. Central and Mountain time), at least one announcement between 9 a.m. and 1 p.m., at least one announcement between 1 p.m. and 5 p.m., and at least one announcement between 5 p.m. and 7 p.m.

(*2*) For commercial radio stations—at least three of the required announcements between 7 a.m. and 9 a.m. and/or 4 p.m. and 6 p.m., at least one announcement between 9 a.m. and noon, at least one announcement between noon and 4 p.m., and at least one announcement between 7 p.m. and midnight. For stations which do not operate between 7 a.m. and 9 a.m. or between 4 p.m. and 6 p.m., at least three of the required announcements shall be made during the first two hours of broadcast operation.

(*3*) For noncommercial educational stations, at the same time as commercial stations, except that such stations need not broadcast the announcement during any month during which the station does not operate. In such instances noncommercial educational stations shall meet the requirements in the exact order specified in paragraph (d)(4)(ii)(A) (*1*) or (*2*) of this section (e.g., if only four renewal notices are broadcast by an educational TV licensee, 3 must be broadcast between 6 p.m. and 11 p.m. and the fourth between 9 a.m. and 1 p.m.).

(*4*) For low power TV stations locally originating programming (as defined by § 74.701(h)), at the same time as for commercial TV stations, or as close to that time as possible.

(iii) TV broadcast stations (commercial and noncommercial educational), in presenting the pre- and post-filing announcements, must use visuals with the licensee's and the FCC's addresses when this information is being orally presented by the announcer.

(iv) Stations which have not received a renewal grant since the filing of their previous renewal application, shall use the following first paragraph for the pre-filing and the post-filing announcements:

(*Station's call letters*) is licensed by the Federal Communications Commission to serve the public interest as a public trustee.

(e) When the station in question is the only operating station in its broadcast service which is located in the community involved, or if it is a noncommercial educational station, publication of the notice in a newspaper, as provided in paragraph (c) of this section is not required, and publication by broadcast over that station as provided in paragraph (d) of this section shall be deemed sufficient to meet the notice requirements of this section. Noncommercial educational broadcast stations which do not broadcast during

the portion of the year in which the period of broadcast of notice falls must comply with the provisions of paragraph (c) of this section.

(f) The notice required by paragraphs (c) and (d) of this section shall contain, when applicable, the following information, except as otherwise provided in paragraphs (d) (1) and (2) and (e) of this section in regard to renewal applications:

(1) The name of the applicant, if the applicant is an individual; the names of all partners, if the applicant is a partnership; or the names of all officers and directors and of those persons holding 10% or more of the capital stock or other ownership interest if the applicant is a corporation or an unincorporated association. (In the case of applications for assignment or transfer of control, information should be included for all parties to the application.)

(2) The purpose for which the application was or will be filed (such as, construction permit, modification, assignment or transfer of control).

(3) The date when the application or amendment was tendered for filing with the FCC.

(4) The call letters, if any, of the station, and the frequency or channel on which the station is operating or proposes to operate.

(5) In the case of an application for construction permit for a new station, the facilities sought, including type and class of station, power, location of studios, transmitter site and antenna height.

(6) In the case of an application for modification of a construction permit or license, the exact nature of the modification sought.

(7) In the case of an amendment to an application, the exact nature of the amendment.

(8) In the case of applications for a permit pursuant to Section 325(b) of the Communications Act (''* * * studios of foreign stations''), the call letters and location of the foreign radio broadcast station, the frequency or channel on which it operates, and a description of the programs to be transmitted over the station.

(9) A statement that a copy of the application, amendment(s), and related material are on file for public inspection at a stated address in the community in which the station is located or is proposed to be located. See §§ 73.3526 and 73.3527.

(g) An applicant who files for authorization or major modifications, or a major amendment thereto, for a low power TV, TV translator, TV booster, FM translator, or FM booster station, must give notice of this filing in a daily, weekly or biweekly newspaper of general circulation in the community or area to be served. Likewise, an applicant for assignment, transfer or renewal, or a major amendment thereto, for a low power TV, TV translator or FM translator station, must give this same type of newspaper notice. The filing notice will be given immediately following the tendering for filing of the application or amendment, or immediately following notification to the applicant by the FCC that public notice is required pursuant to §§ 73.3572, 73.3573, or 73.3578.

(1) Notice requirements for these applicants are as follows:

(i) In a newspaper at least one time; or

(ii) If there is no newspaper published or having circulation in the community or area to be served, the applicant shall determine an appropriate means of providing the required notice to the general public, such as posting in the local post office or other public place. The notice shall state:

(A) The name of the applicant, the community or area to be served, and the transmitter site.

(B) The purpose for which the application was filed.

(C) The date when the application or amendment was filed with the FCC.

(D) The output channel or channels on which the station is operating or proposes to operate and the power used or proposed to be used.

(E) In the case of an application for changes in authorized facilities, the nature of the changes sought.

(F) In the case of a major amendment to an application, the nature of the amendment.

(G) A statement, if applicable, that the station engages in or intends to engage in rebroadcasting, and the call letters, location and channel of operation of each station whose signals it is

rebroadcasting or intends to rebroadcast.

(H) A statement that invites comment from individuals who wish to advise the FCC of facts relating to the renewal application and whether the station has operated in the public interest.

(h) The applicant may certify in the appropriate application that it has or will comply with the public notice requirements contained in paragraphs (c), (d) or (g) of this section. However, an applicant for renewal of a license that is required to maintain a public inspection file, shall, within 7 days of the last day of broadcast of the required publication announcements, place in its public inspection file a statement certifying compliance with § 73.3580 along with the dates and times that the pre-filing and post-filing notices were broadcast and the text thereof. This certification need not be filed with the Commission but shall be retained in the public inspection file for as long as the application to which it refers.

(i) Paragraphs (a) through (h) of this section apply to major amendments to license renewal applications. See § 73.3578(a).

[44 FR 38504, July 2, 1979, as amended at 44 FR 65765, Nov. 15, 1979; 45 FR 6402, Jan. 28, 1980; 46 FR 36852, July 16, 1981; 47 FR 17066, Apr. 21, 1982; 49 FR 33664, Aug. 24, 1984; 49 FR 47844, Dec. 7, 1984; 50 FR 40015, Oct. 1, 1985; 52 FR 21686, June 9, 1987; 52 FR 31401, Aug. 20, 1987; 53 FR 26074, July 11, 1988; 57 FR 14647, Apr. 22, 1992; 58 FR 51251, Oct. 1, 1993]

§ 73.3584 Procedure for filing petitions to deny.

(a) Except in the case of applications for new low power TV, TV translator or TV booster stations, for major changes in the existing facilities of such stations, or for applications for a change in output channel tendered by displaced low power TV and TV translator stations pursuant to § 73.3572(a)(1), any party in interest may file with the Commission a Petition to Deny any application (whether as originally filed or if amended so as to require a new file number pursuant to §§ 73.3571(j), 73.3572(b), 73.3573(b), 73.3574(b) or 73.3578) for which local notice pursuant to § 73.3580 is required, provided such petitions are filed prior to the day such applications are granted or designated for hearing; but where the FCC issues a public notice pursuant to the provisions of §§ 73.3571(c), 73.3572(c) or § 73.3573(d), establishing a ''cut-off'' date, such petitions must be filed by the date specified. In the case of applications for transfers and assignments of construction permits or station licenses, Petitions to Deny must be filed not later than 30 days after issuance of a public notice of the acceptance for filing of the applications. In the case of applications for renewal of license, Petitions to Deny may be filed at any time up to the deadline established in § 73.3516(e). Requests for extension of time to file Petitions to Deny applications for new broadcast stations or major changes in the facilities of existing stations or applications for renewal of license will not be granted unless all parties concerned, including the applicant, consent to such requests, or unless a compelling showing can be made that unusual circumstances make the filing of a timely petition impossible and the granting of an extension warranted.

(b) Except in the case of applications for new low power TV or TV translator stations, or for major changes in the existing facilities of such stations, the applicant may file an opposition to any Petition to Deny, and the Petitioner a reply to such opposition in which allegations of fact or denials thereof shall be supported by affidavit of a person or persons with personal knowledge thereof. The times for filing such oppositions and replies shall be those provided in § 1.45 except that as to a Petition to Deny an application for renewal of license, an opposition thereto may be filed within 30 days after the Petition to Deny is filed, and the party that filed the Petition to Deny may reply to the opposition within 20 days after opposition is due or within 20 days after the opposition is filed, whichever is longer. The failure to file an opposition or a reply will not necessarily be construed as an admission of fact or argument contained in a pleading.

(c) In the case of applications for new low power TV, TV translator, or TV booster stations, for major changes in the existing facilities of such stations,

or for applications for a change in output channel tendered by displaced low power TV and TV translator stations pursuant to § 73.3572(a)(1), any party in interest may file with the FCC a Petition to Deny any applcation (whether as originally filed or if amended so as to require a new file number pursuant to § 73.3572(b)) for which local notice pursuant to § 73.3580 is required, provided such petitions are filed within 30 days of the FCC Public Notice proposing the application for grant (applicants may file oppositions within 15 days after the Petition to Deny is filed); but where the FCC selects a tentative permittee pursuant to Section 1.1601 *et seq.*, Petitions to Deny shall be accepted only if directed against the tentative selectee and filed after issuance of and within 15 days of FCC Public Notice announcing the tentative selectee. The applicant may file an opposition within 15 days after the Petition to Deny is filed. In cases in which the minimum diversity preference provided for in § 1.1623(f)(1) has been applied, an ''objection to diversity claim'' and opposition thereto, may be filed against any applicant receiving a diversity preference, within the same time period provided herein for Petitions and Oppositions. In all pleadings, allegations of fact or denials thereof shall be supported by appropriate certification. However, the FCC may announce, by the Public Notice announcing the acceptance of the last-filed mutually exclusive application, that a notice of Petition to Deny will be required to be filed no later than 30 days after issuance of the Public Notice.

(d) Untimely Petitions to Deny, as well as other pleadings in the nature of a Petition to Deny, and any other pleadings or supplements which do not lie as a matter of law or are otherwise procedurally defective, are subject to return by the FCC's staff without consideration.

[48 FR 27206, June 13, 1983, as amended at 52 FR 31401, Aug. 20, 1987; 53 FR 2499, Jan. 28, 1988; 55 FR 28914, July 16, 1990; 61 FR 18291, Apr. 25, 1996]

§ 73.3587 Procedure for filing informal objections.

Before FCC action on any application for an instrument of authorization, any person may file informal objections to the grant. Such objections may be submitted in letter form (without extra copies) and shall be signed. The limitation on pleadings and time for filing pleadings provided for in § 1.45 of the rules shall not be applicable to any objections duly filed under this section.

[44 FR 38507, July 2, 1979]

§ 73.3588 Dismissal of petitions to deny or withdrawal of informal objections.

(a) Whenever a petition to deny or an informal objection has been filed against any application, and the filing party seeks to dismiss or withdraw the petition to deny or the informal objection, either unilaterally or in exchange for financial consideration, that party must file with the Commission a request for approval of the dismissal or withdrawal, a copy of any written agreement related to the dismissal or withdrawal, and an affidavit setting forth:

(1) A certification that neither the petitioner nor its principals has received or will receive any money or other consideration in excess of legitimate and prudent expenses in exchange for the dismissal or withdrawal of the petition to deny;

(2) The exact nature and amount of any consideration received or promised;

(3) An itemized accounting of the expenses for which it seeks reimbursement; and

(4) The terms of any oral agreement related to the dismissal or withdrawal of the petition to deny.

In addition, within 5 days of petitioner's request for approval, each remaining party to any written or oral agreement must submit an affidavit setting forth:

(5) A certification that neither the applicant nor its principals had paid or will pay money or other consideration in excess of the legitimate and prudent expenses of the petitioner in exchange for dismissing or withdrawing the petition to deny; and

(6) The terms of any oral agreement relating to the dismissal or withdrawal of the petition to deny.

(b) Citizens' agreements. For purposes of this section, citizens agreements include agreements arising whenever a petition to deny or informal objection has been filed against any application and the filing party seeks to dismiss or withdraw the petition or objection in exchange for nonfinancial consideration (*e.g.*, programming, ascertainment or employment initiatives). The parties to such an agreement must file with the Commission a joint request for approval of the agreement, a copy of any written agreement, and an affidavit executed by each party setting forth:

(1) Certification that neither the petitioner, nor any person or organization related to the petitioner, has received or will receive any money or other consideration in connection with the citizens' agreement other than legitimate and prudent expenses incurred in prosecuting the petition to deny;

(2) Certification that neither the petitioner, nor any person or organization related to petitioner is or will be involved in carrying out, for a fee, any programming, ascertainment, employment or other non-financial initiative referred to in the citizens' agreement; and

(3) The terms of any oral agreement.

(c) For the purposes of this section:

(1) Affidavits filed pursuant to this section shall be executed by the applicant, permittee or licensee, if an individual; a partner having personal knowledge of the facts, if a partnership; or an officer having personal knowledge of the facts, if a corporation or association.

(2) A petition shall be deemed to be pending before the Commission from the time a petition is filed with the Commission until an order of the Commission granting or denying the petition is no longer subject to reconsideration by the Commission or to review by any court.

(3) ''Legitimate and prudent expenses'' are those expenses reasonably incurred by a petitioner in preparing, filing, and prosecuting its petition for which reimbursement is being sought.

(4) ''Other consideration'' consists of financial concessions, including but not limited to the transfer of assets or the provision of tangible pecuniary benefit, as well as non-financial concessions that confer any type of benefit on the recipient.

[54 FR 22598, May 25, 1989. Redesignated and amended at 55 FR 28914, July 16, 1990]

§ 73.3589 Threats to file petitions to deny or informal objections.

(a) No person shall make or receive any payments in exchange for withdrawing a threat to file or refraining from filing a petition to deny or an informal objection. For the purposes of this section, reimbursement by an applicant of the legitimate and prudent expenses of a potential petitioner or objector incurred reasonably and directly in preparing to file a petition to deny will not be considered to be payment for refraining from filing a petition to deny or informal objection. Payments made directly to a potential petitioner or objector, or a person related to a potential petitioner or objector, to implement nonfinancial promises are prohibited unless specifically approved by the Commission.

(b) Whenever any payment is made in exchange for withdrawing a threat to file or refraining from filing a petition to deny or informal objection, the licensee must file with the Commission a copy of any written agreement related to the dismissal or withdrawal, and an affidavit setting forth:

(1) Certification that neither the would-be petitioner, nor any person or organization related to the would-be petitioner, has received or will receive any money or other consideration in connection with the citizens' agreement other than legitimate and prudent expenses reasonably incurred in preparing to file the petition to deny;

(2) Certification that unless such arrangement has been specifically approved by the Commission, neither the would-be petitioner, nor any person or organization related to the would-be petitioner, is or will be involved in carrying out, for a fee, any programming ascertainment, employment or other nonfinancial initiative referred to in the citizens' agreement; and

(3) The terms of any oral agreement.

(c) For purposes of this section:

(1) Affidavits filed pursuant to this section shall be executed by the licensee, if an individual; a partner having personal knowledge of the facts, if a partnership; or an officer having personal knowledge of the facts, if a corporation or association.

(2) ''Legitimate and prudent expenses'' are those expenses reasonably incurred by a would-be petitioner in preparing to file its petition for which reimbursement is being sought.

(3) ''Other consideration'' consists of financial concessions, including but not limited to the transfer of assets or the provision of tangible pecuniary benefit, as well as non-financial concessions that confer any type of benefit on the recipient.

[55 FR 28914, July 16, 1990]

§ 73.3591 Grants without hearing.

(a) Except for renewal applications filed after May 1, 1995 which will be subject to paragraph (d) of this section, in the case of any application for an instrument of authorization, other than a license pursuant to a construction permit, the FCC will make the grant if it finds (on the basis of the application, the pleadings filed or other matters which it may officially notice) that the application presents no substantial and material question of fact and meets the following requirements:

(1) There is not pending a mutually exclusive application filed in accordance with paragraph (b) of this section;

(2) The applicant is legally, technically, financially, and otherwise qualified;

(3) The applicant is not in violation of provisions of law, the FCC rules, or established policies of the FCC; and

(4) A grant of the application would otherwise serve the public interest, convenience and necessity.

(b) In making its determinations pursuant to the provisions of paragraph (a) of this section, the FCC will not consider any other application, or any application if amended so as to require a new file number, as being mutually exclusive or in conflict with the application under consideration unless such other application was substantially complete, and tendered for filing by:

(1) The close of business on the day preceding the day designated by Public Notice as the day the listed application is to be available and ready for processing;

(2) The date prescribed in § 73.3516(e) in the case of applications which are mutually exclusive with applications for renewal of license of broadcast stations; or

(3) The close of business on the day designated by the FCC pursuant to § 73.3564(d) as the date(s) for filing low power TV or TV translator applications.

(c) If a petition to deny the application has been filed in accordance with § 73.3584 and the FCC makes the grant in accordance with paragraph (a) of this section, the FCC will deny the petition and issue a concise statement setting forth the reasons for denial and disposing of all substantial issues raised by the petition.

(d) Renewal applications filed after May 1, 1995 will be governed by the criteria established in 47 U.S.C. § 309(k).

[44 FR 38507, July 2, 1979, as amended at 50 FR 47844, Dec. 7, 1984; 59 FR 31557, June 20, 1994; 61 FR 18291, Apr. 25, 1996]

§ 73.3592 Conditional grant.

(a) Where a grant of an application would preclude the grant of any application or applications mutually exclusive with it, the FCC may, if the public interest will be served thereby, make a conditional grant of one of the applications and designate all of the mutually exclusive applications for hearing. Such conditional grant will be made upon the express condition that such grant is subject to being withdrawn if, at the hearing, it is shown that public interest will be better served by a grant of one of the other applications. Such conditional grants will be issued only where it appears:

(1) That some or all of the applications were not filed in good faith but were filed for the purpose of delaying or hindering the grant of another application; or

(2) That public interest requires the prompt establishment of broadcast service in a particular community or area; or

(3) That a grant of one or more applications would be in the public interest, and that a delay in making a grant to

any applicant until after the conclusion of a hearing on all applications might jeopardize the rights of the United States under the provisions of international agreement to the use of the frequency in question; or

(4) That a grant of one application would be in the public interest, and that it appears from an examination of the remaining applications that they cannot be granted because they are in violation of provisions of the Communications Act, other statutes, or the provisions of the FCC rules.

(b) When two or more applications for the same AM, FM or TV assignment have been designated for hearing, the FCC may, if the public interest will be served thereby, make a conditional grant to a group composed of any two or more of the competing applicants, such grant to terminate when the successful applicant commences operation under the terms of a regular authorization. No conditional grant will be made unless all of the competing applicants have been afforded a reasonable opportunity to participate in the group seeking the conditional grant. In its application, the group shall include a special showing as to the need for the service pending operation by the successful applicant under the terms of a regular authorization; the effect, if any, of a grant on the position of any applicant which is not a member of the group; and any other factors which are deemed pertinent to the public interest judgment.

[44 FR 38507, July 2, 1979]

§ 73.3593 Designation for hearing.

If the FCC is unable, in the case of any application for an instrument of authorization, to make the findings specified in § 73.3591(a), it will formally designate the application for hearing on the grounds or reasons then obtaining and will forthwith notify the applicant and all known parties in interest of such action and the grounds and reasons therefor, specifying with particularity the matters and things in issue but not including issues or requirements phrased generally.

[44 FR 38508, July 2, 1979]

§ 73.3594 Local public notice of designation for hearing.

(a) Except as otherwise provided in paragraph (c) of this section when an application subject to the provisions of § 73.3580 (except for applications for International broadcast, low power TV, TV translator, FM translator, and FM booster stations) is designated for hearing, the applicant shall give notice of such designation as follows: Notice shall be given at least twice a week, for 2 consecutive weeks within the 3-week period immediately following release of the FCC's order, specifying the time and place of the commencement of the hearing, in a daily newspaper of general circulation published in the community in which the station is located or proposed to be located.

(1) However, if there is no such daily newspaper published in the community, the notice shall be given as follows:

(i) If one or more weekly newspapers of general circulation are published in the community in which the station is located or proposed to be located, notice shall be given in such a weekly newspaper once a week for 3 consecutive weeks within the 4-week period immediately following the release of the FCC's order, specifying the time and place of the commencement of the hearing;

(ii) If no weekly newspaper of general circulation is published in the community in which the station is located or proposed to be located, notice shall be given at least twice a week for 2 consecutive weeks within the 3-week period immediately following the release of the FCC's orders, specifying the time and place of the commencement of the hearing in the daily newspaper having the greatest general circulation in the community in which the station is located or proposed to be located.

(2) In the case of an application for a permit pursuant to Section 325(c) of the Communications Act, the notice shall be given at least twice a week for 2 consecutive weeks within the 3-week period immediately following release of the FCC's order, specifying the time and place of the commencement of the hearing in a daily newspaper of general circulation in the largest city in the

principal area to be served in the United States by the foreign radio broadcast station.

(3) In the case of an application for change in the location of a station, the notice shall be given both in the community in which the station is located and in the community in which the station is proposed to be located.

(b) When an application which is subject to the provisions of § 73.3580 and which seeks modification, assignment, transfer, or renewal of an operating broadcast station is designated for hearing (except for applications for an International broadcast, low power TV, TV translator, FM translator, or FM booster stations), the applicant shall, in addition to giving notice of such designation as provided in paragraph (a) of this section, cause the same notice to be broadcast over that station at least once daily for 4 days in the second week immediately following the release of the FCC's order, specifying the time and place of the commencement of the hearing. In the case of both commercial and noncommercial TV broadcast stations such notice shall be broadcast orally with the camera focused on the announcer. The notice required by this paragraph shall be broadcast during the following periods:

(1) For commercial TV stations, between 7:00 p.m. and 10:00 p.m.

(2) For commercial AM and FM stations, between 7:00 a.m. and 10:00 a.m., but if such stations do not operate during those hours, then between 6:00 p.m. and 9:00 p.m.

(3) For noncommercial educational TV stations, between 7:00 p.m. and 10:00 p.m., but if the period of broadcast of notice falls within a portion of the year during which such stations do not broadcast, then such stations need not comply with the provisions of this paragraph.

(4) For noncommercial educational AM and FM stations, between 3:00 p.m. and 10:00 p.m., but if the period of broadcast of notice falls within a portion of the year during which such stations do not broadcast, then such stations need not comply with the provisions of this paragraph.

(c) If the station in question is the only operating station in its broadcast service which is located in the community involved, or if it is a noncommerical educational station, publication of the notice in a newspaper, as provided in paragraph (a) of this section, is not required, and publication by broadcast over that station as provided in paragraph (b) of this section shall be deemed sufficient to meet the requirements of paragraphs (a) and (b) of this section. However, noncommercial educational stations which do not broadcast during the portion of the year in which the period of broadcast of notice falls must comply with the provisions of paragraph (a) of this section.

(d) The notice required by paragraphs (a) and (b) of this section shall state:

(1) The name of the applicant or applicants designated for hearing.

(2) The call letters, if any, of the stations or stations involved, and the frequencies or channels on which the station or stations are operating or proposed to operate.

(3) The time and place of the hearing.

(4) The issues in the hearing as listed in the FCC's order or summary of designation for hearing.

(5) A statement that a copy of the application, amendment(s), and related material are on file for public inspection at a stated address in the community in which the station is located or is proposed to be located. See §§ 73.3526 and 73.3527.

(e) When an application for renewal of license is designated for hearing, the notice shall contain the following additional statements:

(1) Immediately preceding the listing of the issues in the hearing:

The application of this station for a renewal of its license to operate this station in the public interest was tendered for filing with the Federal Communications Commission on (*date*). After considering this application, the FCC has determined that it is necessary to hold a hearing to decide the following questions:

(2) Immediately following the listing of the issues in the hearing:

The hearing will be held at (*place of hearing*) commencing at (*time*), on (*date*). Members of the public who desire to give evidence concerning the foregoing issues should write to the Federal Communications Commission, Washington, DC 20554, not later than (*date*). Letters should set forth in detail the specific facts concerning which the writer wishes to

give evidence. If the FCC believes that the evidence is legally competent, material, and relevant to the issues, it will contact the person in question.

(Here the applicant shall insert, as the date on or before which members of the public who desire to give evidence should write to the FCC, the date 30 days after the date of release of the FCC's order specifying the time and place of the commencement of the hearing.)

(f) When an application for a low power TV, TV translator, FM translator, or FM booster station which is subject to the provisions of § 73.3580 is designated for hearing, the applicant shall give notice of such designation as follows: Notice shall be given at least once during the 2-week period immediately following release of the FCC's order, specifying the time and place of the commencement of the hearing in a daily, weekly or biweekly publication having general circulation in the community or area to be served. However, if there is no publication of general circulation in the community or area to be served, the applicant shall determine an appropriate means of providing the required notice to the general public, such as posting in the local post office or other public place. The notice shall state:

(1) The name of the applicant or applicants designated for hearing.

(2) The call letters, if any, of the station or stations involved, the output channel or channels of such stations, and, for any rebroadcasting, the call letters, channel and location of the station or stations being or proposed to be rebroadcast.

(3) The time and place of the hearing.

(4) The issues in the hearing as listed in the FCC's order or summary of designation for hearing.

(5) If the application is for renewal of license, the notice shall contain, in addition to the information required by paragraphs (f) (1) through (4) of this section, the statements required by paragraph (e) of this section.

(g) Within 7 days of the last day of publication or broadcast of the notice required by paragraphs (a) and (b) of this section, the applicant shall file a statement in triplicate with the FCC setting forth the dates on which the notice was published, the newspaper in which the notice was published, the text of the notice, and/or, where applicable, the date and time the notice was broadcast and the text thereof. When public notice is given by other means, as provided in pararaph (f) of this section, the applicant shall file, within 7 days of the giving of such notice, the text of the notice, the means by which it was accomplished, and the date thereof.

(h) The failure to comply with the provisions of this section is cause for dismissal of an application with prejudice. However, upon a finding that applicant has complied (or proposes to comply) with the provisions of Section 311(a)(2) of the Communications Act, and that the public interest, convenience and necessity will be served thereby, the presiding officer may authorize an applicant, upon a showing of special circumstances, to publish notice in a manner other than that prescribed by this section; may accept publication of notice which does not conform strictly in all respects with the provisions of this section; or may extend the time for publishing notice.

[44 FR 38508, July 2, 1979, as amended at 47 FR 21495, May 18, 1982; 48 FR 9012, Mar. 3, 1983; 49 FR 38132, Sept. 27, 1984; 51 FR 19347, May 29, 1986; 52 FR 21686, June 9, 1987; 58 FR 51251, Oct. 1, 1993]

§ 73.3597 Procedures on transfer and assignment applications.

(a) If, upon the examination of an application for FCC consent to an assignment of a broadcast construction permit or license or for a transfer of control of a corporate permittee or licensee, it appears that the station involved has been operated on-air by the current licensee or permittee for less than one year, the application will be designated for hearing on appropriate issues unless the FCC is able to find that:

(1) The permit or license was not authorized either through the Minority Ownership Policy or after a comparative hearing or, in the case of low power TV and TV translator stations, the permit or license was not authorized after a lottery in which the permittee or licensee benefited from minority or diversity preferences;

(2) The application involves an FM translator station or FM booster station only;

(3) The application involves a *pro forma* assignment or transfer of control; or

(4) The assignor or transferor has made an affirmative factual showing, supported by affidavits of a person or persons with personal knowledge thereof, which establishes that, due to unavailability of capital, to death or disability of station principals, or to other changed circumstances affecting the licensee or permittee occurring subsequent to the acquisition of the license or permit, FCC consent to the proposed assignment or transfer of control will serve the public interest, convenience and necessity.

(5) the assignee or transferee has made an affirmative factual showing, supported by affidavits of a person or persons with personal knowledge thereof, which established that the proposed transaction would involve an assignment or transfer to a minority-owned or minority controlled entity in furtherance of our Minority Ownership Policy.

(b)(1) The commencement date of the one-year period set forth in paragraph (a) of this section shall be the date on which the station initiated program tests in accordance with § 73.1620 or § 74.14.

(2) In determining whether the station has been operating on-air for one year, the FCC will calculate the period between the date of initiation of program tests (as specified in paragraph (b)(1) of this section) and the date the application for transfer or assignment is tendered for filing with the FCC.

(c)(1) As used in paragraphs (c) and (d) of this section:

(i) *Unbuilt station* refers to an AM, FM, or TV broadcast station or a low power TV or TV translator station for which a construction permit is outstanding, and, regardless of the stage of physical completion, as to which program tests have not commenced or, if required, been authorized.

(ii) *Seller* includes the assignor(s) of a construction permit for an unbuilt station, the transferor(s) of control of the holder of such construction permit, and any principal or such assignor(s) or transferor(s) who retains an interest in the permittee or acquires or reacquires such interest within 1 year after commencing program tests.

(2) The FCC will not consent to the assignment or transfer of control of the construction permit of an unbuilt station if the agreements or understandings between the parties provide for, or permit, payment to the seller of a sum in excess of the aggregate amount clearly shown to have been legitimately and prudently expended and to be expended by the seller, solely for preparing, filing, and advocating the grant of the construction permit for the station, and for other steps reasonably necessary toward placing the station in operation.

(3)(i) Applications for consent to the assignment of a construction permit or transfer of control shall, in the case of unbuilt stations, be accompanied by declarations both by the assignor (or transferor) and by the assignee (or transferee) that, except as clearly disclosed in detail in the applications, there are no agreements or understandings for reimbursement of the seller's expenses or other payments to the seller, for the seller's retention of any interest in the station, for options or any other means by which the seller may acquire such an interest, or for any other actual or potential benefit to the seller in the form of loans, the subsequent repurchase of the seller's retained interest, or otherwise.

(ii) When the seller is to receive reimbursement of his expenses, the applications of the parties shall include an itemized accounting of such expenses, together with such factual information as the parties rely upon for the requisite showing that those expenses represent legitimate and prudent outlays made solely for the purposes allowable under paragraph (c)(2) of this section.

(d)(1) Whenever an agreement for the assignment of the construction permit of an unbuilt station or for the transfer of control of the permittee of an unbuilt station, or any arrangement or understanding incidental thereto, provides for the retention by the seller of any interest in the station, or for any other actual or potential benefit to the seller in the form of loans or otherwise, the question is raised as to whether the

transaction involves actual or potential gain to the seller over and above the legitimate and prudent out-of-pocket expenses allowable under paragraph (c)(2) of this section. In such cases the FCC will designate the assignment or transfer applications for evidentiary hearing. However, a hearing is not mandatory in cases coming within paragraph (d)(2) of this section.

(2) It is not intended to forbid the seller to retain an equity interest in an unbuilt station which he is transferring or assigning if the seller obligates himself, for the period ending 1 year after commencing program tests, to provide that part of the total capital made available to the station, up to the end of that period, which is proportionate to the seller's equity share in the permittee, taking into account equity capital, loan capital, and guarantees of interest and amortization payments for loan capital provided by the seller before the transfer or assignment. This condition will be satisfied:

(i) In the case of equity capital: By paid-in cash capital contributions proportionate to the seller's equity share;

(ii) In cases where any person who has an equity interest in the permittee provides loan capital: By the seller's provision of that part of the total loan capital provided by equity holders which is proportionate to the seller's equity share; and

(iii) In cases where any person cosigns or otherwise guarantees payments under notes given for loan capital provided by nonequity holders: By similar guarantees by the seller covering that part of such payments as is proportionate to the seller's equity share. However, this condition shall not be deemed to be met if the guarantees given by persons other than the seller cover, individually or collectively, a larger portion of such payments than the ratio of the combined equities of persons other than the seller to the total equity.

(3) In cases which are subject to the requirements of paragraphs (d)(2) (i), (ii) and (iii) of this section:

(i) The assignee's (or transferee's) application shall include a showing of the anticipated capital needs of the station through the first year of its operation and the seller's financial capacity to comply with the above requirements, in the light of such anticipated capital needs.

(ii) The FCC will determine from its review of the applications whether a hearing is necessary to ensure compliance with the above requirements.

(iii) Compliance with the above requirements will be subject to review by the FCC at any time, either when considering subsequently filed applications or whenever the FCC may otherwise find it desirable.

(iv) Within 30 days after any time when a seller is required to provide equity or loan capital or execute guarantees, the permittee shall furnish the FCC a written report containing sufficient details as to the sources and amounts of equity capital paid in, loan capital made available, or guarantees obtained as to enable the FCC to ascertain compliance with the above requirements.

(v) No steps shall be taken by the permittee to effectuate arrangements for the provision of equity or loan capital from sources not previously identified and disclosed to the FCC, until 30 days after the permittee has filed with the FCC a report of such arrangements and of provisions made for the seller's compliance with the above requirement.

(vi) The provisions of paragraphs (d)(3) (iv) and (v) of this section shall cease to apply 1 year after commencing program tests.

(4) Applications subject to this paragraph (d) of this section will, in any event, be designated for evidentiary hearing in any case where the agreements, arrangements or understandings with the seller provide for the seller's option to acquire equity in the station or to increase equity interests he retains at the time of the assignment or transfer of control. An evidentiary hearing will similarly be held in any case in which the assignee(s), transferee(s) or any of their principals, or any person in privity therewith, has an option to purchase all or part of the

seller's retained or subsequently acquired equity interests in the station.

[44 FR 38509, July 2, 1979, as amended at 47 FR 24580, June 7, 1982; 47 FR 55930, Dec. 14, 1982; 48 FR 9012, Mar. 3, 1983; 48 FR 27207, June 13, 1983; 50 FR 6946, Feb. 19, 1985; 53 FR 36787, Sept. 22, 1988]

§ 73.3598 Period of construction.

(a) *TV broadcast stations.* Each original construction permit for the construction of a new TV broadcast station, or to make changes in an existing station, shall specify a period of no more than 24 months from the date of issuance of the original construction permit within which construction shall be completed and application for license filed.

(b) *Other broadcast, auxiliary and Instructional TV Fixed Stations.* Each original permit for the construction of a new AM, FM or International Broadcast; low power TV; TV translator; TV booster; FM translator; FM booster; broadcast auxiliary; or Instructional TV Fixed station, or to make changes in such existing stations, shall specify a period of no more than 18 months from the date of issuance of the original construction permit within which construction shall be completed and application for licensed be filed.

(c) An existing AM station operating in the 535–1605 kHz band that receives a conditional permit to operate in the 1605–1705 kHz band; such permit shall specify a period of not more than 18 months from the date of issuance of the original construction permit within which construction shall be completed and application for license filed.

[50 FR 52779, Dec. 26, 1985, as amended at 52 FR 11656, Apr. 10, 1987; 52 FR 31402, Aug. 20, 1987; 56 FR 64874, Dec. 12, 1991]

§ 73.3599 Forefeiture of construction permit.

A construction permit shall be declared forfeited if the station is not ready for operation within the time specified therein or within such further time as the FCC may have allowed for completion, and a notation of the forefeiture of any construction permit under this provision will be placed in the records of the FCC as of the expiration date.

[50 FR 52779, Dec. 26, 1985]

§ 73.3601 Simultaneous modification and renewal of license.

When an application is granted by the FCC necessitating the issuance of a modified license less than 60 days prior to the expiration date of the license sought to be modified, and an application for renewal of the license is granted subsequent or prior thereto (but within 30 days of expiration of the present license), the modified license as well as the renewal license shall be issued to conform to the combined action of the FCC.

[44 FR 38511, July 2, 1979]

§ 73.3603 Special waiver procedure relative to applications.

(a) In the case of any broadcast applications designated for hearing, the parties may request the FCC to grant or deny an application upon the basis of the information contained in the applications and other papers specified in paragraph (b) of this section without the presentation of oral testimony. Any party desiring to follow this procedure should execute and file with the FCC a waiver in accordance with paragraph (e) of this section, and serve copies on all other parties, or a joint waiver may be filed by all the parties. Upon the receipt of waivers from all parties to a proceeding, the FCC will decide whether the case is an appropriate one for determination without the presentation of oral testimony. If it is determined by the FCC that, notwithstanding the waivers, the presentation of oral testimony is necessary, the parties will be so notified and the case will be retained on the hearing docket. If the FCC concludes that the case can appropriately be decided without the presentation of oral testimony, the record will be considered as closed as of the date the waivers of all the parties were first on file with the FCC.

(b) In all cases considered in accordance with this procedure, the FCC will decide the case on the basis of the information contained in the applications and in any other papers pertaining to the applicants or applications

which are open to public inspection and which were on file with the FCC when the record was closed. The FCC may call upon any party to furnish any additional information which the FCC deems necessary to a proper decision. Such information shall be served upon all parties. The waiver previously executed by the parties shall be considered in effect unless within 10 days of the service of such information the waiver is withdrawn.

(c) Any decision by the FCC rendered pursuant to this section will be in the nature of a final decision, unless otherwise ordered by the FCC.

(d) By agreeing to the waiver procedure prescribed in this section, no party shall be deemed to waive the right to petition for reconsideration or rehearing, or to appeal to the courts from any adverse final decision of the FCC.

(e) The waiver provided for by this section shall be in the following form:

WAIVER

Name of applicant .....
Call letters .....
Docket No. .....

The undersigned hereby requests the FCC to consider its application and grant or deny it in accordance with the procedure prescribed in § 73.3603 of the FCC's rules and regulations. It is understood that all the terms and provisions of ——— are incorporated in this waiver.

[44 FR 38511, July 2, 1979]

§ 73.3605 Retention of applications in hearing status after designation for hearing.

(a) After an application for a broadcast facility is designated for hearing, it will be retained in hearing status upon the dismissal or amendment and removal from hearing of any other application or applications with which it has been consolidated for hearing.

(b) Where any applicants for a broadcast facility file a request pursuant to § 73.3525(a) for approval of an agreement to remove a conflict between their applications, the applications will be retained in hearing status pending such proceedings on the joint request as may be ordered and such action thereon as may be taken.

(1) If further hearing is not required on issues other than those arising out of the agreement, the proceeding shall be terminated and appropriate disposition shall be made of the applications.

(2) Where further hearing is required on issues unrelated to the agreement, the presiding officer shall continue to conduct the hearing on such other issues pending final action on the agreement, but the record in the proceeding shall not be closed until such final action on the agreement has been taken.

(3) In any case where a conflict between applications will be removed by an agreement for an engineering amendment to an application, the amended application shall be removed from hearing status upon final approval of the agreement and acceptance of the amendment.

(c) An application for a broadcast facility which has been designated for hearing and which is amended so as to eliminate the need for hearing or further hearing on the issues specified, other than as provided for in paragraph (b) of this section, will be removed from hearing status.

[44 FR 38511, July 2, 1979]

§ 73.3612 Annual employment report.

Each licensee or permittee of a commercially or noncommercially operated AM, FM, TV or International broadcast station with five or more fulltime employees shall file an annual employment report with the FCC on or before May 31 of each year on FCC Form 395.

[44 FR 38511, July 2, 1979]

§ 73.3613 Filing of contracts.

Each licensee or permittee of a commercial or noncommercial AM, FM, TV or International broadcast station shall file with the FCC copies of the following contracts, instruments, and documents together with amendments, supplements, and cancellations (with the substance of oral contracts reported in writing), within 30 days of execution thereof:

(a) Network service: Network affiliation contracts between stations and networks will be reduced to writing and filed as follows:

(1) All network affiliation contracts, agreements, or understandings between

a TV broadcast or low power TV station and a national network. For the purposes of this paragraph the term network means any person, entity, or corporation which offers an interconnected program service on a regular basis for 15 or more hours per week to at least 25 affiliated television licensees in 10 or more states; and/or any person, entity, or corporation controlling, controlled by, or under common control with such person, entity, or corporation.

(2) Each such filing on or after May 1, 1969, initially shall consist of a written instrument containing all of the terms and conditions of such contract, agreement or understanding without reference to any other paper or document by incorporation or otherwise. Subsequent filings may simply set forth renewal, amendment or change, as the case may be, of a particular contract previously filed in accordance herewith.

(3) The FCC shall also be notified of the cancellation or termination of network affiliations, contracts for which are required to be filed by this section.

(b) Ownership or control: Contracts, instruments or documents relating to the present or future ownership or control of the licensee or permittee or of the licensee's or permittee's stock, rights or interests therein, or relating to changes in such ownership or control shall include but are not limited to the following:

(1) Articles of partnership, association, and incorporation, and changes in such instruments;

(2) Bylaws, and any instruments effecting changes in such bylaws;

(3) Any agreement, document or instrument providing for the assignment of a license or permit, or affecting, directly or indirectly, the ownership or voting rights of the licensee's or permittee's stock (common or preferred, voting or nonvoting), such as:

(i) Agreements for transfer of stock;

(ii) Instruments for the issuance of new stock; or

(iii) Agreements for the acquisition of licensee's or permittee's stock by the issuing licensee or permittee corporation. Pledges, trust agreements, options to purchase stock and other executory agreements are required to be filed. However, trust agreements or abstracts thereof are not required to be filed, unless requested specifically by the FCC. Should the FCC request an abstract of the trust agreement in lieu of the trust agreement, the licensee or permittee will submit the following information concerning the trust:

(A) Name of trust;

(B) Duration of trust;

(C) Number of shares of stock owned;

(D) Name of beneficial owner of stock;

(E) Name of record owner of stock;

(F) Name of the party or parties who have the power to vote or control the vote of the shares; and

(G) Any conditions on the powers of voting the stock or any unusual characteristics of the trust.

(4) Proxies with respect to the licensee's or permittee's stock running for a period in excess of 1 year, and all proxies, whether or not running for a period of 1 year, given without full and detailed instructions binding the nominee to act in a specified manner. With respect to proxies given without full and detailed instructions, a statement showing the number of such proxies, by whom given and received, and the percentage of outstanding stock represented by each proxy shall be submitted by the licensee or permittee within 30 days after the stockholders' meeting in which the stock covered by such proxies has been voted. However, when the licensee or permittee is a corporation having more than 50 stockholders, such complete information need be filed only with respect to proxies given by stockholders who are officers or directors, or who have 1% or more of the corporation's voting stock. When the licensee or permittee is a corporation having more than 50 stockholders and the stockholders giving the proxies are not officers or directors or do not hold 1% or more of the corporation's stock, the only information required to be filed is the name of any person voting 1% or more of the stock by proxy, the number of shares voted by proxy by such person, and the total number of shares voted at the particular stockholders' meeting in which the shares were voted by proxy.

(5) Mortgage or loan agreements containing provisions restricting the licensee's or permittee's freedom of operation, such as those affecting voting rights, specifying or limiting the amount of dividends payable, the purchase of new equipment, or the maintenance of current assets.

(6) Any agreement reflecting a change in the officers, directors or stockholders of a corporation, other than the licensee or permittee, having an interest, direct or indirect, in the licensee or permittee as specified by § 73.3615.

(c) Personnel: (1) Management consultant agreements with independent contractors; contracts relating to the utilization in a management capacity of any person other than an officer, director, or regular employee of the licensee or permittee; station management contracts with any persons, whether or not officers, directors, or regular employees, which provide for both a percentage of profits and a sharing in losses; or any similar agreements.

(2) The following contracts, agreements, or understandings need not be filed: Agreements with persons regularly employed as general or station managers or salesmen; contracts with program managers or program personnel; contracts with attorneys, accountants or consulting radio engineers; contracts with performers; contracts with station representatives; contracts with labor unions; or any similar agreements.

(d) Time brokerage agreements: Time brokerage agreements involving radio stations, where the licensee (including all parties under common control) is the brokering entity, there is a principal community contour (predicted or measured 5 mV/m groundwave for AM stations and predicted 3.16 mV/m for FM stations) overlap with the brokered station, and more than 15 percent of the time of the brokered station, on a weekly basis, is brokered by that licensee. Confidential or proprietary information may be redacted where appropriate but such information shall be made available for inspection upon request by the FCC.

(e) The following contracts, agreements or understandings need not be filed but shall be kept at the station and made available for inspection upon request by the FCC: contracts relating to the sale of television broadcast time to ''time brokers'' for resale; subchannel leasing agreements for Subsidiary Communications Authorization operation; franchise/leasing agreements for operation of telecommunications services on the TV vertical blanking interval and in the visual signal; time sales contracts with the same sponsor for 4 or more hours per day, except where the length of the events (such as athletic contests, musical programs and special events) broadcast pursuant to the contract is not under control of the station; and contracts with chief operators.

[44 FR 38512, July 2, 1979, as amended at 47 FR 21496, May 18, 1982; 50 FR 4664, Feb. 1, 1985; 50 FR 30951, July 31, 1985; 51 FR 9966, Mar. 24, 1986; 51 FR 15785, Apr. 28, 1986; 57 FR 18093, Apr. 29, 1992; 57 FR 42706, Sept. 16, 1992; 61 FR 36305, July 10, 1996]

§ 73.3615 Ownership reports.

(a) With the exception of sole proprietorships and partnerships composed entirely of natural persons, each licensee of a commercial AM, FM, or TV broadcast station shall file an Ownership Report on FCC Form 323 once a year, on the anniversary of the date that its renewal application is required to be filed. Licensees owning multiple stations with different anniversary dates need file only one Report per year on the anniversary of their choice, provided that their Reports are not more than one year apart. A licensee with a current and unamended Report on file at the Commission may certify that it has reviewed its current Report and that it is accurate, in lieu of filing a new Report. Ownership Reports shall provide the following information as of a date not more than 60 days prior to the filing of the Report:

(1) In the case of an individual, the name of such individual;

(2) In the case of a partnership, the name of each partner and the interest of each partner. Except as specifically noted below, the names of limited partners shall be reported. A limited partner need not be reported, regardless of the extent of its ownership, if the

limted partner is not materially involved, directly or indirectly, in the management or operation of the licensee and the licensee so certifies.

(i) Any change in partners or in their rights will require prior consent of the FCC upon an application for consent to assignment of license or permit. If such change involves less than a controlling interest, the application for FCC consent to such changes may be made upon FCC Form 316.

(ii) [Reserved]

(3) In the case of a corporation, association, trust, estate or receivership, the data applicable to each:

(i)(A) The name, residence, citizenship, and stockholding of every officer, director, trustee, executor, administrator, receiver and member of an association, and any stockholder which holds stock accounting for 5 percent or more of the votes of the corporation, except that an investment company, insurance company, or bank trust department need be reported only if it holds stock amounting to 10 percent or more of the votes, provided that the licensee certifies that such entity has made no attempt to influence, directly or indirectly, the management or operation of the licensee, and that there is no representation on the licensee's board or among its officers by any person professionally or otherwise associated with the entity.

(B) A licensee shall report any separate interests known to the licensee to be held ultimately by the same individual or entity, whether those interests are held in custodial accounts, by individual holding corporations or otherwise, if, when aggregated:

(*1*) The sum of all interests except those held by or through ''passive investors'' is equal to or exceeds 5 percent; or

(*2*) The sum of all interests held by or through ''passive investors'' is equal to or exceeds 10 percent; or

(*3*) The sum of the interests computed under paragraph (a)(3)(i)(B)(*1*) of this section plus the sum of the interests computed under paragraph (a)(3)(i)(B)(*2*) of this section is equal to or exceeds 10 percent.

(C) If the majority of the voting stock of a corporate licensee is held by a single individual or entity, no other stockholding need be reported for that licensee;

(ii) Full information as to family relationship or business association between two or more officials and/or stockholders, trustees, executors, administrators, receivers, and members of any association;

(iii) Capitalization with a description of the classes and voting power of stock authorized by the corporate charter or other appropriate legal instrument and the number of shares of each class issued and outstanding; and

(iv) Full information with respect to the interest and identity of any person having any direct, indirect, fiduciary, or beneficial interest in the licensee or in its stock accounting for 5% or more of its votes. For example:

(A) Where A is the trustee of stock held for beneficiary B, A shall be reported if A votes the stock or has the sole or shared power to dispose of the stock; B or any other party shall be reported if B or such party votes the stock or has sole power to dispose of the stock or has the power to revoke the trust or replace the trustee at will;

(B) Where X is not a natural person and has attributable ownership interest in the licensee under § 73.3555 of the rules, regardless of its position in the vertical ownership chain, an Ownership Report shall be filed for X which, except as specifically noted below, must contain the same information as required of a licensee. If X has a voting stockholder interest in the licensee, only those voting interests of X that are cognizable after application of the ''multiplier'' described in Note 2(d) of § 73.3555 of the rules, if applicable, shall be reported. If X is a corporation, whether or not its interest in the licensee is by virtue of its ownership of voting stock, the officers and directors shall be reported. With respect to those officers and directors whose duties and responsibilities are wholly unrelated to the licensee, and who wish to be relieved of attribution in the licensee, the name, title and duties of these officers and directors, with statements properly documenting that their duties do not involve the licensee, shall be reported.

(4) In the case of all licensees:

(i) A list of all contracts still in effect required to be filed with the FCC by § 73.3613 showing the date of execution and expiration of each contract; and

(ii) Any interest which the licensee may have in any other broadcast station.

(b) Except as specifically noted below, each permittee of a commercial AM, FM or TV broadcast station shall file an Ownership Report on FCC Form 323 (1) within 30 days of the date of grant by the FCC of an application for original construction permit and (2) on the date that it applies for a station license. The Ownership Report of the permittee shall give the information required by the applicable portions of paragraph (a) of this section. A permittee with a current and unamended Report on file at the Commission may certify that it has reviewed its current Report and it is accurate, in lieu of filing a new Report.

(c) Before any change is made in the organization, capitalization, officers, directors, or stockholders of a corporation other than licensee or permittee, which results in a change in the control of the licensee or permittee, prior FCC consent must be received under § 73.3540. A transfer of control takes place when an individual or group in privity, gains or loses affirmative or negative (50%) control. See instructions on FCC Form 323 (Ownership Report).

(d) Each licensee of a noncommercial educational AM, FM or TV broadcast station shall file an Ownership Report on FCC Form 323–E at the time the application for renewal of station license is required to be filed. Licensees owning more than one noncommercial educational AM, FM or TV broadcast station need file only one Ownership Report at 5 year intervals for TV stations and 7 year intervals for AM and FM stations. Ownership Reports shall give the following information as of a date not more than 30 days prior to the filing of the Ownership Report:

(1) The following information as to all officers, members of governing board, and holders of 1% or more ownership interest (if any): Name, residence, office held, citizenship, principal profession or occupation, and by whom appointed or elected.

(2) Full information with respect to the interest and identity of any individual, organization, corporation, association, or any other entity which has direct or indirect control over the licensee or permittee.

(3) A list of all contracts still in effect required by § 73.3613 to be filed with the FCC, showing the date of execution and expiration of each contract.

(4) Any interest which the licensee or permittee or any of its officers, members of the governing board, and holders of 1% or more ownership interest (if any) held in any other broadcast station.

(e) Each permittee of a noncommercial educational AM, FM or TV broadcast station shall file an Ownership Report on FCC Form 323–E within 30 days of the date of grant by the FCC of an application for original construction permit. The Ownership Report of the permittee shall give the information required by the applicable form.

(f) A supplemental Ownership Report on FCC Form 323–E shall be filed by each licensee or permittee within 30 days after any change occurs in the information required by the Ownership Report from that previously reported. Such report should include, without limitation:

(1) Any change in organization;

(2) Any change in officers or directors;

(3) Any transaction affecting the ownership (direct or indirect) or voting rights with respect to the licensee or permittee (or with respect to any stock interest therein).

(g) A copy of all ownership and supplemental ownership reports and related material filed pursuant to this section shall be maintained and made available for public inspection locally as required by §§ 73.3526 and 73.3527.

[44 FR 38513, July 2, 1979, as amended at 49 FR 19498, May 8, 1984; 50 FR 27450, July 3, 1985; 50 FR 40016, Oct. 1, 1985; 52 FR 1632, Jan. 15, 1987; 53 FR 2499, Jan. 28, 1988; 53 FR 5684, Feb. 25, 1988; 53 FR 36787, Sept. 22, 1988]

§ 73.3999 Enforcement of 18 U.S.C. 1464 (restrictions on the transmission of obscene and indecent material).

(a) No licensee of a radio or television broadcast station shall broadcast any material which is obscene.

(b) No licensee of a radio or television broadcast station shall broadcast on any day between 6 a.m. and 10 p.m. any material which is indecent.

[60 FR 44439, Aug. 28, 1995]

§ 73.4000 Listing of FCC policies.

The following sections list, solely for the purpose of reference and convenience, certain Policies of the FCC. The present listing of FCC policies and citations thereto should not be relied upon as an all-inclusive list, and the failure to include a policy in this list does not affect its validity. Each section bears the title of one Policy and the citations which will direct the user to the specific document(s) pertaining to that Policy.

[44 FR 36387, June 22, 1979]

§ 73.4005 Advertising—refusal to sell.

See 412 U.S. 94 (Supreme Court, 1973).

[44 FR 36388, June 22, 1979]

§ 73.4015 Applications for AM and FM construction permits, incomplete or defective.

See Public Notice, FCC 84–366, dated August 2, 1984, 49 FR 47331, December 3, 1984.

[49 FR 50048, Dec. 26, 1984]

§ 73.4017 Application processing: Commercial FM stations.

See Report and Order, MM Docket 84–750, FCC 85–125, adopted March 4, 1985. 50 FR 19936, May 13, 1985.

[59 FR 52086, Oct. 14, 1994]

§ 73.4045 Barter agreements.

See Order, FCC 72–167, adopted February 16, 1972. 33 FCC 2d 653; 37 FR 4009, February 25, 1972.

[44 FR 36388, June 22, 1979]

§ 73.4050 Children's TV programs.

(a) See Report and Policy Statement, Docket 19142, FCC 74–1174, adopted October 24, 1974. 50 FCC 2d 1; 39 FR 39396, November 6, 1974.

(b) See Report and Order; Policy Statement, Docket 19142, FCC 83–609, adopted December 22, 1983. 96 FCC 2d 634; 49 FR 1704, January 13, 1984.

(c) See Report and Order, MM Dockets 90–570 and 83–670, FCC 91–113, adopted April 9, 1991. 6 FCC Rcd 2111; 56 FR 19611, April 19, 1991; Memorandum Opinion and Order, MM Dockets 90–570 and 83–670, FCC 91–248, adopted August 1, 1991. 6 FCC Rcd 5093; 56 FR 42707, August 29, 1991.

[49 FR 14509, Apr. 12, 1984, as amended at 59 FR 52086, Oct. 14, 1994]

§ 73.4055 Cigarette advertising.

See 15 U.S.C. 1335.

[44 FR 36388, June 22, 1979]

§ 73.4060 Citizens agreements.

(a) See Report and Order, Docket 20495, FCC 75–1359, adopted December 10, 1975. 57 F.C.C. 2d 42; 40 F.R. 49730, December 30, 1975.

(b) See Memorandum Opinion and Order, FCC 78–875, adopted December 21, 1978. 70 F.C.C. 2d 1672.

[44 FR 58720, Oct. 11, 1979]

§ 73.4075 Commercials, loud.

See Memorandum Opinion and Order, BC Docket 79–168, FCC 84–300, adopted June 27, 1984. 49 FR 28077, July 10, 1984.

[49 FR 38132, Sept. 27, 1984]

§ 73.4082 Comparative broadcast hearings—specialized programming formats.

(a) See Memorandum Opinion and Order, FCC 80–33, adopted January 30, 1980. 75 FCC 2d 721.

(b) See Report and Order, Docket 79–137, FCC 79–331, adopted June 1, 1979. 72 FCC 2d 202.

(c) See Memorandum Opinion and Order, FCC 79–206, adopted March 30, 1979. 71 FCC 2d 460.

[47 FR 3792, Jan. 27, 1982]

§ 73.4091 Direct broadcast satellites.

(a) See Report and Order, General Docket 80–603, FCC 82–285, adopted June 23, 1982. 90 FCC 2d 676; 47 FR 31555, July 21, 1982.

(b) See Memorandum Opinion and Order, FCC 82–427, adopted September 23, 1982. 91 FCC 2d.

(c) See Memorandum Opinion and Order, FCC 82–498, adopted November 4, 1982. 91 FCC 2d.

[48 FR 9012, Mar. 3, 1983]

§ 73.4094 Dolby encoder.

See Public Notice dated July 10, 1974, 72 FCC 2d 790.

[45 FR 6403, Jan. 28, 1980]

§ 73.4095 Drug lyrics.

(a) See Public Notice, FCC 71–205, dated March 5, 1971. 28 FCC 2d 409; 36 FR 4901, March 13, 1971.

(b) See Memorandum Opinion and Order, FCC 71–428, adopted April 16, 1971. 31 FCC 2d 377; 36 FR 8090, April 29, 1971.

[44 FR 36388, June 22, 1979]

§ 73.4097 EBS (now EAS) attention signals on automated programing systems.

See Public Notice dated March 1, 1979. 72 FCC 2d 788; 44 FR 17792, March 23, 1979.

[49 FR 50049, Dec. 26, 1984, as amended at 59 FR 67103, Dec. 28, 1994]

§ 73.4099 Financial qualifications, certification of.

See Public Notice, FCC 87–97, adopted March 19, 1987. 52 FR 17333, May 7, 1987.

[53 FR 2499, Jan. 28, 1988]

§ 73.4100 Financial qualifications; new AM and FM stations.

See Public Notice, FCC 78–556, dated August 2, 1978. 69 FCC 2d 407; 43 FR 34841, August 7, 1978.

[44 FR 36388, June 22, 1979]

§ 73.4101 Financial qualifications, TV stations.

See Public Notice, FCC 79–299, dated May 11, 1979. 72 F.C.C. 2d 784; 44 FR 29160, May 18, 1979.

[45 FR 6403, Jan. 28, 1980]

§ 73.4102 FAA communications, broadcast of.

See Public Notice, FCC 72–105, dated February 2, 1972. 37 FR 3567, February 17, 1972.

[45 FR 6403, Jan. 28, 1980]

§ 73.4104 FM assignment policies and procedures.

See Report and Order, BC Docket 80–130, FCC 82–240, adopted May 20, 1982. 90 FCC 2d, 88; 47 FR 26625, June 21, 1982.

[47 FR 54448, Dec. 3, 1982]

§ 73.4107 FM broadcast assignments, Increasing availability of.

(a) See, First Report and Order MM Docket 84–231, FCC 84–640, adopted December 19, 1984. 100 FCC 2d 1332; 50 FR 3514, January 25, 1994.

(b) See, Second Report and Order, MM Docket 84–231, FCC 85–124, adopted March 14, 1985. 101 FCC 2d 630; 50 FR 15558, April 19, 1985.

(c) See, Memorandum Opinion and Order, MM Docket 84–231, FCC 86–76, adopted February 10, 1986. 51 FR 9210, March 18, 1986.

(d) See Public Notice, 51 FR 26009, July 18, 1986.

[51 FR 26251, July 22, 1986, as amended at 52 FR 11656, Apr. 10, 1987; 59 FR 52086, Oct. 14, 1994]

§ 73.4108 FM transmitter site map submissions.

See Memorandum Opinion and Order and Public Notice, adopted October 24, 1986. 1 FCC Rcd 381 (1986); 51 FR 45945, December 23, 1986.

[52 FR 11656, Apr. 10, 1987]

§ 73.4110 Format changes of stations.

See Memorandum Opinion and Order, Docket 20682, FCC 76–744, adopted July 28, 1976. 60 FCC 2d 858; 41 FR 37153, September 2, 1976.

[44 FR 36388, June 22, 1979]

§ 73.4135 Interference to TV reception by FM stations.

See Public Notice, FCC 67–1012, dated August 30, 1967, 74 FCC 2d 619.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[44 FR 36388, June 22, 1979, as amended at 45 FR 28142, Apr. 28, 1980; 49 FR 45154, Nov. 15, 1984; 50 FR 5073, Feb. 6, 1985; 51 FR 26251, July 22, 1986]

§ 73.4140 Minority ownership; tax certificates and distress sales.

(a) See Public Notice, FCC 78–322, dated May 25, 1978. 68 FCC 2d 979; 43 FR 25188, June 9, 1978.

(b) See Public Notice, FCC 78–725, dated October 11, 1978. 43 FR 47612, October 16, 1978.

(c) See Policy Statement, General Docket 82–797, FCC 82–523, adopted December 2, 1982. 92 FCC 2d 849; 48 FR 5943, February 9, 1983.

(d) See Report and Order, General Docket 82–797, FCC 84–647, adopted December 21, 1984. 99 FCC 2d 1249; 50 FR 1239, January 10, 1985.

[44 FR 36388, June 22, 1979, as amended at 49 FR 38132, Sept. 27, 1984; 49 FR 50049, Dec. 26, 1984; 50 FR 47055, Nov. 14, 1985; 52 FR 11656, Apr. 10, 1987]

§ 73.4154 Network/AM, FM station affiliation agreements.

See Report, Statement of Policy, and Order, Docket 20721, FCC 77–206, adopted March 10, 1977. 63 FCC 2d 674.

[47 FR 28388, June 30, 1982]

§ 73.4157 Network signals which adversely affect affiliate broadcast service.

See Public Notice, FCC 79–387, dated April 20, 1970. 22 F.C.C. 2d 779.

[45 FR 6403, Jan. 28, 1980]

§ 73.4163 Noncommercial nature of educational broadcast stations.

(a) See Second Report and Order, BC Docket 21136, FCC 81–204, adopted April 23, 1981. 86 FCC 2d 141; 46 FR 27944, May 22, 1981.

(b) See Order, BC Docket 21136, FCC 82–327 adopted July 15, 1982. 90 FCC 2d 895; 47 FR 36171, August 19, 1982.

(c) See Memorandum Opinion and Order, BC Docket 21136, FCC 84–105, adopted March 28, 1984. 97 FCC 2d 255; 49 FR 13534, April 5, 1984.

(d) See, Public Notice, FCC 86–161, dated April 11, 1986. 51 FR 21800, June 16, 1986. Excerpt reprinted at 7 FCC Rcd 827.

(e) See Memorandum Opinion and Order, FCC 90–111, adopted March 28, 1990. 5 FCC Rcd 4920.

[47 FR 54448, Dec. 3, 1982, as amended at 51 FR 26251, July 22, 1986; 59 FR 52087, Oct. 14, 1994]

§ 73.4165 Obscene language.

(a) See *FCC* v. *Pacifica Foundation,* 438 U.S. 726, 57 L.Ed 2d 1073, 46 U.S.L.W. 5018 (1978). See also *Action for Children's Television* v. *FCC,* 852 F.2d 1332 (D.C. Cir. 1988).

(b) See *Action for Children's Television* v. FCC, [ACT III] 11 F.3d 170 (D.C. Cir. 1993). See also, *Action for Children's Television v. FCC,* [ACT IV] 15 F.3d 186 (D.C. Cir. 1994), rehearing granted, en banc.

(c) See Report and Order, GC Docket 92–223, FCC 93–42, adopted January 19, 1993. 8 FCC Rcd 704; 58 FR 5937, January 25, 1993.

(d) See Memorandum Opinion and Order, FCC 93–246, adopted May 11, 1993, 8 FCC Rcd 3600.

(e) See Letter to Rusk Corporation, dated May 6, 1993, FCC 93–229, 8 FCC Rcd 3228.

(f) See Memorandum Opinion and Order, FCC 93–4, adopted January 5, 1993. 8 FCC Rcd 498

(g) See *Branton* v. *FCC,* 993 F.2d 906 (D.C. Cir. 1993).

(h) See Memorandum Opinion and Order, DA 91–557, adopted April 30, 1991. 6 FCC Rcd 2560.

[59 FR 52087, Oct. 14, 1994]

§ 73.4170 Obscene broadcasts.

(a) See *Miller* v. *California,* 413 U.S.C. 15 (1973). See also *Pope* v. *Illinois,* 107 S.Ct. 1918 (1987). 18 U.S.C. 1464.

(b) See Memorandum Opinion and Order, MM Docket 83–575, FCC 88–4, adopted January 12, 1988. 3 FCC Rcd 757. See also Memorandum Opinion and Order, MM Docket 83–575, FCC 93–180, adopted April 2, 1993. 8 FCC Rcd 2753.

(c) See Memorandum Opinion and Order, FCC 87–365, adopted November 24, 1987. 3 FCC Rcd 930.

(d) See ''Memorandum of Understanding between the Federal Communications Commission and the Department of Justice concerning Complaints and

Cases Involving Obscenity and Indecency,'' released April 9, 1991. See also News Release dated April 19, 1991.

[59 FR 52087, Oct. 14, 1994]

§ 73.4180 Payment disclosure: Payola, plugola, kickbacks.

(a) See 47 U.S.C. 507.

(b) See Public Notice, FCC 70–593, dated June 4, 1970. 23 FCC 2d 588; 35 FR 9045, June 11, 1970.

(c) See Public Notice, FCC 88–175, dated May 18, 1988.

[44 FR 36389, June 22, 1979, as amended at 49 FR 20504, May 15, 1984; 59 FR 52087, Oct. 14, 1994]

§ 73.4185 Political broadcasting and telecasting, the law of.

(a) See ''The Law of Political Broadcasting and Cablecasting: Political Primer 1984,'' 100 FCC 2d 1476 (1984).

(b) See Report and Order, MM Docket 91–168, FCC 91–403, adopted December 12, 1991. 7 FCC Rcd 678; 57 FR 189, January 3, 1992; Memorandum Opinion and Order, MM Docket 91–168, FCC 92–210, adopted May 14, 1992. 7 FCC Rcd 4611; 57 FR 27705, June 22, 1992.

[59 FR 52087, Oct. 14, 1994]

§ 73.4190 Political candidate authorization notice and sponsorship identification.

(a) See Joint Public Notice by the Federal Communications Commission and the Federal Election Commission, FCC 78–419, dated June 19, 1978. 69 FCC 2d 1129; 43 FR 30126, July 13, 1978.

(b) See Memorandum Opinion and Order, FCC 92–55, adopted February 12, 1992. 7 FCC Rcd 1616.

[44 FR 36389, June 22, 1979, as amended at 59 FR 52087, Oct. 14, 1994]

§ 73.4195 Political advertising by UHF translators.

See Public Notice, FCC 76936, dated October 8, 1976. 62 FCC 2d 896; 41 FR 45043, October 14, 1976.

[44 FR 36389, June 22, 1979]

§ 73.4210 Procedure Manual: "The Public and Broadcasting".

See FCC 74–942, dated September 5, 1974. 49 FCC 2d 1; 39 FR 32288, dated September 5, 1974.

[44 FR 36389, June 22, 1979]

§ 73.4215 Program matter: Supplier identification.

See Public Notice, FCC 73–595, dated June 1, 1973. 41 FCC 2d 333; 38 FR 14979, June 7, 1973.

[44 FR 36389, June 22, 1979]

§ 73.4235 Short spacing agreements: FM stations.

See Public Notice, FCC 75–1367, dated December 15, 1975. 57 FCC 2d 1263; 40 FR 58893, December 19, 1975.

[44 FR 36389, June 22, 1979]

EFFECTIVE DATE NOTE: At 62 FR 50552, Sept. 26, 1997, § 73.4235 was removed, effective Nov. 25, 1997.

§ 73.4242 Sponsorship identification rules, applicability of.

See Public Notice dated September 3, 1975, 40 FR 41936, September 9, 1975.

[47 FR 28388, June 30, 1982]

§ 73.4246 Stereophonic pilot subcarrier use during monophonic programming.

See Report and Order, Docket 19571, FCC 73–680, adopted June 21, 1973. 41 FCC 2d 534; 38 FR 17021, June 28, 1973.

[47 FR 3792, Jan. 27, 1982]

§ 73.4247 STV: Competing applications.

See Second Report and Order, Docket 21502, FCC 81–13, adopted January 8, 1981. 85 FCC 2d 631; 46 FR 19937, April 2, 1981.

[47 FR 3792, Jan. 27, 1982]

§ 73.4250 Subliminal perception.

(a) See Public Notice, FCC 74–78, dated January 24, 1974. 44 FCC 2d, 1016; 39 FR 3714, January 29, 1974.

(b) See FCC Information Bulletin, ''Subliminal Projection'', dated November 1977.

[44 FR 36389, June 22, 1979]

§ 73.4255 Tax certificates: Issuance of.

(a) See Public Notice, FCC 76–337, dated April 21, 1976. 59 FCC 2d, 91; 41 FR 17605, April 27, 1976.

(b) See Report and Order MM Docket 87–267, FCC 91–303 adopted, September 26, 1991. 6 FCC Rcd 6273; 56 FR 64842, December 12, 1991.

[56 FR 64874, Dec. 12, 1991, as amended at 59 FR 52087, Oct. 14, 1994]

§ 73.4260 Teaser announcements.

See Public Notice, FCC 62–592, dated June 1, 1962. 27 FR 5274, June 5, 1962.

[44 FR 36389, June 22, 1979]

§ 73.4265 Telephone conversation broadcasts (network and like sources).

See Memorandum Opinion and Order, FCC 75–1406, adopted December 18, 1975. 57 FCC 2d, 334; 41 FR 816, January 5, 1976.

[44 FR 36389, June 22, 1979]

§ 73.4266 Tender offer and proxy statements.

See *Policy Statement*, MM Docket 85–218, FCC 86–67, adopted January 30, 1986. 51 FR 9794, March 21, 1986.

[51 FR 26251, July 22, 1986]

§ 73.4267 Time brokerage.

(a) See Policy Statement, Docket 78–355, FCC 80–621, adopted October 21, 1980. 82 FCC 2d 107.

(b) See Report and Order, MM Docket 91–140, FCC 92–97, adopted March 12, 1992. 7 FCC Rcd 2755; 57 FR 18089, April 29, 1992.

(c) See Memorandum Opinion and Order and Further Notice of Proposed Rule Making, MM Docket 91–140, FCC 92–361, adopted August 5, 1992. 7 FCC Rcd 6387; 57 FR 42701, September 16, 1992.

[47 FR 3792, Jan. 27, 1982, as amended at 59 FR 52087, Oct. 14, 1994]

§ 73.4275 Tone clusters; audio attention-getting devices.

See Public Notice, FCC 76–610, dated July 2, 1976. 60 FCC 2d 920; 41 FR 28582, July 12, 1976.

[44 FR 36389, June 22, 1979]

§ 73.4280 Character evaluation of broadcast applicants.

(a) See Report and Order and Policy Statement, Gen. Docket 81–500, BC Docket 78–108, FCC 85–648, adopted December 10, 1985. 102 FCC 2d 1179; 51 FR 3049, January 23, 1986.

(b) See Policy Statement and Order, FCC 90–195, adopted May 10, 1990. 5 FCC Rcd 3252, 55 FR 23082, June 6, 1990.

(c) See Memorandum Opinion and Order, FCC 91–146, adopted May 1, 1991. 6 FCC Rcd 3448, 56 FR 25633, June 5, 1991.

(d) See Memorandum Opinion and Order, FCC 92–448, adopted September 18, 1992. 7 FCC Rcd 6564, 57 FR 47410, October 16, 1992.

[59 FR 52087, Oct. 14, 1994]

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[50 FR 38530, Sept. 23, 1985; 50 FR 40395, Oct. 3, 1985, as amended at 51 FR 34621, 34622, Sept. 30, 1986; 52 FR 37316, Oct. 6, 1987; 52 FR 47569, Dec. 15, 1987; 53 FR 2499, Jan. 28, 1988; 58 FR 51250, Oct. 1, 1993; 59 FR 67103, Dec. 28, 1994]

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ALPHABETICAL INDEX—PART 74

AUTHORITY: 47 U.S.C. 154, 303, 307, and 554.

Subpart—General; Rules Applicable to All Services in Part 74

§ 74.1 Scope.

(a) The rules in this subpart are applicable to the Experimental, Auxiliary and Special Broadcast, and Other Program Distributional Services.

(b) Rules in part 74 which apply exclusively to a particular service are contained in that service subpart, as

follows: Experimental Broadcast Stations, subpart A; Remote Pickup Broadcast Stations, subpart D; Aural Broadcast STL and Intercity Relay Stations, subpart E; TV Auxiliary Broadcast Stations, subpart F; Low Power TV, TV Translator and TV Booster Stations, subpart G; Low Power Auxiliary Stations, subpart H; Instructional TV Fixed Service, subpart I; FM Broadcast Translator Stations and FM Broadcast Booster Stations, subpart L.

(Secs. 4, 303, 48 Stat., as amended, 1066, 1032; 47 U.S.C. 158, 303)

[47 FR 53022, Nov. 24, 1982, and 49 FR 32583, Aug. 15, 1984, as amended at 52 FR 31402, Aug. 20, 1987]

§ 74.2 General definitions.

Broadcast network-entity. A broadcast network-entity is an organization which produces programs available for simultaneous transmission by 10 or more affiliated broadcast stations and having distribution facilities or circuits available to such affiliated stations at least 12 hours each day.

Cable network-entity. A cable network-entity is an organization which produces programs available for simultaneous transmission by cable systems serving a combined total of at least 5,000,000 subscribers and having distribution facilities or circuits available to such affiliated stations or cable systems.

[51 FR 4601, Feb. 6, 1986]

§ 74.3 FCC inspections of stations.

(a) The licensee of a station authorized under this part must make the station available for inspection by representatives of the FCC during the station's business hours, or at any time it is in operation.

(b) In the course of an inspection or investigation, an FCC representative may require special equipment tests or program tests.

(c) The logs and records required by this part for the particular class or type of station must be made available upon request to representatives of the FCC.

[47 FR 53022, Nov. 24, 1982]

§ 74.5 Cross reference to rules in other parts.

Certain rules applicable to Experimental, Auxiliary, Special Broadcast and other Program Distribution services, some of which are also applicable to other services, are set forth in the following Parts of the FCC Rules and Regulations:

(a) Part 1, ''Practice and procedure''.

(1) Subpart A, ''General Rules of Practice and Procedure''. (§§ 1.1 to 1.120).

(2) Subpart B, ''Hearing Proceedings''. (§§ 1.120 to 1.364).

(3) Subpart C, ''Rulemaking Proceedings''. (§§ 1.399 to 1.430).

(4) Subpart G, ''Schedule of Statutory Charges and Procedures for Payment''. (§§ 1.1101 to 1.1120).

(5) Subpart H, ''Ex Parte Presentations''. (§§ 1.1200 to 1.1216).

(6) Subpart I, ''Procedures Implementing the National Environmental Policy Act of 1969''. (§§ 1.1301 to 1.1319).

(b) Part 2, ''Frequency Allocations and Radio Treaty Matters, General Rules and Regulations'', including subparts A, ''Terminology''; B, ''Allocation, Assignments and Use of Radio Frequencies''; C, ''Emissions''; D, ''Call Signs and Other Forms of Identifying Radio Transmissions''; and J, ''Equipment Authorization Proceedings''.

(c) [Reserved]

(d) Part 17, ''Construction, Marking and Lighting of Antenna Structures''.

(e) Part 73, ''Radio Broadcast Services''.

[53 FR 2499, Jan. 28, 1988, as amended at 60 FR 55482, Nov. 1, 1995]

§ 74.12 Notification of filing of applications.

The provisions of § 73.1030 ''Notification concerning interference to Radio Astronomy, Research, and Receiving Installations'' apply to all stations authorized under this part of the FCC Rules except the following:

(a) Mobile remote pickup stations (subpart D).

(b) TV pickup stations (subpart F).

(c) Low power auxiliary stations (subpart H).

[44 FR 58735, Oct. 11, 1979, as amended at 44 FR 77167, Dec. 31, 1979; 47 FR 28388, June 30, 1982]

§74.13 Equipment tests.

(a) During the process of construction of any class of radio station listed in this part, the permittee, without further authority of the Commission, may conduct equipment tests for the purpose of such adjustments and measurements as may be necessary to assure compliance with the terms of the construction permit, the technical provisions of the application therefor, the technical requirements of this chapter, and the applicable engineering standards.

(b) Equipment tests may be continued so long as the construction permit shall remain valid.

(c) The authorization for tests embodied in this section shall not be construed as constituting a license to operate.

[38 FR 18378, July 10, 1973]

§74.14 Service or program tests.

(a) Upon completion of construction of a radio station in accordance with the terms of the construction permit, the technical provisions of the application therefor, technical requirements of this chapter, and applicable engineering standards, and when an application for station license has been filed showing the station to be in satisfactory operating condition, the permittee or any class of station listed in this part may, without further authority of the Commission, conduct service or program tests.

(b) Program test authority for stations authorized under this part will continue valid during Commission consideration of the application for license and during this period further extension of the construction permit is not required. Program test authority shall be automatically terminated with final action on the application for station license.

(c) The authorization for tests embodied in this section shall not be construed as approval by the Commission of the application for station license.

[38 FR 18378, July 10, 1973]

§74.15 Station license period.

(a) Licenses for experimental broadcast stations will be issued for a one year period.

(b) Licenses for stations or systems in the Auxiliary Broadcast Service held by a licensee of a broadcast station will be issued for a period running concurrently with the license of the associated broadcast station with which it is licensed. Licenses held by eligible networks for the purpose of providing program service to affiliated stations under subpart D of this part, and by eligible networks, cable television operators, motion picture producers and television program producers under subpart H of this part will be issued for a period running concurrently with the normal licensing period for broadcast stations located in the same area of operation.

(c) The license of an FM broadcast booster station or a TV broadcast booster station will be issued for a period running concurrently with the license of the FM radio broadcast station or TV broadcast station (primary station) with which it is used.

(d) Initial licenses for low power TV, TV translator, and FM translator stations will ordinarily be issued for a period running until the date specified in §73.1020 of this chapter for full service stations operating in their State or Territory, or if issued after such date, to the next renewal date determined in accordance with §73.1020 of this chapter. Lower power TV and TV translator station and FM translator station licenses will ordinarily be renewed for 8 years. However, if the FCC finds that the public interest, convenience or necessity will be served, it may issue either an initial license or a renewal thereof for a lesser term. The FCC may also issue a license renewal for a shorter term if requested by the applicant. The time of expiration of all licenses will be 3 a.m. local time, on the following dates, and thereafter to the schedule for full service stations in their states as reflected in §73.1020 of this chapter:

(1) Nevada:

(i) FM translators, February 1, 1997.

(ii) LPTV and TV translator, February 1, 1998.

(2) California:

(i) FM translators, April 1, 1997.

(ii) LPTV and TV translators, April 1, 1998

(3) Maine, Vermont, New Hampshire, Massachusetts, Connecticut, Rhodes Island, New York, New Jersey, Pennsylvania, Maryland, Delaware, West Virginia, Ohio and the District of Colbumia:

(i) FM translators, June 1, 1997

(ii) LPTV and TV translators, June 1, 1998

(4) Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Louisiana, Arkansas, Missouri, Kentucky, Tennessee, Indiana, Illinois, Michigan, Wisconsin, Pureto Rico and the Virgin Islands:

(i) FM translators, August 1, 1997

(ii) LPTV and TV translators, August 1, 1998

(5) Oklahoma and Texas:

(i) FM translators, October 1, 1997

(ii) LPTV and TV translators, October 1, 1998

(6) Kansas and Nebraska:

(i) FM translators, December 1, 1997

(ii) LPTV and TV translators, December 1, 1998

(7) Iowa and South Dakota:

(i) FM translators, February 1, 1998

(ii) LPTV and TV translators, February 1, 1999

(8) Minnesota and North Dakota:

(i) FM translators, April 1, 1998

(ii) LPTV and TV translators, April 1, 1999

(9) Wyoming:

(i) FM translators, June 1, 1998

(ii) LPTV and TV translators, June 1, 1999

(10) Montana:

(i) FM translators, August 1, 1998

(ii) LPTV and TV translators, August 1, 1999

(11) Idaho:

(i) FM translators, October 1, 1995

(ii) LPTV and TV translators, October 1, 1996

(12) Washington:

(i) FM translators, December 1, 1995

(ii) LPTV and TV translators, December 1, 1996

(13) Oregon:

(i) FM translators, February 1, 1996

(ii) LPTV and TV translators, February 1, 1997

(14) Alaska, American Samoa, Guam, Mariana Islands and Hawaii:

(i) FM translators, April 1, 1996

(ii) LPTV and TV translators, April 1, 1997

(15) Colorado:

(i) FM translators, June 1, 1996

(ii) LPTV and TV translators, June 1, 1997

(16) New Mexico:

(i) FM translators, August 1, 1996

(ii) LPTV and TV translators, August 1, 1997

(17) Utah:

(i) FM translators, October 1, 1996

(ii) LPTV and TV translators, October 1, 1997

(18) Arizona:

(i) FM translators, December 1, 1996

(ii) LPTV and TV translators, December 1, 1997

(e) Licenses for instructional television fixed stations will be issued for a period of 10 years beginning with the date of grant. An application for renewal of license (FCC Form 330–R) shall be filed not later than the first day of the fourth full calendar month prior to the expiration date of the license sought to be renewed. If the prescribed deadline falls on a nonbusiness day, the cutoff shall be the close of business of the first full business day thereafter.

(f) Licenses held by broadcast network-entities under Subpart F will ordinarily be issued for a period of 8 years running concurrently with the normal licensing period for broadcast stations located in the same area of operation. An application for renewal of license (FCC Form 313–R) shall be filed not later than the first day of the fourth full calendar month prior to the expiration date of the license sought to be renewed. If the prescribed deadline falls on a nonbusiness day, the cutoff shall be the close of business of the first full business day thereafter.

(g) The license of an experimental broadcast station, FM translator or FM broadcast booster, TV translator or TV broadcast booster, or low power TV station will expire as a matter of law upon failure to transmit broadcast signals for any consecutive 12-month period notwithstanding any provision, term, or condition of the license to the contrary. Further, if the license of any AM, FM, or TV broadcasting station licensed under part 73 of this chapter expires for failure to transmit signals for any consecutive 12-month period, the licensee's authorizations under part 74,

subparts D, E, F, and H in connection with the operation of that AM, FM, or TV broadcasting station will also expire notwithstanding any provision, term, or condition to the contrary.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[28 FR 13706, Dec. 14, 1963, as amended at 49 FR 32583, Aug. 15, 1984; 50 FR 26758, June 28, 1985; 52 FR 7142, Mar. 9, 1987; 52 FR 25604, July 8, 1987; 52 FR 31402, Aug. 20, 1987; 59 FR 63052, Dec. 7, 1994; 61 FR 28767, June 6, 1996; 62 FR 5347, Feb. 5, 1997]

§74.16 Temporary extension of station licenses.

Where there is pending before the Commission any application, investigation, or proceeding which, after hearing, might lead to or make necessary the modification of, revocation of, or the refusal to renew an existing auxiliary or experimental broadcast station license or a television broadcast translator station license, the Commission in its discretion, may grant a temorary extension of such license: *Provided, however,* That no such temporary extension shall be construed as a finding by the Commission that the operation of any radio station thereunder will serve public interest, convenience, and necessity beyond the express terms of such temporary extension of license: *And provided further,* That such temporary extension of license will in no wise affect or limit the action of the Commission with respect to any pending application or proceeding.

[28 FR 13706, Dec. 14, 1963, as amended at 37 FR 25843, Dec. 5, 1972]

§74.18 Transmitter control and operation.

Except where unattended operation is specifically permitted, the licensee of each station authorized under the provisions of this part shall designate a person or persons to activate and control its transmitter. At the discretion of the station licensee, persons so designated may be employed for other duties and for operation of other transmitting stations if such other duties will not interfere with the proper operation of the station transmission systems.

[60 FR 55482, Nov. 1, 1995]

§74.19 Special technical records.

The FCC may require a broadcast auxiliary station licensee to keep operating and maintenance records necessary to resolve conditions of actual or potential interference, rule violations, or deficient technical operation.

[48 FR 38482, Aug. 24, 1983]

§74.21 Broadcasting emergency information.

(a) In an emergency where normal communication facilities have been disrupted or destroyed by storms, floods or other disasters, the stations licensed under this part may be operated for the purpose of transmitting essential communications intended to alleviate distress, dispatch aid, assist in rescue operations, maintain order, or otherwise promote the safety of life and property. In the course of such operation, a station of any class may communicate with stations of other classes and in other services. However, such operation shall be conducted only on the frequency or frequencies for which the station is licensed and the used power shall not exceed the maximum authorized in the station license. When such operation involves the use of frequencies shared with other stations, licensees are expected to cooperate fully to avoid unnecessary or disruptive interference.

(b) Whenever such operation involves communications of a nature other than those for which the station is licensed to perform, the licensee shall, at the earliest practicable time, notify the FCC in Washington, DC of the nature of the emergency and the use to which the station is being put and shall subsequently notify the same offices when the emergency operation has been terminated.

(c) Emergency operation undertaken pursuant to the provisions of this section shall be discontinued as soon as substantially normal communications facilities have been restored. The Commission may at any time order discontinuance of such operation.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[28 FR 13706, Dec. 14, 1963, as amended at 37 FR 25843, Dec. 5, 1972; 44 FR 65765, Nov. 15, 1979; 47 FR 40175, Sept. 13, 1982]

§ 74.22 Use of common antenna structure.

The simultaneous use of a common antenna structure by more than one station authorized under this part, or by one or more stations of any other service may be authorized. The owner of each antenna structure is responsible for ensuring that the structure, if required, is painted and/or illuminated in accordance with part 17 of this chapter. In the event of default by the owner, each licensee or permittee shall be responsible for ensuring that the structure complies with applicable painting and lighting requirements.

[61 FR 4368, Feb. 6, 1996]

§ 74.23 Interference jeopardizing safety of life or protection of property.

(a) The licensee of any station authorized under this part that causes harmful interference, as defined in § 2.1 of the Commission's rules, to radio communications involving the safety of life or protection of property shall promptly eliminate the interference.

(b) If harmful interference to radio communications involving the safety of life or protection of property cannot be promptly eliminated and the Commission finds that there exists an imminent danger to safety of life or protection of property, pursuant to 47 U.S.C. 312 (b) and (e) and 5 U.S.C. 558, operation of the offending equipment shall temporarily be suspended and shall not be resumed until the harmful interference has been eliminated or the threat to the safety of life or property has passed. In situations where the protection of property alone is jeopardized, before taking any action under this paragraph, the Commission shall balance the nature and extent of the possible property damage against the potential harm to a licensee or the public caused by suspending part 74 operations. When specifically authorized, short test operations may be made during the period of suspended operation to check the efficacy of remedial measures.

[47 FR 1395, Jan. 13, 1982]

§ 74.24 Short-term operation.

The classes of broadcast auxiliary stations provided for in subparts D, E, F and H of this part may be operated on a short-term basis under the authority conveyed by a part 73 license without prior authorization from the FCC, subject to the following conditions:

(a) The part 73 licensee of this chapter must be eligible to operate the particular class of broadcast auxiliary station.

(b) The short-term broadcast auxiliary station shall be operated in conformance with all normally applicable regulations to the extent they are not superceded by specific provisions of this section.

(c) Short-term operation is on a secondary, non-interference basis to regularly authorized stations and shall be discontinued immediately upon notification that perceptible interference is being caused to the operation of a regularly authorized station. Short-term station operators shall, to the extent practicable, use only the effective radiated power and antenna height necessary for satisfactory system performance.

(d) Short-term operation by a part 73 licensee shall not exceed 720 hours annually per frequency.

NOTE: Certain frequencies shared with other services which are normally available for permanent broadcast auxiliary station assignment may not be available for short-term operation. Refer to any note(s) which may be applicable to the use of a specific frequency prior to initiating operation.

(e) The antenna height of a station operated pursuant to this section shall not increase the height of any man-made antenna supporting structure, or increase by more than 6.1 meters (20 feet) the height of any other type of man-made structure or natural formation. However, the facilities of an authorized broadcast auxiliary station belonging to another licensee may be operated in accordance with the terms of its outstanding authorization.

(f) Stations operated pursuant to this section shall be identified by the transmission of the call sign of the associated broadcast station.

(g) The part 73 licensee of this chapter, prior to operating pursuant to the provisions of this section shall, for the intended location or area-of-operation,

notify the appropriate frequency coordination committee or any licensee(s) assigned the use of the proposed operating frequency, concerning the particulars of the intended operation and shall provide the name and telephone number of a person who may be contacted in the event of interference. Information on active frequency coordination committees may be obtained by contacting the FCC's Auxiliary Services Branch at (202) 634–6307 between 8:00 a.m. and 4:30 p.m. Eastern Time. Except as provided below, this notification provision shall not apply where an unanticipated need for immediate short-term mobile station operation would render compliance with the provisions of this paragraph impractical.

(1) A CARS licensee shall always be given advance notification prior to the commencement of short-term operation on or adjacent to an assigned frequency.

(h) Short-term operation is limited to areas south or west of the United States-Canada border as follows:

(1) Use of broadcast auxiliary service frequencies below 470 MHz is limited to areas of the United States south of Line A or west of Line C unless the effective radiated power of the station is 5 watts or less.

NOTE: Line A is a line above which frequency assignments made by the Federal Communications Commission are coordinated with the Canadian Department of Communications and which begins at Aberdeen, Washington, running by great circle arc to the intersection of 48° N., 120° W., then along parallel 48° N., to the intersection of 95° W., then by great circle arc through the southernmost point of Duluth, Minnesota, then by great circle arc to 45° N., 85° W., then southward along meridian 85° W., to its intersection with parallel 41° N., then along parallel 41° N., to its intersection with meridian 82° W., then by great circle arc through the southernmost point of Bangor, Maine, then by great circle arc through the southernmost point of Searsport, Maine, at which point it terminates. Line C is a line east of which frequency assignments are similarly coordinated and which begins at the intersection of 70° N., 144° W., then by great circle arc to the intersection of 60° N., 143° W., then by great circle arc so as to include all of the Alaskan Panhandle.

(2) A broadcast auxiliary service station operating on frequencies between 470 MHz and 1 GHz must be at least 56.3 kilometers (35 miles) south (or west, as appropriate of the United States-Canada border if the antenna looks within a 200° sector toward the border; or, the station must be at least 8.1 kilometers (5 miles) south (or west, as appropriate) if the antenna looks within a 160° sector away from the border. However, operation is not permitted in either of these two situations if the station would be within the coordination distance of a receiving earth station in Canada which uses the same frequency band. (The coordination distance is the distance, calculated for any station, according to Appendix 28 of the International Radio Regulations.)

(3) A broadcast auxiliary service station operating on frequencies above 1 GHz shall not be located within the coordination distance of a receiving earth station in Canada which uses the same frequency band. (The coordination distance is the distance, calculated for any station, according to Appendix 28 of the international Radio Regulations.)

(i) Short-term operation of a remote pickup broadcast base station, a remote pickup automatic relay station, an aural broadcast STL station, an aural broadcast intercity relay station, a TV STL station, a TV intercity relay station or a TV translator relay station in the National Radio Quiet Zone, the Table Mountain Radio Receiving Zone, or near FCC monitoring stations is subject to the same advance notification procedures applicable to regular applications as provided for in §§ 73.1030 and 74.12, except that inasmuch as short-term operation does not involve an application process, the provisions relating to agency objection procedures shall not apply. It shall simply be necessary for the part 73 licensee of this chapter to contact the potentially affected agency and obtain advance approval for the proposed short-term operation. Where protection to FCC monitoring stations is concerned, approval for short-term operation may be given by the local Engineer-in-Charge.

(Secs. 4, 303, 48 Stat., as amended, 1066, 1032; 47 U.S.C. 158, 303)

[47 FR 9219, Mar. 4, 1982, as amended at 49 FR 34356, Aug. 30, 1984; 50 FR 23709, June 5, 1985]

§ 74.28 Additional orders.

In case the rules contained in this part do not cover all phases of operation or experimentation with respect to external effects, the FCC may make supplemental or additional orders in each case as may be deemed necessary.

[47 FR 53022, Nov. 24, 1982]

§ 74.30 Antenna structure, marking and lighting.

The provisions of part 17 of the FCC rules (Construction, Marking, and Lighting of Antenna Structures) require certain antenna structures to be painted and/or lighted in accordance with the provisions of §§ 17.47 through 17.56 of the FCC rules.

[47 FR 53022, Nov. 24, 1982]

Subpart A—Experimental Broadcast Stations

§ 74.101 Experimental broadcast station.

The term *experimental broadcast station* means a station licensed for experimental or developmental transmission of radio telephony, television, facsimile, or other types of telecommunication services intended for reception and use by the general public.

(Secs. 4, 303, 48 Stat., as amended, 1066, 1032; 47 U.S.C. 158, 303)

[49 FR 32583, Aug. 15, 1984]

§ 74.102 Uses of experimental broadcast stations.

A license for an experimental broadcast station will be issued for the purposes of carrying on research and experimentation for the development and advancement of new broadcast technology, equipment, systems or services which are more extensive or require other modes of transmission than can be accomplished by using a licensed broadcast station under an experimental authorization (see § 73.1510).

(Secs. 4, 303, 48 Stat., as amended, 1066, 1032; 47 U.S.C. 158, 303)

[49 FR 32583, Aug. 15, 1984]

§ 74.103 Frequency assignment.

(a) Frequencies allocated to broadcasting and the various categories of auxiliary stations, in the FCC's Table of Frequency Allocations (Part 2 of this chapter), may be assigned respectively to experimental broadcast and experimental auxiliary stations.

(b) More than one frequency may be assigned upon a satisfactory showing of the need therefor.

(c) Frequencies best suited to the purpose of the experimentation and on which there appears to be the least likelihood of interference to established stations shall be selected.

(d) In a case of important experimentation which cannot be feasibly conducted on frequencies allocated to broadcasting or the various categories of auxiliary stations, the FCC may authorize an experimental station of any class to operate on other frequencies upon a satisfactory showing of the need therefore and a showing that the proposed operation can be conducted without causing harmful interference to established services. However, experimental operation which looks toward the development of radio transmitting apparatus or the rendition of any type of regular service using such frequencies will not be authorized prior to a determination by the FCC that the development of such apparatus or the rendition of such service would serve the public interest.

(Secs. 4, 303, 48 Stat., as amended, 1066, 1032; 47 U.S.C. 158, 303)

[28 FR 13706, Dec. 14, 1963, as amended at 49 FR 32583, Aug. 15, 1984]

§ 74.112 Supplementary statement with application for construction permit.

A supplementary statement shall be filed with, and made a part of, each application for construction permit for any experimental broadcast station confirming the applicant's understanding:

(a) That all operation upon the frequency requested is for experimental purposes only.

(b) That the frequency requested may not be the best suited to the particular experimental work to be carried on.

(c) That the frequency requested need not be allocated for any service that may be developed as a result of the experimental operation.

(d) That any frequency which may be assigned is subject to change without advance notice or hearing.

(e) That any authorization issued pursuant to the application may be cancelled at any time without notice or hearing, and will expire as a matter of law if the station fails to transmit broadcast signals for any consecutive 12-month period, notwithstanding any provision, term, or condition of the license to the contrary.

(f) That if approval of the experimental broadcast station may have a significant environmental impact, see § 1.1307 of this chapter, submission of an environmental assessment, under § 1.1311 of this chapter, and compliance with the Commission's environmental rules contained in part 1 of this chapter is required.

(Sec. 319, 48 Stat. 1089, as amended; 47 U.S.C. 319; secs. 4, 303, 48 Stat., as amended, 1066, 1032; 47 U.S.C. 158, 303)

[28 FR 13706, Dec. 14, 1963, as amended at 49 FR 32583, Aug. 15, 1984; 55 FR 20398, May 16, 1990; 61 FR 28767, June 6, 1996]

§ 74.113 Supplementary reports with application for renewal of license.

(a) A report shall be filed with each application for renewal of experimental broadcast station license which shall include a statement of each of the following:

(1) Number of hours operated.

(2) Full data on research and experimentation conducted including the types of transmitting and studio equipment used and their mode of operation.

(3) Data on expense of research and operation during the period covered.

(4) Power employed, field intensity measurements and visual and aural observations and the types of instruments and receivers utilized to determine the station service area and the efficiency of the respective types of transmissions.

(5) Estimated degree of public participation in reception and the results of observations as to the effectiveness of types of transmission.

(6) Conclusions, tentative and final.

(7) Program of further developments in broadcasting.

(8) All developments and major changes in equipment.

(9) Any other pertinent developments.

(b) Special or progress reports shall be submitted from time to time as the Commission shall direct.

(Sec. 308, 48 Stat. 1084, as amended; 47 U.S.C. 308; secs. 4, 303, 48 Stat., as amended, 1066, 1032; 47 U.S.C. 158, 303)

[28 FR 13706, Dec. 14, 1963, as amended at 49 FR 32583, Aug. 15, 1984]

§ 74.131 Licensing requirements, necessary showing.

(a) An applicant for a new experimental broadcast station, change in facilities of any existing station, or modification of license is required to make a satisfactory showing of compliance with the general requirements of the Communications Act of 1934, as amended, as well as the following:

(1) That the applicant has a definite program of research and experimentation in the technical phases of broadcasting which indicates reasonable promise of substantial contribution to the developments of the broadcasting art.

(2) That upon the authorization of the proposed station the applicant can and will proceed immediately with its program of research and experimentation.

(3) That the transmission of signals by radio is essential to the proposed program of research and experimentation.

(4) That the program of research and experimentation will be conducted by qualified personnel.

(b) A license of an experimental broadcast station will not authorize exclusive use of any frequency. In case interference would be caused by simultaneous operation of stations licensed experimentally, such licensees shall endeavor to arrange satisfactory time division. If such agreement cannot be reached, the FCC will determine and specify the time division.

(c) A license for an experimental broadcast station will be issued only on the condition that no objectionable interference to the regular program transmissions of broadcast stations will result from the transmissions of the experimental stations.

(Secs. 4, 303, 48 Stat., as amended, 1066, 1032; 47 U.S.C. 158, 303)

[28 FR 13706, Dec. 14, 1963, as amended at 49 FR 32583, Aug. 15, 1984]

§ 74.132 Power limitations.

The license for experimental broadcast stations will specify the maximum authorized power. The operating power shall not be greater than necessary to carry on the service and in no event more than 5 percent above the maximum power specified. Engineering standards have not been established for these stations. The efficiency factor for the last radio stage of transmitters employed will be subject to individual determination but shall be in general agreement with values normally employed for similar equipment operated within the frequency range authorized.

(Secs. 4, 303, 48 Stat., as amended, 1066, 1032; 47 U.S.C. 158, 303)

[49 FR 32583, Aug. 15, 1984]

§ 74.133 Emission authorized.

In case emission of a different type than that specified in the license is necessary or desirable in carrying on any phases of experimentation, application setting out fully the needs shall be made by informal application.

[28 FR 13706, Dec. 14, 1963]

§ 74.134 Multiple ownership.

No persons (including all persons under common control) shall control, directly or indirectly, two or more experimental broadcast stations unless a showing is made that the program of research requires a licensing of two or more separate stations.

[49 FR 32584, Aug. 15, 1984]

§ 74.151 Equipment changes.

The licensee of an experimental broadcast station may make any changes in the equipment that are deemed desirable or necessary provided:

(a) That the operating frequency is not permitted to deviate more than the allowed tolerance;

(b) That the emissions are not permitted outside the authorized band;

(c) That the power output complies with the license and the regulations governing the same; and

(d) That the transmitter as a whole or output power rating of the transmitter is not changed.

(Secs. 4, 303, 48 Stat., as amended, 1066, 1032; 47 U.S.C. 158, 303)

[28 FR 13706, Dec. 14, 1963, as amended at 49 FR 32584, Aug. 15, 1984]

TECHNICAL OPERATION AND OPERATORS

§ 74.161 Frequency tolerances.

The departure of the carrier frequency or frequencies of an experimental broadcast station must not exceed the tolerance specified in the instrument of authorization. For modes of transmission that do not have a resting or center carrier frequency, the occupied bandwidth of the station transmissions may not exceed that specified in the instrument of authorization.

(Secs. 4, 303, 48 Stat., as amended, 1066, 1032; 47 U.S.C. 158, 303)

[49 FR 32584, Aug. 15, 1984]

§ 74.162 Frequency monitors and measurements.

The licensee of an experimental broadcast station shall provide the necessary means for determining that the frequency of the station is within the allowed tolerance. The date and time of each frequency check, the frequency as measured, and a description or identification of the method employed shall be entered in the station log. Sufficient observations shall be made to insure that the assigned carrier frequency is maintained within the prescribed tolerance.

(Secs. 4, 303, 48 Stat., as amended, 1066, 1032; 47 U.S.C. 158, 303)

[49 FR 32584, Aug. 15, 1984]

§ 74.163 Time of operation.

(a) Unless specified or restricted hours of operation are shown in the station authorization, experimental broadcast stations may be operated at any time and are not required to adhere to a regular schedule of operation.

(b) The FCC may limit or restrict the periods of station operation in the

event interference is caused to other broadcast or nonbroadcast stations.

(c) The FCC may require that an experimental broadcast station conduct such experiments as are deemed desirable and reasonable for development of the type of service for which the station was authorized.

(Secs. 4, 303, 48 Stat., as amended, 1066, 1032; 47 U.S.C. 158, 303)

[49 FR 32584, Aug. 15, 1984]

§74.165 Posting of station license.

The instrument of authorization or a clearly legible photocopy thereof shall be available at the transmitter site.

[60 FR 55482, Nov. 1, 1995]

§74.181 Station records.

(a) The licensee of each experimental broadcast station must maintain adequate records of the operation, including:

(1) Information concerning the nature of the experimental operation and the periods in which it is being conducted.

(2) Information concerning any specific data requested by the FCC.

(b) Station records must be retained for a period of two years.

(Secs. 4, 303, 48 Stat., as amended, 1066, 1032; 47 U.S.C. 158, 303)

[49 FR 32584, Aug. 15, 1984]

§74.182 Program service and charges.

(a) The licensee of an experimental broadcast station may transmit program material only when necessary to the experiments being conducted, and no regular program service may be broadcast unless specifically authorized.

(b) The licensee of an experimental broadcast station may make no charges nor ask for any payment, directly or indirectly, for the production or transmission of any programming or information used for experimental broadcast purposes.

(Secs. 4, 303, 48 Stat., as amended, 1066, 1032; 47 U.S.C. 158, 303)

[49 FR 32584, Aug. 15, 1984]

§74.183 Station identification.

Each experimental broadcast station shall make aural or visual announcements of its call letters and location at the beginning and end of each period of operation, and at least once every hour during operation.

(Secs. 4, 303, 48 Stat., as amended, 1066, 1032; 47 U.S.C. 158, 303)

[49 FR 32584, Aug. 15, 1984]

§74.184 Rebroadcasts.

(a) The term *rebroadcast* means reception by radio of the programs or other transmissions of a broadcast station, and the simultaneous or subsequent retransmission of such programs or transmissions by a broadcast station.

(1) As used in this section, the word ''program'' includes any complete program or part thereof.

(2) The transmission of a program from its point of origin to a broadcast station entirely by common carrier facilities, whether by wire line or radio, is not considered a rebroadcast.

(3) The broadcasting of a program relayed by a remote broadcast pickup station is not considered a rebroadcast.

(b) No licensee of an experimental broadcast station may retransmit the program of another U.S. broadcast station without the express authority of the originating station. A copy of the written consent of the licensee originating the program must be kept by the licensee of the experimental broadcast station retransmitting such program and made available to the FCC upon request.

(Secs. 4, 303, 48 Stat., as amended, 1066, 1032; 47 U.S.C. 158, 303)

[49 FR 32584, Aug. 15, 1984]

Subparts B—C [Reserved]

Subpart D—Remote Pickup Broadcast Stations

§74.401 Definitions.

Associated broadcasting station(*s*). The broadcasting station or stations with which a remote pickup broadcast station or system is licensed as an auxiliary and with which it is principally used.

Authorized bandwidth. The occupied or necessary bandwidth, whichever is greater, authorized to be used by a station.

Automatic relay station. A remote pickup broadcast base station which is actuated by automatic means and is used to relay transmissions between remote pickup broadcast base and mobile stations, between remote pickup broadcast mobile stations and from remote pickup broadcast mobile stations to broadcasting stations. (Automatic operation is not operation by remote control.)

Carrier power. The average power at the output terminals of a transmitter (other than a transmitter having a suppressed, reduced or controlled carrier) during one radio frequency cycle under conditions of no modulation.

Mean power. The power at the output terminals of a transmitter during normal operation, averaged over a time sufficiently long compared with the period of the lowest frequency encountered in the modulation. A time of 1/10 second during which the mean power is greatest will be selected normally.

Necessary bandwidth. For a given class of emission, the minimum value of the occupied bandwidth sufficient to ensure the transmission of information at the rate and with the quality required for the system employed, under specified conditions. Emissions useful for the good functioning of the receiving equipment, as for example, the emission corresponding to the carrier of reduced carrier systems, shall be included in the necessary bandwidth.

Occupied bandwidth. The frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Operational communications. Communications concerning the technical and programming operation of a broadcast station and its auxiliaries.

Remote control operation. Operation of a base station by a properly designated person on duty at a control position from which the transmitter is not visible but that position is equipped with suitable controls so that essential functions can be performed therefrom.

Remote pickup broadcast base station. A remote pickup broadcast station authorized for operation at a specified location.

Remote pickup broadcast mobile station. A remote pickup broadcast station authorized for use while in motion or during halts at unspecified locations. (As used in this subpart, mobile stations include hand-carried, pack-carried and other portable transmitters.)

Remote pickup broadcast stations. A term used in this subpart to include both remote pickup broadcast base stations and remote pickup broadcast mobile stations.

Remote pickup mobile repeater unit. A vehicular receiver-transmitter repeater used to provide extended communications range for a low-power hand-carried or pack-carried transmitter.

Station. As used in this subpart, each remote pickup broadcast transmitter, and its associated accessory equipment necessary to the radio communication function, constitutes a separate station.

Studio. Any room or series of rooms equipped for the regular production of broadcast programs of various kinds. A broadcasting booth at a stadium, convention hall, church, or other similar place is not considered to be a studio.

Systems. A complete remote pickup broadcast facility consisting of one or more mobile stations and/or one or more base stations authorized pursuant to a single license.

[41 FR 29686, July 19, 1976, as amended at 42 FR 14728, Mar. 16, 1977; 47 FR 28388, June 30, 1982; 47 FR 54448, Dec. 3, 1982; 51 FR 4601, Feb. 6, 1986]

§ 74.402 Frequency assignment.

(a) The following frequencies may be assigned for use by remote broadcast pickup stations and broadcast network-entities. Frequencies between 450.025–450.975 and 455.025–455.975 MHz may also be assigned for use by cable network-entities.

(1) *Group A* (kHz): 1606,[1] 1622, 1646.

[1] Subject to the condition that no harmful interference is caused to the reception of standard broadcasting stations.

(2) *Group D* (MHz): 25.87,[2] 26.15, 26.25, 26.35.

Group E (MHz): 25.91,[2] 26.17, 26.27, 26.37.

Group F (MHz): 25.95;[2] 26.19; 26.29; 26.39.

Group G (MHz): 25.99;[2] 26.21; 26.31; 26.41.

Group H (MHz): 26.03;[2] 26.23; 26.33; 26.43.

(3) *Group I* (MHz): 26.07;[2] 26.11; 26.45.

Group J (MHz): 26.09;[2] 26.13; 26.47.

(4) *Group* $K^8{}_1$ (MHz): 152.87[3], 152.933, 152.993, 153.053, 153.113, 153.173, 153.233, 153.293, 153.353.

Group $K^8{}_2$ (MHz): 161.645; 161.675; 161.705; 161.735; 161.765.

(5) *Group L* (MHz): 166.25[4].

Group M (MHz): 170.15[4].

(6) *Group* N_1 (MHz): 450.050; 450.150; 450.250; 450.350; 450.450; 450.550; 455.050; 455.150; 455.250; 455.350; 455.450; 455.550.

Group N_2 (MHz): 450.0875; 450.1125; 450.1875; 450.2125; 450.2875; 450.3125; 450.3875; 450.4125; 450.4875; 450.5125; 450.5875; 450.6125; 455.0875; 455.1125; 455.1875; 455.2125; 455.2875; 455.3125; 455.3875; 455.4125; 455.4875; 455.5125; 455.5875; 455.6125.

(7) *Group P* (MHz): 450.01[6], 450.02[6]; 450.98[6]; 450.99[6]; 455.01[6]; 455.02[6]; 455.98[6]; 455.99[6].

(8) *Group R* (MHz): 450.650, 450.700, 450.750, 450.800, 450.850, 455.650, 455.700, 455.750, 455.800, 455.850.

Group S (MHz): 450.925, 455.925.

(b) The following frequencies are allocated for assignment to remote pickup broadcast stations in Puerto Rico and the Virgin Islands only:

160.89 MHz, 160.95 MHz, 160.01 MHz, 161.07 MHz, 161.13 MHz, 161.19 MHz, 161.25 MHz, 161.31 MHz, 161.37 MHz.

NOTE: These frequencies are shared with the Industrial/Business Pool.

(c) For licensing purposes, a single system will consist of transmitters authorized to use the following combinations of frequency groups in a single area:

(1) Group A.

(2) One group from Groups D, E, F, G, or H; and/or either I or J.

(3) Groups K_1 and K_2, and/or either L or M.

(4) Groups N_1 and R.

(5) Group N_2.

(6) Group P.

(7) Group S.

(d) License applicants shall request assignment of only those frequencies, both in number and channel bandwidth, necessary for satisfactory operation. A licensee may operate a remote pickup broadcast system only if the system is equipped to operate on all assigned frequencies. It is not necessary that each transmitter within a system be equipped to operate on all authorized system frequencies.

(e) Remote pickup broadcast stations or systems will not be granted exclusive frequency assignments. The same frequency or frequencies may be assigned to other licensees in the same

[2] Subject to the condition that no harmful interference is caused to stations in the broadcasting service.

[3] Subject to the condition that no harmful interference is caused to stations operating in accordance with the Table of Frequency Allocations set forth in Part 2 of the Commission's Rules and Regulations. Applications for licenses to use frequencies in this group must include statements showing what procedures will be taken to insure that interference will not be caused to stations in the Industrial/Business Pool.

[4] Operation on the frequencies 166.25 MHz and 170.15 MHz is not authorized (i) within the area bounded on the west by the Mississippi River, on the north by the parallel of latitude 37°30′ N., and on the east and south by the arc of the circle with center at Springfield, Ill., and radius equal to the airline distance between Springfield, Ill., and Montgomery, Alabama, subtended between the foregoing west and north boundaries; (ii) within 241.4 kilometers (150 miles) of New York City; and (iii) in Alaska or outside the continental United States; and is subject to the condition that no harmful interference is caused to government radio stations in the band 162–174 MHz.

[5] These frequencies may not be used by remote pickup stations in Puerto Rico or the Virgin Islands. In other areas, certain existing stations in the Public Safety Pool and Industrial/Business Pool have been permitted to continue operation on these frequencies on condition that no harmful interference is caused to remote pickup broadcast stations.

[6] The use of these frequencies is limited to operational communications, including tones for signalling and for remote control and automatic transmission system control and telemetry.

area. Applicants for licenses should select the frequencies closest to the lower band edges within a group that will meet operational requirements to promote the orderly and efficient use of the allocated frequencies.

(Sec. 5, 48 Stat. 1068; 47 U.S.C. 155)

[41 FR 29686, July 19, 1976, as amended at 42 FR 2070, Jan. 10, 1977; 42 FR 14728, Mar. 16, 1977; 43 FR 14661, Apr. 7, 1978; 44 FR 65765, Nov. 15, 1979; 47 FR 24580, June 7, 1982; 50 FR 9036. Mar. 6, 1985; 50 FR 23709, June 5, 1985; 51 FR 4601, Feb. 6, 1986; 62 FR 18844, Apr. 17, 1997]

EFFECTIVE DATE NOTES: 1. At 49 FR 45158, Nov. 15, 1984, § 74.402 was revised in its entirety. However, the effective date for this revision is still pending. For the convenience of the reader, the revised version of § 74.402 is set forth below:

§ 74.402 Authorized frequencies.

Operation on all channels listed in this section (except: 26.07, 26.11, 26.45, 450.01, 450.02, 450.98, 450.99, 455.01, 455.02, 455.98, 455.99 MHz) shall be in accordance with the ''priority of use'' provisions in § 74.403(b). The channel will be assigned by its center frequency, channel bandwidth, and emission designator. The frequencies listed in this section represent the center of the channel or channel segment.

(a) The following channels (except 1606, 1622, and 1646 kHz) may be assigned for us by broadcast remote pickup stations using any emission (other than single sideband or pulse) that will be in accordance with the provisions of § 74.462. The channels 1606, 1622, and 1646 kHz are limited to A3E emission.

(1) MF Channels: 1606, 1622, and 1646 kHz; Maximum authorized channel bandwidth: 10 kHz; The channel 1606 kHz is subject to the condition listed in subparagraph (e)(1) of this Section.

(2) HF Channels: 25.87, 25.91, 25.95, 25.99, 26.03, 26.07, 26.09, 2.611, 26.13, 26.15, 26.17, 26.21, 26.23, 26.25, 26.27, 26.29, 26.31, 26.33, 26.35, 26.37, 26.39, 26.41, 26.43, 26.45, and 26.47 MHz; Maximum authorized channel bandwidth: 20 kHz, except the channels 25.87–26.03 MHz are 40 kHz; The channels 25.87–26.09 MHz are subject to the condition listed in subparagraph (e)(2) of this Section.

(3) VHF Channels: 166.25 and 170.15 MHz; Maximum authorized channel bandwidth: 25 kHz; These channels are subject to the condition listed in subparagraph (e)(8) of this Section.

(4) UHF Channels: 450.01, 450.02, 450.98, 450.99, 455.01, 455.02, 455.98, 455.99 MHz; Maximum authorized channel bandwidth: 10 kHz; These channels are subject to the condition listed in subparagraph (e)(9) of this Section.

(b) One or more of the following 5 kHz segments my be stacked to form a channel which may be assigned for use by broadcast remote pickup stations using any emission contained within the resultant channel in accordance with the provisions of § 74.462.

(1) VHF segments: 152.8575, 152.8625, 152.8675, 152.8725, 152.8775, 152.8825, 152.9175, 152.9225, 152.9275, 152.9325, 152.9375, 152.9425, 152.9775, 152.9825, 152.9875, 152.9925, 152.9975, 153.0025, 153.0375, 153.0425, 153.0475, 153.0525, 153.0575, 153.0625, 153.0975, 153.1025, 153.1075, 153.1125, 153.1175, 153.1225, 153.1575, 153.1625, 153.1675, 153.1725, 153.1775, 153.1825, 153.2175, 153.2225, 153.2275, 153.2325, 153.2375, 153.2425, 153.2775, 153.2825, 153.2875, 153.2925, 153.2975, 153.3025, 153.3375, 153.3425, 153.3475, 153.3525, 153.3575, and 153.362 MHz; Maximum authorized channel bandwidth: 30 kHz; These channels are subject to the conditions listed in paragraphs (e) (3), (4), and (5) of this section.

(2) VHF segments: 160.8625, 160.8675, 160.8725, 160.8775, 160.8825, 160.8875, 160.8925, 160.8975, 160.9025, 160.9075, 160.9125, 160.9175, 160.9225, 160.9275, 160.9325, 160.9375, 160.9425, 160.9475, 160.9525, 160.9575, 160.9625, 160.9675, 160.9725, 160.9775, 160.9825, 160.9875, 160.9925, 160.9975, 161.0025, 161.0075, 161.0125, 161.0175, 161.0225, 161.0275, 161.0325, 161.0375, 161.0425, 161.0475, 161.0525, 161.0575, 161.0625, 161.0675, 161.0725, 161.0775, 161.0825, 161.0875, 161.0925, 161.0975, 161.1025, 161.1075, 161.1125, 161.1175, 161.1225, 161.1275, 161.1325, 161.1375, 161.1425, 161.1475, 161.1525, 161.1575, 161.1625, 161.1675, 161.1725, 161.1775, 161.1825, 161.1875, 161.1925, 161.1975, 161.2025, 161.2075, 161.2125, 161.2175, 161.2225, 161.2275, 161.2325, 161.2375, 161.2425, 161.2475, 161.2525, 161.2575, 161.2625, 161.2675, 161.2725, 161.2775, 161.2825, 161.2875, 161.2925, 161.2975, 161.3025, 161.3075, 161.3125, 161.3175, 161.3225, 161.3275, 161.3325, 161.3375, 161.3425, 161.3475, 161.3525, 161.3575, 161.3625, 161.3675, 161.3725, 161.3775, 161.3825, 161.3875, 161.3925, and 161.3975 MHz; Maximum authorized channel bandwidth: 30 kHz; These channels are subject to the condition listed in paragraph (e)(6) of this section.

(3) VHF segments: 161.6275, 161.6325, 161.6375, 161.6425, 161.6475, 161.6525, 161.6575, 161.6625, 161.6675, 161.6725, 161.6775, 161.6825, 161.6875, 161.6925, 161.6975, 161.7025, 161.7075, 161.7125, 161.7175, 161.7225, 161.7275, 161.7325, 161.7375, 161.7425, 161.7475, 161.7525, 161.7575, 161.7625, 161.7675, and 161.7725 MHz; Maximum authorized channel bandwidth: 30 kHz; These channels are subject to the conditions listed in paragraphs (e) (4) and (7) of this section.

(4) UHF segments: 450.0275, 450.0325, 450.0375, 450.0425, 450.0475, 450.0525, 450.0575, 450.0625, 450.0675, 450.0725, 450.0775, 450.0825, 450.0875, 450.0925, 450.0975, 450.1025, 450.1075, 450.1125, 450.1175, 450.1225, 450.1275, 450.1325, 450.1375, 450.1425, 450.1475, 450.1525, 450.1575, 450.1625, 450.1675, 450.1725, 450.1775, 450.1825, 450.1875, 450.1925, 450.1975, 450.2025, 450.2075, 450.2125, 450.2175, 450.2225, 450.2275, 450.2325, 450.2375, 450.2425, 450.2475, 450.2525, 450.2575,

450.2625, 450.2675, 450.2725, 450.2775, 450.2825, 450.2875, 450.2925, 450.2975, 450.3025, 450.3075, 450.3125, 450.3175, 450.3225, 450.3275, 450.3325, 450.3375, 450.3425, 450.3475, 450.3525, 450.3575, 450.3625, 450.3675, 450.3725, 450.3775, 450.3825, 450.3875, 450.3925, 450.3975, 450.4025, 450.4075, 450.4125, 450.4175, 450.4225, 450.4275, 450.4325, 450.4375, 450.4425, 450.4475, 450.4525, 450.4575, 450.4625, 450.4675, 450.4725, 450.4775, 450.4825, 450.4875, 450.4925, 450.4975, 450.5025, 450.5075, 450.5125, 450.5175, 450.5225, 450.5275, 450.5325, 450.5375, 450.5425, 450.5475, 450.5525, 450.5575, 450.5625, 450.5675, 450.5725, 450.5775, 450.5825, 450.5875, 450.5925, 450.5975, 450.6025, 450.6075, 450.6125, 450.6175, 450.6225, 455.0275, 455.0325, 455.0375, 455.0425, 455.0475, 455.0525, 455.0575, 455.0625, 455.0675, 455.0725, 455.0775, 455.0825, 455.0875, 455.0925, 455.0975, 455.1025, 455.1075, 455.1125, 455.1175, 455.1225, 455.1275, 455.1325, 455.1375, 455.1425, 455.1475, 455.1525, 455.1575, 455.1625, 455.1675, 455.1725, 455.1775, 455.1825, 455.1875, 455.1925, 455.1975, 455.2025, 455.2075, 455.2125, 455.2175, 455.2225, 455.2275, 455.2325, 455.2375, 455.2425, 455.2475, 455.2525, 455.2575, 455.2625, 455.2675, 455.2725, 455.2775, 455.2825, 455.2875, 455.2925, 455.2975, 455.3025, 455.3075, 455.3125, 455.3175, 455.3225, 455.3275, 455.3325, 455.3375, 455.3425, 455.3475, 455.3525, 455.3575, 455.3625, 455.3675, 455.3725, 455.3775, 455.3825, 455.3875, 455.3925, 455.3975, 455.4025, 455.4075, 455.4125, 455.4175, 455.4225, 455.4275, 455.4325, 455.4375, 455.4425, 455.4475, 455.4525, 455.4575, 455.4625, 455.4675, 455.4725, 455.4775, 455.4825, 455.4875, 455.4925, 455.4975, 455.5025, 455.5075, 455.5125, 455.5175, 455.5225, 455.5275, 455.5325, 455.5375, 455.5425, 455.5475, 455.5525, 455.5575, 455.5625, 455.5675, 455.5725, 455.5775, 455.5825, 455.5875, 455.5925, 455.5975, 455.6025, 455.6075, 455.6125, 455.6175, 455.6225 MHz. Maximum authorized channel bandwidth: 50 kHz.

(c) One or two of the following 25 kHz segments may be stacked to form a channel which may be assigned for use by broadcast remote pickup stations using any emission contained within the resultant channel in accordance with the provisions of § 74.462. Users committed to 50 kHz bandwidths and transmitting program material will have primary use of these channels.

(1) UHF segments: 450.6375, 450.6625, 450.6875, 450.7125, 450.7375, 450.7625, 450.7875, 450.8125, 450.8375, 450.8625, 455.6375, 455.6625, 455.6875, 455.7125, 455.7375, 455.7625, 455.7875, 455.8125, 455.8375, 455.8625 MHz. Maximum authorized channel bandwidth: 50 kHz.

(d) One or two of the following 50 kHz segments may be stacked to form a channel which may be assigned for use by broadcast remote pickup stations using any emission contained within the resultant channel in accordance with the provisions of Section 74.462. Users committed to 100 kHz bandwidths and transmitting program material will have primary use of these channels.

(1) UHF segments: 450.900, 450.950, 455.900, and 455.950 MHz; Maximum authorized channel bandwidth: 100 kHz.

(e) Conditions on Broadcast Remote Pickup Service channel usage as referred to in subparagraphs (a) through (d) above:

(1) Operation is subject to the condition that no harmful interference is caused to the reception of AM broadcast stations.

(2) Operation is subject to the condition that no harmful interference is caused to stations in the broadcast service.

(3) Operation is subject to the condition that no harmful interference is caused to stations operating in accordance with the Table of Frequency Allocations set forth in Part 2 of the Commission's Rules and Regulations. Applications for licenses to use frequencies in this band must include statements showing what procedures will be taken to ensure that interference will not be caused to stations in the Industrial Radio Services.

(4) These frequencies will not be licensed to network entities.

(5) These frequencies will not be authorized to new stations for use on board aircraft.

(6) These frequencies are allocated for assignment to broadcast remote pickup stations in Puerto Rico or the Virgin Islands only.

NOTE: These frequencies are shared with Public Safety and Land Transportation Radio Services.

(7) These frequencies may not be used by broadcast remote pickup stations in Puerto Rico or the Virgin Islands. In other areas, certain existing stations in the Public Safety and Land Transportation Radio Services have been permitted to continue operation on these frequencies on condition that no harmful interference is caused to broadcast remote pickup stations.

(8) Operation on the frequencies 166.25 MHz and 170.15 MHz is not authorized: (i) Within the area bounded on the west by the Mississippi River, on the north by the parallel of latitude 37 degrees 30 minutes N., and radius equal to the air-line distance between Springfield, Ill., and Montgomery, Alabama, subtended between the foregoing west and north boundaries; (ii) Within 150 miles (241 KM) of New York City; and, (iii) In Alaska or outside the continental United States; and is subject to the condition that no harmful interference is caused radio stations in the band 162–174 MHz.

(9) The use of these frequencies is limited to operational communications, including tones for signaling and for remote control and automatic transmission system control and telemetry.

(f) License applicants shall request assignment of only those channels, both in number and bandwidth, necessary for satisfactory operation and for which the system is

equipped to operate. However, it is not necessary that each transmitter within a system be equipped to operate on all frequencies authorized to that licensee.

(g) Remote pickup stations or systems will not be granted exclusive channel assignments. The same channel or channels may be assigned to other licensees in the same area. When such sharing is necessary, the provisions of § 74.403 shall apply.

(h) Each authorization for a new broadcast remote pickup station or system shall require the use of type accepted equipment.

[49 FR 45158, Nov. 15, 1984, as amended at 51 FR 32089, Sept. 9, 1986]

2. At 62 FR 18843, Apr. 17, 1997, in § 74.402, paragraph (a) was amended by revising the last sentence of footnotes 3 and 5, and the note following paragraph (b). For the convenience of the user, the superseded text is set forth as follows:

§ 74.402 Frequency assignment.

(a) * * *

[3] * * * Applications for licenses to use frequencies in this group must include statements showing what procedures will be taken to insure that interference will not be caused to stations in the industrial radio services.

* * * * *

[5] * * * In other areas, certain existing stations in the Public Safety and Land Transportation Radio Services have been permitted to continue operation on these frequencies on condition that no harmful interference is caused to remote pickup broadcast stations.

* * * * *

(b) * * *

NOTE: These frequencies are shared with the Land Transportation Radio Service.

* * * * *

§ 74.403 Frequency selection to avoid interference.

(a) Where two or more remote pickup broadcast station licensees are authorized to operate on the same frequency or group of frequencies in the same area and when simultaneous operation is contemplated, the licensees shall endeavor to select frequencies or schedule operation in such manner as to avoid mutual interference. If mutual agreement to this effect cannot be reached the Commission shall be notified and it will specify the frequency or frequencies on which each station is to be operated.

(b) The following order of priority of transmissions shall be observed on all frequencies except those listed in § 74.402 (a)(3), (a)(7) and (a)(8):

(1) Communications during an emergency or pending emergency directly related to the safety of life and property.

(2) Program material to be broadcast.

(3) Cues, orders, and other related communications immediately necessary to the accomplishment of a broadcast.

(4) Operational communications.

(5) Tests or drills to check the performance of stand-by or emergency circuits.

§ 74.431 Special rules applicable to remote pickup stations.

(a) Remote pickup mobile stations may be used for the transmission of material from the scene of events which occur outside the studio back to studio or production center. The transmitted material shall be intended for the licensee's own use and may be made available for use by any other broadcast station or cable system.

(b) Remote pickup mobile or base stations may be used for communications related to production and technical support of the remote program. This includes cues, orders, dispatch instructions, frequency coordination, establishing microwave links, and operational communications. Operational communications are alerting tones and special signals of short duration used for telemetry or control.

(c) Remote pickup mobile or base stations may communicate with any other station licensed under this subpart.

(d) Remote pickup mobile stations may be operated as a vehicular repeater to relay program material and communications between stations licensed under this subpart. Precautions shall be taken to avoid interference to other stations and the vehicular repeater shall only be activated by hand-carried or pack-carried units.

(e) The output of hand-carried or pack-carried transmitter units used with a vehicular repeater is limited to

2.5 watts. The output of a vehicular repeater transmitter used as a talkback unit on an additional frequency is limited to 2.5 watts.

(f) Remote pickup base and mobile stations in Alaska, Guam, Hawaii, Puerto Rico, and the Virgin Islands may be used for any purpose related to the programming or technical operation of a broadcasting station, except for transmission intended for direct reception by the general public.

(g) A broadcast licensee eligible for ''short-term operation'' under §74.24, may operate RPU base or mobile stations under the authorization of the Part 73 license for an indefinite period upon filing an application for auxiliary operation with the Commission and subject to the conditions of §74.24 (a), (b), (e), (f), (h), (i), and to the conditions set forth below:

(1) The auxiliary station is located within 50 miles (80 km) of the broadcast studio or broadcast transmitter.

(2) The applicant must coordinate the operation with all affected co-channel and adjacent channel licensees in the area of operation. This requirement can be satisfied by coordination with the local frequency committee if one exists.

(3) Such operation shall be suspended immediately upon notification from the Commission or by the Engineer in Charge (EIC) of the Commission's local field office, and shall not be resumed until specific authority is given by the Commission or EIC. When authorized by the EIC, short test operations may be made.

(4) Operation under this provision is not permitted between 152.87 MHz and 153.35 MHz.

(h) In the event that normal aural studio to transmitter circuits are damaged, stations licensed under Subpart D may be used to provide temporary circuits for a period not exceeding 30 days without further authority from the Commission necessary to continue broadcasting.

(i) Remote pickup mobile or base stations may be used for activities associated with the Emergency Broadcast System and similar emergency survival communications systems. Drills and tests are also permitted on these stations, but the priority requirements of §74.403(b) must be observed in such cases.

[51 FR 4602, Feb. 6, 1986]

§74.432 Licensing requirements and procedures.

(a) A license for a remote pickup station will be issued to: the licensee of an AM, FM, noncommercial FM, TV, international broadcast or low power TV station; broadcast network-entity; or cable network-entity.

(b) Base stations may operate as automatic relay stations on the frequencies listed in §74.402(a) (6) and (8) under the provisions of §74.436, however, one licensee may not operate such stations on more than two frequencies in a single area.

(c) Base stations may use voice communications between the studio and transmitter or points of any intercity relay system on frequencies in Groups I and J.

(d) Base stations may be authorized to establish standby circuits from places where official broadcasts may be made during times of emergency and circuits to interconnect an emergency survival communications system.

(e) In Alaska, Guam, Hawaii, Puerto Rico, and the Virgin Islands, base stations may provide program circuits between the studio and transmitter or to relay programs between broadcasting stations. A base station may be operated unattended in accordance with the following:

(1) The station must be designed, installed, and protected so that the transmitter can only be activated or controlled by persons authorized by the licensee.

(2) The station must be equipped with circuits to prevent transmitter operation when no signal is received from the station which it is relaying.

(f) Remote pickup stations may use only those frequencies and bandwidths which are necessary for operation.

(g) An application for a remote pickup broadcast station or system shall specify the broadcasting station or stations (where more than one broadcasting station is specified, all such broadcasting stations shall be licensed to the applicant and to the same community) with which the remote pickup broadcast facility is to be principally used

and the licensed area of operation for a system which includes mobile stations shall be the area considered to be served by the associated broadcasting station or stations. Mobile stations may be operated outside the licensed area of operation pursuant to § 74.431(d). Where the applicant for remote pickup broadcast facilities is the licensee of more than one class of broadcasting station (AM, FM, TV), all licensed to the same community, designation of one or more such stations as the associated broadcasting station or stations will not preclude use of the remote pickup broadcast facilities with those broadcasting stations not included in the designation and such additional use shall be at the discretion of the licensee.

(h) In cases where a series of broadcasts are to be made from the same location, portable or mobile transmitters may be left at such location for the duration of the series of broadcasts: *Provided,* The transmitting apparatus is properly secured so that it may not be operated by unauthorized persons when unattended. Prior Commission authority shall be obtained for the installation of any transmitting antenna which requires notification to the FAA, pursuant to § 17.7 of the Commission's rules and regulations, and which will be in existence for more than 2 days.

(i) The location of each remote pickup broadcast base station will be specified in the station or system license and such stations may not be operated at any other location without prior authority of the Commission.

(j) The license shall be retained in the licensee's files at the address shown on the authorization, posted at the transmitter, or posted at the control point of the station.

(k) In the case of permanent discontinuance of operation of a station or system licensed under this subpart, the licensee shall forward the station or system license to the FCC at Federal Communications Commission, 1270 Fairfield Road, Gettysburg, Pennsylvania 17325 for cancellation. For purposes of this section, a station which is not operated for a period of one year is considered to have been permanently discontinued.

NOTE: Licensees of remote pickup broadcast stations licensed prior to August 31, 1976, should not file applications to consolidate individually licensed transmitters under a single system license until the renewal application of the associated broadcast station is filed. Applications filed between August 31, 1976, and the date of filing of the renewal applications to obtain authorization to use additional transmitters or modification of existing stations shall be restricted to a single system application necessary to accomplish the desired change, but may include consolidation of previously-licensed transmitters within the system license. Applications submitted for system licensing prior to the time when renewal applications would normally be filed which are unnecessary for either administrative or operational purposes will be returned as unacceptable for filing.

(Sec. 5, 48 Stat. 1068; 47 U.S.C. 155)

[41 FR 29686, July 19, 1976, as amended at 42 FR 2071, Jan. 10, 1977; 47 FR 21496, May 18, 1982; 49 FR 14509, Apr. 12, 1984; 51 FR 4602, Feb. 6, 1986; 58 FR 19775, Apr. 16, 1993; 60 FR 55482, Nov. 1, 1995]

§ 74.433 Temporary authorizations.

(a) Special temporary authority may be granted for remote pickup station operation which cannot be conducted in accordance with § 74.24. Such authority will normally be granted only for operations of a temporary nature. Where operation is seen as likely on a continuing annual basis, an application for a regular authorization should be submitted.

(b) A request for special temporary authority for the operation of a remote pickup broadcast station may be made by informal application, which shall be filed with the Commission at least 10 days prior to the date of the proposed operation: *Provided,* That, an application filed within less than 10 days of the proposed operation may be accepted upon a satisfactory showing of the reasons for the delay in submitting the request.

(c) An informal request for special temporary authority requiring payment of a fee shall be addressed to the FCC at Federal Communications Commission, Broadcast Auxiliary Radio Services, P.O. Box 358700, Pittsburgh, PA 15251–5700. An informal request for

special temporary authority not requiring payment of a fee shall be addressed to the FCC at Federal Communications Commission, 1270 Fairfield Road, Gettysburg, Pennsylvania 17325. All requests must include full particulars including: Licensee's name, call letters of associated broadcast station or stations, name and address of individual designated to receive return authorization, call letters of remote pickup station, if assigned, type and manufacturer of equipment, power output, emission, frequency or frequencies proposed to be used, commencement and termination date, location of operation and purpose for which request is made including any particular justification.

(d) A request for special temporary authority shall specify a frequency or frequencies consistent with the provisions of §74.402: *Provided,* That, in the case of events of wide-spread interest and importance which cannot be transmitted successfully on these frequencies, frequencies assigned to other services may be requested upon a showing that operation thereon will not cause interference to established stations: *And provided further,* In no case will operation of a remote pickup broadcast station be authorized on frequencies employed for the safety of life and property.

(e) The user shall have full control over the transmitting equipment during the period it is operated.

(f) Special temporary authority to permit operation of remote pickup broadcast stations or systems pending Commission action on an application for regular authority will not normally be granted.

[41 FR 29686, July 19, 1976, as amended at 47 FR 9220, Mar. 4, 1982; 47 FR 55936, Dec. 14, 1982; 50 FR 23709, June 5, 1985; 58 FR 19775, Apr. 16, 1993]

§74.434 Remote control operation.

(a) A remote control system must provide adequate monitoring and control functions to permit proper operation of the station.

(b) A remote control system must be designed, installed, and protected so that the transmitter can only be activated or controlled by persons authorized by the licensee.

(c) A remote control system must prevent inadvertent transmitter operation caused by malfunctions in the circuits between the control point and transmitter.

[51 FR 4602, Feb. 6, 1986, as amended at 60 FR 55482, Nov. 1, 1995]

§74.436 Special requirements for automatic relay stations.

(a) An automatic relay station must be designed, installed, and protected so that the transmitter can only be activated or controlled by persons authorized by the licensee.

(b) An automatic relay station may accomplish retransmission of the incoming signals by either heterodyne frequency conversion or by modulating the transmitter with the demodulated incoming signals.

(c) An automatic relay station transmitter may relay the demodulated incoming signals from one or more receivers.

[51 FR 4602, Feb. 6, 1986, as amended at 60 FR 55483, Nov. 1, 1995]

§74.451 Type acceptance of equipment.

(a) Applications for new remote pickup broadcast stations or systems or for changing transmitting equipment of an existing station will not be accepted unless the transmitters to be used have been type accepted by the FCC pursuant to the provisions of this subpart, or have been type accepted for licensing under parts 21 or 90 of the FCC rules and do not exceed the output power limits specified in §74.461(b).

(b) Any manufacturer of a transmitter to be used in this service may apply for type acceptance for such transmitter following the type acceptance procedure set forth in part 2 of the Commission's rules and regulations. Attention is also directed to part 1 of the Commission's rules and regulations which specifies the fees required when filing an application for type acceptance.

(c) An applicant for a remote pickup broadcast station or system may also apply for type acceptance for an individual transmitter by following the type acceptance procedure set forth in part 2 of the Commission's rules and regulations. Individual transmitters

which are type accepted will not normally be included in the Commission's ''Radio Equipment List.''

(d) All transmitters marketed for use under this subpart shall be type accepted by the Federal Communications Commission. (Refer to subpart J of part 2 of the Commission's Rules and Regulations.)

(e) Remote pickup broadcast station equipment authorized to be used pursuant to an application accepted for filing prior to December 1, 1977, may continue to be used by the licensee or its successors or assignees: *Provided, however,* If operation of such equipment causes harmful interference due to its failure to comply with the technical standards set forth in this subpart, the Commission may, at its discretion, require the licensee to take such corrective action as is necessary to eliminate the interference.

(f) Each instrument of authority which permits operation of a remote pickup broadcast station or system using equipment which has not been type accepted will specify the particular transmitting equipment which the licensee is authorized to use.

(Sec. 5, 48 Stat. 1068; 47 U.S.C. 155)

[41 FR 29686, July 19, 1976, as amended at 42 FR 14728, Mar. 16, 1977; 42 FR 43636, Aug. 30, 1977; 43 FR 14661, Apr. 7, 1978; 45 FR 28142, Apr. 28, 1980]

§ 74.452 Equipment changes.

(a) Prior Commission approval is required for any change in the overall height of an antenna structure, except where notice to the Federal Aviation Administration is specifically not required under § 17.14(b) of the Commission's rules and regulations.

(b) The licensee of a remote pickup broadcast station may, except as set forth in paragraph (d) of this section, make any other changes in the equipment that are deemed desirable or necessary, including replacement with type accepted equipment, without prior Commission approval: *Provided,* The proposed changes will not depart from any of the terms of the station or system authorization or the Commission's technical rules governing this service: *And provided further,* That any changes made to type accepted transmitting equipment shall be in compliance with the provisions of Part 2 of the Commission's rules and regulations concerning modification to type accepted equipment.

(c) The FCC at Federal Communications Commission, Broadcast Auxiliary Radio Services, 1270 Fairfield Road, Gettysburg, Pennsylvania 17325 shall be promptly notified of any equipment changes made pursuant to paragraph (b) of this section.

(d) All transmitters initially installed after November 30, 1977, must be type accepted for use in this service or other services as specified in § 74.451(a).

(Sec. 5, 48 Stat. 1068; 47 U.S.C. 155)

[41 FR 29686, July 19, 1976, as amended at 42 FR 14728, Mar. 16, 1977; 42 FR 43636, Aug. 30, 1977; 43 FR 14662, Apr. 7, 1978; 47 FR 54448, Dec. 3, 1982; 58 FR 19775, Apr. 16, 1993]

§ 74.461 Transmitter power.

(a) Transmitter power is the power at the transmitter output terminals and delivered to the antenna, antenna transmission line, or any other impedance-matched, radio frequency load. For the purpose of this Subpart, the transmitter power is the carrier power.

(b) The authorized transmitter power for a remote pickup broadcast station shall be limited to that necessary for satisfactory service and, in any event, shall not be greater than 100 watts, except that a station to be operated aboard an aircraft shall normally be limited to a maximum authorized power of 15 watts. Specific authorization to operate stations on board aircraft with an output power exceeding 15 watts will be issued only upon an adequate engineering showing of need, and of the procedures that will be taken to avoid harmful interference to other licensees.

(Sec. 5, 48 Stat. 1068; 47 U.S.C. 155)

[41 FR 29686, July 19, 1976, as amended at 43 FR 14662, Apr. 7, 1978]

§ 74.462 Authorized bandwidth and emissions.

(a) Each authorization for a new remote pickup broadcast station or system issued pursuant to an application accepted after (one year following the

effective date of these rules) shall require the use of type accepted equipment and such equipment shall be operated in accordance with emission specifications included in the type acceptance grant and as prescribed in paragraphs (b), (c), and (d) of this section.

(b) The maximum authorized bandwidth of emissions corresponding to the types of emissions specified below, and the maximum authorized frequency deviation in the case of frequency or phase modulated emission, shall be as follows:

Frequencies (megahertz)	Authorized bandwidth [1] (kilohertz)	Maximum frequency deviation [2] (kilohertz)	Type of emission [3] [4]
25.87 to 26.03	40	10	A3, F3, F3Y, F9
26.07 to 26.47	20	5	A3, F3, F3Y, F9
152.87 to 153.35 [5]	30/60	5/10	A3, F3, F3Y, F9
160.89 to 161.37	60	10	A1, A2, A3, F1, F2, F3, F3Y, F9
161.64 to 161.76	30	5	A1, A2, A3, F1, F2, F3, F3Y, F9
166.25 to 170.15	25	5	A1, A2, A3, F1, F2, F3, F3Y, F9
450 to 455.99 (10 kHz channels)	10	1.5	A1, A2, A3, F1, F2, F3, F9
450.0875 to 455.6125 (25 kHz channels)	25	5	A1, A2, A3, F1, F2, F3, F3Y, F9
450.05 to 455.85 (50 kHz channels)	50	10	A1, A2, A3, F1, F2, F3Y, F9
450.925 and 455.925 (100 kHz channels)	100	35	A1, A2, A3, F1, F2, F3, F3Y, F9

[1] Notwithstanding the authorized bandwidths shown in the table, not more than 20 kHz bandwidth will be authorized in the case of F3Y emission.
[2] Applies where class F1, F2, F3, or F9 emission is used.
[3] Stations operating above 450 MHz shall show a need for employing A1, A2, F1, or F2 emission.
[4] The emission designators shown in the table no longer conform to those contained in subpart C of part 2 of the Commission's Rules and Regulations. They will be so-conformed after necessary modifications to broadcast auxiliary application processing programs are completed. For transmitting equipment which is type accepted, emission designators will appear in the Commission's Radio Equipment List. Equipment approved for emissions contained in subpart C of part 2 may be used by part 74 stations if their emissions are equivalent to the previous emission designators shown in the table.
[5] New or modified licenses for use of the frequencies will not be granted to utilize transmitters on board aircraft, or to use a bandwidth in excess of 3 kHz and maximum deviation exceeding 5 kHz.

(c) The mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

(1) On any frequency removed from the assignment frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: at least 25 dB:

(2) On any frequency removed from the assigned frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: at least 35 dB;

(3) On any frequency removed from the assigned frequency by more than 250 percent on the authorized bandwidth; at least 43 plus 10 $\log_{10}$ (mean output power, in watts) dB.

(d) In the event a station's emissions outside its authorized channel cause harmful interference, the Commission may, at its discretion, require the licensee to take such further steps as may be necessary to eliminate the interference.

(e) The maximum authorized bandwidth for stations operating on 1606, 1622, or 1646 kHz shall be 10 kHz and operations on these frequencies shall be limited to A3 emission only.

(f) For those transmitters using the F3Y emission and operating in the frequency range between 25.87 MHz and 170.15 MHz, the power of any emission shall be attenuated below the unmodulated carrier power (P) in accordance with the following schedule:

(1) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (F_d in kHz) of more than 5 kHz, up to and including 10 kHz: At least 83 Log_{10} (F_d/5) decibels;

(2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (F_d in kHz) of more than 10 kHz, up to and including 250 percent of the authorized bandwidth: At least 29 Log_{10} ((F_d)exp2/11) decibels or 50 decibels, whichever is the lesser attenuation.

(3) On any frequency removed from the center of the authorized bandwidth by more than 250 percent of the authorized bandwidth: At least 43 plus 10 Log_{10} (output power in watts) decibels

or 80 decibels, whichever is the lesser attenuation.

(g) For those transmitters using the F3Y emission and operating in the frequency range between 450.01 MHz and 455.925 MHz, the power of any emission shall be attenuated below the unmodulated carrier power (P) in accordance with the following schedule:

(1) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (F_d in kHz) of more than 5 kHz, up to and including 10 kHz: At least 83 Log_{10} (F_d/5) decibels;

(2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (F_d in kHz) of more than 10 kHz, up to and including 250 percent of the authorized bandwidth: At least 116 Log_{10} (F_d/6.1) decibels or 70 decibels, whichever is the lesser attenuation.

(3) On any frequency removed from the center of the authorized bandwidth by more than 250 percent of the authorized bandwidth: At least 43 + 10 Log_{10} (output power in watts) decibels or 80 decibels, whichever is the lesser attenuation.

NOTE: The measurements of emission power can be expressed in peak or mean values provided they are expressed in the same parameters as the unmodulated transmitter carrier power.

(Sec. 5, 48 Stat. 1068; 47 U.S.C. 155)

[41 FR 29686, July 19, 1976, as amended at 41 FR 32429, Aug. 3, 1976; 41 FR 35068, Aug. 19, 1976; 43 FR 14662, Apr. 7, 1978; 43 FR 38391, Aug. 28, 1978; 44 FR 65765, Nov. 15, 1979; 56 FR 28498, June 21, 1991]

§ 74.463 Modulation requirements.

(a) Each new remote pickup broadcast station authorized to operate with a power output in excess of 3 watts shall be equipped with a device which will automatically prevent modulation in excess of the limits set forth in this subpart.

(b) If amplitude modulation is employed, modulation shall not exceed 100 percent on negative peaks.

(c) If frequency modulation is employed, emission shall conform to the requirements specified in § 74.462.

[41 FR 29686, July 19, 1976, as amended at 47 FR 54448, Dec. 3, 1982]

§ 74.464 Frequency tolerance.

The licensee of a remote pickup broadcast station or system shall maintain the operating frequency of each such station in accordance with the following:

Frequency range	Tolerance (percent)	
	Base station	Mobile station
1.6 to 2 MHz:		
200 W or less	0.01	0.02
Over 200 W [1]	.005	.02
25 to 30 MHz:		
3 W or less	.002	.005
Over 3 W	.002	.002
30 to 300 MHz:		
3 W or less	.0005	.005
Over 3 W	.0005	.0005
300 to 500 MHz, all powers	.00025	.0005

[1] The listing of tolerances for power over 200 W is in accordance with treaty values and shall not be construed as a finding that such power will be authorized.

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082 (47 U.S.C. 154, 155, 303))

[41 FR 29686, July 19, 1976, as amended at 42 FR 2071, Jan. 10, 1977; 43 FR 38391, Aug. 28, 1978; 44 FR 65765, Nov. 15, 1979]

§ 74.465 Frequency monitors and measurements.

The licensee of a remote pickup station or system shall provide the necessary means to assure that all operating frequencies are maintained within the allowed tolerances.

[51 FR 4603, Feb. 6, 1986]

§ 74.482 Station identification.

(a) Each remote pickup broadcast station shall be identified by the transmission of the assigned station or system call sign, or by the call sign of the associated broadcast station. For systems, the licensee (including a part 73-only licensee where operation takes place pursuant to § 74.24) shall assign a unit designator to each station in the system. The call sign (and unit designator, where appropriate) shall be transmitted at the beginning and end of each period of operation. A period of operation may consist of a single continuous transmission, or a series of intermittent transmissions pertaining to a single event.

(b) In cases where a period of operation is of more than one hour duration identification of remote pickup broadcast stations participating in the

operation shall be made at approximately one-hour intervals. Identification transmissions during operation need not be made when to make such transmissions would interrupt a single consecutive speech, play, religious service, symphony, concert, or any type of production. In such cases, the identification transmissions shall be made at the first interruption in the program continuity and at the conclusion thereof. Hourly identification may be accomplished either by transmission of the station or system call sign and unit designator assigned to the individual station or identification of an associated broadcasting station or network with which the remote pickup broadcast station is being used.

(c) In cases where an automatic relay station is a part of the circuit, the call sign of the relay transmitter may be transmitted automatically by the relay transmitter or by the remote pickup broadcast base or mobile station that actuates the automatic relay station.

(d) Automatically activated equipment may be used to transmit station identification in International Morse Code, provided that the modulation tone is 1200 Hz±800 Hz, the level of modulation of the identification signal is maintained at 40%±10%, and that the code transmission rate is maintained between 20 and 25 words per minute.

(e) For stations using the F3Y emission, identification shall be transmitted in the unscrambled analog (F3) mode or in International Morse Code pursuant to the provisions of (d) of this section at intervals not to exceed 15 minutes. For purposes of rule enforcement, all licensees using F3Y emissions shall provide, upon request by the Commission, a full and complete description of the encoding methodology they currently use.

NOTE: Stations are encouraged to identify using their associated part 73 station call sign.

[41 FR 29686, July 19, 1976, as amended at 47 FR 9220, Mar. 4, 1982; 52 FR 47569, Dec. 15, 1987; 56 FR 28499, June 21, 1991]

Subpart E—Aural Broadcast Auxiliary Stations

§ 74.501 Classes of aural broadcast auxiliary stations.

(a) *Aural broadcast STL station.* A fixed station for the transmission of aural program material between the studio and the transmitter of a broadcasting station other than an international broadcasting station.

(b) *Aural broadcast intercity relay (ICR) station.* A fixed station for the transmission of aural program material between radio broadcast stations, other than international broadcast stations, between FM radio broadcast stations and their co-owned FM booster stations, between noncommercial educational FM radio stations and their co-owned noncommercial educational FM translator stations assigned to reserved channels (Channels 201 to 220), between FM radio stations and FM translator stations operating within the coverage contour of their primary stations, or for such other purposes as authorized in § 74.531.

(c) *Aural broadcast microwave booster station.* A fixed station in the broadcast auxiliary service that receives and amplifies signals of an aural broadcast STL or intercity relay station and retransmits them on the same frequency.

[28 FR 13716, Dec. 14, 1963, as amended at 49 FR 7129, Feb. 27, 1984; 53 FR 4169, Feb. 12, 1988; 55 FR 50692, Dec. 10, 1990; 57 FR 41111, Sept. 9, 1992]

§ 74.502 Frequency assignment.

(a) Except as provided in US 302, broadcast auxiliary stations licensed as of November 21, 1984, to operate in the band 942–944 MHz[1] may continue to operate on a co–equal primary basis to other stations and services operating in the band in accordance with the Table of Frequency Allocations. These stations will be protected from possible

[1] NOTE: In addition to this band, stations in Puerto Rico may continue to be authorized on 942.5, 943.0, 943.5, 944.0 MHz in the band 942–944 MHz on a primary basis to stations and services operating in accordance with the Table of Frequency Allocations.

interference caused by new users of the band by the technical standards specified in § 94.63(d)(3).

(b) The frequency band 944–952 MHz is available for assignment to aural STL and ICR stations. AM and FM broadcast stations shall have primary use of the band; however, TV broadcast stations may be licensed on a secondary, noninterference basis. One or more of the following 25 kHz segments may be stacked to form a channel which may be assigned with a maximum authorized bandwidth of 300 kHz except as noted below. The channel, will be assigned by its center frequency, channel bandwidth, and emission designator. The following frequencies are the centers of each segment:

944.0125, 944.0375, 944.0625, 944.0875, 944.1125, 944.1375, 944.1625, 944.1875, 944.2125, 944.2375, 944.2625, 944.2875, 944.3125, 944.3375, 944.3625, 944.3875, 944.4125, 944.4375, 944.4625, 944.4875, 944.5125, 944.5375, 944.5625, 944.5875, 944.6125, 944.6375, 944.6625, 944.6875, 944.7125, 944.7375, 944.7625, 944.7875, 944.8125, 944.8375, 944.8625, 944.8875, 944.9125, 944.9375, 944.9625, 944.9875, 945.0125, 945.0375, 945.0625, 945.0875, 945.1125, 945.1375, 945.1625, 945.1875, 945.2125, 945.2375, 945.2625, 945.2875, 945.3125, 945.3375, 945.3625, 945.3875, 945.4125, 945.4375, 945.4625, 945.4875, 945.5125, 945.5375, 945.5625, 945.5875, 945.6125, 945.6375, 945.6625, 945.6875, 945.7125, 945.7375, 945.7625, 945.7875, 945.8125, 945.8375, 945.8625, 945.8875, 945.9125, 945.9375, 945.9625, 945.9875, 946.0125, 946.0375, 946.0625, 946.0875, 946.1125, 946.1375, 946.1625, 946.1875, 946.2125, 946.2375, 946.2625, 946.2875, 946.3125, 946.3375, 946.3625, 946.3875, 946.4125, 946.4375, 946.4625, 946.4875, 946.5125, 946.5375, 946.5625, 946.5875, 946.6125, 946.6375, 946.6625, 946.6875, 946.7125, 946.7375, 946.7625, 946.7875, 946.8125, 946.8375, 946.8625, 946.8875, 946.9125, 946.9375, 946.9625, 946.9875, 947.0125, 947.0375, 947.0625, 947.0875, 947.1125, 947.1375, 947.1625, 947.1875, 947.2125, 947.2375, 947.2625, 947.2875, 947.3125, 947.3375, 947.3625, 947.3875, 947.4125, 947.4375, 947.4625, 947.4875, 947.5125, 947.5375, 947.5625, 947.5875, 947.6125, 947.6375, 947.6625, 947.6875, 947.7125, 947.7375, 947.7625, 947.7875, 947.8125, 947.8375, 947.8625, 947.8875, 947.9125, 947.9375, 947.9625, 947.9875, 948.0125, 948.0375, 948.0625, 948.0875, 948.1125, 948.1375, 948.1625, 948.1875, 948.2125, 948.2375, 948.2625, 948.2875, 948.3125, 948.3375, 948.3625, 948.3875, 948.4125, 948.4375, 948.4625, 948.4875, 948.5125, 948.5375, 948.5625, 948.5875, 948.6125, 948.6375, 948.6625, 948.6875, 948.7125, 948.7375, 948.7625, 948.7875, 948.8125, 948.8375, 948.8625, 948.8875, 948.9125, 948.9375, 948.9625, 948.9875, 949.0125, 949.0375, 949.0625, 949.0875, 949.1125, 949.1375, 949.1625, 949.1875, 949.2125, 949.2375, 949.2625, 949.2875, 949.3125, 949.3375, 949.3625, 949.3875, 949.4125, 949.4375, 949.4625, 949.4875, 949.5125, 949.5375, 949.5625, 949.5875, 949.6125, 949.6375, 949.6625, 949.6875, 949.7125, 949.7375, 949.7625, 949.7875, 949.8125, 949.8375, 949.8625, 949.8875, 949.9125, 949.9375, 949.9625, 949.9875, 950.0125, 950.0375, 950.0625, 950.0875, 950.1125, 950.1375, 950.1625, 950.1875, 950.2125, 950.2375, 950.2625, 950.2875, 950.3125, 950.3375, 950.3625, 950.3875, 950.4125, 950.4375, 950.4625, 950.4875, 950.5125, 950.5375, 950.5625, 950.5875, 950.6125, 950.6375, 950.6625, 950.6875, 950.7125, 950.7375, 950.7625, 950.7875, 950.8125, 950.8375, 950.8625, 950.8875, 950.9125, 950.9375, 950.9625, 950.9875, 951.0125, 951.0375, 951.0625, 951.0875, 951.1125, 951.1375, 951.1625, 951.1875, 951.2125, 951.2375, 951.2625, 951.2875, 951.3125, 951.3375, 951.3625, 951.3875, 951.4125, 951.4375, 951.4625, 951.4875, 951.5125, 951.5375, 951.5625, 951.5875, 951.6125, 951.6375, 951.6625, 951.6875, 951.7125, 951.7375, 951.7625, 951.7875, 951.8125, 951.8375, 951.8625, 951.8875, 951.9125, 951.9375, 951.9625, 951.9875.

(1) A single broadcast station may be authorized up to a maximum of twenty segments (500 kHz total bandwidth) for transmission of program material between a single origin and one or more designations. The station may lease excess capacity for broadcast and other uses on a secondary basis, subject to availability of spectrum for broadcast use. However, an FM station licensed for twelve or fewer segments (300 kHz total bandwidth) or an AM station licensed for eight or fewer segments (200 kHz total bandwidth) may lease excess capacity for broadcast and other uses on a primary basis.

(2) An applicant (new or modification of existing license) may assume the cost of replacement of one or more existing licensees equipment with narrowband equipment of comparable capabilities and quality in order to make available spectrum for its facilities. Existing licensees must accept such replacement without cost to them except upon a showing that the replacement equipment does not meet the capability or quality requirements.

(c) The frequency bands 18,760–18,820 and 19,100–19,160 MHz are available for assignment to aural broadcast STL and intercity relay stations and are shared on a co-primary basis with other fixed services under Parts 21, 78 and 94 of the Commission's rules.

(1) 5 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
340 MHz Separation	
18762.5	19102.5
18767.5	19107.5
18772.5	19112.5
18777.5	19117.5
18782.5	19122.5
18787.5	19127.5
18792.5	19132.5
18797.5	19137.5
18802.5	19142.5
18807.5	19147.5
18812.5	19152.5
18817.5	19157.5

Applicants may use either a two-way link or one frequency of a frequency pair for a one-way link and shall coordinate proposed operations pursuant to the procedures required in §21.100(d).

(2) [Reserved]

(d) [Reserved]

(e) The use of the frequencies listed in paragraph (b) of this section by aural broadcast intercity relay stations is subject to the condition that no harmful interference is caused to other classes of stations operating in accordance with the Table of Frequency Allocations contained in §2.106 of this chapter.

[28 FR 13716, Dec. 14, 1963, as amended at 48 FR 50332, Nov. 1, 1983; 49 FR 37777, Sept. 26, 1984; 50 FR 4658, Feb. 1, 1985; 50 FR 7341, Feb. 22, 1985; 50 FR 34150, Aug. 23, 1985; 50 FR 48600, Nov. 26, 1985; 54 FR 10329, Mar. 13, 1989; 54 FR 24905, June 12, 1989; 54 FR 30043, July 18, 1989]

§74.503 Frequency selection.

(a) Each application for a new station or change in an existing station shall be specific with regard to frequency. In general, the lowest suitable frequency will be assigned which, on an engineering basis, will not cause harmful interference to other stations operating in accordance with existing frequency allocations.

(b) Where it appears that interference may result from the operation of a new station or a change in the facilities of an existing station, the Commission may require a showing that harmful interference will not be caused to existing stations or that if interference will be caused the need for the proposed service outweighs the loss of service due to the interference.

[28 FR 13716, Dec. 14, 1963]

§74.531 Permissible service.

(a) An aural broadcast STL station is authorized to transmit aural program material between the studio and transmitter location of a broadcasting station, except an international broadcasting station, for simultaneous or delayed broadcast.

(b) An aural broadcast intercity relay station is authorized to transmit aural program material between broadcasting stations, except international broadcasting stations, for simultaneous or delayed broadcast.

(c) An aural broadcast intercity relay station is authorized to transmit aural program material between noncommercial educational FM radio stations and their co-owned noncommercial educational FM translator stations assigned to reserved channels (Channels 201 to 220) and between FM radio stations and FM translator stations operating within the coverage contour of their primary stations. This use shall not interfere with or otherwise preclude use of these broadcast auxiliary facilities by broadcast auxiliary stations transmitting aural programming between broadcast stations as provided in paragraph (b) of this section.

(d) An aural broadcast STL or intercity relay may be used to transmit material between an FM broadcast radio station and an FM booster station owned, operated, and controlled by the licensee of the originating FM radio station. This use shall not interfere with or otherwise preclude use of these broadcast auxiliary facilities by broadcast auxiliary stations transmitting aural programming between the studio and transmitter location of a broadcast station or between broadcast stations as provided in paragraphs (a) and (b) of this section.

(e) An aural broadcast microwave booster station is authorized to retransmit the signals of an aural broadcast STL or intercity relay station.

(f) Multiplexing of the STL or intercity relay transmitter may be employed to provide additional communication channels for the transmission of aural program material, news-wire

teleprinter signals relaying news to be associated with main channel programming, operational communications, and material authorized to be transmitted over an FM station under a valid Subsidiary Communications Authorization (SCA). An aural broadcast STL or intercity relay station may not be operated solely for the transmission of operational, teleprinter or subsidiary communications. Operational communications include cues, orders, and other communications directly related to the operation of the broadcast station as well as special signals used for telemetry or the control of apparatus used in conjunction with the broadcasting operations.

(g) All program material, including subsidiary communications, transmitted over an aural broadcast STL or intercity relay station shall be intended for use by broadcast stations owned or under common control of the licensee or licensees of the STL or intercity relay station. Other broadcast stations may simultaneously utilize such program material with permission of the STL or intercity relay station licensee.

(h) In any case where multiplexing, is employed on an aural broadcast STL station for the simultaneous transmission of more than one aural channel, the STL transmitter must be capable of transmitting the multiple channels within the channel on which the STL station is authorized to operate and with adequate technical quality so that each broadcast station utilizing the circuit can meet the technical performance standards stipulated in the rules governing that class of broadcasting station. If multiplex operation is employed during the regular operation of the STL station, the additional circuits shall be in operation at the time that the required periodic performance measurements are made of the overall broadcasting system from the studio microphone input circuit to the broadcast transmitter output circuit.

[28 FR 13716, Dec. 14, 1963, as amended at 45 FR 51564, Aug. 4, 1980; 52 FR 31403, Aug. 20, 1987; 55 FR 50693, Dec. 10, 1990; 57 FR 41111, Sept. 9, 1992]

§ 74.532 Licensing requirements.

(a) An aural broadcast STL or an aural broadcast intercity relay station will be licensed only to the licensee or licensees of broadcast stations, other than international broadcast stations, and for use with broadcast stations owned entirely by or under common control of the licensee or licensees. An aural broadcast intercity relay station also will be licensed for use by noncommercial educational FM translator stations assigned to reserved channels (Channels 201–220) and owned and operated by their primary station, by FM translator stations operating within the coverage contour of their primary stations, and by FM booster stations.

(b) More than one aural broadcast STL or intercity relay station may be licensed to a single licensee upon a satisfactory showing that the additional stations are needed to provide different program circuits to more than one broadcast station, to provide program circuits from other studios, or to provide one or more intermediate relay stations over a path which cannot be covered with a single station due to terrain or distance.

(c) If more than one broadcast station or class of broadcast station is to be served by a single aural broadcast auxiliary station, this information must be stated in the application for construction permit or license.

(d) Licensees of aural broadcast STL and intercity relay stations may be authorized to operate one or more aural broadcast microwave booster stations for the purpose of relaying signals over a path that cannot be covered with a single station.

NOTE: Applications for aural broadcast microwave booster stations will not be accepted for filing prior to January 1, 1985.

(e) Each aural broadcast auxiliary station will be licensed at a specified transmitter location to communicate with a specified receiving location, and the direction of the main radiation lobe of the transmitting antenna will be a term of the station authorization.

(f) In case of permanent discontinuance of operation of a station licensed under this subpart, the licensee shall forward the station license to the Federal Communications Commission,

Broadcast Auxiliary Radio Services, 1270 Fairfield Road, Gettysburg, Pennsylvania 17325 for cancellation.

[28 FR 13716, Dec. 14, 1963, as amended at 49 FR 7129, Feb. 27, 1984; 49 FR 10930, Mar. 23, 1984; 52 FR 31403, Aug. 20, 1987; 55 FR 50693, Dec. 10, 1990; 57 FR 41111, Sept. 9, 1992; 58 FR 19775, Apr. 16, 1993]

§ 74.533 Remote control and unattended operation.

(a) Aural broadcast STL and intercity relay stations may be operated by remote control provided that such operation is conducted in accordance with the conditions listed below:

(1) The remote control system must provide adequate monitoring and control functions to permit proper operation of the station.

(2) The remote control system must be designed, installed, and protected so that the transmitter can only be activated or controlled by persons authorized by the licensee.

(3) The remote control system must prevent inadvertent transmitter operation due to malfunctions in circuits between the control point and transmitter.

(b) Aural broadcast auxiliary stations may be operated unattended subject to the following provisions:

(1) The transmitter shall be provided with adequate safeguards to prevent improper operation of the equipment.

(2) The transmitter installation shall be adequately protected against tampering by unauthorized persons.

(3) Whenever an unattended aural broadcast auxiliary station is used, appropriate observations must be made at the receiving end of the circuit as often as necessary to ensure proper station operation. However, an aural broadcast STL (and any aural broadcast microwave booster station) associated with a radio or TV broadcast station operated by remote control may be observed by monitoring the broadcast station's transmitted signal at the remote control or ATS monitoring point.

(c) The FCC may notify the licensee to cease or modify operation in the case of frequency usage disputes, interference or similar situations where such action appears to be in the public interest, convenience and necessity.

(Sec. 318, 48 Stat. 1089, as amended by sec. 1, 74 Stat. 363; 47 U.S.C. 318)

[28 FR 13716, Dec. 14, 1963, as amended at 47 FR 55936, Dec. 14, 1982; 49 FR 7130, Feb. 27, 1984; 50 FR 32417, Aug. 12, 1985; 50 FR 48599, Nov. 26, 1985; 60 FR 55483, Nov. 1, 1995]

§ 74.534 Power limitations.

(a) for operation in the 944–952 MHz band:

Aural broadcast STL and intercity relay stations will be licensed with a power output not in excess of that necessary to render satisfactory service. The license for these stations will specify the maximum authorized power. The operating power shall not be greater than necessary to carry on the service and in no event more than 5 percent above the maximum power specified. Engineering standards have not been established for these stations. The efficiency factor for the last radio stage of transmitters employed will be subject to individual determination but shall be in general agreement with values normally employed for similar equipment operated within the frequency range authorized.

(b) For stations operating in bands above 17.7 GHz, the transmitter output power shall be limited to that necessary to accomplish the function of the system. Further, the output power of a transmitter on any authorized frequency shall not exceed the following:

(1)

Frequency band (GHz)	Maximum transmitter output power (watts)[1]
17.7 to 19.7	10.0
31.0 to 31.3	0.05

[1] Peak envelope power.

(2)

Frequency band (GHz)	Maximum allowable EIRP (dBW)
17.7 to 18.6	+55.0
18.6 to 18.8	+35.0
18.8 to 19.7	+35.0
31.0 to 31.3	No limit

[50 FR 4658, Feb. 10, 1985, as amended at 50 FR 7341, Feb. 22, 1985]

§ 74.535 Emission and bandwidth.

(a) For frequency modulation, the mean power of emissions shall be attenuated below the mean transmitter power (P) in accordance with the following schedule:

(1) On any frequency removed from the assigned frequency by more than 50% and up to 100% of the authorized bandwidth: at least 25 dB.

(2) On any frequency removed from the assigned frequency by more than 100% and up to 150% of the authorized bandwidth: at least 35 dB.

(3) On any frequency removed from the assigned frequency by more than 150% of the authorized bandwidth: at least 43 + 10 Log(P) dB.

(b) For all emissions except frequency modulation, the peak power of emissions shall be attenuated below the peak envelope transmitter power (P) in accordance with the following schedule:

(1) On any frequency 500 Hz inside the channel edge up to and including 2500 Hz outside the same edge, the following formula will apply:

$$\text{Attenuation} = 29\ \text{Log}\left(\frac{25}{11}\left(D + 2.5 - \frac{W}{2}\right)^2\right)\text{dB}$$

or 50 dB whichever is the lesser attenuation. Where: D is the displacement frequency (kHz) from the center of the authorized bandwidth; and W is the channel bandwidth (kHz).

(2) On any frequency removed from the channel edge by more than 2500 Hz: At least 43+10 Log (P) dB.

(c) In the event a station's emissions outside its authorized channel cause harmful interference, the Commission may require the licensee to take such further steps as may be necessary to eliminate the interference.

(d) For operation in the 18 GHz band: Aural broadcast STL, intercity relay stations and booster stations may be authorized to employ either digital or frequency modulation.

(e) For operation in the 18 GHz band: The mean power of emission shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

(1) When using frequency modulation:

(i) On any frequency removed from the assigned frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: At least 25 decibels;

(ii) On any frequency removed from the assigned frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: At least 35 decibels;

(iii) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43+10 $\log_{10}$ (mean output power in watts) decibels, or 80 decibels, whichever is the lesser attenuation.

(2) When using digital modulation:

(i) In any 1 MHz band, the center frequency of which is removed from the assigned frequency by more than 50 percent up to and including 250 percent of the authorized bandwidth: As specified by the following equation but in no event less than 11 decibels.

$$A = 11 + 0.4\ (P-50) + 10\ \log_{10} B$$

Where:

A = Attenuation (in decibels) below the mean output power level.

P = Percent removed from the carrier frequency.

B = Authorized bandwidth in MHz.

[Attenuation greater than 56 decibels is not required.]

(ii) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 $\log_{10}$ (mean output power in watts) decibels, or 80 decibels, whichever is the lesser attenuation.

(f) For operation in the 18 GHz band: When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion require greater attenuation than specified above.

(g) The following limitations apply to the operation of aural broadcast microwave booster stations:

(1) The booster station must receive and amplify the signals of the originating station and retransmit them on the same frequency without significantly altering them in any way. The characteristics of the booster transmitter output signal shall meet the requirements applicable to the signal of the originating station.

(2) The licensee is responsible for correcting any condition of interference that results from the radiation of radio frequency energy outside the assigned channel. Upon notice by the FCC to the station licensee that interference is being caused, operation of the apparatus must be immediately suspended and may not be resumed until the interference has been eliminated or it can be demonstrated that the interference is not due to spurious emissions. However, short term test transmissions may be made during the period of suspended operation to determine the efficacy of remedial measures.

(3) In each instance where suspension of operation is required, the licensee must submit a full report to the FCC after operation is resumed. The report must contain details of the nature of the interference, the source of interfering signals, and the remedial steps taken to eliminate the interference.

[28 FR 13716, Dec. 14, 1963, as amended at 48 FR 50332, Nov. 1, 1983; 49 FR 7130, Feb. 27, 1984; 49 FR 37777, Sept. 26, 1984; 50 FR 48599, Nov. 26, 1985]

§ 74.536 Directional antenna required.

(a) Aural broadcast STL and ICR stations are required to use a directional antenna with the minimum beamwidth necessary, consistent with good engineering practice, to establish the link.

(b) An aural broadcast STL or intercity relay station operating in the 17.7–19.7 GHz band shall employ an antenna that meets the performance standards for Category A, except that in areas not subject to frequency congestion, antennas meeting standards for Category B may be employed. However, the Commission may require the replacement, at the licensee's expense, of any antenna or periscope antenna system of a permanent fixed station that does not meet performance Standard A, which is specified in the table in paragraph (c) of this section, upon a showing that said antenna causes or is likely to cause interference to (or receive interference from) any other authorized or proposed station; provided that an antenna meeting performance Standard A is unlikely to involve such interference.

(c) Licensees shall comply with the antenna standards table shown in this paragraph in the following manner:

(1) With either the maximum beamwidth to 3 dB points requirement or with the minimum antenna gain requirement; and

(2) With the minimum radiation suppression to angle requirement.

ANTENNA STANDARDS

Frequency (GHz)	Category	Maximum beamwidth to 3 dB points [1] (included angle in degrees)	Minimum antenna gain (dbi)	Minimum radiation suppression to angle in degrees from centerline of main beam in decibels						
				5° to 10°	10° to 15°	15° to 20°	20° to 30°	30° to 100°	100° to 140°	140° to 180°
17.7 to 19.7	A	2.2	38	25	29	33	36	42	55	55
	B	2.2	38	20	24	28	32	35	36	36
31.0 to 31.3 [2]	n/a	[3] 4.0	38	n/a	n/a	n/a	n/a	n/a	n/a	n/a

[1] If a licensee chooses to show compliance using maximum beamwidth to 3 dB points, the beamwidth limit shall apply in both the azimuth and the elevation planes.
[2] Mobile, except aeronautical mobile, stations need not comply with these standards.
[3] The minimum front-to-back ratio shall be 38 dBi.

[48 FR 50333, Nov. 1, 1983, as amended at 49 FR 7130, Feb. 27, 1984; 50 FR 48599, Nov. 26, 1985; 51 FR 19840, June 3, 1986; 62 FR 4922, Feb. 3, 1997]

§ 74.537 Temporary authorizations.

(a) Special temporary authority may be granted for aural broadcast STL or intercity relay station operation which cannot be conducted in accordance with § 74.24. Such authority will normally be granted only for operations of a temporary nature. Where operation is seen as likely on a continuing annual basis, an application for a regular authorization should be submitted.

(b) A request for special temporary authorization for the operation of an aural broadcast STL or intercity relay station may be made by informal application which shall be filed with the FCC at least 10 days prior to the date of the proposed operation. However, an application filed within less than 10 days of the proposed operation may be accepted upon a satisfactory showing of the reasons for the delay in submitting the request.

(c) An informal request for special temporary authority requiring payment of a fee shall be addressed to the FCC at Federal Communications Commission, Broadcast Auxiliary Radio Services, P.O. Box 358700, Pittsburgh, PA 15251–5700. An informal request for special temporary authority not requiring payment of a fee shall be addressed to the FCC at Federal Communications Commission, Broadcast Auxiliary Radio Services, 1270 Fairfield Road, Gettysburg, Pennsylvania 17325. All requests must include full particulars including: licensee's name, call letters of the associated broadcast station(s), name and address of individual designated to receive the return authorization, call letters of the aural broadcast STL or intercity relay station, if assigned, type and manufacturer of equipment, power output, emission, frequency or frequencies proposed for use, commencement and termination date and location of the proposed operation, and purpose for which request is made including any particular justification.

(d) A request for special temporary authorization shall specify a frequency or frequencies consistent with the provisions of § 74.502. However, in the case of events of widespread interest and importance which cannot be transmitted successfully on these frequencies, frequencies assigned to other services may be requested upon a showing that operation thereon will not cause interference to established stations. In no case will operation of an aural broadcast STL or intercity relay station be authorized on frequencies employed for the safety of life or property.

(e) When the transmitting equipment utilized is not licensed to the user, the user shall nevertheless have full control over the use of the equipment during the period it is operated.

(f) Special temporary authorization to permit operation of aural broadcast STL or intercity relay stations or systems pending FCC action on an application for regular authority will normally not be granted.

[47 FR 9220, Mar. 4, 1982, as amended at 50 FR 23709, June 5, 1985; 58 FR 19775, Apr. 16, 1993]

§ 74.550 Equipment authorization.

Each authorization for aural broadcast STL, ICR, and booster stations shall require the use of notified or type accepted equipment. Equipment which has not been type approved under the equipment authorization program and which was in service prior to July 1, 1993, may be retained solely for temporary uses necessary to restore or maintain regular service provided by approved equipment, because the main or primary unit has failed or requires servicing. Such temporary uses may not interfere with or impede the establishment of other aural broadcast auxiliary links and may not occur during more than 720 cumulative hours per year. Should interference occur, the licensee must take all steps necessary to eliminate it, up to and including cessation of operation of the auxiliary transmitter. All unapproved equipment retained for temporary use must have been in the possession of the licensee prior to July 1, 1993, and may not be obtained from other sources. Requirements for obtaining a grant of equipment authorization are contained in subpart J of part 2 of the Rules. Equipment designed exclusively for fixed operation shall be authorized under notification procedures (see § 2.904(d) of this chapter).

NOTE: Consistent with the note to § 74.502(a), grandfathered equipment in the 942–944 MHz band and STL/ICR users of these frequencies in Puerto Rico are also required

to come into compliance by July 1, 1993. The backup provisions described above apply to these stations also.

[60 FR 14225, Mar. 16, 1995]

§ 74.551 Equipment changes.

(a) Prior Commission approval, upon appropriate application (FCC Form 313) therefor, is required for any of the following changes:

(1) A change in the ERP.

(2) A change in the operating frequency or channel bandwidth.

(3) A change in the location of the transmitter or transmitting antenna except when relocation of the transmitter is within the same building.

(4) Any change in the overall height of the antenna structure, except where notice to the Federal Aviation Administration is specifically not required under § 17.14(b) of this chapter.

(5) Any change in the direction of the main radiation lobe of the transmitting antenna.

(b) Other equipment changes not specifically referred to in this section may be made at the discretion of the licensee, provided that the FCC at Federal Communications Commission, Broadcast Auxiliary Radio Services, 1270 Fairfield Road, Gettysburg, Pennsylvania 17325 is promptly notified in writing upon the completion of such changes, and that the changes are described in the notification.

(c) Any application proposing a change in the height of the antenna structure or its location must also include the Antenna Structure Registration Number (FCC Form 854R) of the antenna structure upon which it will locate its proposed antenna. In the event the antenna structure does not have a Registration Number, either the antenna structure owner shall file FCC Form 854 (''Application for Antenna Structure Registration'') in accordance with part 17 of this chapter or the applicant shall provide a detailed explanation why registration and clearance are not necessary.

[28 FR 13716, Dec. 14, 1963, as amended at 38 FR 6827, Mar. 13, 1973; 47 FR 54448, Dec. 3, 1982; 49 FR 7130, Feb. 27, 1984; 50 FR 48599, Nov. 26, 1985; 58 FR 19775, Apr. 16, 1993; 61 FR 4368, Feb. 6, 1996]

§ 74.561 Frequency tolerance.

In the bands above 944 MHz, the operating frequency of the transmitter shall be maintained in accordance with the following table:

Frequency band (MHz)	Tolerance as percentage of assigned frequency
944 to 952	0.005
17,700 to 19,700	0.003
31,000 to 31,300	0.03

[54 FR 30043, July 18, 1989]

§ 74.562 Frequency monitors and measurements.

The licensee shall ensure that the STL, ICR, TVP, or booster transmitter does not exceed the emission limitations of § 74.535. This may be accomplished by appropriate frequency measurement techniques and consideration of the transmitter emissions.

[50 FR 48599, Nov. 26, 1985]

§ 74.564 Posting of station license.

(a) The station license and any other instrument of authorization or individual order concerning the construction of the equipment or manner of operation of the station shall be posted in the room in which the transmitter is located, provided that if the station is operated by remote control pursuant to § 74.533, the station license shall be posted at the operating position.

(b) Posting of the station license and any other instruments of authorization shall be done by affixing the licenses to the wall at the posting location, or by enclosing them in a binder or folder which is retained at the posting location so that the documents will be readily available and easily accessible.

[48 FR 24385, June 1, 1983, as amended at 60 FR 55483, Nov. 1, 1995]

§ 74.582 Station identification.

(a) Each aural broadcast STL or intercity relay station, when transmitting program material or information shall transmit station identification at the beginning and end of each period of operation, and hourly, as close to the hour as feasible, at a natural break in program offerings by one of the following means:

(1) Transmission of its own call sign by aural means or by automatic transmission of international Morse telegraphy.

(2) Aural transmission of the call sign of the radio broadcast station with which it is licensed as an STL or intercity relay station.

(3) Aural transmission of the call sign of the radio broadcast station whose signals are being relayed, or, when programs are obtained directly from network lines and relayed, the network identification.

(b) Station identification transmissions during operation need not be made when to make such transmission would interrupt a single consecutive speech, play, religious service, symphony concert, or other such productions. In such cases, the identification transmission shall be made at the first interruption of the entertainment continuity and at the conclusion thereof.

(c) Where more than one aural broadcast STL or intercity relay station is employed in an integrated relay system, the station at the point of origination may originate the transmission of the call signs of all of the stations in the relay system.

(d) Aural broadcast microwave booster stations will be assigned individual call signs. However, station identification will be accomplished by the retransmission of identification as provided in paragraph (a) of this section.

(e) Voice transmissions shall normally be employed for station identification. However, other methods of station identification may be permitted or required by the Commission.

[28 FR 13716, Dec. 14, 1963, as amended at 42 FR 36830, July 18, 1977; 42 FR 38178, July 27, 1977; 45 FR 26067, Apr. 17, 1980; 49 FR 7130, Feb. 27, 1984]

Subpart F—Television Broadcast Auxiliary Stations

§ 74.600 Eligibility for license.

A license for a station in this subpart will be issued only to a television broadcast station, a television broadcast network-entity, a low power television station, or a television translator station.

[52 FR 7142, Mar. 9, 1987]

§ 74.601 Classes of TV broadcast auxiliary stations.

(a) *TV pickup stations.* A land mobile station used for the transmission of TV program material and related communications from scenes of events occurring at points removed from TV broadcast station studios to TV broadcast or low power TV stations or other purposes as authorized in § 74.631.

(b) *TV STL station (studio-transmitter link).* A fixed station used for the transmission of TV program material and related communications from the studio to the transmitter of a TV broadcast or low power TV station or other purposes as authorized in § 74.631.

(c) *TV relay station.* A fixed station used for transmission of TV program material and related communications for use by TV broadcast and low power TV stations or other purposes as authorized in § 74.631.

(d) *TV translator relay station.* A fixed station used for relaying programs and signals of TV broadcast stations to LPTV, TV translator, and to other communications facilities that the Commission may authorize or for other purposes as permitted by § 74.631.

(e) *TV broadcast licensee.* Licensees and permittees of both TV broadcast and low power TV stations, unless specifically otherwise indicated.

(f) *TV microwave booster station.* A fixed station in the TV broadcast auxiliary service that receives and amplifies signals of a TV pickup, TV STL, TV relay, or TV translator relay station and retransmits them on the same frequency.

[47 FR 21496, May 18, 1982, as amended at 48 FR 17091, Aug. 21, 1983; 49 FR 7130, Feb. 27, 1984]

§ 74.602 Frequency assignment.

(a) The following frequencies are available for assignment to television pickup, television STL, television relay and television translator relay stations. The band segments 17,700–18,580 and 19,260–19,700 MHz are available for broadcast auxiliary stations as described in paragraph (g) of this section. Additionally, the band 38.6–40.0 GHz is available for assignment without channel bandwidth limitation to TV pickup stations on a secondary

basis to fixed stations. The band segment 6425–6525 MHz is available for broadcast auxiliary stations as described in paragraph (j) of this section. Broadcast network-entities may also use the 1990–2110, 6425–6525 and 6875–7125 MHz bands for mobile television pick-up only.

Band A MHz	Band B MHz	Band D[1] GHz			
		Group A channels		Group B channels	
		Designation	Channel boundaries	Designation	Channel boundaries
1990–2008		A01	12.700–12.725	B01	12.7125–12.7375
2008–2025		A02	12.725–12.750	B02	12.7375–12.7625
2025–2042		A03	12.750–12.775	B03	12.7265–12.7875
2042–2059		A04	12.775–12.800	B04	12.7875–12.8125
2059–2076	6875–6900	A05	12.800–12.825	B05	12.8125–12.8375
2076–2093	6900–6925	A06	12.825–12.850	B06	12.8375–12.8625
2093–2110	6925–6950	A07	12.850–12.875	B07	12.8625–12.8875
2450–2467	6950–6975	A08	12.875–12.900	B08	12.8875–12.9125
2467–2483.5	6975–7000	A09	12.900–12.925	B09	12.9125–12.9375
	7000–7025	A10	12.925–12.950	B10	12.9375–12.9625
	7025–7050	A11	12.950–12.975	B11	12.9625–12.9875
	7050–7075	A12	12.975–13.000	B12	12.9875–12.0125
	7075–7100	A13	13.000–13.025	B13	13.0125–13.0375
	7100–7125	A14	13.025–13.050	B14	13.0375–13.0625
		A15	13.050–13.075	B15	13.0625–13.0875
		A16	13.075–13.100	B16	13.0875–13.1125
		A17	13.100–13.125	B17	13.1125–13.1375
		A18	13.125–13.150	B18[2]	13.1375–13.1625
		A19[2]	13.150–13.175	B19[2]	13.1625–13.1875
		A20[2]	13.175–13.200	B20[2]	13.1875–13.2125
		A21	13.200–13.225	B21	13.2125–13.2375
		A22	13.225–13.250		

[1] For fixed stations using Band D Channels, applicants are encouraged to use alternate A and B channels such that adjacent R.F. carriers are spaced 12.5 MHz. As example, a fixed station, relaying several channels, would use A01, B01, A02, B02, A03, etc.

[2] The band 13.15–13.20 GHz is reserved exclusively for the assignment of Television Pickup and CARS Pickup stations on a co-equal basis within a 50 km radius of each of the 100 television markets delineated in Section 76.51. Fixed television auxiliary stations licensed pursuant to applications accepted for filing before Sept. 1, 1979, may continue operation on channels in the 13.15–13.20 GHz band, subject to periodic license renewals.

(1) Frequencies shown above between 2450 and 2500 MHz in Band A are allocated to accommodate the incidental radiations of industrial, scientific, and medical (ISM) equipment, and stations operating therein must accept any interference that may be caused by the operation of such equipment. Frequencies between 2450 and 2500 MHz are also shared with other communication services and exclusive channel assignments will not be made, nor is the channeling shown above necessarily that which will be employed by such other services.

(2) The following notes to the Table of Frequency Allocations contained in § 2.106 apply to the shared use of the frequency bands shown above:

NG 123 Television pickup stations may be authorized to use frequencies in the band 38.6–40 GHz on a secondary basis to stations operating in the fixed services.

US90 In the band 2025–2120 MHz earth-to-space transmissions in the space research and earth exploration satellite services by Government and non-Government stations as specific locations may be authorized subject to such conditions as may be applied on a case-by-case basis.

US111 In the band 1990–2120 MHz, Government space research earth station may be authorized to use specific frequencies at specific locations for earth-to-space transmissions. Such authorizations shall be secondary to non-Government use of this band and subject to such other conditions as may be applied on a case-by-case basis.

Corpus Christi, Tex., 27°39′ N., 097°23′ W.
Fairbanks, Alaska, 64°59′ N, 147°53′ W.
Goldstone, Calif., 35°18′ N. 116°54′ W.
Greenbelt, Md., 39°00′ N, 076°50′ W.
Guam, Mariana Islands, 13°19′ N, 144°44′ E.
Kanai, Hawaii, 22°08′ N, 159°40′ W.
Meritt Island, Fla., 28°29′ N, 080°35′ W.
Rosman, N.C., 35°12′ N, 082°52′ W.
Wallops Island, Va., 37°57′ N, 075°28′ W.

US219 In the band 2025–2110 MHz, Government Earth resources satellite Earth stations in the Earth exploration-satellite service may be authorized to use the frequency 2106.4 MHz for Earth-to-space transmissions for tracking, telemetry, and telecommand at the sites listed below. Such transmissions shall not cause harmful interference to non-Government operations.

US222 In the band 2025–2035 MHz geostationary operational environmental satellite Earth stations in the space research and Earth exploration-satellite services may be authorized on a coequal basis for Earth-to-space transmission for tracking, telemetry, and telecommand at the sites listed below:

Wallops Is., Va. 37°50′ 48″ N., 75°27′ 33″ W.
Seattle, Wash. 47°34′ 15″ N., 122°33′ 10″ W.
Honolulu, Hawaii 21°21′ 12″ N., 157°52′ 36″ W.

NG147 Stations in the broadcast auxiliary service and private radio services licensed as of July 25, 1985, or on a subsequent date following as a result of submitting an application for license on or before July 25, 1985, may continue to operate on a primary basis to the radiodetermination satellite service.

(b) Subject to the conditions of paragraph (a) of this section, frequency assignments will normally be made as requested, provided that the frequency selection provisions of § 74.604 have been followed and that the frequency requested will cause no interference to existing users in the area. The Commission reserves the right to assign frequencies other than those requested if, in its opinion, such action is warranted.

(c) Fixed link stations will be authorized to operate on one channel only.

(d) Community antenna relay stations may be assigned channels in Band D between 12,700 and 13,200 MHz subject to the condition that no harmful interference is caused to TV STL and TV relay stations authorized at the time of such grants. Similarly, new TV STL and TV relay stations must not cause harmful interference to community antenna relay stations authorized at the time of such grants. The use of channels between 12,700 and 13,200 MHz by TV pickup stations is subject to the condition that no harmful interference is caused to community antenna relay, TV STL and TV relay stations, except as provided for in § 74.602(a) Note 2. Band D channels are also shared with certain Private Operational Fixed Stations, see § 74.638.

(e) Communication common carriers in the Local Television Transmission Service (Part 21) may be assigned frequencies available to television broadcast station licensees and broadcast network entities for the purpose of providing service to television broadcast stations and broadcast network—entities, respectively.

(f) TV auxiliary stations licensed to low power TV stations and translator relay stations will be assigned on a secondary basis, i.e., subject to the condition that no harmful interference is caused to other TV auxiliary stations assigned to TV broadcast stations, or to community antenna relay stations (CARS) operating between 12,700 and 13,200 MHz. Auxiliary stations licensed to low power TV stations and translator relay stations must accept any interference caused by stations having primary use of TV auxiliary frequencies.

(g) The following frequencies are available for assignment to television STL, television relay stations and television translator relay stations. The provisions of Section 74.604 do not

apply to the use of these frequencies. These frequencies are shared on a co-equal basis with other stations in the fixed service (see Parts 21, 78 and 94). Applicants may use either a two-way link or one or both frequencies of a frequency pair for a one-way link and shall coordinate proposed operations pursuant to procedures required in § 21.100(d).

(1) 2 MHz maximum authorized bandwidth channel:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
18141.0	n/a

(2) 6 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
216 MHz Separation	
18145.0	n/a
18151.0	18367.0
18157.0	18373.0
18163.0	18379.0
18169.0	18385.0
18175.0	18391.0
18181.0	18397.0
18187.0	18403.0
18193.0	18409.0
18199.0	18415.0
18205.0	18421.0
18211.0	18427.0
18217.0	18433.0
18223.0	18439.0
18229.0	18445.0
18235.0	18451.0
18241.0	18457.0
18247.0	18463.0
18253.0	18469.0
18259.0	18475.0
18265.0	18481.0
18271.0	18487.0
18277.0	18493.0
18283.0	18499.0
18289.0	18505.0
18295.0	18511.0
18301.0	18517.0
18307.0	18523.0
18313.0	18529.0
18319.0	18535.0
18325.0	18541.0
18331.0	18547.0
18337.0	18553.0
18343.0	18559.0
18349.0	18565.0
18355.0	18571.0
18361.0	18577.0

(3) 10 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
1560 MHz Separation	
17705.0	19265.0
17715.0	19275.0
17725.0	19285.0
17735.0	19295.0
17745.0	19305.0
17755.0	19315.0
17765.0	19325.0
17775.0	19335.0
17785.0	19345.0
17795.0	19355.0
17805.0	19365.0
17815.0	19375.0
17825.0	19385.0
17835.0	19395.0
17845.0	19405.0
17855.0	19415.0
17865.0	19425.0
17875.0	19435.0
17885.0	19445.0
17895.0	19455.0
17905.0	19465.0
17915.0	19475.0
17925.0	19485.0
17935.0	19495.0
17945.0	19505.0
17955.0	19515.0
17965.0	19525.0
17975.0	19535.0
17985.0	19545.0
17995.0	19555.0
18005.0	19565.0
18015.0	19575.0
18025.0	19585.0
18035.0	19595.0
18045.0	19605.0
18055.0	19615.0
18065.0	19625.0
18075.0	19635.0
18085.0	19645.0
18095.0	19655.0
18105.0	19665.0
18115.0	19675.0
18125.0	19685.0
18135.0	19695.0

(4) 20 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
1560 MHz Separation	
17710.0	19270.0
17730.0	19290.0
17750.0	19310.0
17770.0	19330.0
17790.0	19350.0
17810.0	19370.0
17830.0	19390.0
17850.0	19410.0
17870.0	19430.0
17890.0	19450.0
17910.0	19470.0
17930.0	19490.0
17950.0	19510.0
17970.0	19530.0
17990.0	19550.0

Transmit (receive) (MHz)	Receive (transmit) (MHz)
18010.0	19570.0
18030.0	19590.0
18050.0	19610.0
18070.0	19630.0
18090.0	19650.0
18110.0	19670.0
18130.0	19690.0

(5) 40 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
1560 MHz Separation	
17720.0	19280.0
17760.0	19320.0
17800.0	19360.0
17840.0	19400.0
17880.0	19440.0
17920.0	19480.0
17960.0	19520.0
18000.0	19560.0
18040.0	19600.0
18080.0	19640.0
18120.0	19680.0

(6) 80 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
1560 MHz Separation	
17740.0	19300.0
17820.0	19380.0
17900.0	19460.0
17980.0	19540.0
18060.0	19620.0

(h) TV STL and TV relay stations may be authorized, on a secondary basis and subject to the provisions of Subpart G of this chapter, to operate fixed point-to-point service on the UHF–TV channels 14–69. These stations must not interfere with and must accept interference from current and future full-power UHF–TV stations, LPTV stations, translator stations. They will also be secondary to current land mobile stations (in areas where land mobile sharing is currently permitted and contingent on the decision reached in the pending Dockets No. 85–172 and No. 84–902).

(i) *6425 to 6525 MHz—Mobile Only*. Paired and un-paired operations permitted. Use of this spectrum for direct delivery of video programs to the general public or multi-channel cable distribution is not permitted. This band is co-equally shared with mobile stations licensed pursuant to Parts 21, 78 and 94 of the Commission's Rules. The following channel plans apply.

(1) 1 MHz maximum authorized bandwidth channels.

Transmit (or receive MHz)	Receive (or transmit) (MHz)
6425.5	6475.5
6450.5	6500.5

(2) 8 MHz maximum authorized bandwidth channels.

Transmit (or receive MHz)	Receive (or transmit) (MHz)
6430.0	6480.0
6438.0	6488.0
6446.0	6596.0
6455.0	6505.0
6463.0	6513.0
6471.0	6521.0

(3) 25 MHz maximum authorized bandwidth channels.

Transmit (or receive MHz)	Receive (or transmit (MHz)
6437.5	6487.5
6462.5	6512.5

(Secs. 4, 5, 303, 48 Stat., as amended, 1066, 1068, 1082; 47 U.S.C. 154, 155, 303)

[28 FR 13718, Dec. 14, 1963]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 74.602, see the List of CFR Sections Affected in the Finding Aids section of this volume.

§ 74.603 Sound channels.

(a) The frequencies listed in § 74.602(a) may be used for the simultaneous transmission of the picture and sound portions of TV broadcast programs and for cue and order circuits, either by means of multiplexing or by the use of a separate transmitter within the same channel. When multiplexing of a TV STL station is contemplated, consideration should be given to the requirements of § 73.687 of this Chapter regarding the overall system performance requirements. Applications for new TV pickup, TV STL, TV relay and TV translator relay stations shall clearly indicate the nature of any mutliplexing proposed. Multiplexing equipment may be installed on licensed equipment without authority of the FCC, provided the installation of such apparatus on a

TV STL station shall not result in degradation of the overall system performance of the TV broadcast station below that permitted by §73.687 of this chapter.

(b) The aural portion of television broadcast program material may be transmitted over an aural broadcast STL or intercity relay station licensed under the provisions of Subpart E of this part, but only on a secondary, non-interference basis to the programming of aural broadcast stations. A TV station licensee may continue such operation until the channel assigned to its Subpart E station is requested by an aural broadcast licensee after a showing that no other vacant channels are available or satisfactory. Upon Commission concurrence with the aural broadcast licensee request, the TV station licensee will be required to discontinue operation on the requested frequency. In areas where only a portion of the Subpart E frequencies used by TV station licensees are required by aural broadcast licensees, the Commission will assist all affected parties in arriving at an equitable solution. The provisions of this paragraph do not preclude continued use of Subpart E facilities for relay of TV sound where the facilities are authorized to an aural broadcast licensee and the primary purpose of the station is to relay aural broadcast programming.

(c) Aural STL or intercity relay stations licensed as of July 10, 1970, to operate in the frequency band 942–947 MHz, may continue to so operate pending a decision as to their disposition through a future rule making proceeding.

(d) Remote pickup broadcast stations may be used in conjunction with television pickup stations for the transmission of the aural portion of television programs or events that occur outside a television studio and for the transmission of cues, orders, and other related communications necessary thereto. The rules governing remote pickup broadcast stations are contained in Subpart D of this part.

[28 FR 13718, Dec. 14, 1963, as amended at 47 FR 55936, Dec. 14, 1982; 48 FR 24385, June 1, 1983]

§74.604 Interference avoidance.

(a) Because the Commission does not undertake frequency coordination, applicants for new TV broadcast auxiliary authorizations are responsible for selecting the frequency assignments that are least likely to result in mutual interference with other licensees in the same area. Applicants may consult local coordination committees, where they exist, for information on frequencies available in the area. In selecting frequencies, consideration should be given to the relative locations of receiving points, normal transmission paths, and the nature of the contemplated operation.

(b) Where two or more licensees are assigned a common channel for TV pickup, TV STL, or TV relay purposes in the same area and simultaneous operation is contemplated, they shall take such steps as may be necessary to avoid mutual interference, including consultation with the local coordination committee, if one exists. If a mutual agreement to this effect cannot be reached, the Commission must be notified and it will take such action as may be necessary, including time sharing arrangements, to assure an equitable distribution of available frequencies.

(c) For those interference disputes brought to the Commission for resolution, TV broadcast auxiliary channels will have the following priority for purposes of interference protection:

(1) All fixed links for full service broadcast stations and cable systems.

(2) TV and CARS pickup stations.

(3) Fixed or mobile stations serving translator or low power TV stations.

(4) Backup facilities; TV pickup stations used outside a licensee's local service area.

(5) Any transmission, pursuant to §74.631(f), that does not involve the delivery of program material to a licensee's associated TV broadcast station.

(d) Interference between two stations having the same priority shall be resolved in favor of the station licensed first on a particular path.

[48 FR 17091, Apr. 21, 1983]

§74.631 Permissible service.

(a) The licensee of a television pickup station authorizes the transmission

of program material, orders concerning such program material, and related communications necessary to the accomplishment of such transmissions, from the scenes of events occurring in places other than a television studio, to its associated television broadcast station, to such other stations as are broadcasting the same program material, or to the network or networks with which the television broadcast station is affiliated. Television pickup stations may be operated in conjunction with other television broadcast stations not aformentioned in this paragraph: *Provided*, That the transmissions by the television pickup station are under the control of the licensee of the television pickup station and that such operation shall not exceed a total of 10 days in any 30-day period. Television pickup stations may be used to provide temporary studio-transmitter links or intercity relay circuits consistent with § 74.632 without further authority of the Commission: *Provided, however*, That prior Commission authority shall be obtained if the transmitting antenna to be installed will increase the height of any natural formation or man-made structure by more than 6.1 meters (20 feet) and will be in existence for a period of more than 2 consecutive days.

NOTE: As used in this subpart, ''associated television broadcast station'' means a television broadcast station licensed to the licensee of the television auxiliary broadcast station and with which the television auxiliary station is licensed as an auxiliary facility.

(b) A television broadcast STL station is authorized to transmit visual program material between the studio and the transmitter of a television broadcast station for simultaneous or delayed broadcast.

(c) A TV relay station is authorized to transmit visual program material between TV broadcast stations for simultaneous or delayed broadcast, or may be used to transmit visual program material from a remote pickup receiver site of a single station.

(d) The transmitter of an STL, TV relay station or TV translator relay station may be multiplexed to provide additional communication channels. A TV broadcast STL or TV relay station will be authorized only in those cases where the principal use is the transmission of television broadcast program material for use by its associated TV broadcast station. However, STL or TV relay stations so licensed may be operated at any time for the transmission of multiplexed communications whether or not visual program material is being transmitted, provided that such operation does not cause harmful interference to TV broadcast pickup, STL or TV relay stations transmitting television broadcast program material.

(e) Except as provided in paragraphs (a), (d), (f) and (j) of this section, all program material transmitted over a TV pickup, STL, or TV relay station shall be used by or intended for use by a TV broadcast station owned by or under the common control of the licensee of the TV pickup, STL, or TV relay station. Program material transmitted over a TV pickup, STL or TV relay station and so used by the licensee of such facility may, with the permission of the licensee of the broadcast auxiliary facility, be used by other TV broadcast stations and by non-broadcast closed circuit educational TV systems operated by educational institutions.

(f) A TV broadcast pickup, STL, or TV relay station may be used for the transmission of material to be used by others, including but not limited to other broadcast stations, cable television systems, and educational institutions. This use shall not interfere with the use of these broadcast auxiliary facilities for the transmission of programs and associated material intended to be used by the television station or stations licensed to or under common control of the licensee of the TV pickup, STL, or TV relay station. This use of the broadcast auxiliary facilities must not cause harmful interference to broadcast auxiliary stations operating in accordance with the basic frequency allocation, and the licensee of the TV pickup, STL, or TV relay station must retain exclusive control over the operation of the facilities. Prior to operating pursuant to the provisions of this section, the licensee shall, for the intended location or area-of-operation, notify the appropriate

frequency coordinatioin committee or any licensee(s) assigned the use of the proposed operating frequency, concerning the particulars of the intended operation and must provide the name and telephone number of a person who may be contacted in the event of interference.

(g) Except as provided in paragraph (d) of this section, a television translator relay station is authorized for the purpose of relaying the programs and signals of a television broadcast station to television broadcast translator stations for simultaneous retransmission.

(h) A TV microwave booster station is authorized to retransmit the signals of a TV pickup, TV STL, TV relay, or TV translator relay station.

(i) TV broadcast auxiliary stations authorized pursuant to this subpart may additionally be authorized to supply programs and signals of TV broadcast stations to cable television systems or CARS stations. Where the licensee of a TV broadcast auxiliary station supplies programs and signals to cable television systems or CARS stations, the TV auxiliary licensee must have exclusive control over the operation of the TV auxiliary stations licensed to it. Contributions to capital and operating expenses may be accepted only on a cost-sharing, non-profit basis, prorated on an equitable basis among all parties being supplied with program material.

(j) A broadcast network-entity may use television auxiliary service stations to transmit their own television program materials to broadcast stations, other broadcast network-entities, cable systems and cable network-entities: *Provided, however,* that the bands 1990–2110 MHz, 6425–6525 MHz and 6875–7125 MHz may be used by broadcast network-entities only for television pick-up stations.

[28 FR 13718, Dec. 14, 1963, as amended at 29 FR 15524, Nov. 19, 1964; 43 FR 1950, Jan. 13, 1978; 44 FR 32381, June 6, 1979; 47 FR 55937, Dec. 14, 1982; 48 FR 17092, Apr. 21, 1983; 49 FR 7130, Feb. 27, 1984; 52 FR 7142, Mar. 9, 1987]

§ 74.632 Licensing requirements.

(a) Licenses for television pickup, television STL, television microwave booster, or television relay stations will be issued only to licensees of television broadcast stations, and broadcast network-entities and, further, on a secondary basis, to licensees of low power television stations. A separate application is required for each fixed station and the application shall be specific with regard to the frequency requested. A mobile station license may be issued for any number of mobile transmitters to operate in a specific area or frequency band and the applicant shall be specific with regard to the frequencies requested. In lieu of specifying specific transmitter types, applicants shall certify that the transmitter used or to be used at the requested facility is type accepted, or was manufactured before October 1, 1981. Applications for consolidation of individual mobile station licenses into a system license will be accepted only at the time application is made for renewal of the main (Part 73) station license.

(b) A license for a TV relay station may be issued in any case where the circuit will operate between TV broadcast stations either by means of ''off-the-air'' pickup and relay or location of the initial relay station at the studio or transmitter of a TV broadcast station.

(c) An application for construction permit for a new TV pickup station shall designate the TV broadcast station with which it is to be operated and specify the area in which the proposed operation is intended. The maximum permissible area of operation will generally be that of a standard metropolitan area, unless a special showing is made that a larger area is necessary.

(d) Licensees who have two or more TV broadcast stations located in different cities shall, in applying for a new TV pickup station, designate the TV broadcast station in conjunction with which it is to be operated principally. Operation in a city which is not the city of license of the associated TV broadcast station is on a secondary, non-interference basis to home-city users.

(e) A license for a TV translator relay station will be issued only to licensees of low power TV and TV translator stations. The application for construction permit shall designate the

television broadcast station to be relayed, the source of the television broadcast station's signals, and the television broadcast translator station with which it is to be operated. *However,* a television translator relay station license may be issued to a cooperative enterprise wholly owned by licensees of television broadcast translators or licensees of television broadcast translators and cable television owners or operators upon a showing that the applicant is qualified under the Communication Act of 1934, as amended.

(f) Licensees of TV pickup, TV STL, TV relay, and TV translator relay stations may be authorized to operate one or more TV microwave booster stations for the purpose of relaying signals over a path that cannot be covered with a single station.

NOTE: Applications for TV microwave booster stations will not be accepted for filing prior to January 1, 1985.

(g) In case of permanent discontinuance of operation of a station licensed under this subpart, the licensee shall forward the station license to the Federal Communications Commission, Broadcast Auxiliary Radio Services, 1270 Fairfield Road, Gettysburg, Pennsylvania 17325.

[28 FR 13718, Dec. 14, 1963, as amended at 44 FR 32382, June 6, 1979; 47 FR 55937, Dec. 14, 1982; 48 FR 9012, Mar. 3, 1983; 48 FR 17092, Apr. 21, 1983; 48 FR 21486, May 12, 1983; 49 FR 7130, Feb. 27, 1984; 49 FR 10930, Mar. 23, 1984; 52 FR 7142, Mar. 9, 1987; 58 FR 19775, Apr. 16, 1993]

§ 74.633 Temporary authorizations.

(a) Special temporary authority may be granted for TV broadcast auxiliary station operation which cannot be conducted in accordance with § 74.24. Such authority will normally be granted only for operations of a temporary nature. Where operation is seen as likely on a continuing annual basis, an application for a regular authorization should be submitted.

(b) A request for special temporary authority for the operation of a television broadcast auxiliary station may be made by informal application. An informal application for special temporary authority requiring payment of a fee shall be addressed to the FCC at Federal Communications Commission, Broadcast Auxiliary Radio Services, P.O. Box 358700, Pittsburgh, PA 15251–5700. An informal application for special temporary authority not requiring payment of a fee shall be addressed to the FCC at Federal Communications Commission, Broadcast Auxiliary Radio Services, 1270 Fairfield Road, Gettysburg, Pennsylvania 17325. Such applications shall be filed with the Commission at least 10 days prior to the date of the proposed operation.

(c) An application for special temporary authority shall set forth full particulars of the purpose for which the request is made, and shall show the type of equipment, power output, emission, and frequency or frequencies proposed to be used, as well as the time, date and location of the proposed operation. In the event that the proposed antenna installation will increase the height of any natural formation, or existing man-made structure, by more than 6.1 meters (20 feet), a vertical plan sketch showing the height of the structure proposed to be erected, the height above ground of any existing structure, the elevation of the site above mean sea level, and the geographic coordinates of the proposed site, shall be submitted with the application.

(d) A request for special temporary authority shall specify a channel or channels consistent with the provisions of § 74.602: *Provided,* That in the case of events of wide-spread interest and importance which cannot be transmitted successfully on these frequencies, frequencies assigned to other services may be requested upon a showing that operation thereon will not cause interference to established stations: *And provided further,* That in no case will a television auxiliary broadcast operation be authorized on frequencies employed for the safety of life and property.

(e) When the transmitting equipment utilized is not licensed to the user, the user shall nevertheless have full control over the use of the equipment during the period it is operated.

(f) Special temporary authority to permit operation of a TV auxiliary broadcast station of any class pending FCC action on an application for regular authority will not normally be granted.

(Sec. 318, 48 Stat. 1089, as amended; 47 U.S.C. 318)

[28 FR 13720, Dec. 14, 1963, as amended at 47 FR 9221, Mar. 4, 1982; 47 FR 55937, Dec. 14, 1982; 50 FR 23710, June 5, 1985; 52 FR 10570, Apr. 2, 1987; 58 FR 19775, Apr. 16, 1993]

§74.634 Remote control operation.

(a) A TV auxiliary station may be operated by remote control provided that such operation is conducted in accordance with the conditions listed below:

(1) The remote control system must be designed, installed, and protected so that the transmitter can only be activated or controlled by persons authorized by the licensee.

(2) The remote control equipment must be maintained to ensure proper operation.

(3) The remote control system must be designed to prevent inadvertent transmitter operation caused by malfunctions in the circuits between the control point and transmitter.

(b) The FCC may notify the licensee to cease or modify operation in the case of frequency usage disputes. interference or similar situations where such action appears to be in the public interest, convenience and necessity.

[28 FR 13718, Dec. 14, 1963, as amended at, 47 FR 55937, Dec. 14, 1982; 50 FR 48600, Nov. 26, 1985; 60 FR 55483, Nov. 1, 1995]

§74.635 Unattended operation.

(a) TV relay stations, TV translator relay stations, TV STL stations, and TV microwave booster stations may be operated unattended under the following conditions:

(1) The transmitter must be provided with adequate safeguards to prevent improper operation.

(2) The transmitter shall be so installed and protected that it is not accessible to other than duly authorized persons;

(3) TV relay stations, TV STL stations, TV translator relay stations, and TV microwave booster stations used with these stations, shall be observed at the receiving end of the microwave circuit as often as necessary to ensure proper station operation by a person designated by the licensee, who must institute measures sufficient to ensure prompt correction of any condition of improper operation. However, an STL station (and any TV microwave booster station) associated with a TV broadcast station operated by remote control may be observed by monitoring the TV station's transmitted signal at the remote control point. Additionally, a TV translator relay station (and any associated TV microwave booster station) may be observed by monitoring the associated TV translator station's transmitted signal.

(b) The FCC may notify the licensee to cease or modify operation in the case of frequency usage disputes, interference or similar situations where such action appears to be in the public interest, convenience and necessity.

[28 FR 13718, Dec. 14, 1963, as amended at 31 FR 15314, Dec. 7, 1966; 43 FR 1950, Jan. 13, 1978; 47 FR 55937, Dec. 14, 1982; 49 FR 7131, Feb. 27, 1984; 50 FR 32417, Aug. 12, 1985]

§74.636 Power limitations.

Transmitter peak output power shall not be greater than necessary, and in any event, shall not exceed the power listed in the table below:

Frequency band (MHz)	Maximum allowable transmitter power		Maximum allowable EIRP	
	Fixed (W)	Mobil (W)	Fixed (dBW)	Mobil (dBW)
1,990 to 2,110	20.0	12.0	.....	.....
2,450 to 2,500	20.0	12.0	.....	.....
6,425 to 6,525	.....	12.0	.....	+35
6,875 to 7,125	20.0	12.0	+55	+35
12,700 to 13,250	5.0	1.5	+55	+45
17,700 to 18,600	10.0.	.....	+55	.....
18,600 to 18,800	[1] 10.0	.....	+35	.....
18,800 to 19,700	10.0	.....	+55	.....
31,000 to 31,300	0.05	0.05	.....	.....
38,600 to 40,000	.....	1.5	.....	.....

[1] The power delivered to the antenna is limited to -3 dBW.

[45 FR 78692, Nov. 26, 1980, as amended at 52 FR 7142, Mar. 9, 1987]

§74.637 Emissions and emission limitations.

(a) For frequency modulation, the mean power of emissions shall be attenuated below the mean transmitter power (P) in accordance with the following schedule:

(1) On any frequency removed from the assigned frequency by more than 50% and up to 100% of the authorized bandwidth: at least 25 dB.

(2) On any frequency removed from the assigned frequency by more than

100% and up to 150% of the authorized bandwidth: at least 35 dB.

(3) On any frequency removed from the assigned frequency by more than 150% of the authorized bandwidth: at least 43+10 Log(P) dB.

(b) For all emissions except frequency modulation, the peak power of emissions shall be attenuated below the peak envelope transmitter power (P) in accordance with the following schedule:

(1) On any frequency 500 Hz inside the channel edge up to and including 2500 Hz outside the same edge, the following formula will apply:

$$\text{Attenuation} = 29\ \text{Log}\left(\frac{25}{11}\left(D + 2.5 - \frac{W}{2}\right)^2\right)\text{dB}$$

or 50 dB whichever is the lesser attenuation. Where: D is the displacement frequency (kHz) from the center of the authorized bandwidth; and W is the channel bandwidth (kHz).

(2) On any frequency removed from the channel edge by more than 2500 Hz: At least 43+10 Log (P) dB.

(c) For operation in the bands 6425–6525 MHz, 17,700–19,700 MHz, and 31,000–31,300 MHz: TV broadcast STL, relay and booster stations may be authorized to employ analog or digital modulation in this band. The mean power of any emission shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

(1) When using frequency modulation:

(i) On any frequency removed from the assigned (center) frequency by more than 50% up to and including 100% of the authorized bandwidth: At least 25 dB;

(ii) On any frequency removed from the assigned (center) frequency by more than 100% up to and including 250% of the authorized bandwidth: At least 35 dB;

(iii) On any frequency removed from the assigned (center) frequency by more than 250% of the authorized bandwidth: At least 43+10 log 10 (mean output power in watts) dB, or 80 dB, whichever is the lesser attenuation.

(2) When using digital modulation:

(i) In any 1 NHz band, the center frequency of which is removed from the assigned frequency by more than 50% up to and including 250% of the authorized bandwidth: As specified by the following equation but in no event less than 11 dB.

$$A = 11 + 0.4\ (P - 50) + 10\ \log_{10} B$$

where:

A=Attenuation (in dB) below the mean output power level

P=Percent removed from the carrier frequency

B=Authorized bandwidth in MHz

[Attenuation greater than 56 decibels is not required.]

(ii) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 250% of the authorized bandwidth: At least 43=10 $\log_{10}$ (mean output power in watts) dB, or 80 dB, whichever is the lesser attenuation.

(3) Amplitude Modulation.

For vestigial sideband AM video: On any frequency removed from the center frequency of the authorized band by more than 50%: at least 50 dB below peak power of the emission.

(d) In the event that interference to other stations is caused by emissions outside the authorized channel, the FCC may require greater attenuation than that specified in paragraph (b) of this section.

(e) The following limitations also apply to the operation of TV microwave booster stations:

(1) The booster station must receive and amplify the signals of the originating station and retransmit them on the same frequency without significantly altering them in any way. The characteristics of the booster transmitter output signal shall meet the requirements applicable to the signal of the originating station.

(2) The licensee is responsible for correcting any condition of interference that results from the radiation of radio

frequency energy outside the assigned channel. Upon notice by the FCC to the station licensee that interference is being caused, operation of the apparatus must be immediately suspended and may not be resumed until the interference has been eliminated or it can be demonstrated that the interference is not due to spurious emissions. However, short term test transmissions may be made during the period of suspended operation to determine the efficacy of remedial measures.

(3) In each instance where suspension of operation is required, the licensee must submit a full report to the FCC after operation is resumed. The report must contain details of the nature of the interference, the source of interfering signals, and the remedial steps taken to eliminate the interference.

(f) In the event a station's emissions outside its authorized channel cause harmful interference, the Commission may require the licensee to take such further steps as may be necessary to eliminate the interference.

(g) The maximum bandwidth which will be authorized per frequency assignment is set out in the table which follows. Regardless of the maximum authorized bandwidth specified for each frequency band, the Commission reserves the right to issue a license for less than the maximum bandwidth if it appears that less bandwidth would be sufficient to support an applicant's intended communications.

Frequency Band (MHz)	Maximum authorized bandwidth (MHz)
1,990 to 2,110	18
6,425 to 6,525	25
6,875 to 7,125	25
12,700 to 13,250	25
17,700 to 19,700	80
31,000 to 31,300	25 or 50
38,600 to 40,000	

[45 FR 78692, Nov. 26, 1980, as amended at 48 FR 50734, Nov. 3, 1983; 49 FR 7131, Feb. 27, 1984; 49 FR 37778, Sept. 26, 1984; 50 FR 7342, Feb. 22, 1985; 50 FR 34150, Aug. 23, 1985; 50 FR 48600, Nov. 26, 1985; 52 FR 7142, Mar. 9, 1987; 58 FR 51251, Oct. 1, 1993]

§74.638 Frequency coordination.

(a) Channels in Band D are shared with certain Private Operational Fixed Stations authorized under Part 94, §94.93 after September 9, 1983. After this date all Broadcast Auxiliary use of these bands is subject to coordination using the following procedure:

(1) Before filing an application for new or modified facilities under this part the applicant must perform a frequency engineering analysis to ensure that the proposed facilities will not cause interference to existing or previously applied for stations in this band of a magnitude greater than that specified below.

(2) The general criteria for determining allowable adjacent or co-channel interference protection to be afforded, regardless of system length or type of modulation, multiplexing or frequency band, shall be such that the interfering signal shall not produce more than 1.0 dB degradation of the practical threshold of the protected receiver. Degradation is determined by calculating the ratio in dB between the desired carrier signal and undesired interfering signal (C/I ratio) appearing at the input to the receiver under investigation (the victim receiver). The development of the C/I ratios from the criteria for maximum allowable interference level per exposure and the methods used to perform path calculations shall follow generally acceptable good engineering practices. Procedures as may be developed by the Electronics Industries Association (EIA), the Institute of Electrical and Electronics Engineers, Inc. (IEEE), the American National Standards Institute (ANSI) or any other recognized authority will be acceptable to the FCC.

(3) Where the development of the carrier to interference ratio (C/I) is not covered by generally acceptable procedures or where the applicant does not wish to develop the carrier to interference ratio, the applicant shall employ the following C/I protection ratios.

(i) Co-channel interference: For both sideband and carrier-beat, (applicable to all bands), the previously authorized system shall be afforded a carrier to interfering signal protection ratio of at least 90 dB.

(ii) Adjacent channel interference: The existing or previously authorized system shall be afforded a carrier to

interfering signal protection ratio of at least 56 dB.

(b) Coordination of assignments in the 6425–6525 MHz and 17.7–19.7 GHz bands will be in accordance with the procedure established in § 21.100(d) *except* that the prior coordination process for mobile (temporary fixed) assignments may be completed orally and the period allowed for response to a coordination notification may be less than 30 days if the parties agree.

[49 FR 50734, Nov. 3, 1983, as amended at 52 FR 7142, Mar. 9, 1987]

§ 74.641 Antenna systems.

(a) For fixed stations operating between 1990 MHz and 31.3 GHz and aeronautical mobile stations operating between 31.0 GHz and 31.3 GHz, the following standards apply:

(1) Fixed TV broadcast auxiliary stations shall use directional antennas that meet the performance standards indicated in the following table. Upon adequate showing of need to serve a larger sector, or more than a single sector, greater beamwidth or multiple antennas may be authorized. Applicants shall request, and authorization for stations in this service will specify, the polarization of each transmitted signal. Booster station antennas having narrower beamwidths and reduced sidelobe radiation may be required in congested areas, or to resolve interference problems.

(i) Stations must employ an antenna that meets the performance standards for Category B. In areas subject to frequency congestion, where proposed facilities would be precluded by continued use of a Category B antenna, a Category A antenna must be employed. The Commission may require the use of a high performance antenna where interference problems can be resolved by the use of such antennas.

(ii) Licensees shall comply with the antenna standards table shown in this paragraph in the following manner:

(A) With either the maximum beamwith to 3 dB points requirement or with the minimum antenna gain requirement; and

(B) With the minimum radiation suppression to angle requirement.

ANTENNA STANDARDS

Frequency (MHz)	Category	Maximum beamwidth to 3 dB points [1] (included angle in degrees)	Minimum antenna gain (dbi)	Minimum radiation suppression to angle in degrees from centerline of main beam in decibels						
				5° to 10°	10° to 15°	15° to 20°	20° to 30°	30° to 100°	100° to 140°	140° to 180°
1,990 to 2,110	A	5.0	n/a	12	18	22	25	29	33	39
	B	8.0	n/a	5	18	20	20	25	28	36
6,875 to 7,125	A	1.5	n/a	26	29	32	34	38	41	49
	B	2.0	n/a	21	25	29	32	35	39	45
12,700 to 13,250	A	1.0	n/a	23	28	35	39	41	42	50
	B	2.0	n/a	20	25	28	30	32	37	47
17,700 to 19,700	A	2.2	38	25	29	33	36	42	55	55
	B	2.2	38	20	24	28	32	35	36	36
31,000 to 31,300 [2]	n/a	[3] 4.0	38	n/a	n/a	n/a	n/a	n/a	n/a	n/a

[1] If a licensee chooses to show compliance using maximum beamwith to 3 dB points, the beamwidth limit shall apply in both the azimuth and the elevation planes.
[2] Mobile, except aeronautical mobile, stations need not comply with these standards.
[3] The minimum front-to-back ratio shall be 38 dBi.

(2) New periscope antenna systems will be authorized upon a certification that the radiation, in a horizontal plane, from an illuminating antenna and reflector combination meets or exceeds the antenna standards of this section. This provision similarly applies to passive repeaters employed to redirect or repeat the signal from a station's directional antenna system.

(3) The choice of receiving antennas is left to the discretion of the licensee. However, licensees will not be protected from interference which results from the use of antennas with poorer performance than identified in the table of this section.

(4) [Reserved]

(5) Pickup stations are not subject to the performance standards herein stated. The provisions of this paragraph are effective for all new applications accepted for filing after October 1, 1981.

(b) Any fixed station licensed pursuant to an application accepted for filing prior to October 1, 1981, may continue to use its existing antenna system, subject to periodic renewal until April 1, 1992, After April 1, 1992, all licensees are to use antenna systems in conformance with the standards of this section. TV auxiliary broadcast stations are considered to be located in an area subject to frequency congestion and must employ a Category A antenna when:

(1) A showing by an applicant of a new TV auxiliary broadcast station or Cable Television Relay Service (CARS) station, which shares the 12.7–13.20 GHz band with TV auxiliary broadcast, indicates that use of a category B antenna limits a proposed project because of interference, and

(2) That use of a category A antenna will remedy the interference thus allowing the project to be realized.

(c) As an exception to the provisions of this section, the FCC may approve requests for use of periscope antenna systems where a persuasive showing is made that no frequency conflicts exist in the area of proposed use. Such approvals shall be conditioned to a standard antenna as required in paragraph (a) of this section when an applicant of a new TV auxiliary broadcast or Cable Television Relay station indicates that the use of the existing antenna system will cause interference and the use of a category A or B antenna will remedy the interference.

(d) As a further exception to the provision of paragraph (a) of this section, the Commission may approve antenna systems not conforming to the technical standards where a persuasive showing is made that:

(1) Indicates in detail why an antenna system complying with the requirements of paragraph (a) of this section cannot be installed, and

(2) Includes a statement indicating that frequency coordination as required in §74.604 (a) was accomplished.

[45 FR 78693, Nov. 26, 1980, as amended at 49 FR 7131, Feb. 27, 1984; 49 FR 37778, Sept. 26, 1984; 50 FR 7342, Feb. 22, 1985; 51 FR 19840, June 3, 1986; 52 FR 7143, Mar. 9, 1987; 55 FR 11587, Mar. 29, 1990; 56 FR 50663, Oct. 8, 1991; 62 FR 4922, Feb. 3, 1997]

§74.643 Interference to geostationary-satellites.

These limitations are necessary to minimize the probability of harmful interference to reception in the bands 6425–6525 MHz, 6875–7075 MHz and 12.7–12.75 GHz on board geostationary space stations in the fixed-satellite service (Part 25).

(a) *6425 to 6525 and 6875 to 7075 MHz.* No directional transmitting antenna utilized by a fixed station operating in these bands shall be aimed within 2 degrees of the geostationary-satellite orbit, taking into account atmospheric refraction. However, exception may be made in unusual circumstances upon a showing that there is no reasonable alternative to the transmission path proposed. If there is no evidence that such exception would cause possible harmful interference to an authorized satellite system, said transmission path may be authorized on waiver basis where the maximum value of the equivalent isotropically radiated power (EIRP) does not exceed:

(1) +47 dBW for any antenna beam directed within 0.5 degrees of the stationary satellite orbit or

(2) +47 to +55 dBW, on a linear decibel scale (8 dB per degree) for any antenna beam directed between 0.5 degrees and 1.5 degrees of the stationary orbit.

(b) *12.7 to 12.75 GHz.* No directional transmitting antenna utilized by a fixed station operating in this band shall be aimed within 1.5 degrees of the geostationary-satellite orbit, taking into account atmospheric refraction. However, exception may be made in unusual circumstances upon a showing that there is no reasonable alternative to the transmission path proposed. If there is no evidence that such exception would cause possible harmful interference to an authorized satellite system, said transmission path may be

authorized on waiver basis where the maximum value of the equivalent isotropically radiated power (EIRP) does not exceed +45 dBW for any antenna beam directed within 1.5 degrees of the stationary satellite orbit.

(c) Methods for calculating the azimuths to be avoided may be found in: CCIR Report No. 393 (Green Books), New Delhi, 1970; in ''Radio-Relay Antenna Pointing for controlled Interference With Geostationary-Satellites'' by C. W. Lundgren and A. S. May, *Bell System Technical Journal,* Vol. 48, No. 10, pp. 3387–3422, December 1969; and in ''Geostationary Orbit Avoidance Computer Program'' by Richard G. Gould, Common Carrier Bureau Report CC–7201, FCC, Washington, DC, 1972. This latter report is available through the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22151, in printed form (PB–211 500) or source card deck (PB–211 501).

[52 FR 7143, Mar. 9, 1987]

§ 74.644 Minimum path lengths for fixed links.

(a) The distance between end points of a fixed link must equal or exceed the value set forth in the table below or the EIRP must be reduced in accordance with the equation set forth below.

Frequency band (MHz)	Minimum path length (km)
below 1,850	n/a
1,850—2,110	17
6,425—7,125	17
12,200—13,250	5
above 17,700	n/a

(b) For paths shorter than those specified in the Table, the EIRP shall not exceed the value derived from the following equation.

EIRP=30—20 log [A/B], dBW

where:

EIRP=equivalent isotropic radiated power in dBW.

A=Minimum path length from the Table for the frequency band in kilometers.

B=The actual path length in kilometers.

(c) Upon an appropriate technical showing, applicants and licensees unable to meet the minimum path length requirement may be granted an exception to these requirements.

NOTE: Links authorized prior to April 1, 1987, are excluded from this requirement, except that, effective April 1, 1992, the Commission will require compliance with the criteria where an existing link would otherwise preclude establishment of a new link.

[52 FR 7143, Mar. 9, 1987]

§ 74.651 Equipment changes.

(a) Commission authority, upon appropriate formal application (FCC Form 313) therefor, is required for any of the following equipment changes:

(1) Replacement of a specifically authorized transmitter by a transmitter that is not type accepted or notified for operation under this subpart pursuant to § 74.655(c).

(2) A change in the frequency of the operating channel or the transmitter output power.

(3) A change in the location of the TV broadcast auxiliary station transmitter or transmitting antenna authorized for use at a fixed location except when the relocation of the transmitter is within the same building.

(4) Any change in the overall height of the antenna structure, except where notice to the Federal Aviation Administration is specifically not required under § 17.14(b) of this chapter.

(5) Any change in the direction of the main radiation lobe of the transmitting antenna.

(b) Other equipment changes not specifically referred to in paragraph (a) of this section may be made at the discretion of the licensee provided that the Federal Communications Commission, Broadcast Auxiliary Radio Services, 1270 Fairfield Road, Gettysburg, Pennsylvania 17325 is promptly notified in writing upon the completion of such changes, and that the changes are described in the notification.

(c) Multiplexing equipment may be installed on any licensed TV broadcast STL, TV relay or translator relay station without authority from the Commission.

(d) Any application proposing a change in the height of the antenna or its location must also include the Antenna Structure Registration Number

(FCC Form 854R) of the antenna structure upon which it will locate its proposed antenna. In the event the antenna structure does not have a Registration Number, either the antenna structure owner shall file FCC Form 854 (''Application for Antenna Structure Registration'') in accordance with part 17 of this chapter or the applicant shall provide a detailed explanation why registration and clearance are not necessary.

[28 FR 13718, Dec. 14, 1963, as amended at 38 FR 6827, Mar. 13, 1973; 47 FR 54448, Dec. 3, 1982; 47 FR 55938, Dec. 14, 1982; 49 FR 7131, Feb. 27, 1984; 58 FR 19776, Apr. 16, 1993; 61 FR 4368, Feb. 6, 1996]

§ 74.655 Authorization of equipment.

(a) Except as provided in paragraph (b), all transmitting equipment first marketed for use under this subpart or placed into service after October 1, 1981, must be type accepted or notified, as detailed in paragraph (g) of this section. Equipment which is used at a station licensed prior to October 1, 1985, which is not type accepted or notified, as detailed in paragraph (g) of this section, may continue to be used by the licensee or its successors or assignees, provided that if operation of such equipment causes harmful interference due to its failure to comply with the technical standards set forth in this subpart, the FCC may, at its discretion, require the licensee to take such corrective action as is necessary to eliminate the interference. However, such equipment may *not* be further marketed or reused under Part 74 after October 1, 1985. Transmitters designed for use in the 31.0 to 31.3 GHz band shall be authorized under the notification procedure.

(b) Type acceptance or notification is not required for transmitters used in conjunction with TV pickup stations operating with a peak output power not greater than 250 mW. Pickup stations operating in excess of 250 mW licensed pursuant to applications accepted for filing prior to October 1, 1980 may continue operation subject to periodic renewal. If operation of such equipment causes harmful interference the FCC may, at its discretion, require the licensee to take such corrective action as is necessary to eliminate the interference.

(c) The license of a TV auxiliary station may replace transmitting equipment with type accepted or notified equipment, as detailed under paragraph (g) of this section, without prior FCC approval, provided the proposed changes will not depart from any of the terms of the station or system authorization or the Commission's technical rules governing this service, and also provided that any changes made to type accepted or modified transmitting equipment is in compliance with the provisions of Part 2 of the FCC Rules concerning modifications to authorized equipment.

(d) Any manufacturer of a transmitter to be used in this service may apply for type acceptance or notification following the procedures set forth in Part 2 of the FCC Rules.

(e) An applicant for a TV broadcast auxiliary station may also apply for type acceptance or notification, as specified in paragraph (f) of this section, for an individual transmitter by following the procedures set forth in Subpart J of Part 2 of the FCC Rules and Regulations. Individual transmitters which are authorized will not normally be included in the FCC's Radio Equipment List.

(f) As of March 5, 1984, transmitters designed to be used exclusively for a TV STL station, a TV intercity relay station, a TV translator relay station, or a TV microwave booster station, shall be authorized under the notification procedure. All other transmitters will be authorized under the type acceptance procedure. Transmitters authorized under type acceptance are acceptable for use in all TV broadcast auxiliary stations (see § 2.904(d) of this chapter).

[49 FR 4000, Feb. 1, 1984, as amended at 49 FR 7131, Feb. 27, 1984; 49 FR 8253, Mar. 6, 1984; 49 FR 20504, May 15, 1984; 50 FR 7343, Feb. 22, 1985; 50 FR 32417, Aug. 12, 1985; 51 FR 26251, July 22, 1986]

§ 74.661 Frequency tolerance.

Stations in this service shall maintain the carrier frequency of each authorized transmitter to within the following percentage of the assigned frequency.

Frequency band (MHz)	Frequency Tolerance	
	Fixed (%)	Mobile (%)
1,990 to 2,110	[2] 0.005	0.005
6,425 to 6,525	.....	0.005
6,875 to 7,125	[2] 0.005	0.005
12,700 to 13,250	[2] 0.005	0.005
17,700 to 18,820	0.003	.....
18,920 to 19,700	0.003	.....
31,000 to 31,300	0.03	0.03
38,600 to 40,000	[1] 0.005	[1] 0.005

[1] For transmitters with an output power of 50 mW or less, the frequency tolerance need only be 0.05%

[2] Television translator relay stations shall maintain a frequency tolerance of 0.002%.

[52 FR 7143, Mar. 9, 1987]

§ 74.662 Frequency monitors and measurements.

The licensee of a television broadcast auxiliary station must provide means for measuring the operating frequency in order to ensure that the emissions are confined to the authorized channel.

[48 FR 38482, Aug. 24, 1983]

§ 74.663 Modulation limits.

If amplitude modulation is employed, negative modulation peaks shall not exceed 100%.

[45 FR 78694, Nov. 26, 1980]

§ 74.664 Posting of station license.

(a) The station license and any other instrument of authorization or individual order concerning the construction of the equipment or manner of operation of the station shall be posted in the room in which the transmitter is located.

(b) Posting of the station license and any other instruments of authorization shall be done by affixing the license to the wall at the posting location, or by enclosing it in a binder or folder which is retained at the posting location so that the document will be readily available and easily accessible.

[28 FR 13718, Dec. 14, 1963, as amended at 48 FR 24385, June 1, 1983; 49 FR 29070, July 18, 1984; 50 FR 40015, Oct. 1, 1985]

§ 74.682 Station identification.

(a) Each television broadcast auxiliary station operating with a transmitter output power of 1 watt or more must, when actually transmitting programs, transmit station identification at the beginning and end of each period of operation, and hourly, as close to the hour as feasible, at a natural break in program offerings by one of the following means:

(1) Transmission of its own call sign by visual or aural means or by automatic transmission in international Morse telegraphy.

(2) Visual or aural transmission of the call sign of the TV broadcast station with which it is licensed as an auxiliary.

(3) Visual or aural transmission of the call sign of the TV broadcast station whose signals are being relayed or, where programs are obtained directly from network lines and relayed, the network identification.

(b) Identification transmissions during operation need not be made when to make such transmission would interrupt a single consecutive speech, play, religious service, symphony concert, or any type of production. In such cases, the identification transmission shall be made at the first interruption of the entertainment continuity and at the conclusion thereof.

(c) During occasions when a television pickup station is being used to deliver program material for network distribution it may transmit the network identification in lieu of its own or associated TV station call sign during the actual program pickup. However, if it is providing the network feed through its own associated TV broadcast station it shall perform the station identification required by paragraph (a) of this section at the beginning and end of each period of operation.

(d) A period of operation is defined as a single uninterrupted transmission or a series of intermittent transmissions from a single location or continuous or intermittent transmission from a television pickup station covering a single event from various locations, within a single broadcast day.

(e) Regardless of the method used for station identification it shall be performed in a manner conducive to prompt association of the signal source with the responsible licensee. In exercising the discretion provided by this rule, licensees are expected to act in a

responsible manner to assure that result.

(f) TV microwave boosters stations will be assigned individual call signs. However, station identification will be accomplished by the retransmission of identification as provided in paragraph (a) of this section.

[31 FR 15488, Dec. 8, 1966; 32 FR 452, Jan. 17, 1967, as amended at 42 FR 36830, July 18, 1977; 43 FR 1951, Jan. 13, 1978; 44 FR 36041, June 20, 1979; 49 FR 7131, Feb. 27, 1984]

Subpart G—Low Power TV, TV Translator, and TV Booster Stations

§74.701 Definitions.

(a) *Television broadcast translator station.* A station in the broadcast service operated for the purpose of retransmitting the programs and signals of a television broadcast station, without significantly altering any characteristic of the original signal other than its frequency and amplitude, for the purpose of providing television reception to the general public.

(b) *Primary station.* The analog television broadcast station (TV broadcast) or digital television station (DTV) which provides the programs and signals being retransmitted by a television broadcast translator station.

(c) *VHF translator.* A television broacast translator station operating on a VHF television broadcast channel.

(d) *UHF translator.* A television broadcast translator station operating on a UHF television broadcast channel.

(e) *UHF translator signal booster.* A station in the broadcasting service operated for the sole purpose of retransmitting the signals of the UHF translator station by amplifying and reradiating such signals which have been received directly through space, without significantly altering any characteristic of the incoming signal other than its amplitude.

(f) *Low power TV station.* A station authorized under the provisions of this subpart that may retransmit the programs and signals of a TV broadcast station and that may originate programming in any amount greater than 30 seconds per hour and/or operates a subscription service. (See §73.641 of part 73 of this chapter.)

(g) *Program origination.* For purposes of this part, program origination shall be any transmissions other than the simultaneous retransmission of the programs and signals of a TV broadcast station. Origination shall include locally generated television program signals and program signals obtained via video recordings (tapes and discs), microwave, common carrier circuits, or other sources.

(h) *Local origination.* Program origination if the parameters of the program source signal, as it reaches the transmitter site, are under the control of the low power TV station licensee. Transmission of TV program signals generated at the transmitter site constitutes local origination. Local origination also includes transmission of programs reaching the transmitter site via TV STL stations, but does not include transmission of signals obtained from either terrestrial or satellite microwave feeds or low power TV stations.

(i) *Television broadcast booster station.* A station in the broadcast service operated by the licensee or permittee of a full service television broadcast station for the purpose of retransmitting the programs and signals of such primary station without significantly altering any characteristic of the original signal other than its amplitude. A television broadcast booster station may only be located such that its entire service area is located within the protected contour of the primary station it retransmits. For purposes of this paragraph, the service area of the booster and the protected contour of the primary station will be determined by the methods prescribed in §74.705(c).

[28 FR 13722, Dec. 14, 1963, as amended at 43 FR 1951, Jan. 13, 1978; 47 FR 21497, May 18, 1982; 48 FR 21486, May 12, 1983; 52 FR 7422, Mar. 11, 1987; 52 FR 31403, Aug. 20, 1987; 62 FR 26720, May 14, 1997]

§74.702 Channel assignments.

(a) An applicant for a new low power TV or TV translator station or for changes in the facilities of an authorized station shall endeavor to select a channel on which its operation is not likely to cause interference. The applications must be specific with regard to

the channel requested. Only one channel will be assigned to each station.

(1) Any one of the 12 standard VHF Channels (2 to 13 inclusive) may be assigned to a VHF low power TV or TV translator station. Channels 5 and 6 assigned in Alaska shall not cause harmful interference to and must accept interference from non-Government fixed operation authorized prior to January 1, 1982.

(2) Any one of the UHF Channels from 14 to 69, inclusive, may be assigned to a UHF low power TV or TV translator station. In accordance with § 73.603(c) of part 73, Channel 37 will not be assigned to such stations.

(3) Application for new low power TV or TV translator stations or for changes in existing stations, specifying operation above 806 MHz will not be accepted for filing. License renewals for existing TV translator stations operating on channels 70 (806–812 MHz) through 83 (884–890 MHz) will be granted only on a secondary basis to land mobile radio operations.

(b) Changes in the TV Table of Allotments or Digital Television Table of Allotments (§§ 73.606(b) and 73.622(a), respectively, of part 73 of this chapter), authorizations to construct new TV broadcast analog or DTV stations or to authorizations to change facilities of existing such stations, may be made without regard to existing or proposed low power TV or TV translator stations. Where such a change results in a low power TV or TV translator station causing actual interference to reception of the TV broadcast analog or DTV station, the licensee or permittee of the low power TV or TV translator station shall eliminate the interference or file an application for a change in channel assignment pursuant to § 73.3572 of this chapter.

(c) A television broadcast booster station will be authorized on the channel assigned to its primary station.

[47 FR 21497, May 18, 1982, as amended at 47 FR 30068, July 12, 1982; 47 FR 35590, Aug. 18, 1982; 52 FR 7423, Mar. 11, 1987; 52 FR 31403, Aug. 20, 1987; 62 FR 26721, May 14, 1997]

§ 74.703 Interference.

(a) An application for a new low power TV, TV translator, or TV booster station or for a change in the facilities of such an authorized station will not be granted when it is apparent that interference will be caused. Except where there is a written agreement between the affected parties to accept interference, or where it can be shown that interference will not occur due to terrain shielding and/or Longley-Rice terrain dependent propagation methods, the licensee of a new low power TV, TV translator, or TV booster shall protect existing low power TV and TV translator stations from interference within the protected contour defined in § 74.707. Such written agreement shall accompany the application. Guidance on using the Longley-Rice methodology is provided in *OET Bulletin No. 69.* Copies of *OET Bulletin No. 69* may be inspected during normal business hours at the: Federal Communications Commission, 1919 M St., N.W., Dockets Branch (Room 239), Washington, DC 20554. This document is also available through the Internet on the *FCC Home Page* at http://www.fcc.gov.

(b) It shall be the responsibility of the licensee of a low power TV, TV translator, or TV booster station to correct at its expense any condition of interference to the direct reception of the signal of any other TV broadcast analog station and DTV station operating on the same channel as that used by the low power TV, TV translator, or TV booster station or an adjacent channel which occurs as a result of the operation of the low power TV, TV translator, or TV booster station. Interference will be considered to occur whenever reception of a regularly used signal is impaired by the signals radiated by the low power TV, TV translator, or TV booster station, regardless of the quality of the reception or the strength of the signal so used. If the interference cannot be promptly eliminated by the application of suitable techniques, operation of the offending low power TV, TV translator, or TV booster station shall be suspended and shall not be resumed until the interference has been eliminated. If the complainant refuses to permit the low Power TV, TV translator, or TV booster station to apply remedial techniques that demonstrably will eliminate the interference without impairment of the original reception, the licensee of the

low power TV, TV translator, or TV booster station is absolved of further responsibility. TV booster stations will be exempt from the provisions of this paragraph to the extent that they may cause limited interference to their primary stations' signal subject to the conditions of paragraph (g) of this section.

(c) It shall be the responsibility of the licensee of a low power TV, TV translator, or TV booster station to correct any condition of interference which results from the radiation of radio frequency energy outside its assigned channel. Upon notice by the FCC to the station licensee or operator that such interference is caused by spurious emissions of the station, operation of the station shall be immediately suspended and not resumed until the interference has been eliminated. However, short test transmissions may be made during the period of suspended operation to check the efficacy of remedial measures.

(d) When a low power TV or TV translator station causes interference to a CATV system by radiations within its assigned channel at the cable headend or on the output channel of any system converter located at a receiver, the earlier user, whether cable system or low power TV or TV translator station, will be given priority on the channel, and the later user will be responsible for correction of the interference. When a low power TV or TV translator station causes interference to an MDS of ITFS system by radiations within its assigned channel on the output channel of any system converter located at a receiver, the earlier user, whether MDS system or low power TV or TV translator station, will be given priority on the channel, and the later user will be responsible for correction of the interference.

(e) Low power TV and TV translator stations are being authorized on a secondary basis to existing land mobile uses and must correct whatever interference they cause to land mobile stations or cease operation.

(f) In each instance where suspension of operation is required, the licensee shall submit a full report to the FCC in Washington, DC, after operation is resumed, containing details of the nature of the interference, the source of the interfering signals, and the remedial steps taken to eliminate the interference.

(g) A TV booster station may not disrupt the existing service of its primary station nor may it cause interference to the signal provided by the primary station within the principal community to be served.

[47 FR 21497, May 18, 1982, as amended at 48 FR 21487, May 12, 1983; 52 FR 31403, Aug. 20, 1987; 53 FR 4169, Feb. 12, 1988; 60 FR 55483, Nov. 1, 1995; 62 FR 26721, May 14, 1997]

§74.705 TV broadcast analog station protection.

(a) The TV broadcast station protected contour will be its Grade B contour signal level as defined in §73.683 and calculated from the authorized maximum radiated power (without depression angle correction), the horizontal radiation pattern, height above average terrain in the pertinent direction, and the appropriate chart from §73.699.

(b)(1) An application to construct a new low power TV or TV translator station or change the facilities of an existing station will not be accepted if it specifies a site which is within the protected contour of a co-channel or first adjacent channel TV broadast station.

(2) Due to the frequency spacing which exists between TV Channels 4 and 5, between Channels 6 and 7, and between Channels 13 and 14, adjacent channel protection standards shall not be applicable to these pairs of channels. (See §73.603(a) of part 73 of this chapter.)

(3) A UHF low power TV or TV translator construction permit application will not be accepted if it specifies a site within the UHF TV broadcast station's protected contour and proposes operation on a channel either 14 or 15 channels above the channel in use by the TV broadcast station.

(4) A UHF low power TV or TV translator construction permit application will not be accepted if it specifies a site less than 100 kilometers from the transmitter site of a UHF TV broadcast analog station operating on a channel which is the seventh channel above the requested channel, unless it

can demonstrate that the service area of the low power TV or TV translator station as established in § 74.707(a) is not located in an area where the TV broadcast analog station is regularly viewed.

(5) An application for a new UHF low power TV or TV translator construction permit, a change of channel, or a major change in facilities pursuant to § 73.3572 of this chapter proposing a maximum effective radiated power of more than 50 kilowatts will not be accepted if it specifies a site less than 32 kilometers from the transmitter site of a UHF TV broadcast analog station operating on a channel which is the second, third, or fourth channel above or below the requested channel.

(c) The low power TV, TV translator, or TV booster station field strength is calculated from the proposed effective radiated power (ERP) and the antenna height above average terrain (HAAT) in pertinent directions.

(1) For co-channel protection, the field strength is calculated using Figure 9a, 10a, or 10c of § 73.699 (F(50,10) charts) of Part 73 of this chapter.

(2) For low power TV, TV translator, and TV boosters that do not specify the same channel as the TV broadcast station to be protected, the field strength is calculated using Figure 9, 10, or 10b of § 73.699 (F(50,50) charts) of Part 73 of this chapter.

(d) A low power TV, TV translator, or TV booster station application will not be accepted if the ratio in dB of its field strength to that of the TV broadcast station at the protected contour fails to meet the following:

(1) −45 dB for co-channel operations without offset carrier frequency operation or −28 dB for offset carrier frequency operation. An application requesting offset carrier frequency operation must include the following:

(i) A requested offset designation (zero, plus, or minus) identifying the proposed direction of the 10 kHz offset from the standard carrier frequencies of the requested channel. If the offset designation is not different from that of the station being protected, the −45 dB ratio must be used.

(ii) A description of the means by which the low power TV, TV translator, or TV booster station will be maintained within the tolerances specified in § 74.761 for offset operation.

(2) 6 dB when the protected TV broadcast station operates on a VHF channel that is one channel above the requested channel.

(3) 12 dB when the protected TV broadcast station operates on a VHF channel that is one channel below the requested channel.

(4) 15 dB when the protected TV broadcast station operates on a UHF channel that is one channel above or below the requested channel.

(5) 23 dB when the protected TV broadcast station operates on a UHF channel that is fourteen channels below the requested channel.

(6) 6 dB when the protected TV broadcast station operates a UHF channel that is fifteen channels below the requested channel.

(e) In support of a request for waiver of the interference protection rules, an applicant for a low power TV, TV translator or TV booster may make full use of terrain shielding and Longley-Rice terrain dependent propagation prediction methods to demonstrate that the proposed facility would not be likely to cause interference to TV broadcast stations. Guidance on using the Longley-Rice methodology is provided in *OET Bulletin No. 69.* Copies of *OET Bulletin No. 69* may be inspected during normal business hours at the: Federal Communications Commission, 1919 M St., NW., Dockets Branch (Room 239), Washington, DC 20554. This document is also available through the Internet on the *FCC Home Page* at http://www.fcc.gov.

[47 FR 21497, May 18, 1982, as amended at 48 FR 21487, May 12, 1983; 52 FR 31403, Aug. 20, 1987; 62 FR 26721, May 14, 1997]

§ 74.706 Digital TV (DTV) station protection.

(a) For purposes of this section, the DTV station protected service area is the geographic-area in which the field strength of the station's signal exceeds the noise-limited service levels specified in § 73.622(e) of this chapter. The extremity of this area (noise-limited perimeter) is calculated from the authorized maximum radiated power (without depression angle correction), the horizontal radiation pattern, and

height above average terrain in the pertinent direction, using the signal propagation method specified in §73.625(b) of this chapter.

(b)(1) An application to construct a new low power TV or TV translator station or change the facilities of an existing station will not be accepted if it specifies a site which is located within the noise-limited service perimeter of a co-channel DTV station.

(2) Due to the frequency spacing which exists between TV channels 4 and 5, between Channels 6 and 7, and between Channels 13 and 14, adjacent channel protection standards shall not be applicable to these pairs of channels.

(c) The low power TV, TV translator or TV booster station field strength is calculated from the proposed effective radiated power (ERP) and the antenna height above average terrain (HAAT) in pertinent directions.

(1) For co-channel protection, the field strength is calculated using Figure 9a, 10a, or 10c of §73.699 (F(50,10) charts) of part 73 of this chapter.

(2) For adjacent channel protection, the field strength is calculated using Figure 9, 10, or 10b of §73.699 (F(50,50) charts) of part 73 of this chapter.

(d) A low power TV, TV translator or TV booster station application will not be accepted if the ratio in dB of its field strength to that of the DTV station fails to meet the following:

(1) −21 dB for co-channel operations at the noise-limited perimeter of the DTV station.

(2) +48 dB for adjacent channel operations at:

(i) The DTV noise-limited perimeter if a low power TV, TV translator or TV booster station is located outside that perimeter.

(ii) At all points within the DTV noise-limited area if a low power TV or TV translator is located within the DTV noise-limited perimeter, as demonstrated by the applicant.

[62 FR 26721, May 14, 1997]

§74.707 Low power TV and TV translator station protection.

(a)(1) A low power TV or TV translator will be protected from interference from other low power TV or TV translator stations, or TV booster stations within the following predicted contours:

(i) 62 dBu for stations on Channels 2 through 6;

(ii) 68 dBu for stations on Channels 7 through 13; and

(iii) 74 dBu for stations on Channels 14 through 69.

Existing licensees and permittees that did not furnish sufficient data required to calculate the above contours by April 15, 1983 are assigned protected contours having the following radii:

Up to 0.001 kW VHF/UHF—1 mile (1.6 km) from transmitter site

Up to 0.01 kW VHF; up to 0.1 k/W UHF—2 miles (3.2 km) from transmitter site

Up to 0.1 kW VHF; up to 1 kW UHF—4 miles (6.4 km) from transmitter site

New applicants must submit the required information; they cannot rely on this table.

(2) The low power TV or TV translator station protected contour is calculated from the authorized effective radiated power and antenna height above average terrain, using Figure 9, 10, or 10b of §73.699 (F(50,50) charts) of Part 73 of this chapter.

(b)(1) An application to construct a new low power TV, TV translator, or TV booster station or change the facilities of an existing station will not be accepted if it specifies a site which is within the protected contour of a co-channel or first adjacent channel low power TV, TV translator, or TV booster station, except that a TV booster station may be located within the protected contour of its co-channel primary station.

(2) Due to the frequency spacing which exists between TV Channels 4 and 5, between Channels 6 and 7, and between Channels 13 and 14, adjacent channel protection standards shall not be applicable to these pairs of channels. (See §73.603(a) of Part 73 of this chapter.)

(3) A UHF low power TV, TV translator, or TV booster construction permit application will not be accepted if it specifies a site within the UHF low power TV, TV translator, or TV booster station's protected contour and proposes operation on a channel that is 15 channels above the channel in use by the low power TV, TV translator, or TV booster station.

(c) The low power TV, TV translator, or TV booster construction permit application field strength is calculated from the proposed effective radiated power (ERP) and the antenna above average terrain (HAAT) in pertinent directions.

(1) For co-channel protection, the field strength is calculated using Figure 9a, 10a, or 10c of § 73.699 (F(50,10) charts) of Part 73 of this chapter.

(2) For low power TV, TV translator, or TV booster applications that do not specify the same channel as the low power TV, TV translator, or TV booster station to be protected, the field strength is calculated using Figure 9, 10, or 10b of § 73.699 (F(50,50) charts) of Part 73 of this chapter.

(d) A low power TV, TV translator, or TV booster station application will not be accepted if the ratio in dB of its field strength to that of the authorized low power TV, TV translator, or TV booster station at its protected contour fails to meet the following:

(1) −45 dB for co-channel operations without offset carrier frequency operation or −28 dB for offset carrier frequency operation. An application requesting offset carrier frequency operation must include the following:

(i) A requested offset designation (zero, plus, or minus) identifying the proposed direction of the 10 kHz offset from the standard carrier frequencies of the requested channel. If the offset designation is not different from that of the station being protected, or if the station being protected is not maintaining its frequencies within the tolerance specified in § 74.761 for offset operation, the −45 dB ratio must be used.

(ii) A description of the means by which the low power TV, TV translator, or TV booster station's frequencies will be maintained within the tolerances specified in § 74.761 for offset operation.

(2) 6 dB when the protected low power TV or TV translator station operates on a VHF channel that is one channel above the requested channel.

(3) 12 dB when the protected low power TV or TV translator station operates on a VHF channel that is one channel below the requested channel.

(4) 15 dB when the protected low power TV or TV translator station operates on a UHF channel that is one channel above or below the requested channel.

(5) 6 dB when the protected low power TV or TV translator station operates on a UHF channel that is fifteen channels below the requested channel.

(e) In support of a request for waiver of the interference protection rules, an applicant for a low power TV or TV translator station may make full use of terrain shielding and Longley-Rice terrain dependent propagation prediction methods to demonstrate that the proposed facility would not be likely to cause interference to low power TV, TV translator and TV booster stations. Guidance on using the Longley-Rice methodology is provided in *OET Bulletin No. 69.* Copies of *OET Bulletin No. 69* may be inspected during normal business hours at the: Federal Communications Commission, 1919 M St., NW., Dockets Branch (Room 239), Washington, DC 20554. This document is also available through the Internet on the *FCC Home Page* at http://www.fcc.gov.

[47 FR 21498, May 18, 1982, as amended at 47 FR 35990, Aug. 18, 1982; 48 FR 21487, May 12, 1983; 52 FR 31403, Aug. 20, 1987; 62 FR 26722, May 14, 1997]

§ 74.709 Land mobile station protection.

(a) Stations in the Land Mobile Radio Service, using the following channels in the indicated cities will be protected from interference caused by low power TV or TV translator stations, and low power TV and TV translator stations must accept any interference from stations in the land mobile service operating on the following channels:

City	Channels	Coordinates	
		Latitude	Longitude
Boston, MA	14, 16	42°21′24″	071°03′24″
Chicago, IL	14, 15	41°52′28″	087°38′22″
Cleveland, OH	14, 15	41°29′51″	081°41′50″
Dallas, TX	16	32°47′09″	096°47′37″
Detroit, MI	15, 16	42°19′48″	083°02′57″
Houston, TX	17	29°45′26″	095°21′37″
Los Angeles, CA	14, 20	34°03′15″	118°14′28″
Miami, FL	14	25°46′37″	080°11′32″
New York, NY	14, 15	40°45′06″	073°59′39″

City	Channels	Coordinates	
		Latitude	Longitude
Philadelphia, PA	19, 20	39°56′58″	075°09′21″
Pittsburgh, PA	14, 18	40°26′19″	080°00′00″
San Francisco, CA	16, 17	37°46′39″	122°24′40″
Washington, DC	17, 18	38°53′51″	077°00′33″

(b) The protected contours for the land mobile radio service are 130 kilometers from the above coordinates, except where limited by the following:

(1) If the land mobile channel is the same as the channel in the following list, the land mobile protected contour excludes the area within 145 kilometers of the corresponding coordinates from list below. Except if the land mobile channel is 15 in New York or Cleveland or 16 in Detroit, the land mobile protected contour excludes the area within 95 kilometers of the corresponding coordinates from the list below.

(2) If the land mobile channel is one channel above or below the channel in the following list, the land mobile protected contour excludes the area within 95 kilometers of the corresponding coordinates from the list below.

City	Channel	Coordinates	
		Latitude	Longitude
San Diego, CA	15	32°41′48″	116°56′10″
Waterbury, CT	20	41°31′02″	073°01′00″
Washington, DC	14	38°57′17″	077°00′17″
Washington, DC	20	38°57′49″	077°06′18″
Champaign, IL	15	40°04′11″	087°54′45″
Jacksonville, IL	14	39°45′52″	090°30′29″
Ft. Wayne, IN	15	41°05′35″	085°10′42″
South Bend, IN	16	41°36′20″	086°12′44″
Salisbury, MD	16	38°24′15″	075°34′45″
Mt. Pleasant, MI	14	43°34′24″	084°46′21″
Hanover, NH	15	43°42′30″	072°09′16″
Canton, OH	17	40°51′04″	081°16′37″
Cleveland, OH	19	41°21′19″	081°44′24″
Oxford, OH	14	39°30′26″	084°44′09″
Zanesville, OH	18	39°55′42″	081°59′06″
Elmira-Corning, NY	18	42°06′20″	076°52′17″
Harrisburg, PA	21	40°20′44″	076°52′09″
Johnstown, PA	19	40°19′47″	078°53′45″
Lancaster, PA	15	40°15′45″	076°27′49″
Philadelphia, PA	17	40°02′30″	075°14′24″
Pittsburgh, PA	16	40°26′46″	079°57′51″
Scranton, PA	16	41°10′58″	075°52′21″
Parkersburg, WV	15	39°20′50″	081°33′56″
Madison, WI	15	43°03′01″	089°29′15″

(c) A low power TV or TV translator station application will not be accepted if it specifies a site that is within the protected contour of a co-channel or first adjacent channel land mobile assignment.

(d) The low power TV or TV translator station field strength is calculated from the proposed effective radiated power (ERP) and the antenna height above average terrain (HAAT) in pertinent directions.

(1) The field strength is calculated using Figure 10c of § 73.699 (F(50, 10) charts) of Part 73 of this chapter.

(2) A low power TV or TV translator station application will not be accepted if it specifies the same channel as one of the land mobile assignments and its field strength at the land mobile protected contour exceeds 52 dBu.

(3) A low power TV or TV translator station application will not be accepted if it specifies a channel that is one channel above or below one of the land mobile assignments and its field strength at the land mobile protected contour exceeds 76 dBu.

(e) To protect stations in the Offshore Radio Service, a low power TV or TV translator station construction permit application will not be accepted if it specifies operation on channels 15, 16, 17 or 18 in the following areas. West Longitude and North Latitude are abbreviated as W.L. and N.L. respectively.

(1) On Channel 15: west of 92°00′ W.L.; east of 98°30′ W.L.; and south of a line extending due west from 30°30′ N.L., 92°00′ W.L. to 30°30′ N.L., 96°00′ W.L.; and then due southwest to 28°00′ N.L., 98°30′ W.L.

(2) On Channel 16: west of 86°40′W.L.; east of 96°30′W.L.; and south of a line extending due west from 31°00′N.L., 86°40′W.L. to 31°00′N.L., 95°00′W.L. and then due southwest to 29°30′N.L., 96°30′W.L.

(3) On Channel 17: west of 86°30′W.L.; east of 96°00′W.L.; and south of a line extending due west from 31°00′N.L., 86°30′W.L. to 31°30′N.L., 94°00′W.L. and then due southwest to 29°30′N.L., 96°00′W.L.

(4) On Channel 18: west of 87°00′W.L.; east of 95°00′W.L.; and south of 31°00′N.L.

[47 FR 21499, May 18, 1982, as amended at 50 FR 12027, Mar. 27, 1985; 50 FR 33942, Aug. 22, 1985]

§ 74.731 Purpose and permissible service.

(a) Television broadcast translator stations and television broadcast booster stations provide a means whereby the signals of television broadcast stations may be retransmitted to areas in which direct reception of such television broadcast stations is unsatisfactory due to distance or intervening terrain barriers.

(b) Except as provided in paragraph (f) of this section, a television broadcast translator station or television broadcast booster station may be used only to receive the signals of a television broadcast station, another television broadcast translator station, a television translator relay station, a television intercity relay station, a television STL station, or other suitable source such as a CARS or common carrier microwave station, for the simultaneous retransmission of the programs and signals of a television broadcast station. Such retransmissions may be accomplished by either:

(1) Reception of the television programs and signals of a television broadcast station directly through space, conversion to a different channel by simple heterodyne frequency conversion and suitable amplification; or,

(2) Modulation and amplification of a video and audio feed, in which case modulating equipment meeting the requirements of § 74.750(d) shall be used.

(c) The transmissions of each television broadcast translator station shall be intended for direct reception by the general public and any other use shall be incidental thereto. A television broadcast translator station shall not be operated solely for the purpose of relaying signals to one or more fixed receiving points for retransmission, distribution, or further relaying.

(d) The technical characteristics of the retransmitted signals shall not be deliberately altered so as to hinder reception on conventional television broadcast receivers.

(e) A television broadcast translator station shall not deliberately retransmit the signals of any station other than the station it is authorized by license to retransmit. Precautions shall be taken to avoid unintentional retransmission of such other signals.

(f) A locally generated radio frequency signal similar to that of a TV broadcast station and modulated with visual and aural information may be connected to the input terminals of a television broadcast translator or low power station for the purposes of transmitting still photographs, slides and voice announcements. The radio frequency signals shall be on the same channel as the normally used off-the-air signal being rebroadcast. When transmitting originations concerning financial support or public service announcements, connection of the locally generated signals shall be made automatically either by means of a time switch or upon receipt of a control signal from the TV station being rebroadcast designed to actuate the switching circuit. The switching circuit will be so designed that the input circuit will be returned to the off-the-air signal within 30 seconds. The connection for emergency transmissions may be made manually. The apparatus used to generate the local signal which is used to modulate the translator or low power station must be capable of producing a visual or aural signal or both which will provide acceptable reception on television receivers designed for the transmission standards employed by TV broadcast stations. The visual and aural materials so transmitted shall be limited to emergency warnings of imminent danger, to local public service announcements and to seeking or acknowledging financial support deemed necessary to the continued operation of the station. Accordingly, the originations concerning financial support and PSAs are limited to 30 seconds each, no more than once per hour. Acknowledgements of financial support may include identification of the contributors, the size and nature of the contribution and advertising messages of contributors. Emergency transmissions shall be no longer or more frequent than necessary to protect life and property.

(g) Low power TV stations may operate under the following modes of service:

(1) As a TV translator station, subject to the requirements of this part;

(2) For origination of programming and commercial matter as defined in §74.701(f);

(3) For the transmission of subscription television broadcast (STV) programs, intended to be received in intelligible form by members of the public for a fee or charge subject to the provisions of §§73.642(e) and 73.644.

(h) A low power TV station may not be operated solely for the purpose of relaying signals to one or more fixed receiving points for retransmission, distribution or relaying.

(i) Low power TV stations are subject to no minimum required hours of operation and may operate in any of the 3 modes described in paragraph (g) of this section for any number of hours.

(j) Television broadcast booster stations provide a means whereby the licensee of a television broadcast station may provide service to areas of low signal strength in any region within the primary station's Grade B contour. The booster station may not be located outside the predicted Grade B of its primary station nor may the predicted Grade B signal of the television booster station extend beyond the predicted Grade B contour of the primary station. A television broadcast booster station is authorized to retransmit only the signals of its primary station; it shall not retransmit the signals of any other stations nor make independent transmissions. However, locally generated signals may be used to excite the booster apparatus for the purpose of conducting tests and measurements essential to the proper installation and maintenance of the apparatus.

(k) The transmissions of a television broadcast booster station shall be intended for direct reception by the general public. Such stations will not be permitted to establish a point-to-point television relay system.

[28 FR 13722, Dec. 14, 1963, as amended at 43 FR 1951, Jan. 13, 1978; 47 FR 21499, May 18, 1982; 47 FR 40172, Sept. 13, 1982; 48 FR 21487, May 12, 1983; 52 FR 31404, Aug. 20, 1987]

§74.732 Eligibility and licensing requirements.

(a) A license for a low power TV or TV translator station may be issued to any qualified individual, organized group of individuals, broadcast station licensee, or local civil governmental body.

(b) More than one low power TV or TV translator station may be licensed to the same applicant whether or not such stations serve substantially the same area. Low power TV and TV translator stations are not counted for purposes of §73.3555, concerning multiple ownership.

(c) Only one channel will be assigned to each low power TV or TV translator station. Additional low power or translator stations may be authorized to provide additional reception. A separate application is required for each station and each application must be complete in all respects.

(d) The FCC will not act on applications for new low power TV or TV translator stations, for changes in facilities of existing stations, or for changes in output channel tendered by displaced stations pursuant to §73.3572(a)(1), when such changes will result in a major change until the applicable time for filing a petition to deny has passed pursuant to §73.3584(c).

(e) A proposal to change the primary TV station being retransmitted or an application of a licensed translator station to include low power TV station operation, i.e., program origination or subscription service will be subject only to a notification requirement.

(f) Applications for transfer of ownership or control of a low power TV or TV translator station will be subject to petitions to deny.

(g) A television broadcast booster station will be authorized only to the licensee or permittee of the television station whose signals the booster will rebroadcast, to areas within the Grade B contour of the primary station.

(h) No numerical limit is placed on the number of booster stations that may be licensed to a single licensee. A separate license is required for each television broadcast booster station.

[47 FR 21499, May 18, 1982, as amended at 48 FR 21487, May 12, 1983; 49 FR 20504, May 15, 1984; 52 FR 7423, Mar. 11, 1987; 52 FR 10571, Apr. 2, 1987; 52 FR 31404, Aug. 20, 1987]

§74.733 UHF translator signal boosters.

(a) The licensee of a UHF television broadcast translator station may be

authorized to operate one or more signal boosters for the purpose of providing reception to small shadowed areas within the area intended to be served by the translator.

(b) The transmitting apparatus shall consist of a simple linear radio frequency amplifier, with one or more amplifying stages, which is capable of receiving, amplifying, and retransmitting the signals of the parent translator without significantly altering any electrical characteristic of the received signal other than its amplitude. The maximum power input to the plate of the final radio frequency amplifier shall not exceed 5 watts.

(c) The amplifier shall be equipped with suitable circuits which will automatically cause it to cease radiating if no signal is being received from the parent translator station. Care shall be taken in the design of the apparatus to insure that out-of-band radiation is not excessive and that adequate isolation is maintained between the input and output circuits to prevent unstable operation.

(d) The installation of the apparatus and its associated receiving and transmitting antennas shall be in accordance with accepted principles of good engineering practice. Either horizontal, vertical, or circular polarization of the electric field of the radiated signal may be employed. If the isolation between the input and output circuits depends in part upon the polarization or directive properties of the transmitting and receiving antennas, the installation shall be sufficiently rugged to withstand the normal hazards of the environment.

(e) The operation of a UHF translator signal booster is subject to the condition that no harmful interference is caused to the reception of any station, broadcast or non-broadcast, other than the parent translator. The licensee of the UHF translator signal booster is expected to use reasonable diligence to minimize interference to the direct reception of the parent translator station.

(f) UHF translator signal boosters may be operated unattended. Repairs and adjustments shall be made by a qualified person. The required qualifications are set forth in § 74.750 (g) and (h).

(g) An individual call sign will not be assigned to a UHF translator booster station. The retransmission of the call sign of the parent translator will serve as station identification.

(h) Applications for authority to construct and operate a UHF translator signal booster shall be submitted on FCC Form 346A. No construction of facilities or installation of apparatus at the proposed transmitter site shall be made until a construction permit therefor has been issued by the Commission.

(i) The provisions of § 74.765 concerning posting of station license shall apply to a UHF translator signal booster except that the parent UHF translator call sign, followed by the word ''Booster'', shall be displayed at the signal booster site.

(j) The provisions of §§ 74.767 and 74.781 concerning marking and lighting of antenna structures and station records, respectively, apply to UHF translator signal boosters.

NOTE: Effective July 11, 1975, no new UHF signal boosters will be authorized. Licensees of such existing boosters may make application for renewal of license or change in facilities on the applicable FCC forms for Television Broadcast Translator Stations (Form 346, for construction permits; 347, for license to cover construction permit; and 303-S, for renewal of license). Report and Order, Docket No. 20372. May 28, 1975.

[28 FR 13722, Dec. 14, 1963, as amended at 40 FR 25022, June 12, 1975; 59 FR 63052, Dec. 7, 1994]

§ 74.734 Attended and unattended operation.

(a) Low power TV, TV translator, and TV booster stations may be operated without a designated person in attendance if the following requirements are met:

(1) If the transmitter site cannot be promptly reached at all hours and in all seasons, means shall be provided so that the transmitting apparatus can be turned on and off at will from a point that readily is accessible at all hours and in all seasons.

(2) The transmitter also shall be equipped with suitable automatic circuits that will place it in a nonradiating condition in the absence of a signal on the input channel or circuit.

(3) The transmitting and the ON/OFF control, if at a location other than the transmitter site, shall be adequately protected against tampering by unauthorized persons.

(4) The FCC shall be supplied with the name, address, and telephone number of a person or persons who may be called to secure suspension of operation of the transmitter promptly should such action be deemed necessary by the FCC. Such information shall be kept current by the licensee.

(5) In cases where the antenna and supporting structure are considered to be a hazard to air navigation and are required to be painted and lighted under the provisions of part 17 of the Rules, the licensee shall make suitable arrangements for the daily observations, when required, and lighting equipment inspections required by §§17.37 and 17.38 of the FCC rules.

(b) An application for authority to construct a new low power TV station (when rebroadcasting the programs of another station) or TV translator station or to make changes in the facilities of an authorized station, and that proposes unattended operation, shall include an adequate showing as to the manner of compliance with this section.

[47 FR 21500, May 18, 1982, as amended at 48 FR 21487, May 12, 1983; 60 FR 55483, Nov. 1, 1995]

§74.735 Power limitations.

(a) The maximum peak effective radiated power (ERP) of an analog low power TV, TV translator, or TV booster station shall not exceed:

(1) 3 kW for VHF channels 2–13; and

(2) 150 kW for UHF channels 14–69.

(b) The maximum ERP of a digital low power TV, TV translator, or TV booster station (average power) shall not exceed:

(1) 300 watts for VHF channels 2–13; and

(2) 15 kW for UHF channels 14–69.

(c) The limits in paragraphs (a) and (b) apply separately to the effective radiated powers that may be obtained by the use of horizontally or vertically polarized transmitting antennas, providing the applicable provisions of §§74.705, 74.706, 74.707 and 74.709 are met. For either omnidirectional or directional antennas, where the ERP values of the vertically and horizontally polarized components are not of equal strength, the ERP limits shall apply to the polarization with the larger ERP. Applications proposing the use of directional antenna systems must be accompanied by the following:

(1) Complete description of the proposed antenna system, including the manufacturer and model number of the proposed directional antenna. It is *not* acceptable to label the antenna with only a generic term such as ''Yagi'' or ''Dipole''. A specific model number must be provided. In the case of individually designed antennas with no model number, or in the case of a composite antenna composed of two or more individual antennas, the antenna should be described as a ''custom'' or ''composite'' antenna, as appropriate. A full description of the design of the antenna should also be submitted.

(2) Relative field horizontal plane pattern (horizontal polarization only) of the proposed directional antenna. A value of 1.0 should be used for the maximum radiation. The plot of the pattern should be oriented so that 0° corresponds to the maximum radiation of the directional antenna or, alternatively in the case of a symmetrical pattern, to the line of symmetry. The 0° on the plot should be referenced to the actual azimuth with respect to true North.

(3) A tabulation of the relative field pattern required in paragraph (c)(2), of this section. The tabulation should use the same zero degree reference as the plotted pattern, and be tabulated at least every 10°. In addition, tabulated values of all maximas and minimas, with their corresponding azimuths, should be submitted.

(4) All horizontal plane patterns must be plotted to the largest scale possible on unglazed letter-size polar coordinate paper (main engraving approximately 18 cm x 25 cm (7 inches x 10 inches)) using only scale divisions and subdivisions of 1, 2, 2.5 or 5 times 10-nth. Values of field strength on any

pattern less than 10% of the maximum field strength plotted on that pattern must be shown on an enlarged scale.

(5) The horizontal plane patterns that are required are the patterns for the complete directional antenna system. In the case of a composite antenna composed of two or more individual antennas, this means that the patterns for the composite antenna composed of two or more individual antennas, not the patterns for each of the individual antennas, must be submitted.

[30 FR 8847, July 14, 1965, as amended at 41 FR 28267, July 9, 1976; 47 FR 21500, May 18, 1982; 48 FR 21487, May 12, 1983; 52 FR 7423, Mar. 11, 1987; 52 FR 31404, Aug. 20, 1987; 58 FR 44951, Aug. 25, 1993; 62 FR 26722, May 14, 1997]

§ 74.736 Emissions and bandwidth.

(a) The license of a low power TV, TV translator, or TV booster station authorizes the transmission of the visual signal by amplitude modulation (A5) and the accompanying aural signal by frequency modulation (F3).

(b) Standard width television channels will be assigned and the transmitting apparatus shall be operated so as to limit spurious emissions to the lowest practicable value. Any emissions including intermodulation products and radio frequency harmonics which are not essential for the transmission of the desired picture and sound information shall be considered to be spurious emissions.

(c) Any emissions appearing on frequencies more than 3 MHz above or below the upper and lower edges, respectively, of the assigned channel shall be attenuated no less than:

(1) 30 dB for transmitters rated at no more than 1 watt power output.

(2) 50 dB for transmitters rated at more than 1 watt power output.

(3) 60 dB for transmitters rated at more than 100 watts power output.

(d) Greater attenuation than that specified in paragraph (c) of this section may be required if interference results from emissions outside the assigned channel.

[28 FR 13722, Dec. 14, 1963, as amended at 33 FR 8677, June 13, 1968; 36 FR 19592, Oct. 8, 1971; 47 FR 21500, May 18, 1982; 52 FR 31404, Aug. 20, 1987]

§ 74.737 Antenna location.

(a) An applicant for a new low power TV, TV translator, or TV booster station or for a change in the facilities of an authorized station shall endeavor to select a site that will provide a line-of-sight transmission path to the entire area intended to be served and at which there is available a suitable signal from the primary station, if any, that will be retransmitted.

(b) The transmitting antenna should be placed above growing vegetation and trees lying in the direction of the area intended to be served, to minimize the possibility of signal absorption by foliage.

(c) A site within 8 kilometers of the area intended to be served is to be preferred if the conditions in paragraph (a) of this section can be met.

(d) Consideration should be given to the accessibility of the site at all seasons of the year and to the availability of facilities for the maintenance and operation of the transmitting equipment.

(e) The transmitting antenna should be located as near as is practical to the transmitter to avoid the use of long transmission lines and the associated power losses.

(f) Consideration should be given to the existence of strong radio frequency fields from other transmitters at the site of the transmitting equipment and the possibility that such fields may result in the retransmissions of signals originating on frequencies other than that of the primary station being rebroadcast.

[47 FR 21500, May 18, 1982, as amended at 52 FR 31404, Aug. 20, 1987]

§ 74.750 Transmission system facilities.

(a) A low power TV, TV translator, or TV booster station shall operate with a transmitter that is either type accepted for licensing under the provisions of this subpart or type notified for use under part 73 of this chapter.

(b) Transmitting antennas, antennas used to receive the signals to be rebroadcast, and transmission lines are not type accepted by the FCC. External preamplifiers also may be used provided that they do not cause improper

operation of the transmitting equipment, and use of such preamplifiers is not necessary to meet the provisions of paragraph (c) of this section.

(c) The following requirements must be met before low power TV and TV translator transmitters will be type accepted by the FCC:

(1) The equipment shall be so designed that the electrical characteristics of a standard television signal introduced into the input terminals will be maintained at the output. The overall response of the apparatus within its assigned channel, when operating at its rated power output and measured at the output terminals, shall provide a smooth curve, varying within limits separated by no more than 4 dB: *Provided, however,* That means may be provided to reduce the amplitude of the aural carrier below those limits, if necessary to prevent intermodulation which would mar the quality of the retransmitted picture or result in emissions outside of the assigned channel.

(2) Radio frequency harmonics of the visual and aural carriers, measured at the output terminals of the transmitter, shall be attenuated no less than 60 dB below the peak visual output power within the assigned channel. All other emissions appearing on frequencies more than 3 megacycles above or below the upper and lower edges, respectively, of the assigned channel shall be attenuated no less than:

(i) 30 dB for transmitters rated at no more than 1 watt power output.

(ii) 50 dB for transmitters rated at more than 1 watt power output.

(iii) 60 dB for transmitters rated at more than 100 watts power output.

(3) When subjected to variations in ambient temperature between minus 30 degrees and plus 50 degrees Centigrade and variations in power main voltage between 85 percent and 115 percent of rated power supply voltage, the local oscillator frequency stability shall maintain the operating frequency within:

(i) 0.02 percent of its rated frequency for transmitters rated at no more than 100 watts peak visual power.

(ii) 0.002 percent of the rated frequency for transmitters rated at more than 100 watts peak visual power.

(iii) Plus or minus 1 kHz of its rated frequency for transmitters to be used at stations employing offset carrier frequency operation.

(4) The apparatus shall contain automatic circuits which will maintain the peak visual power output constant within 2 dB when the strength of the input signal is varied over a range of 30 dB and which will not permit the peak visual power output to exceed the maximum rated power output under any condition. If a manual adjustment is provided to compensate for different average signal strengths, provision shall be made for determining the proper setting for the control, and if improper adjustment of the control could result in improper operation, a label shall be affixed at the adjustment control bearing a suitable warning.

(5) The apparatus must be equipped with automatic controls that will place it in a non-radiating condition when no signal is being received on the input channel, either due to absence of a transmitted signal or failure of the receiving portion of the facilities used for rebroadcasting the signal of another station. The automatic control may include a time delay feature to prevent interruptions caused by fading or other momentary failures of the incoming signal.

(6) The tube or tubes employed in the final radio frequency amplifier shall be of the appropriate power rating to provide the rated power output of the translator. The normal operating constants for operation at the rated power output shall be specified. The apparatus shall be equipped with suitable meters or meter jacks so that appropriate voltage and current measurements may be made while the apparatus is in operation.

(7) The transmitters of over 0.001 kW peak visual power (0.002 kW when circularly polarized antennas are used) shall be equipped with an automatic keying device that will transmit the call sign of the station, in International Morse Code, at least once each hour during the time the station is in operation when operating in the translator mode retransmitting the programming of a TV broadcast station. However, the identification by Morse Code is not required if the licensee of

the low power TV or TV translator station has an agreement with the TV broadcast station being rebroadcast to transmit aurally or visually the low power TV or TV translator station call as provided for in § 74.783. Transmission of the call sign can be accomplished by:

(i) Frequency shift keying; the aural and visual carrier shift shall not be less than 5 kHz or greater than 25 kHz.

(ii) Amplitude modulation of the aural carrier of at least 30% modulation. The audio frequency tone used shall not be within 200 hertz of the Emergency Broadcast System Attention Signal alerting frequencies.

(8) Wiring, shielding, and construction shall be in accordance with accepted principles of good engineering practice.

(d) Low power TV, TV translator and transmitting equipment using a modulation process for either program origination or rebroadcasting TV booster transmitting equipment using a modulation process must meet the following requirements:

(1) The equipment shall meet the requirements of paragraphs (a)(1) and (b)(3) of § 73.687.

(2) The stability of the equipment shall be sufficient to maintain the operating frequency of the aural carrier to 4.5 MHz±1kHz above the visual carrier when subjected to variations in ambient temperature between 30° and +50° centigrade and variations in power main voltage between 85 and 115 percent of rated power supply voltage.

(e) Type acceptance will be granted only upon a satisfactory showing that the apparatus is capable of meeting the requirements of paragraphs (c) and (d) of this section. The following procedures shall apply:

(1) Any manufacturer of apparatus intended for use at low power TV, TV translator, or TV booster stations may request type acceptance by following the procedures set forth in part 2, subpart J, of this chapter. Equipment found to be acceptable by the FCC will be listed in the ''Radio Equipment List'' published by the FCC. These lists are available for inspection at the FCC headquarters in Washington, DC or at any of its field offices.

(2) Low power TV, TV translator, and TV booster transmitting apparatus that has been type accepted by the FCC will normally be authorized without additional measurements from the applicant or licensee.

(3) Applications for type acceptance of modulators to be used with existing type accepted TV translator apparatus must include the specifications electrical and mechanical interconnecting requirements for the apparatus with which it is designed to be used.

(4) Other rules concerning type acceptance, including information regarding withdrawal of type acceptance, modification of type accepted equipment and limitations on the findings upon which type acceptance is based, are set forth in part 2, subpart J, of this chapter.

(f) The transmitting antenna system may be designed to produce horizontal, vertical, or circular polarization.

(g) Low power TV, TV translator, or TV booster stations installing new type accepted transmitting apparatus incorporating modulating equipment need not make equipment performance measurements and shall so indicate on the station license application. Stations adding new or replacing modulating equipment in existing low power TV, TV translator, or TV booster station transmitting apparatus must have a qualified person examine the transmitting system after installation. This person must certify in the application for the station license that the transmitting equipment meets the requirements of paragraph (d)(1) of this section. A report of the methods, measurements, and results must be kept in the station records. However, stations installing modulating equipment solely for the limited local origination of signals permitted by § 74.731 need not comply with the requirements of this paragraph.

[28 FR 13722, Dec. 14, 1963, as amended at 33 FR 8677, June 13, 1968; 36 FR 19592, Oct. 8, 1971; 37 FR 25844, Dec. 5, 1972; 41 FR 17552, Apr. 27, 1976; 43 FR 1951, Jan. 13, 1978; 46 FR 35465, July 8, 1981; 47 FR 21500, May 18, 1982; 47 FR 30496, July 14, 1982; 52 FR 31404, Aug. 20, 1987; 60 FR 55483, Nov. 1, 1995; 62 FR 26722, May 14, 1997]

§ 74.751 Modification of transmission systems.

(a) No change, either mechanical or electrical, may be made in apparatus

which has been type accepted by the Commission without prior authority of the Commission. If such prior authority has been given to the manufacturer of type accepted equipment, the manufacturer may issue instructions for such changes citing its authority. In such cases, individual licensees are not required to secure prior Commission approval but shall notify the Commission when such changes are completed.

(b) Formal application (FCC Form 346) is required for any of the following changes:

(1) Replacement of the transmitter as a whole, except replacement with a transmitter of identical power rating which has been type accepted by the FCC for use by low power TV, TV translator, and TV booster stations, or any change which could result in a change in the electrical characteristics or performance of the station.

(2) Any change in the transmitting antenna system, including the direction of radiation, directive antenna pattern, antenna gain, transmission line loss characteristics, or height of antenna center of radiation.

(3) Any change in the overall height of the antenna structure, except where notice to the Federal Aviation Administration is specifically not required under §17.14(b) of this chapter.

(4) Any horizontal change of the location of the antenna structure which would (i) be in excess of 152.4 meters (500 feet), or (ii) require notice to the Federal Aviation Administration pursuant to §17.7 of the FCC's Rules.

(5) A change in frequency assignment.

(6) Any changes in the location of the transmitter except within the same building or upon the same pole or tower.

(7) A change of authorized operating power.

(c) Other equipment changes not specifically referred to in paragraphs (a) and (b) of this section may be made at the discretion of the licensee, provided that the FCC in Washington, DC notified in writing upon completion of such changes.

(d) Upon installation of new or replacement transmitting equipment for which prior FCC authority is not required under the provisions of this section, the licensee must place in the station records a certification that the new installation complies in all respects with the technical requirements of this part and the station authorization.

[28 FR 13722, Dec. 14, 1963, as amended at 38 FR 6827, Mar. 13, 1973; 39 FR 38652, Nov. 1, 1974; 45 FR 26067, Apr. 17, 1980; 47 FR 21501, May 18, 1982; 48 FR 41423, Sept. 15, 1983; 50 FR 23710, June 5, 1985; 52 FR 31405, Aug. 20, 1987]

§74.761 Frequency tolerance.

The licensee of a low power TV, TV translator, or TV booster station shall maintain the transmitter output frequencies as set forth below. The frequency tolerance of stations using direct frequency conversion of a received signal and not engaging in offset carrier operation as set forth in paragraph (d) of this section will be referenced to the authorized plus or minus 10 kHz offset, if any, of the primary station.

(a) The visual carrier shall be maintained to within 0.02 percent of the assigned visual carrier frequency for transmitters rated at not more than 100 watts peak visual power.

(b) The visual carrier shall be maintained to within 0.002 percent of the assigned visual carrier frequency for transmitters rated at more than 100 watts peak visual power.

(c) The aural carrier of stations employing modulating equipment shall be maintained at 4.5 MHz ± 1 kHz above the visual carrier frequency.

(d) The visual carrier shall be maintained to within 1 kHz of the assigned channel carrier frequency if the low power TV, TV translator, or TV booster station is authorized with a specified offset designation in order to provide protection under the provisions of §74.705 or §74.707.

[43 FR 1952, Jan. 13, 1978, as amended at 52 FR 31405, Aug. 20, 1987]

§74.762 Frequency measurements.

(a) The licensee of a low power TV station, a TV translator, or a TV booster station must measure the carrier frequencies of its output channel as often as necessary to ensure operation within the specified tolerances, and at least once each calendar year at intervals not exceeding 14 months.

(b) In the event that a low power TV, TV translator, or TV booster station is found to be operating beyond the frequency tolerance prescribed in § 74.761, the licensee promptly shall suspend operation of the transmitter and shall not resume operation until transmitter has been restored to its assigned frequencies. Adjustment of the frequency determining circuits of the transmitter shall be made only by a qualified person in accordance with § 74.750(g).

[52 FR 31405, Aug. 20, 1987]

§ 74.763 Time of operation.

(a) A low power TV, TV translator, or TV booster station is not required to adhere to any regular schedule of operation. However, the licensee of a TV translator or TV booster station is expected to provide service to the extent that such is within its control and to avoid unwarranted interruptions in the service provided.

(b) In the event that causes beyond the control of the low power TV or TV translator station licensee make it impossible to continue operating, the station may discontinue operation for a period of not more than 30 days without further authority from the FCC. Notification must be sent to the FCC in Washington, DC not later than the 10th day of discontinued operation. During such period, the licensee shall continue to adhere to the requirements in the station license pertaining to the lighting of antenna structures. In the event normal operation is restored prior to the expiration of the 30 days period, the licensee will so notify the FCC of this date in writing. If the causes beyond the control of the licensee make it impossible to comply within the allowed period, informal written request shall be made to the FCC no later than the 30th day for such additional time as may be deemed necessary.

(c) Failure of a low power TV, TV translator, or TV booster station to operate for a period of 30 days or more, except for causes beyond the control of the licensee, shall be deemed evidence of discontinuation of operation and the license of the station may be cancelled at the discretion of the FCC. Furthermore, the station's license will expire as a matter of law, without regard to any causes beyond control of the licensee, if the station fails to transmit broadcast signals for any consecutive 12-month period, notwithstanding any provision, term, or condition of the license to the contrary.

(d) A television broadcast translator station shall not be permitted to radiate during extended periods when signals of the primary station are not being retransmitted.

[28 FR 13722, Dec. 14, 1963, as amended at 52 FR 7423, Mar. 11, 1987; 52 FR 31405, Aug. 20, 1987; 61 FR 28768, June 6, 1996]

§ 74.765 Posting of station and operator licenses.

(a) The station license and any other instrument of authorization or individual order concerning the construction of the station or manner of operation shall be kept in the station record file so as to be available for inspection upon request of authorized representatives of the FCC.

(b) The call sign of the station, together with the name, address, and telephone number of the licensee or local representative of the licensee, if the licensee does not reside in the community served by the station, and the name and address of the person and place where the station records are maintained, shall be displayed at the transmitter site on the structure supporting the transmitting antenna, so as to be visible to a person standing on the ground. The display shall be maintained in legible condition by the licensee.

[47 FR 21502, May 18, 1982, as amended at 52 FR 7423, Mar. 11, 1987; 60 FR 55483, Nov. 1, 1995]

§ 74.769 Copies of rules.

The licensee or permittee of a station authorized under this subpart shall have a current copy of Volume I and Volume III of the Commission's Rules. Each such licensee or permittee shall be familiar with those rules relating to stations authorized under this subpart. Copies of the Commission's rules may be obtained from the Superintendent of Documents, Government Printing Office, Washington, DC 20402.

[60 FR 55483, Nov. 1, 1995]

§74.780 Broadcast regulations applicable to translators, low power, and booster stations.

The following rules are applicable to TV translator, low power TV, and TV booster stations:

Section 73.653—Operation of TV aural and visual transmitters.

Section 73.658—Affiliation agreements and network program practices; territorial exclusivity in non-network program arrangements.

Part 73, Subpart G—Emergency Broadcast System (for low power TV stations locally originating programming as defined by §74.701(h)).

Section 73.1201—Station identification (for low power TV stations locally originating programming as defined by §74.701(h)).

Section 73.1206—Broadcast of telephone conversations.

Section 73.1207—Rebroadcasts.

Section 73.1208—Broadcast of taped, filmed or recorded material.

Section 73.1211—Broadcast of lottery information.

Section 73.1212—Sponsorship identifications; list retention, related requirements.

Section 73.1216—Licensee conducted contests.

Section 73.1510—Experimental authorizations.

Section 73.1515—Special field test authorizations.

Section 73.1615—Operation during modifications of facilities.

Section 73.1635—Special temporary authorizations (STA).

Section 73.1650—International broadcasting agreements.

Section 73.1680—Emergency antennas.

Section 73.1692—Construction near or installations on an AM broadcast tower.

Section 73.1940—Broadcasts by candidates for public office.

Section 73.2080—Equal employment opportunities (for low power TV stations only).

Section 73.3500—Application and report forms.

Section 73.3511—Applications required.

Section 73.3512—Where to file; number of copies.

Section 73.3513—Signing of applications.

Section 73.3514—Content of applications.

Section 73.3516—Specification of facilities.

Section 73.3517—Contingent applications.

Section 73.3518—Inconsistent or conflicting applications.

Section 73.3519—Repetitious applications.

Section 73.3521—Mutually exclusive applications for low power TV and TV translator stations.

Section 73.3522—Amendment of applications.

Section 73.3525—Agreements for removing application conflicts.

Section 73.3533—Application for construction permit or modification of construction permit.

Section 73.3534—Application for extension of construction permit or for construction permit to replace expired construction permit.

Section 73.3536—Application for license to cover construction permit.

Section 73.3538 (a)(1)(3)(4), (b)(2)—Application to make changes in existing station.

Section 73.3539—Application for renewal of license.

Section 73.3540—Application for voluntary assignment of transfer of control.

Section 73.3541—Application for involuntary assignment or transfer of control.

Section 73.3542—Application for emergency authorization.

Section 73.3544—Application to obtain a modified station license.

Section 73.3545—Application for permit to deliver programs to foreign stations.

Section 73.3550—Requests for new or modified call sign assignments.

Section 73.3561—Staff consideration of applications requiring Commission action.

Section 73.3562—Staff consideration of applications not requiring action by the Commission.

Section 73.3564—Acceptance of applications.

Section 73.3566—Defective applications.

Section 73.3568—Dismissal of applications.

Section 73.3572—Processing of TV broadcast, low power TV, and TV translator station applications.

Section 73.3580—Local public notice of filing of broadcast applications.

Section 73.3584—Petitions to deny.

Section 73.3587—Informal objections.

Section 73.3591—Grants without hearing.

Section 73.3593—Designation for hearing.

Section 73.3594—Local public notice of designation for hearing.

Section 73.3597—Procedures on transfer and assignment applications.

Section 73.3598—Period of construction.

Section 73.3599—Forfeiture of construction permit.

Section 73.3601—Simultaneous modification and renewal of license.

Section 73.3603—Special waiver procedure relative to applications.

Section 73.3612—Annual employment report (for low power TV stations only).

Section 73.3613—Filing of contracts (network affiliation contracts for low power TV stations only).

[52 FR 7423, Mar. 11, 1987, as amended at 52 FR 25867, July 9, 1987; 52 FR 31405, Aug. 20, 1987; 56 FR 28099, June 19, 1991; 59 FR 31557, June 20, 1994; 62 FR 51063, Sept. 30, 1997]

EFFECTIVE DATE NOTE: At 62 FR 51063, Sept. 30, 1997, § 74.780 was amended by adding the entry ''Section 73.1692'', effective Dec. 1, 1997.

§ 74.781 Station records.

(a) The licensee of a low power TV, TV translator, or TV booster station shall maintain adequate station records, including the current instrument of authorization, official correspondence with the FCC, contracts, permission for rebroadcasts, and other pertinent documents.

(b) Entries required by § 17.49 of this Chapter concerning any observed or otherwise known extinguishment or improper functioning of a tower light:

(1) The nature of such extinguishment or improper functioning.

(2) The date and time the extinguishment or improper operation was observed or otherwise noted.

(3) The date, time and nature of adjustments, repairs or replacements made.

(c) The station records shall be maintained for inspection at a residence, office, or public building, place of business, or other suitable place, in one of the communities of license of the translator or booster, except that the station records of a booster or translator licensed to the licensee of the primary station may be kept at the same place where the primary station records are kept. The name of the person keeping station records, together with the address of the place where the records are kept, shall be posted in accordance with § 74.765(c) of the rules. The station records shall be made available upon request to any authorized representative of the Commission.

(d) Station logs and records shall be retained for a period of two years.

[48 FR 44806, Sept. 30, 1983, as amended at 52 FR 31405, Aug. 20, 1987]

§ 74.783 Station identification.

(a) Each low power TV and TV translator station not originating local programming as defined by § 74.701(h) operating over 0.001 kw peak visual power (0.002 kw when using circularly polarized antennas) must transmit its station identification as follows:

(1) By transmitting the call sign in International Morse Code at least once each hour. This transmission may be accomplished by means of an automatic device as required by § 74.750(c)(7). Call sign transmission shall be made at a code speed not in excess of 20 words per minute; or

(2) By arranging for the primary station, whose signal is being rebroadcast, to identify the translator station by transmitting an easily readable visual presentation or a clearly understandable aural presentation of the translator station's call letters and location. Two such identifications shall be made between 7 a.m. and 9 a.m. and 3 p.m. and 5 p.m. each broadcast day at approximately one hour intervals during each time period. Television stations which do not begin their broadcast day before 9 a.m. shall make these identifications in the hours closest to these time periods at the specified intervals.

(b) Licensees of television translators whose station identification is made by the television station whose signals are being rebroadcast by the translator, must secure agreement with this television station licensee to keep in its file, and available to FCC personnel, the translator's call letters and location, giving the name, address and telephone number of the licensee or his service representative to be contacted in the event of malfunction of the translator. It shall be the responsibility of the translator licensee to furnish current information to the television station licensee for this purpose.

(c) A low power TV station shall comply with the station identification procedures given in § 73.1201 when locally originating programming, as defined by § 74.701(h). The identification procedures given in paragraphs (a) and (b) are to be used at all other times.

(d) Call signs for low power TV and TV translator stations will be made up of the initial letter K or W followed by the channel number assigned to the station and two additional letters. The use of the initial letter generally will follow the pattern used in the broadcast service, i.e., stations west of the Mississippi River will be assigned an

initial letter K and those east, the letter W. The two letter combinations following the channel number will be assigned in order and requests for the assignment of the particular combinations of letters will not be considered. The channel number designator for Channels 2 through 9 will be incorporated in the call sign as a 2-digit number, i.e., 02, 03, ..., so as to avoid similarities with call signs assigned to amateur radio stations.

(e) Low power TV permittees or licensees may request that they be assigned four-letter call signs in lieu of the five-character alpha-numeric call signs described in paragraph (d) of this section. Parties requesting four-letter call signs are to follow the procedures delineated in § 73.3550. Such four-letter call signs shall begin with K or W; stations West of the Mississippi River will be assigned an initial letter K and stations east of the Mississippi River will be assigned an initial letter W. The four-letter call sign will be followed by the suffix ''–LP.'' A party holding a low power TV construction permit who requests a four-letter call sign must file with that request a certification that the station has been constructed, that physical construction is underway at the transmitter site or that a firm equipment order has been placed.

(f) TV broadcast booster station shall be identified by their primary stations by broadcasting of the primary station's call letters and location in accordance with the provisions of § 73.1201 of this chapter.

[41 FR 17552, Apr. 27, 1976, as amended at 47 FR 21502, May 18, 1982; 52 FR 7424, Mar. 11, 1987; 52 FR 31405, Aug. 20, 1987; 59 FR 31557, June 20, 1994]

§ 74.784 Rebroadcasts.

(a) The term *rebroadcast* means the reception by radio of the programs or other signals of a radio or television station and the simultaneous or subsequent retransmission of such programs or signals for direct reception by the general public.

(b) The licensee of a low power TV or TV translator station shall not rebroadcast the programs of any other TV broadcast station or other station authorized under the provisions of this Subpart without obtaining prior consent of the station whose signals or programs are proposed to be retransmitted. The FCC shall be notified of the call letters of each station rebroadcast and the licensee of the low power TV or TV broadcast translator station shall certify that written consent has been obtained from the licensee of the station whose programs are retransmitted.

(c) A TV translator station may rebroadcast only programs and signals that are simultaneously transmitted by a TV broadcast station.

(d) A TV booster station may rebroadcast only programs and signals that are simultaneously transmitted by the primary station to which it is authorized.

(e) The provisions of § 73.1207 of part 73 of this chapter apply to low power TV stations in transmitting any material during periods of program origination obtained from the transmissions of any other type of station.

(Sec. 325, 48 Stat. 1091; 47 U.S.C. 325)

[28 FR 13722, Dec. 14, 1963, as amended at 47 FR 21502, May 18, 1982; 52 FR 31405, Aug. 20, 1987]

Subpart H—Low Power Auxiliary Stations

§ 74.801 Definitions.

Cable television system operator. A cable television operator is defined in § 76.5(cc) of the rules.

Low power auxiliary station. An auxiliary station authorized and operated pursuant to the provisions set forth in this subpart. Devices authorized as low power auxiliary stations are intended to transmit over distances of approximately 100 meters for uses such as wireless microphones, cue and control communications, and synchronization of TV camera signals.

Motion picture producer. Motion picture producer refers to a person or organization engaged in the production or filming of motion pictures.

Television program producer. Television program producer refers to a person or organization engaged in the production of television programs.

(Sec. 5, 48 Stat. 1068; 47 U.S.C. 155)

[42 FR 14729, March 16, 1977, as amended at 43 FR 14662, Apr. 7, 1978; 51 FR 4603, Feb. 6, 1986; 51 FR 9966, Mar. 24, 1986; 54 FR 41842, Oct. 12, 1989]

§ 74.802 Frequency assignment.

(a) Frequencies within the following bands may be assigned for use by low power auxiliary stations:

26.100–26.480 MHz
54.000–72.000 MHz
76.000–88.000 MHz
161.625–161.775 MHz (except in Puerto Rico or the Virgin Islands)
174.000–216.000 MHz
450.000–451.000 MHz
455.000–456.000 MHz
470.000–488.000 MHz
488.000–494.000 MHz (except Hawaii)
494.000–608.000 MHz
614.000–806.000 MHz
944.000–952.000 MHz

(b) Operations in the bands allocated for TV broadcasting, listed below, are limited to locations removed from existing co-channel TV broadcast stations by not less than the following distances unless otherwise authorized by the FCC. (See § 73.609 for zone definitions.)

(1) 54.000–72.000 MHz and 76.000–88.000 MHz:

Zone I 105 km (65 miles)
Zones II and III 129 km (80 miles)

(2) 174.000–216.000 MHz

Zone I 97 km (60 miles)
Zones II and III 129 km (80 miles)

(3) 480.000–608.000 MHz and 614.000—806.000 MHz

All zones 113 km (70 miles)

(c) Specific frequency operation is required when operating within the bands allocated for TV broadcasting.

(1) The frequency selection shall be offset from the upper or lower band limits by 25 kHz or an integral multiple thereof.

(2) One or more adjacent 25 kHz segments within the assignable frequencies may be combined to form a channel whose maximum bandwidth shall not exceed 200 kHz.

(d) Low power auxiliary licensees will not be granted exclusive frequency assignments.

[52 FR 2535, Jan. 23, 1987]

§ 74.803 Frequency selection to avoid interference.

(a) Where two or more low power auxiliary licensees need to operate in the same area, the licensees shall endeavor to select frequencies or schedule operation in such manner as to avoid mutual interference. If a mutually satisfactory arrangement cannot be reached, the Commission shall be notified and it will specify the frequency or frequencies to be employed by each licensee.

(b) The selection of frequencies in the bands allocated for TV broadcasting for use in any area shall be guided by the need to avoid interference to TV broadcast reception. In these bands, low power auxiliary station usage is secondary to TV broadcasting and land mobile stations operating in the UHF–TV spectrum and must not cause harmful interference. If such interference occurs, low power auxiliary station operation must immediately cease and may not be resumed until the interference problem has been resolved.

[42 FR 14729, Mar. 16, 1977, as amended at 52 FR 2535, Jan. 23, 1987]

§ 74.831 Scope of service and permissible transmissions.

The license for a low power auxiliary station authorizes the transmission of cues and orders to production personnel and participants in broadcast programs and motion pictures and in the preparation therefor, the transmission of program material by means of a wireless microphone worn by a performer and other participants in a program or motion picture during rehearsal and during the actual broadcast, filming, or recording, or the transmission of comments, interviews, and reports from the scene of a remote broadcast. Low power auxiliary stations operating in the 944–952 MHz band may, in addition, transmit synchronizing signals and various control signals to portable or hand-carried TV cameras which employ low power radio signals in lieu of cable to deliver picture signals to the control point at the scene of a remote broadcast.

[42 FR 14729, Mar. 16, 1977, as amended at 51 FR 4603, Feb. 6, 1986]

§74.832 Licensing requirements and procedures.

(a) A license authorizing operation of one or more low power auxiliary stations will be issued only to the following:

(1) A licensee of an AM, FM, TV, or International broadcast station or low power TV station. Low power auxiliary stations will be licensed for used with a specific broadcast or low power TV station or combination of stations licensed to the same licensee within the same community.

(2) A broadcast network entity.

(3) A cable television system operator who operates a cable system that produces program material for origination or access cablecasting, as defined in §76.5(r).

(4) Motion picture producers as defined in §74.801.

(5) Television program producers as defined in §74.801.

(6) Licensees and conditional licensees of stations in the Multipoint Distribution Service and Multichannel Multipoint Distribution Service as defined in §21.2 of this chapter, or entities that hold an executed lease agreement with an MDS or MMDS licensee or conditional licensee or with an Instructional Television Fixed Service licensee or permittee.

(b) An application for a new or renewal of low power auxiliary license shall specify the frequency band or bands desired. Only those frequency bands necessary for satisfactory operation shall be requested.

(c) Licensees of AM, FM, TV, and International broadcast stations; low power TV stations; and broadcast network entities may be authorized to operate low power auxiliary stations in the frequency bands set forth in §74.802(a).

(d) Cable television operations, motion picture and television program producers may be authorized to operate low power auxiliary stations only in the bands allocated for TV broadcasting.

(e) An application for low power auxiliary stations or for a change in an existing authorization shall specify the broadcast station, combination of such stations, or the network with which the low power broadcast auxiliary facilities are to be principally used as given in paragraph (h) of this section; or it shall specify the motion picture or television production company or the cable television operator with which the low power broadcast auxiliary facilities are to be solely used. A single application, filed in duplicate on FCC Form 313 may be used in applying for the authority to operate one or more low power auxiliary units. The application must specify the number of units to be operated and the frequency bands which will be used. Motion picture producers, television program producers, and cable television operators are required to attach a single sheet to their application form explaining in detail the manner in which the eligibility requirements given in paragraph (a) of this section are met.

(f) Applications for the use of the bands allocated for TV broadcasting must specify the usual area of operation within which the low power auxiliary station will be used. This area of operation may, for example, be specified as the metropolitan area in which the broadcast licensee serves, or the usual area within which motion picture and television producers are operating. Because low power auxiliary stations operating in these bands will only be permitted in areas removed from existing co-channel TV broadcast stations, licensees have full responsibility to ensure that operation of their stations does not occur at distances less than those specified in §74.802(b).

(g) Low power auxiliary licenses will specify the minimum and maximum number of units that may be operated as follows: from 1 to 5 stations; from 4 to 12 stations; from 10 to 24 stations; from 20 to 50 stations; 45 or more stations.

(h) For broadcast licensees, low power auxiliary stations will be licensed for use with a specific broadcast station or combination of broadcast stations licensed to the same licensee and to the same community. Licensing of low power auxiliary stations for use with a specific broadcast station or combination of such stations does not preclude their use with other broadcast stations of the same or a different licensee at any location. Operation of low power auxiliary stations outside

the area of operation specified in the authorization, or in other bands is permitted without further authority of the Commission. However, operation of low power auxiliary stations shall, at all times, be in accordance with the requirements of § 74.882 of this subpart. Also, a low power auxiliary station that is being used with a broadcast station or network other than one with which it is licensed, must, in addition to meeting the requirements of § 74.861 of this subpart, not cause harmful interference to another low power auxiliary station which is being used with the broadcast station(s) or network with which it is licensed.

(i) In case of permanent discontinuance of operation of a station licensed under this subpart, the licensee shall forward the station license to the Federal Communications Commission, Broadcast Auxiliary Radio Services, 1270 Fairfield Road, Gettysburg, Pennsylvania 17325 for cancellation.

(j) The license shall be retained in the licensee's files at the address shown on the authorization, posted at the transmitter, or posted at the control point of the station.

[42 FR 14729, Mar. 16, 1977, as amended at 47 FR 9221, Mar. 4, 1982; 47 FR 21503, May 18, 1982; 47 FR 55938, Dec. 14, 1982; 51 FR 4603, Feb. 6, 1986; 51 FR 9966, Mar. 24, 1986; 52 FR 2535, Jan. 23, 1987; 55 FR 46012, Oct. 31, 1990; 58 FR 19776, Apr. 16, 1993]

§ 74.833 Temporary authorizations.

(a) Special temporary authority may be granted for low power auxiliary station operation which cannot be conducted in accordance with § 74.24. Such authority will normally be granted only for operations of a temporary nature. Where operation is seen as likely on a continuing annual basis, an application for a regular authorization should be submitted.

(b) A request for special temporary authority for the operation of a low power auxiliary station may be made by informal application, which shall be filed with the Commission in Washington at least 10 days prior to the date of the proposed operation: *Provided,* That, an application filed within less than 10 days of the proposed operation may be accepted upon a satisfactory showing of the reasons for the delay in submitting the request.

(c) An informal request for special temporary authority requiring payment of a fee shall be addressed to the FCC at Federal Communications Commission, Broadcast Auxiliary Radio Services, P.O. Box 358700, Pittsburgh, PA 15251–5700. An informal request for special temporary authority not requiring payment of a fee shall be addressed to the FCC at Federal Communications Commission, 1270 Fairfield Road, Gettysburg, Pennsylvania 17325. All requests must include full particulars including: Applicant's name, statement of eligibility, call letters of associated broadcast station or stations, if any, name and address of individual designated to receive the return telegram, type and manufacturer of equipment, power output, emission, frequency or frequencies proposed to be used, commencement and termination date, location of proposed operation, and purpose for which request is made including any particular justification.

(d) A request for special temporary authority shall specify a frequency band consistent with the provisions of § 74.802: *Provided,* That, in the case of events of wide-spread interest and importance which cannot be transmitted successfully on these frequencies, frequencies assigned to other services may be requested upon a showing that operation thereon will not cause interference to established stations: *And provided further,* In no case will operation of a low power auxiliary broadcast station be authorized on frequencies employed for the safety of life and property.

(e) The user shall have full control over the transmitting equipment during the period it is operated.

(f) Special temporary authority to permit operation of low power auxiliary stations pending Commission action on an application for regular authority will not normally be granted.

[42 FR 14729, Mar. 16, 1977, as amended at 47 FR 9221, Mar. 4, 1982; 47 FR 55939, Dec. 14, 1982; 58 FR 19776, Apr. 16, 1993]

§ 74.851 Type acceptance of equipment.

(a) Applications for new low power auxiliary stations will not be accepted

unless the transmitting equipment specified therein has been type accepted for use pursuant to provisions of this subpart.

(b) Any manufacturer of a transmitter to be used in this service may apply for type acceptance for such transmitter following the type acceptance procedure set forth in part 2 of the Commission's Rules and Regulations. Attention is also directed to part 1 of the Commission's Rules and Regulations which specifies the fees required when filing an application for type acceptance.

(c) An applicant for a low power auxiliary station may also apply for type acceptance for an individual transmitter by following the type acceptance procedure set forth in part 2 of the Commission's Rules and Regulations. The application for type acceptance must be accompanied by the proper fees as prescribed in part 1 of the Commission's Rules and Regulations. Individual transmitters which are type accepted will not normally be included in the Commission's ''Radio Equipment List.''

(d) Low power auxiliary station equipment authorized to be used pursuant to an application accepted for filing prior to December 1, 1977 may continue to be used by the licensee or its successors or assignees: *Provided, however,* If operation of such equipment causes harmful interference due to its failure to comply with the technical standards set forth in this subpart, the Commission may, at its discretion, require the licensee to take such corrective action as is necessary to eliminate the interference.

(e) Each instrument of authority which permits operation of a low power auxiliary station using equipment which has not been type accepted will specify the particular transmitting equipment which the licensee is authorized to use.

(f) All transmitters marketed for use under this subpart shall be type accepted by the Federal Communications Commission for this purpose. (Refer to subpart I of part 2 of the Commission's rules and regulations.)

(Sec. 5, 48 Stat. 1068; 47 U.S.C. 155)

[42 FR 14729, Mar. 16, 1977, as amended at 42 FR 43637, Aug. 22, 1977; 43 FR 13576, Mar. 31, 1978]

§ 74.852 Equipment changes.

(a) The licensee of a low power auxiliary station may make any changes in the equipment that are deemed desirable or necessary, including replacement with type accepted equipment, without prior Commission approval: *Provided,* The proposed changes will not depart from any of the terms of the station authorization or the Commission's technical rules governing this service: *And provided further,* That any changes made to type accepted transmitted equipment shall be in compliance with the provisions of part 2 of the Commission's rules and regulations concerning modification of type accepted equipment.

(b) Any equipment changes made pursuant to paragraph (a) of this section shall be set forth in the next application for renewal of license.

(Sec. 5, 48 Stat. 1068; 47 U.S.C. 155)

[42 FR 14729, Mar. 16, 1977, as amended at 43 FR 13576, Mar. 31, 1978]

§ 74.861 Technical requirements.

(a) Transmitter power is the power at the transmitter output terminals and delivered to the antenna, antenna transmission line, or any other impedance-matched, radio frequency load. For the purpose of this subpart, the transmitter power is the carrier power.

(b) Each authorization for a new low power auxiliary station shall require the use of type accepted equipment. Such equipment shall be operated in accordance with the emission specifications included in the type acceptance grant and as prescribed in paragraphs (c) through (e) of this section.

(c) Low power auxiliary transmitters not required to operate on specific carrier frequencies shall operate sufficiently within the authorized frequency band edges to insure the emission bandwidth falls entirely within the authorized band.

(d) For low power auxiliary stations operating in the bands other than those allocated for TV broadcasting,

the following technical requirements are imposed.

(1) The maximum transmitter power which will be authorized is 1 watt. Licensees may accept the manufacturer's power rating; however, it is the licensee's responsibility to observe specified power limits.

(2) If a low power auxiliary station employs amplitude modulation, modulation shall not exceed 100 percent on positive or negative peaks.

(3) The occupied bandwidth shall not be greater than that necessary for satisfactory transmission and, in any event, an emission appearing on any discrete frequency outside the authorized band shall be attenuated, at least, $43+10 \log_{10}$ (mean output power, in watts) dB below the mean output power of the transmitting unit.

(e) For low power auxiliary stations operating in the bands allocated for TV broadcasting, the following technical requirements apply:

(1) The power of the measured unmodulated carrier power at the output of the transmitter power amplifier (antenna input power) may not exceed the following:

(i) 54–72, 76–88, and 174–216 MHz bands—50 mW

(ii) 470–608 and 614–806 MHz bands—250 mW

(2) Transmitters may be either crystal controlled or frequency synthesized.

(3) Any form of modulation may be used. A maximum deviation of ±75 kHz is permitted when frequency modulation is employed.

(4) The frequency tolerance of the transmitter shall be 0.005 percent.

(5) The operating bandwidth shall not exceed 200 kHz.

(6) The mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

(i) On any frequency removed from the operating frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: at least 25 dB;

(ii) On any frequency removed from the operating frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: at least 35 dB;

(iii) On any frequency removed from the operating frequency by more than 250 percent of the authorized bandwidth: at least $43+10\log_{10}$ (mean output power in watts) dB.

(f) Unusual transmitting antennas or antenna elevations shall not be used to deliberately extend the range of low power auxiliary stations beyond the limited areas defined in § 74.831.

(g) Low power auxiliary stations shall be operated so that no harmful interference is caused to any other class of station operating in accordance with Commission's rules and regulations and with the Table of Frequency Allocations in part 2 thereof.

(h) In the event a station's emissions outside its authorized frequency band causes harmful interference, the Commission may, at its discretion, require the licensee to take such further steps as may be necessary to eliminate the interference.

(Sec. 5, 48 Stat. 1068; 47 U.S.C. 155)

[43 FR 13576, Mar. 31, 1978, as amended at 52 FR 2535, Jan. 23, 1987]

§ 74.882 Station identification.

Call signs will not be assigned to low power auxiliary stations. In lieu thereof, for transmitters used for voice transmissions and having a transmitter output power exceeding 50 mW, an announcement shall be made at the beginning and end of each period of operation at a single location, over the transmitting unit being operated, identifying the transmitting unit designator, its location, and the call sign of the broadcasting station or name of the licensee with which it is being used. A period of operation may consist of a continuous transmission or intermittent transmissions pertaining to a single event.

[42 FR 14729, Mar. 16, 1977]

Subpart I—Instructional Television Fixed Service

SOURCE: 28 FR 13731, Dec. 14, 1963, unless otherwise noted.

§ 74.901 Definitions.

Attended operation. Operation of a station by a designated person on duty

at the place where the transmitting apparatus is located with the transmitter in the person's plain view.

Equivalent Isotropically Radiated Power (EIRP). The product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna radiator. This product may be expressed in watts or dB above 1 watt (dBW).

Instructional television fixed station. A fixed station operated by an educational organization and used primarily for the transmission of visual and aural instructional, cultural, and other types of educational material to one or more fixed receiving locations.

ITFS response station. A fixed station operated at an authorized location to provide communication by voice and/or data signals to an associated instructional television fixed station.

Main channel: The main channel is that portion of each authorized channel used for the transmission of visual and aural information as set forth in §73.682 of this Chapter and §74.938 of this subpart.

Point-to-point ITFS station. An ITFS station that transmits a highly directional signal from a fixed transmitter location to a fixed receive location.

Remote control. Operation of a station by a designated person at a control position from which the transmitter is not visible but where suitable control and telemetering circuits are provided which allow the performance of the essential functions that could be performed at the transmitter.

Studio to transmitter link (STL). A directional path used to transmit a signal from a station's studio to its transmitter.

Subsidiary channel: A subsidiary channel is any portion of an authorized channel not used for main channel transmissions.

Temporary fixed ITFS station. An ITFS station used for the transmission of material from temporary unspecified points to an ITFS station.

Unattended operation. Operation of a station by automatic means whereby the transmitter is turned on and off and performs its functions without attention by a designated person.

[28 FR 13731, Dec. 14, 1963, as amended at 35 FR 4705, Mar. 18, 1970; 48 FR 33901, July 26, 1983; 49 FR 32596, Aug. 15, 1984; 55 FR 46013, Oct. 31, 1990; 60 FR 55483, Nov. 1, 1995]

§74.902 Frequency assignments.

(a) The following frequencies may be assigned to instructional television fixed stations:

Channel No.	Band limits MHz
GROUP A	
A–1	2500–2506
A–2	2512–2518
A–3	2524–2530
A–4	2536–2542
GROUP B	
B–1	2506–2512
B–2	2518–2524
B–3	2530–2536
B–4	2542–2548
GROUP C	
C–1	2548–2554
C–2	2560–2566
C–3	2572–2578
C–4	2584–2590
GROUP D	
D–1	2554–2560
D–2	2566–2572
D–3	2578–2584
D–4	2590–2596
GROUP E	
E–1	2596–2602
E–2	2608–2614
E–3	2620–2626
E–4	2632–2638
GROUP F	
F–1	2602–2608
F–2	2614–2620
F–3	2626–2632
F–4	2638–2644
GROUP G	
G–1	2644–2650
G–2	2656–2662
G–3	2668–2674
G–4	2680–2686

(b) Instructional Television Fixed Stations authorized to operate on Channels 2650–2656, 2662–2668, and 2674–

2680 MHz as of July 16, 1971, may continue to operate on a coequal basis with other stations operating in accordance with the Table of Frequency Allocations. Requests for subsequent renewals or modification of existing licenses will be considered; however, expansion of systems comprised of such stations will not be permitted except on frequencies allocated for the service.

(c) Channels 2596–2602, 2602–2608, 2608–2614, 2614–2620, 2620–2626, 2626–2632, 2632–2638, and 2638–2644 MHz and the corresponding response channels listed in § 74.939(d) are shared with the Multipoint Distribution Service. No new Instructional Television Fixed Service applications for these channels filed after May 25, 1983 will be accepted. In those areas where Multipoint Distribution Service use of these channels is allowed pursuant to § 21.902, Instructional Television Fixed Service users of these channels will continue to be afforded protection from harmful co-channel and adjacent channel interference from Multipoint Distribution Service stations.

(d)(1) A licensee is limited to the assignment of no more than four channels for use in a single area of operation, all of which should be selected from the same Group listed in paragraph (a) of this section. An area of operation is defined as the area 20 miles or less from the ITFS transmitter. Applicants shall not apply for more channels than they intend to construct within a reasonable time, simply for the purpose of reserving additional channels. The number of channels authorized to an applicant will be based on the demonstration of need for the number of channels requested. The Commission will take into consideration such factors as the amount of use of any currently assigned channels and the amount of proposed use of each channel requested, the amount of, and justification for, any repetition in the schedules, and the overall demand and availability of ITFS channels in the community. For those applicant organizations formed for the purpose of serving accredited institutional or governmental organizations, evaluation of the need will only consider service to those specified receive sites which submitted supporting documentation pursuant to § 74.932(a)(4).

(2) An applicant leasing excess capacity and proposing a schedule which complies in all respects with the requirements of Section 74.931(e) will have presumptively demonstrated need, in accordance with paragraph (d)(1) of this section, for no more than four channels, all part of the same Group listed in paragraph (a) of this section. This presumption is rebuttable by demonstrating that the application does not propose to comport with our educational programming requirements, that is, to transmit some formal educational programming, as defined in Section 74.931(a), and to transmit the requisite minimum programming of Section 74.931(e) for genuinely educational purposes and to receive sites when students are there.

(e) The same channel may be assigned to more than one station or more than one licensee in the same area if the geometric arrangement of the transmitting and receiving points or the times of operation are such that interference is not likely to occur.

(f) A temporary fixed ITFS station may use any available ITFS channel on a secondary basis. Operation of stations located within 56.3 km (35 miles) of Canada shall be limited by § 74.24(h)(3).

(g) Where adjacent channel operation is proposed in any area, the preferred location of the proposed station's transmitting antenna is at the site of the adjacent channel transmitting antenna. If this is not practicable, the adjacent channel transmitting antennas should be located as close as reasonably possible.

(h) On the E and F-channel frequencies, a point-to-point ITFS station may be involuntarily displaced by an MDS applicant, conditional licensee or licensee, provided that suitable alternative spectrum is available and that the MDS entity bears the expenses of the migration. Suitability of spectrum will be determined on a case-by-base basis; at a minimum, the alternative spectrum must be licensable by ITFS operators on a primary basis (although it need not be specifically allocated to the ITFS service), and must provide a signal that is equivalent to the prior

signal in picture quality and reliability, unless the ITFS licensee will accept an inferior signal. Potential expansion of the ITFS licensee may be considered in determining whether alternative available spectrum is suitable.

(i) If suitable alternative spectrum is located pursuant to paragraph (h) of this section, the initiating party must prepare and file the appropriate application for the new spectrum, and must simultaneously serve a copy of the application on the ITFS licensee to be moved. The initiating party will be responsible for all costs connected with the migration, including purchasing, testing and installing new equipment, labor costs, reconfiguration of existing equipment, administrative costs, legal and engineering expenses necessary to prepare and file the migration application, and other reasonable documented costs. The initiating party must secure a bond or establish an escrow account to cover reasonable incremental increase in ongoing expenses that may fall upon the migrated licensee. The bond or escrow account should also account for the possibility that the initiating party subsequently becomes bankrupt. If it becomes necessary for the Commission to assess the sufficiency of a bond or escrow amount, it will take into account such factors as projected incremental increase in electricity or maintenance expenses, or relocation expenses, as relevant in each case.

(j) The ITFS party to be moved will have a 60-day period in which to oppose the involuntary migration. The ITFS party should state its opposition to the migration with specificity, including engineering and other challenges, and a comparison of the present site and the proposed new site. If involuntary migration is granted, the new facilities must be operational before the initiating party will be permitted to begin its new or modified operations. The migration must not disrupt the ITFS licensee's provision of service, and the ITFS licensee has the right to inspect the construction or installation work.

[29 FR 7023, May 28, 1964, as amended at 31 FR 10743, Aug. 12, 1966; 36 FR 11587, June 16, 1971; 48 FR 33901, July 26, 1983; 49 FR 32596, Aug. 15, 1984; 50 FR 26758, June 28, 1985; 55 FR 46013, Oct. 31, 1990; 56 FR 57819, Nov. 14, 1991; 58 FR 44951, Aug. 25, 1993; 59 FR 35636, July 13, 1994; 60 FR 20246, Apr. 25, 1995]

§ 74.903 Interference.

(a) Since interference in this service will occur only when an unfavorable desired-to-undesired signal ratio exists at the antenna input terminals of the affected receiver, the directive properties of receiving antennas can be used to minimize the hazard of such interference. Interference may also be controlled through the use of directive transmitting antennas, geometric arrangement of transmitters and receivers, and the use of the minimum power required to provide the needed service. Harmful interference will be considered present when the reference receiving antenna is oriented to receive the maximum desired signal, and a free space calculation determines that the desired-to-undesired signal ratio is less than the value specified for the respective channel under consideration.

(1) Cochannel interference is defined as the ratio of the desired signal to the undesired signal, at the antenna input terminals of the affected receiver, when the ratio is less than 45 dB.

(2) Adjacent channel interference is defined as the ratio of the desired signal to undesired signal present in an adjacent channel, at the output of a reference receiving antenna oriented to receive the maximum desired signal level. Harmful interference will be considered present when a free space calculation determines that this ratio is less than 0 dB. In the alternative, harmful interference will be considered present for an Instructional Television Fixed Service (ITFS) station constructed before May 26, 1983, when a free space calculation determines that this ratio is less than 10 dB, unless the individual receive site under consideration has been subsequently upgraded with up-to-date reception equipment,

in which case the ratio shall be less than 0 dB, or unless the license for an ITFS station is conditioned on the proffer to the affected ITFS station licensee of equipment capable of providing a ratio of 0 dB or more at no expense to the affected ITFS station licensee, and also conditioned, if necessary, on installation of such equipment, absent a showing by the affected ITFS station licensee demonstrating good cause and that the proposed equipment will not provide a ratio of 0 dB or more or that installation of such equipment, at no expense to the ITFS station licensee, is not possible. Absent information presented to the contrary, the Commission will assume that reception equipment installation occurred simultaneously with original station equipment.

(3) For purposes of this section, all interference calculations involving receive antenna performance shall use the reference antenna characteristics shown in Figure 1, of § 74.937(a) or, in the alternative, utilize the actual pattern characteristics of the antenna in use at the receive site under study. If the actual receive antenna pattern is utilized, the applicant must submit complete details including manufacturer, model number(s), co-polar and cross-polar gain patterns, and other pertinent data.

(4) If an application can demonstrate that the installation of a receiving antenna at an existing licensee's site with characteristics superior to those of the standard antenna (or, alternatively, the appropriate existing antenna in use at the site) will permit the applicant to provide service without interference to the existing licensee, the application will be considered grantable with the condition that the applicant bears all costs of upgrading the existing licensee's reception equipment at that site(s). Such a showing should include interference calculations for both the existing or reference antenna and the proposed antenna. The manufacturer, model number(s), co-polar and cross-polar gain patterns of the replacement antenna should be supplied as well as an accurate assessment of the expected reimbursement costs.

(5) No receive site more than 35 miles from the transmitter shall be entitled to interference protection.

(b) All applicants for instructional television fixed stations are expected to take full advantage of such directive antenna techniques to prevent interference to the reception of any existing operational fixed, multichannel multipoint distribution, international control or instructional television fixed station at authorized receiving locations. Therefore, all applications for new or major changes must include an analysis of potential interference to all existing and previously proposed stations in accordance with § 74.903(a). An applicant for a new instructional television fixed station or for changes in an existing ITFS facility for a construction permit must include the following technical information with the application:

(1) An analysis of the potential for harmful cochannel interference with any authorized or previously proposed station if:

(i) The proposed transmitting antenna has an unobstructed electrical path to receive sites(s) of any other station(s) that utilize(s), or would utilize, the same frequency, or

(ii) The proposed transmitter is within 80.5 km (50 miles) of the coordinates of any such station.

(2) An analysis of the potential for harmful adjacent channel interference with any authorized or previously proposed station(s) if the proposed transmitter is within 80.5 km (50 miles) of the coordinates of any other station(s) that utilize(s), or would utilize, an adjacent channel frequency.

(3) An analysis concerning possible adverse impact upon Mexican and Canadian communications if the station's transmitting antenna is to be located within 80.5 km (50 miles) of the border.

(4) In lieu of the interference analyses required by paragraphs (b)(1) and (b)(2) of this Section for any authorized or previously proposed station(s), an applicant may submit a statement(s) from the affected ITFS licensee(s) or permittee(s) that any resulting interference is acceptable.

(5) An analysis of the potential for harmful interference within the protected service area, as defined in paragraph (d) of this section, of any authorized or previously proposed station(s) described in paragraph (d) of this section.

(c) Existing licensees and prospective applicants are expected to cooperate fully in attempting to resolve problems of potential interference before bringing the matter to the attention of the Commission.

(d) Each authorized or previously-proposed applicant, construction permittee, or licensee who proposes to lease excess capacity to a ''wireless cable'' operator pursuant to §74.931(e)(2) must be protected from harmful electrical interference for the hours of such transmissions within a protected service area as defined at §21.902(d) of this chapter. Alternatively, an applicant, permittee, or licensee may select a 56.33 km (35 mile) circular protected area centered at the geographic latitude and longitude of the transmitting antenna site. Applicants are expected to cooperate fully and in good faith with an authorized or previously-proposed applicant, construction permittee, or licensee who leases or proposes to lease excess capacity to a ''wireless cable'' operator pursuant to §74.931(e)(2), in attempting to resolve problems of potential interference to such operations before bringing the matter to the attention of the Commission.

(e) Each ITSF applicant, permittee, or licensee who wishes to claim the protection described at paragraph (d) of this section must request such protection in writing in its initial application for a new station, in an application amendment, or by modification application. Such protection shall be applied solely with regard to applications filed subsequent to the request for a protected service area.

(f) With respect to protected service area proposals, two applications will be regarded as mutually exclusive if they are:

(1) Submitted during the same filing window;

(2) Otherwise grantable;

(3) Mutually exclusive only because either or both applicants request a protected service area. However, if an applicant in such a situation shows that the resulting interference would occur solely over water, the applications will not be considered to be mutually exclusive.

[28 FR 13731, Dec. 14, 1963, as amended at 50 FR 26758, June 28, 1985; 51 FR 9799, Mar. 21, 1986; 55 FR 46013, Oct. 31, 1990; 56 FR 57600, Nov. 13, 1991; 58 FR 44951, Aug. 25, 1993; 60 FR 20246, Apr. 25, 1995; 60 FR 57368, Nov. 15, 1995]

§74.910 Part 73 application requirements pertaining to ITFS stations.

The following rules are applicable to ITFS stations.

Sec.
73.3500 Application and report forms.
73.3511 Applications required.
73.3512 Where to file; number of copies.
73.3513 Signing in applications.
73.3514 Content of applications.
73.3517 Contingent applications.
73.3519 Repetitious applications.
73.3533 Application for construction permit or modification of construction permit.
73.3534 Application for extension of construction permit or for construction permit to replace expired construction permit.
73.3536 Application for license to cover construction permit.
73.3542 Application for temporary or emergency authorization.
73.3561 Staff consideration of applications requiring Commission action.
73.3562 Staff consideration of applications not requiring action by the Commission.
73.3597(c)(2) Procedures on transfer and assignment applications.
73.3566 Defective applications.
73.3568 Dismissal of applications.
73.3587 Procedure for filing objections.
73.3598 Period of construction.
73.3599 Forfeiture of construction permit.

The applicability of other rules in part 73, where appropriate, is not precluded by this section.

[50 FR 26759, June 28, 1985, as amended at 60 FR 20247, Apr. 25, 1995]

§74.911 Processing of ITFS station applications.

(a) Application for ITFS stations are divided into two groups:

(1) In the first group are applications for new stations or major changes in the facilities of authorized stations. These applications are subject to the provisions of paragraph (c) of this section. A major change for an ITFS station will be any proposal to add new

channels, change from one channel (or channel group) to another, change polarization, increase the EIRP in any direction by more than 1.5dB, increase the transmitting antenna height by 25 feet or more, or relocate a facility's transmitter site by 10 miles or more. However, the Commission may, within 15 days after the acceptance of an application, or 15 days after the acceptance of any other application for modification of facilities, advise the applicant that such application is considered to be one for a major change, and subject to the provisions of paragraph (c) of this section.

(2) The second group consists of applications for licenses and all other changes in the facilities of authorized stations.

(b) A new file number will be assigned to an application for a new station or for major changes in the facilities of an authorized station, when it is amended so as to effect a major change, as defined in paragraph (a)(1) of this Section, or result in a situation where the original party or parties to the application do not retain control of the applicant as originally filed. An application for change in the facilities of any existing station will continue to carry the same file number even though (pursuant to Commission approval) an assignment of license or transfer of control of such licensee or permittee has taken place if, upon consummation, the application is amended to reflect the new ownership.

(c)(1) New and major change applications for ITFS stations will be accepted only on dates specified by the Commission. Filing periods will be designated by the Commission in a Public Notice, to be released not fewer than 60 days before the commencement of the filing period. Qualified parties will have no fewer than 5 business days within which to submit their applications. After termination of the filing period, the Commission shall release a Public Notice with a list of applications filed in the window and provide no fewer than 30 days for the submission of petitions to deny. Uncontested applications that are not mutually exclusive with any other application or licensed facility, and are found to be acceptable, shall be granted. Mutually exclusive applications shall be evaluated pursuant to the comparative selection process set forth in § 74.913 as herein amended.

(2) The requirements of this section apply to a wireless cable entity requesting to be licensed on ITFS frequency pursuant to § 74.990. The application of such a wireless cable entity shall be included in the Public Notice released after the termination of the filing period.

(d) Those applications, other than mutually exclusive applications, which upon examination meet other pertinent requirements and would serve the public interest, convenience and necessity will be granted. Mutually exclusive applications will be processed pursuant to the provisions in § 74.913.

[50 FR 26759, June 28, 1985, as amended at 55 FR 46013, Oct. 31, 1990; 60 FR 20247, Apr. 25, 1995]

§ 74.912 Petitions to deny.

(a) Any party in interest may file with the Commission a petition to deny any application for new facilities or major changes in the facilities of authorized stations, provided such petitions are filed by the date established pursuant to the cut-off provisions of § 74.911(c). In the case of all other applications, except those excluded under section 309(c) of the Communications Act of 1934, as amended, petitions to deny must be filed not later than 30 days after issuance of a public notice of the acceptance for filing of the applications. In the case of applications for renewal of license, petitions to deny may be filed after the issuance of a public notice of acceptance for filing of the applications and up until the first day of the last full calendar month of the expiring license term.

(b) The applicant file an opposition to any petition to deny, and the petitioner a reply to such opposition in which allegations of fact or denials thereof shall be supported by affidavit of a person or persons with personal knowledge thereof. The times for filing such oppositions and replies shall be those provided in § 1.45 of this chapter.

(c) Only petitions to deny filed against a tentative selectee (§ 74.913) will be considered. If the petition does not present substantial and material

questions of fact warranting a hearing, the petition will be denied and the tentative selectee will be granted a license where, upon examination, the Mass Media Bureau finds that other pertinent requirements have been met and the public interest, convenience and necessity would be served. Where necessary, the points of the application will be modified to comport with any findings made as a result of the review. In the event that the tentative selectee's application is denied or its point total reduced, the point system process will be repeated, where necessary, to determine the tentative selectee or applicants qualifying for the random tie-breaker. If, upon examination, a substantial and material question of fact is found and the Bureau is unable to find that the public interest, convenience and necessity will be served by granting the application of the tentative selectee pursuant to the point system, its application will be designated for hearing pursuant to section 309 of the Communications Act of 1934, as amended. Petitions for reconsideration, motions to stay, or applications for review may be submitted at the time the Bureau grants or denies the application of the tentative selectee pursuant to the filing periods specified in §1.45 of this chapter.

[50 FR 26759, June 28, 1985]

§74.913 Selection procedure for mutually exclusive ITFS applications.

(a) If timely filed ITFS applications are determined to be mutually exclusive, such applications will be processed and assessed points to determine the tentative selectee for the particular channels. The tentative selectee will be the applicant with the highest point total under the procedure set forth in this section, unless the provisions of paragraph (c) of this section apply, and will be awarded the requested channels if the Commission concludes that such an award will serve the public interest, convenience and necessity.

(b) Each application will be awarded a predetermined number of points under the criteria listed:

(1) Four points for applicants that are ''local,'' as defined in §74.932, n.1.

(2) Three points for accredited schools, or their governing bodies applying within their jurisdiction;

(3) Two points for applicants whose request, if granted, would result in the acquisition of four or fewer ITFS channels by that applicant within the particular area;

(4) One point for a proposed weekly schedule of twenty-one or more average hours per channel per week of formal educational programming (§74.931(a)), or of forty-one or more average hours per channel per week of other ITFS programming; two points for forty-one or more average hours per channel per week of formal education programming, or for sixty-one or more hours per channel per week of ITFS programming where at least twenty-one of those hours are formal educational programming;

(5) One point for an existing E or F channel licensee seeking to relocate and showing an established need for an expanded service that cannot be accommodated on its grandfathered E or F facilities. The applicant must submit a specific request and adequate supporting documentation.

(c) If the best qualified (highest scoring) two or more applicants have the same point accumulation, they will be given thirty days from the date of release of such decision to notify the Commission of any agreement to divide the use of the channels. If no agreement is reached and advanced to the Commission within that time, the tentative selectee will then be determined through a tie-breaker mechanism.

(d) The tie-breaker will operate as follows: each of the tied applicants will be directed to submit to the Commission a statement of the number of students at its proposed receive locations who are formally enrolled in classes for credit toward an academic degree or diploma, or a legally required certification or license. It must also demonstrate that this claim of students who would benefit from the proposed system is supported by the educational programs proposed in its application. Each applicant will serve it submission(s) on the other tied competing applicant(s), who will have an opportunity to respond to any aspect of the

enrollment submissions. If any applicant's system would reach less than 80% as many students as another applicant's would reach, the application which would result in service to the fewer number of students will be denied. The application(s) of any remaining applicant(s) will be granted. If more than one application is to be granted under this procedure, the channels or channel capacity will be divided evenly among the remaining applicants. At any time during this process, the applicants may advise the Commission that they are negotiating or have reached settlement for disposition of the contested facilities, and the Commission will withhold further comparative processing upon such notification.

(1) Enrollment will be considered as of the last date of the filing window during which the applications were filed, as provided by § 74.911(c). Enrollment figures should be the latest available from a regular term or session prior to that filing date, and must be taken from a statement or submission of data made by the subject school for some other official purpose or function, such as a mid-year or year-end fiscal report, or a budget proposal, and they must represent actual, not projected, student population. Each applicant must identify the source(s) from which its submitted enrollment figures are drawn.

(2) All full- and part-time students formally enrolled in classes for credit toward an academic degree or diploma, or a legally required certification or license, at any school, campus, or other locations listed in the application as a receive site may be counted, except if an applicant's system would serve only students in a particular discipline (or disciplines) or at a particular grade level (or levels), only students in classes and programs within that discipline(s) or grade level(s) may be counted.

(3) For off-campus sites, only students who can be shown to be recipients of formal ITFS educational material may be counted.

(4) Applicants serving students other than their own count only students at schools, campuses, and other receive sites which have submitted a letter indicating their intention to use the proposed service. The validity of such expressions of intention will be judged pursuant to § 74.932 of these rules. If several schools from the same school system are listed as receive sites, a single letter from an appropriate person representing the school board or system will be sufficient to demonstrate the intention to use the proposed service at each of these receive sites if each receive site's participation is specifically acknowledged.

(5) A receive site not receiving interference protection may not be utilized by an applicant for tie-breaking purposes.

NOTE 1: Entities entitled to the accreditation points will include umbrella organizations whose membership is composed of entities which are individually eligible for the points. Also, a state's department of education (or equivalent agency) would qualify, as well as any directly controlled arm of that department if its specific duties include that department's educational function.

NOTE 2: Average hours per channel per week are determined by totaling the number of scheduled hours per week of programming between 8:00 a.m and 10:00 p.m. Monday through Saturday in the subject category, and dividing that total by the number of channels.

NOTE 3: Paragraph (b)(3) of this section does not apply to applications for modification of facilities other than the addition of channels.

NOTE 4: For applications pending as of August 14, 1989, the enrollment which will be counted will be the most recent available up to August 22, 1989, for which receive sites are on file by that date.

[50 FR 26759, June 28, 1985, as amended at 51 FR 9800, Mar. 21, 1986; 51 FR 39536, Oct. 29, 1986; 54 FR 29039, July 11, 1989; 60 FR 20247, Apr. 25, 1995]

§ 74.931 Purpose and permissible service.

(a)(1) Instructional television fixed stations are intended primarily to provide a formal educational and cultural development in aural and visual form, to students enrolled in accredited public and private schools, colleges and universities. Authorized instructional television fixed station channels must be used to transmit formal educational programming offered for credit to enrolled students of accredited schools, with limited exceptions as set forth in

paragraph (e)(9) of this section and Secs. 74.990 through 74.992.

(2) All applicants that do not list accredited schools as receive sites must name the school(s) and the degree(s) or diploma(s) for which the formal programming will be offered and describe the administration of the course(s). They must submit documentation, written or signed by the authorities responsible for the schools' curricula, verifying each of these points.

(b) Such stations may also be used for the additional purpose of transmitting other visual and aural educational, instructional and cultural material to selected receiving locations, including in-service training and instruction in special skills and safety programs, extension of professional training, informing persons and groups engaged in professional and technical activities of current developments in their particular fields, and other similar endeavors.

(c) During periods when the circuits provided by these stations are not being used for the transmission of instructional and cultural material, they may be used for the transmission of material directly related to the administrative activities of the licensee such as the holding of conferences with personnel, distribution of reports and assignments, exchange of data and statistics, and other similar uses. Stations will not be licensed in this service solely for the transmission of administrative traffic.

(d) Stations may be licensed in this service as originating or relay stations to interconnect instructional television fixed stations in adjacent areas, to deliver instructional and cultural material to, and obtain such material from, commercial and noncommercial educational television broadcast stations for use on the instructional television fixed system, and to deliver instructional and cultural material to, and obtain such material from, nearby terminals or connection points of closed circuit educational television systems employing wired distribution systems or radio facilities authorized under other parts of this chapter, or to deliver instructional and cultural material to any CATV system serving a receiving site or sites which would be eligible for direct reception of ITFS signals under the provisions of paragraphs (a) and (b) of this section.

(e) A licensee may use excess capacity on each channel to transmit material other than the ITFS subject matter specified in paragraphs (a), (b), (c), and (d) of this section subject to the following conditions:

(1) If the time or capacity leased is not to be used for ''wireless cable'' operations, the licensee must preserve at least 40 hours per week, including at least 6 hours per weekday (Monday through Friday), excluding holidays and vacation days, for ITFS purposes on that channel. The 40-hour preservation may consist of airtime strictly reserved for ITFS use and not used for non-ITFS programming, or of time used for non-ITFS programming but subject to ready recapture by the licensee for ITFS use with no economic or operational detriment of the licensee. At least 20 hours per week of the preserved time on each channel must be used for ITFS programming, including at least 3 hours per weekday, excluding holidays and vacation days, except as provided in paragraph (e)(3) of this section. Only ITFS programming and preserved airtime scheduled between 8 a.m. and 10 p.m. Monday through Saturday, will qualify to meet these requirements.

(2) If the time or capacity leased is to be used for ''wireless cable'' operations, before leasing excess capacity on any one channel, the licensee must provide at least 20 hours per week of ITFS programming on that channel, except as provided in paragraph (e)(3) of this section. All hours not used for ITFS programming may be leased to a ''wireless cable'' operator. An additional 20 hours per week per channel must be reserved for recapture by the ITFS licensee for its ITFS programming, subject to one year's advance, written notification by the ITFS licensee to its ''wireless cable'' lessee. These hours of recapture are not restricted as to time of day or day of the week, but may be established by negotiations between the ITFS licensee and the ''wireless cable'' lessee.

(3) For the first two years of operation, an ITFS entity may lease excess

capacity if it provides ITSF programming at least 12 hours per channel per week, including up to four hours of ITFS usage per day.

(4) The licensee may schedule the ITFS programming and use automatic channel switching equipment so as to employ channel mapping technology to lease to a ''wireless cable'' operator. However, an ITFS applicant should request only as many channel as it needs to fulfill its educational requirements.

(5) All of the capacity available on any subsidiary channel of any authorized channel may be used for the transmission of material to be used by others.

(6) When an ITFS licensee makes capacity available on a common carrier basis, it will be subject to common carrier regulation. A licensee operating as a common carrier is required to apply for the appropriate authorization and to comply with all policies and rules applicable to that service. Responsibility for making the initial determination of whether a particular activity is common carriage rests with the ITFS licensee. Initial determinations by the licensees are subject to Commission examination and may be reviewed at the Commission's discretion.

(7) An ITFS applicant, permittee, or licensee may use an omnidirectional antenna to facilitate the leasing of excess capacity to ''wireless cable'' operators.

(8) Leasing activity may not cause unacceptable interference to cochannel and adjacent-channel operations.

(9) A licensee may shift its requisite ITFS programming onto fewer than its authorized number of channels, via channel mapping technology or channel loading, so that it can lease full-time channel capacity to a wireless cable operator, subject to the condition that it provide a total average of at least 20 hours per channel per week of ITFS programming on its authorized channels. The licensee also retains the unabridgeable right to recapture, subject to six months' written notification to the wireless cable operator, an average of an additional 20 hours per channel per week for simultaneous programming on the number of channels for which it is authorized. The licensee may agree to the transmission of this recapture time on channels not authorized to it, but which are included in the wireless system of which it is a part.

(f) Material transmitted by these stations may be intended for simultaneous reception and display or may be recorded by authorized users for use at another time.

(g) On a secondary basis, an ITFS station may be operated as a temporary fixed station from temporary unspecified points to an ITFS station under the provisions of paragraph (a), (b), (d) or (e) of this section.

(h) Except as specified in paragraphs (i) and (j) of this section, no licensee of a station in this service may lease transmission time or capacity to any cable television company either directly or indirectly through an affiliate owned, operated, controlled by, or under common control with the cable television company, if the ITFS main transmitter station is within 32 km (20 miles) of the cable television company's franchise area or service area, and if the cable television company is the sole provider of cable television service in the franchise area.

(i)(1) A cable television company shall be exempt from the provisions of paragraph (h) of this section if its franchise area contains none of the following:

(i) Any incorporated place of 2,500 inhabitants or more, or any part thereof;

(ii) Any unincorporated place of 2,500 inhabitants or more, or any part thereof; or

(iii) Any other territory, incorporated or unincorporated, included in an urbanized area.

(2) All population statistics and definitions used in qualifying for this exemption shall be the most recent available from the U.S. Department of Commerce, Bureau of the Census. In no event shall any statistics resulting from censuses prior to 1980 be used. The Census Bureau has defined some incorporated places of 2,500 inhabitants or more as ''extended cities.'' Such cities consist of an urban part and rural part.

(3) If the cable operator's franchise area includes a rural part of an extended city, but includes no other territory described in this paragraph, an exemption shall apply.

(j) The provisions of paragraph (h) of this section will not apply to ITFS excess capacity leased directly or indirectly to cable operators or affiliates to provide locally-produced programming to cable headends. Locally-produced programming is programming produced in or near the cable operator's franchise area and not broadcast on a television station available within that franchise area. A cable operator or affiliate will be permitted to lease ITFS excess capacity equivalent to one MDS channel within 32 km (20 miles) of the cable television franchise area or service area for this purpose, and, within 32 km (20 miles) of the cable television franchise area or service area, no more ITFS excess capacity than the equivalent of one MDS channel may be used by a cable television company or affiliate pursuant to this paragraph. The licensee for a cable operator providing local programming pursuant to a lease must include in a notice filed with the Mass Media Bureau a cover letter explicitly identifying its lessee as a local cable operator or affiliate and stating that the lease was executed to facilitate the provision of local programming. The first lease notification for an MDS or ITFS channel in an area filed with the Commission will be entitled to the exemption. The limitations on the equivalent of one MDS channel per party and per area include any cable/ITFS operations grandfathered pursuant to paragraph (k) of this section or any cable/MDS operations grandfathered pursuant to §21.912(f) of this chapter. Local programming service pursuant to a lease must be provided within one year of the date of the lease or one year of the grant of the licensee's application for the leased channel(s), whichever is later.

(k) Lease arrangements between cable and ITFS entities for which a lease or a firm agreement was signed prior to February 8, 1990, will not be subject to the prohibitions of paragraph (h) of this section. Leases between cable television entities and ITFS entities executed on February 8, 1990, or thereafter, are invalid.

[28 FR 13731, Dec. 14, 1963, as amended at 33 FR 15424, Oct. 17, 1968; 48 FR 33901, July 26, 1983; 49 FR 27151, July 2, 1984; 49 FR 32596, Aug. 15, 1984; 50 FR 26760, June 28, 1985; 51 FR 9800, Mar. 21, 1986; 55 FR 46013, Oct. 31, 1990; 56 FR 57600, Nov. 13, 1991; 56 FR 57819, Nov. 14, 1991; 56 FR 65191, Dec. 16, 1991; 58 FR 34378, June 25, 1993; 58 FR 44951, Aug. 25, 1993; 59 FR 35636, July 13, 1994]

§74.932 Eligibility and licensing requirements.

(a) With certain limited exceptions set forth in §§74.990 through 74.992 of this part, a license for an instructional television fixed station will be issued only to an accredited institution or to a governmental organization engaged in the formal education of enrolled students or to a nonprofit organization whose purposes are educational and include providing educational and instructional television material to such accredited institutions and governmental organizations, and which is otherwise qualified under the statutory provisions of the Communications Act of 1934, as amended.

(1) Only local applicants can file applications and be considered for licenses during the local priority period, which extends for one year from the effective date of these rules.

(i) During this local priority period, the existing of any outstanding application for ITFS channels by a nonlocal applicant will not prevent the filing and/or grant of an application by a local entity for those same channels.

(2) A publicly supported educational institution must be accredited by the appropriate state department of education.

(3) A privately controlled educational institution must be accredited by the appropriate state department of education or the recognized regional and national accrediting organizations.

(4) Those applicant organizations whose eligibility is established by service to accredited institutional or governmental organizations must submit documentation from proposed receive sites demonstrating they will receive

and use the applicant's formal educational programming. In place of this documentation, a state educational television (ETV) commission may demonstrate that the public schools it proposes to serve are required to use its proposed formal educational programming.

(5) Nonlocal applicants, in addition to submitting letters from proposed receive sites, must demonstrate the establishment of a local program committee in each community where they apply.

(b) No numerical limit is placed on the number of stations which may be licensed to a single licensee. However, individual licensees will be governed by the limitations of §§ 74.902 and 74.990(d) of this part as to the number of channels which may be used. A single license may be issued for more than one transmitter if they are to be located at a common site and operated by the same licensee. Applicants are expected to accomplish the proposed operation by the use of the smallest number of channels required to provide the needed service.

(c) An application for a new instructional television fixed station or for changes in the facilities of an existing station shall specify the location of the transmitter, all proposed receiving installations, response transmitters, and any relay transmitters which will be under the control of or will be equipped for reception by the applicant. If reception is also intended at unspecified locations, i.e., if power is deliberately radiated to locations or areas so that voluntary reception will be possible, the applications shall include a complete statement as to the purpose of such additional reception.

(d) In case of permanent discontinuance of operation of a station licensed under this subpart, authority to operate is forfeited and the licensee shall forward the station license to the Commission for cancellation. For the purposes of this section, a station which is not operated for a period of one year is considered to have been permanently discontinued. If use of a channel(s) is discontinued, authority to operate on such channel(s) is forfeited and an application for modification shall be filed to delete such channel(s).

(e) No receive site more than 35 miles from the transmitter site shall be used to establish basic eligibility.

NOTE 1: A ''local'' licensee (or applicant) is an institution or organization that is physically located in the community, or metropolitan area, where service is proposed. For a college or university, this would include any area where it has a campus. An educational organization will generally be regarded as ''local'' if the address of the organization's headquarters is located within the area where the facility is sought. An entity created by a state or local government for the purpose of serving formal educational needs will be considered ''local'' throughout the area within the government's jurisdiction over which its authority is intended to extend. An educational entity located within a state and created by affiliated educational institutions within that state, including hospitals, will be considered ''local'' in those areas where the member institutions are located.

NOTE 2: Documentation from proposed receive sites which are to establish the eligibility of an entity not serving its own enrolled students for credit should be in letter form, written and signed by an administrator or authority who is responsible for the receive site's curriculum planning. The administrator must indicate that the applicant's program offerings have been viewed and that such programming will be incorporated in the site's curriculum. The letter should discuss the types of programming and hours per week of formal and informal programming expected to be used and the site's involvement in the planning, scheduling and production of programming. If other levels of authority must be obtained before a firm commitment to utilize the service can be made, the nature and extent of such additional authorization(s) must be provided.

NOTE 3: Letters submitted on behalf of a nonlocal entity must confirm that a member of the receive site's staff will serve on the local program committee and demonstrate a recognition of the composition and power of the committee. The letter should show that the staff member will aid in the selection, scheduling and production of the programming received over the system.

[28 FR 13731, Dec. 14, 1963, as amended at 36 FR 8873, May 14, 1971; 49 FR 32596, Aug. 15, 1984; 50 FR 26760, June 28, 1985; 51 FR 9800, Mar. 21, 1986; 56 FR 57819, Nov. 14, 1991; 58 FR 44951, Aug. 25, 1993; 60 FR 20247, Apr. 25, 1995]

§74.933 Remote control operation.

Licensed ITFS stations may be operated by remote control without further authority.

[52 FR 3806, Feb. 6, 1987]

§74.934 Unattended operation.

Unattended operation of licensed ITFS stations is permitted without further authority.

(a) An unattended relay station may be employed to receive and retransmit signals of another station provided that the transmitter is equipped with circuits which permit it to radiate only when the signal intended to be retransmitted is present at the receiver input terminals.

[52 FR 3806, Feb. 6, 1987]

§74.935 Power limitations.

(a) The maximum equivalent isotropically radiated power (EIRP) of a transmitter station in this service shall not exceed 2000 watts (33 dBW) except as provided in paragraph (b) of this section.

(b) If a station uses a transmitting antenna with a non-omnidirectional horizontal plane radiation pattern, the maximum equivalent isotropically radiated power (EIRP) in dBW in a given direction shall be determined by the following formula:

EIRP=33 dBW+10 log (360/beamwidth) [where 10 log (360/beamwidth) ≤6 dB].

Beamwidth is the total horizontal plane beamwidth of the transmitting antenna system in degrees, measured at the half-power points.

(c) An increase in station transmitter power, above currently-authorized or previously-proposed values, to the maximum values provided in paragraphs (a) and (b) of this section, may be authorized, if an applicant demonstrates that the requested power increase will not cause harmful interference to any authorized or previously-proposed co-channel or adjacent-channel station with a transmitter site within 80.5 km (50 miles) of the applicant's transmitter site, or if an applicant demonstrates that:

(1) A station, that must be protected from interference, potentially could suffer interference that would be eliminated by increasing the power of the interfered-with station; and

(2) That the interfered-with station may increase its own power consistent with the rules; and

(3) The applicant requesting authorization of a power increase agrees to pay all expenses associated with the increase in power to the interfered-with station.

(d) For television transmission, the peak power of the accompanying aural signal must not exceed 10 percent of the peak visual power of the transmitter. The Commission may order a reduction in aural signal power to diminish the potential for harmful interference.

[55 FR 46013, Oct. 31, 1990, as amended at 58 FR 44951, Aug. 25, 1993]

§74.936 Emissions and bandwidth.

(a) An instrutional television fixed station shall normally employ amplitude modulation (A5) for the transmission of the visual signal and frequency modulation (F3) for the transmission of the aural signal.

(b) On or after November 1, 1991, the maximum out-of-band power of a transmitter operating in this service shall be attenuated 38 dB relative to the peak visual carrier at the channel edges and constant slope attenuation from this level to 60 dB relative to the peak visual carrier at 1 MHz below the lower band edge and 0.5 MHz above the upper band edge. All out-of-band emissions extending beyond these frequencies shall be attenuated at least 60 dB below the peak visual carrier power. However, should interference occur as a result of emissions outside the assigned channel, additional attenuation may be required. A transmitter licensed prior to November 1, 1991, that remains at the station site initially licensed, and does not comply with this paragraph, may continue to be used for its life if it does not cause harmful interference to the operation of any other licensee. Any non-conforming transmitter replaced after November 1, 1991, shall be replaced by a transmitter meeting the requirements of this paragraph.

(c) The requirements of §73.687(c)(2) of this chapter will be considered to be satisfied insofar as measurements of

operating power are concerned if the transmitter is equipped with instruments for determining the combined visual and aural operating power. However, licensees are expected to maintain the operating powers within the limits specified in § 74.935 of this part. Measurements of the separate visual and aural operating powers must be made at sufficiently frequent intervals to insure compliance with the rules, and in no event less than once a month.

(d) As a further exception to the other requirements of this section, transmitting equipment characteristics may vary from these requirements to the extent necessary to insure that transmitted information is not likely to be received in intelligible form by unauthorized subscribers or licensees, provided such variations permit recovery of the transmitted information without perceptible degradation as compared to the same information transmitted without such variations.

[28 FR 13731, Dec. 14, 1963, as amended at 55 FR 46014, Oct. 31, 1990]

§ 74.937 Antennas.

(a) In order to minimize the hazard of harmful interference from other stations, directive receiving antennas should be used at all receiving locations. The choice of receiving antennas is left to the discretion of the licensee. However, for the purpose of interference calculations, the general characteristics of the reference receiving antenna shown in Figure 1 of this section (i.e., a 0.6 meter (2 foot) parabolic reflector antenna) are assumed to be used in accordance with the provisions of § 74.903(a)(3) unless pertinent data is submitted of the actual antenna in use at the receive site. Licensees may install receiving antennas with general characteristics superior to those of the reference receive antenna. Nevertheless, should interference occur and it can be demonstrated by an applicant that the existing antenna at the receive site is inappropriate, a more suitable yet practical receiving antenna should be installed. In such cases, the modification of the receive site will be in the discretion, and will be the responsibility, of the licensee serving the site.

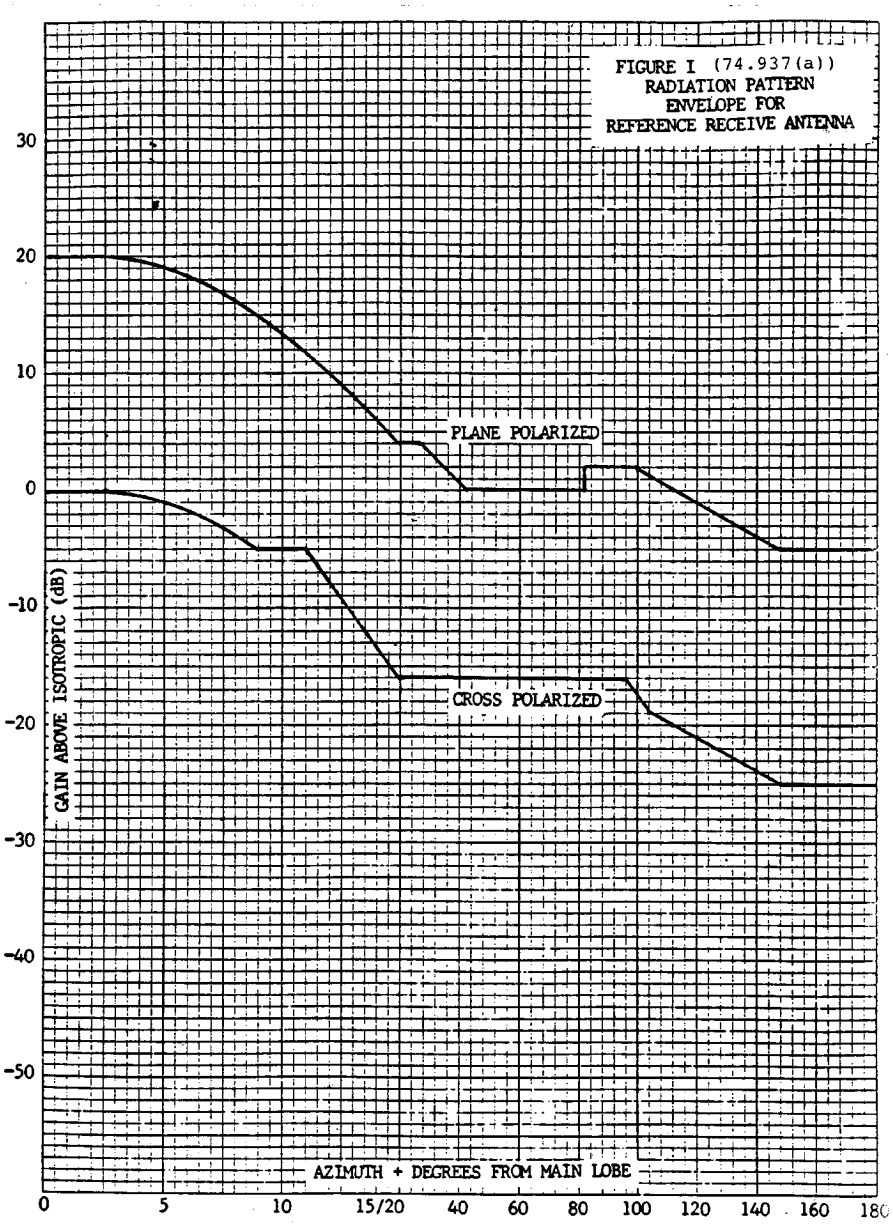
FIGURE I (74.937(a))
RADIATION PATTERN
ENVELOPE FOR
REFERENCE RECEIVE ANTENNA
PLANE POLARIZED
CROSS POLARIZED
GAIN ABOVE ISOTROPIC (dB)
30
20
10
0
-10
-20
-30
-40
-50
AZIMUTH + DEGREES FROM MAIN LOBE
0
5
10
15/20
40
60
80
100
120
140
160
180

(b) Directive transmitting antennas shall be used whenever feasible so as to minimize interference to other licensees. The radiation pattern shall be designed to minimize radiation in directions where no reception is intended. When an ITFS station is used for point-to-point service, an appropriate directional antenna must be used.

(c) The use of elevated receiving antennas is preferable to the use of elevated transmitting antennas or greater power to provide the desired service.

(d) The use of vertical or horizontal plane polarization or right-hand or left-hand rotating (circular) polarization may be used to minimize the hazard of harmful interference between systems. The Commission reserves the right to specify the polarization to be used.

(e) The power gain compared to an isotropic antenna and the directive properties of the transmitting and receiving antennas proposed to be employed, as well as the geometric distribution of the transmitting and receiving points, shall be supplied with each application for a new ITFS fixed station or for changes in the antenna facilities of an existing station.

[28 FR 13731, Dec. 14, 1963, as amended at 48 FR 9012, Mar. 3, 1983; 49 FR 32596, Aug. 15, 1984; 50 FR 26761, June 28, 1985; 52 FR 3806, Feb. 6, 1987; 58 FR 44951, Aug. 25, 1993]

§ 74.938 Transmission standards.

The width of an ITFS channel is 6 MHz. ITFS transmitters must be type accepted by the Commission for the particular visual and aural signals that will be employed in actual operation. Either the manufacturer or the licensee must obtain transmitter type acceptance for the transmitter by filing a application for type acceptance with appropriate information concerning the signal waveforms and measurements.

[28 FR 13731, Dec. 14, 1963, as amended at 49 FR 32596, Aug. 15, 1984; 55 FR 46014, Oct. 31, 1990]

§ 74.939 Special rules governing ITFS response stations.

(a) An ITFS response station is authorized to provide communication by voice and/or data signals with its associated instructional television fixed station for use in instructional or computer-assisted communications. Other communications concerning the technical operation of the system may be carried on when necessary.

(b) An ITFS response station may be operated only by the licensee of an instructional television fixed station and only at an authorized receiving location of the instructional television fixed station with which it communicates. More than one ITFS response station may be operated at the same or different locations by the same licensee. An application for authority to operate a new or modified response station shall be filed with the Commission in Washington, DC, on FCC Form 330. Section VI of that form shall supply the following information for each response station:

(1) The name of the school or other description of the building in which the ITFS response station will be located, the address, and the geographic coordinates of the ITFS response station transmitting antenna.

(2) The manufacturer's name, type number, operating frequency, and power output of the proposed ITFS response station transmitter.

(3) The type of transmitting antenna, power gain, and azimuthal orientation of the major lobe of radiation in degrees measured clockwise from True North.

(4) A sketch giving pertinent details of the ITFS response station transmitting antenna installation including ground elevation of the transmitter site above mean sea level; overall height above ground, including appurtenances, of any ground-mounted tower or mast on which the transmitting antenna will be mounted or, if the tower or mast is or will be located on an existing building or other manmade structure, the separate heights above ground of the building and the tower or mast including appurtenances; the location of the tower or mast on the building; the location of the transmitting antenna on the tower or mast; and the overall height of the transmitting antenna above ground. This can be combined with the sketch for the receiving location if the transmitting antenna is clearly shown.

(c) See Part 17 of this chapter concerning notification to the Federal Aviation Administration of proposed antenna construction or alteration. The provisions of §§ 74.967 and 74.981(a)(5), concerning antenna painting and lighting requirements, apply to ITFS response stations as well as main ITFS stations.

(d) All ITFS response stations communicating with a single instructional television fixed station shall operate on the same frequency. The specified frequency which may be used is determined by the channel assigned to the instructional television fixed station with which it is communicating, as shown in the following table. Operation on other ITFS response channels is prohibited.

ITFS Channel No.	ResponseFrequency (MHz)
A–1	2686.0625
A–2	2687.0625
A–3	2688.0625
A–4	2689.0625
B–1	2686.1875
B–2	2687.1875
B–3	2688.1875
B–4	2689.1875
C–1	2686.3125
C–2	2687.3125
C–3	2688.3125
C–4	2689.3125
D–1	2686.4375
D–2	2687.4375
D–3	2688.4375
D–4	2689.4375
E–1	2686.5625
E–2	2687.5625
E–3	2688.5625
E–4	2689.5625
F–1	2686.6875
F–2	2687.6875
F–3	2688.6875
F–4	2689.6875
G–1	2686.8125
G–2	2687.8125
G–3	2688.8125
G–4	2689.8125

(e) Transmitter power output will normally be limited to no more than 250 milliwatts. Upon a special showing of need, transmitter power output of up to 2 watts may be permitted.

(f) An ITFS response channel is 125 kHz wide and is centered at the assigned frequency. Either amplitude or frequency modulation can be employed. If amplitude modulation is used, the carrier shall not be modulated in excess of 100%. If frequency modulation is used, the deviation shall not exceed ±25 kHz. Any emissions outside the channel including harmonics shall be attenuated at least 60 dB below peak output power. Greater attenuation may be required if interference is caused by out-of-channel emissions.

(g) The unmodulated carrier frequency shall be maintained within 35 kHz of the assigned frequency at all times. Adequate means shall be provided to insure compliance with this rule.

(h) A directive transmitting antenna shall be employed, oriented toward the transmitter site of the associated instructional television fixed station. The beamwidth between half power points shall not exceed 15° and radiation in any minor lobe of the antenna radiation pattern shall be at least 20 dB below the power in the main lobe of radiation.

(i) The transmitter of an ITFS response station may be operated unattended. The overall performance of the ITFS response station transmitter shall be checked as often as necessary to ensure that it is functioning in accordance with the requirements of the Commission's rules. The licensee of an ITFS response station is responsible for the proper operation of the transmitter at all times. The transmitter shall be installed and protected in such manner as to prevent tampering or operation by unauthorized persons.

(j) The transmitting apparatus employed at ITFS response stations shall have received type acceptance in accordance with § 74.952.

(k) An ITFS response station shall be operated only when engaged in communication with its associated instructional television fixed station or for necessary equipment or system tests and adjustments. Radiation of an unmodulated carrier and other unnecessary transmissions are forbidden.

[34 FR 12101, July 18, 1969, as amended at 35 FR 4705, Mar. 18, 1970; 36 FR 11587, June 16, 1971; 48 FR 44807, Sept. 30, 1983; 52 FR 3806, Feb. 6, 1987; 53 FR 36788, Sept. 22, 1988; 60 FR 55483, Nov. 1, 1995]

§ 74.950 Equipment performance and installation.

(a) Except as otherwise provided in this section, the requirements of

§ 73.687 of this chapter regarding the installation and performance of television broadcast transmitters and associated equipment shall apply to instructional television fixed stations.

(b) The overall attenuation characteristics of the transmitter may vary from those specified in § 73.687 of this chapter, provided that the provisions of § 74.936 of this part are met. However, care should be exercised in the adjustment of the transmitter to insure correct overall response of the transmitter for proper transmission of the upper and vestigial lower sideband.

(c) The provisions of § 74.961 in lieu of § 73.687(c)(1) of this chapter apply with respect to the frequency tolerance for the visual carrier.

(d) The provisions of § 74.936 in lieu of § 73.687(i)(1) of this chapter apply with respect to spurious emissions and radio frequency harmonics.

(e) The requirements of § 73.687(c)(2) of this chapter will be considered to be met insofar as measurements of operating power are concerned, if the transmitter is equipped with instruments for determining the combined visual and aural operating power. However, licensees are expected to maintain the operating powers within the limits specified in the rules of this part. Measurements of the separate visual and aural operating powers should be made at sufficiently frequent intervals to ensure compliance with the rules.

(f) Transmitting apparatus (translators and boosters) used solely for relaying signals received from other ITFS stations and operating in the manner described in § 74.934(a)(2) shall meet the following requirements before being type accepted by the Commission.

(1) The frequency converter and associated amplifiers shall be so designed that the electrical characteristics of a standard television signal introduced into the input terminals will not be significantly altered by passage through the apparatus except as to frequency and amplitude. The overall response of the apparatus within its assigned channel when operating at its rated power output and measured at the output terminals, shall provide a smooth curve, varying within limits separated by no more than 4 dB: *Provided, however,* That means may be provided to reduce the amplitude of the aural carrier below those limits, if necessary to prevent intermodulation which would mar the quality of the retransmitted picture or result in emissions outside of the assigned channel.

(2) The suppression of emissions appearing outside of the assigned channel shall comply with § 74.936(b) and (c).

(3) The local oscillator employed in the frequency converter shall maintain its operating frequency within 0.02 percent of its rated frequency when subjected to variations in ambient temperature between minus 30° and plus 50° centigrade and variations in powerline voltage between 85 percent and 115 percent of the rated supply voltage.

(4) The apparatus shall contain automatic circuits which will maintain peak visual power output constant within 2 dB when the strength of the input signal is varied over a range of 30 dB and which will not permit the peak visual power output to exceed the maximum rated power output under any conditions. If a manual adjustment is provided to compensate for different average signal strengths, provision shall be made for determining the proper setting for the control. If improper adjustment of the control could result in improper operation a label bearing a suitable warning shall be affixed at the adjustment control: *Provided, however,* That apparatus with an output of 50 milliwatts peak visual power per channel or less need not comply with this paragraph, provided the equipment is so designed that the rated output power of the transmitter cannot be exceeded by more than 3 dB by an increase in the input signal.

(5) The apparatus shall be equipped with automatic controls which will place it in a nonradiating condition when no signal is being received on the input channel, either due to absence of a transmitted signal or failure of the receiving portion of the relay transmitter. In the case of equipment (translators or boosters) of 50 milliwatts peak visual power per channel or less relaying more than one channel it shall be turned off in the absence of the last signal to be relayed. The automatic

control may include a time delay feature to prevent interruptions in the operation of the relay transmitter caused by fading or other momentary failures of the incoming signal.

(6) The tube(s) or transistor(s) employed in the final radio frequency amplifier shall be of the appropriate power rating to provide the rated power output of the relay transmitter. The normal operating constants for operation at the rated power output shall be specified. The apparatus shall be equipped with suitable meters or meter jacks so that appropriate voltage and current measurements may be made while the apparatus is in operation.

(7) Boosters used in this service shall comply with all the provisions of this paragraph except with paragraph (f)(3). However, in addition, the isolation between the input and output circuits of the booster, including the receiving and transmitting antenna systems shall be at least 20 dB greater than the maximum overall gain of the booster amplifier. Boosters may use opposite antenna polarization of the input and output antennas.

[28 FR 13731, Dec. 14, 1963, as amended at 36 FR 8873, May 14, 1971; 48 FR 44807, Sept. 30, 1983; 55 FR 46014, Oct. 31, 1990]

§74.951 Modification of transmission systems.

Formal application on FCC Form 330 is required for any of the following changes or modifications of the transmission systems:

(a) Replacement of the transmitter as a whole, except replacement with a transmitter of identical power rating which has been type accepted by the FCC for use by instructional TV fixed stations, or any change which could result in a change in the electrical characteristics or performance of the station. Upon the installation or modification of the transmitting equipment for which prior FCC authority is not required under the provisions of this paragraph, the licensee shall place in the station records a certification that the new installation complies in all respects with the technical requirements of this part and the terms of the station authorization.

(b) Any change in the antenna system affecting the direction of radiation, directive radiation pattern, antenna gain, or radiated power.

(c) Any change in the overall height of the antenna structure, except where notice to the Federal Aviation Administration is specifically not required under §17.14(b) of the FCC Rules.

(d) Any change in the location of the transmission system except a move within the same building or upon the same antenna supporting structure.

(e) A change in frequency assignment.

(f) A change in the operating power.

(g) Any addition of receiving locations or to modify such a location to a receive and response station.

[45 FR 26068, Apr. 17, 1980, as amended at 50 FR 26761, June 28, 1985; 52 FR 3806, Feb. 6, 1987; 53 FR 36788, Sept. 22, 1988]

§74.952 Acceptability of equipment for licensing.

Each authorization for a station in this service requires the use of type accepted equipment. Requirements for obtaining a grant of equipment authorization are contained in subpart J of part 2 of the Rules.

(a) An application specifying a transmitter, translator, or booster not type accepted, may be filed by the applicant if the information and measurement data required for type acceptance under subpart J of part 2 of the Rules is submitted with the application. However, if that data has been filed with the Commission in connection with a request for type acceptance, it need not be resubmitted and may be referred to as ''on file.''

[52 FR 3806, Feb. 6, 1987]

§74.961 Frequency tolerance.

(a) Beginning November 1, 1991, the frequency of the visual carrier shall be maintained within ± 1 KHz of the assigned frequency at all times when the station is in operation. Until that date, the frequency of the visual carrier shall be maintained within 60 KHz of the assigned frequency at all times when the station is in operation. A transmitter licensed prior to November 1, 1991, that remains at the station site initially licensed and does not comply with this paragraph may continue to be used for its life if it does not cause

harmful interference to the operation of any other licensee. Any non-conforming transmitter replaced after November 1, 1991, must be replaced by a transmitter meeting the requirements of this paragraph.

(b) For television transmission, the peak power of the accompanying aural signal must not exceed 10 percent of the peak visual power of the transmitter.

(c) Any licensee with transmission equipment conforming to the transmitter tolerance standard of this section can be required to use frequency offset where it is demonstrated to be necessary to avoid harmful interference with another station.

[55 FR 46014, Oct. 31, 1990]

§ 74.962 Frequency monitors and measurements.

Suitable measurements shall be made as often as necessary to ensure that the operating frequencies of the station are within the prescribed tolerances.

[52 FR 3806, Feb. 6, 1987]

§ 74.963 Time of operation.

(a) An instructional television fixed station is not required to adhere to any regular schedule of operation. Unless otherwise specified in the license, the hours of operation are not limited.

(b) Except for purposes of tests and adjustments, the transmitter shall not be permitted to radiate unmodulated carriers or otherwise make unnecessary transmissions for extended periods of time.

§ 74.965 Posting of station license.

(a) The instrument of authorization of a clearly legible photocopy thereof, shall be available at each transmitter.

(b) If a station is operated unattended, the call sign and name of the licensee shall be displayed such that it may be read within the vicinity of the transmitter enclosure or antenna structure.

[52 FR 3807, Feb. 6, 1987]

§ 74.969 Copies of rules.

The licensee of an instructional television fixed station shall have a current copy of Parts 73 and 74 of this chapter. In cases where aeronautical hazard marking of antennas is required, such licensee shall also have a current copy of Part 17 of this chapter. Each licensee is expected to be familiar with the pertinent rules governing instructional television fixed stations.

[60 FR 55483, Nov. 1, 1995]

§ 74.970 Modulation limits.

(a) *Visual transmitter.* The maximum excursion of the luminance signal in the white direction shall not exceed the value specified in § 73.682(a)(13) of this chapter for the reference white level.

(b) *Aural transmitter.* The maximum frequency deviation of the aural carrier shall not be permitted to exceed ± 75 kHz on peaks of frequent recurrence during any transmission. This is defined as 100% modulation.

[28 FR 13731, Dec. 14, 1963, as amended at 49 FR 32596, Aug. 15, 1984]

§ 74.971 Modulation monitors and measurements.

Suitable means shall be provided to insure that the modulation limits specified in § 74.970 are observed.

§ 74.982 Station identification.

(a) Call signs for instructional television fixed stations will consist of three letters and three digits pursuant to the provisions of § 2.302 of this chapter relating to fixed stations.

(b) Except as otherwise provided in paragraphs (c) and (d) of this section, each instructional television fixed station shall transmit its call sign at the beginning and end of each period of operation and, during operation, on the hour. Visual or aural transmissions shall be employed.

(c) The hourly station identification announcement during operation may be deferred if it would interrupt a single consecutive demonstration, lecture, or other similar discourse or otherwise impair the continuity of a program in progress. In such cases the station identification announcement shall be made at the first normal break in the continuity of the program.

(d) In cases where an instructional television fixed station is operating as a relay for signals originating at some

other station operated by the same licensee, its call sign shall be announced by the originating station at the times and in the manner prescribed in paragraph (b) of this section.

(e) Where an instructional television fixed station is operating as a relay for signals originating at a station operated by some other licensee, its call sign may be transmitted by the originating station, if suitable arrangements can be made with the other licensee, or means shall be provided for the transmission of the call sign by the relay transmitter itself. Low power relay stations, authorized by §74.950(f)(4) will not be assigned individual call signs. Station identification will be accomplished by the retransmission of the call sign of the primary station.

(f) Temporary fixed ITFS stations shall identify with the call sign of the primary station and a temporary fixed identifier.

[28 FR 13731, Dec. 14, 1963, as amended at 36 FR 8873, May 4, 1971; 38 FR 25991, Sept. 17, 1973; 49 FR 32596, Aug. 15, 1984]

§74.984 Retransmissions.

An instructional television fixed station may not retransmit the signals of any class of station without consent of the station originating the signals to be retransmitted.

§74.985 Signal booster stations.

(a) Authorizations for Instructional Television Fixed Service (ITFS) booster stations may be granted to an ITFS applicant, permittee or licensee, or to a third party with a fully-executed lease agreement with an ITFS applicant, permittee, or licensee. The eligibility requirements of §74.932 will not apply to such third-party booster station applicants. A signal booster station may not extend service beyond a registered receive site of the primary ITFS station. No booster station may be authorized for retransmission of signals from an MDS, MMDS, or ITFS station without the written consent of the licensee of the station whose signals are retransmitted.

(b) In addition to the other application requirements of this Part and of Form 330, each application for a signal booster station that would retransmit an ITFS signal must include a demonstration that the proposed signal booster station will not transmit a signal to a receiver site that is beyond a previously-registered receive site of the primary ITFS station.

(c) In addition to the other application requirements of this part and of Form 330, each application for a signal booster station that would retransmit an ITFS signal must include a demonstration that the power flux density of the ITFS signal does not exceed -75.6 dBW/m^2 at the edge of a protected service area for the primary ITFS transmitter station, as defined by §21.902(d) of this chapter.

(d) In addition to the other application requirements of this part and of Forms 494 and 330, each application for a signal booster station must include a demonstration that the proposed signal booster station will cause no harmful interference to cochannel or adjacent-channel, authorized or previously-proposed ITFS, MDS, or MMDS, stations with transmitters within 80.5 km (50 miles) of the proposed booster station's transmitter site.

(e) In addition to the other application requirements of this part and of Forms 494 and 330, each application for a signal booster station must include a written consent statement of the licensee of each MDS, MMDS, and ITFS station whose signal is retransmitted.

(f) The output power of the signal booster transmitter station must not exceed 18 dBW EIRP.

(g) An MDS or ITFS licensee may install and commence operation of a signal booster station that has a maximum power level of -9 dBW EIRP and that does not extend service beyond the boundaries of an MDS station's protected service area or beyond an ITFS licensee's registered receive site, subject to the condition that for sixty (60) days after installation, no objection or petition to deny is filed by an authorized co-channel or adjacent channel ITFS or MDS station with a transmitter within 8 km (5 miles) (8.05 km) of the coordinates of the primary transmitter of the signal booster. An MDS or ITFS licensee seeking to install a signal booster under this rule must, within 48 hours after installation, submit a certification that:

(1) The maximum power level of the signal booster transmitter does not exceed −9 dBW EIRP;

(2) A description of the signal booster technical specifications (including antenna gain and azimuth), the coordinates of the booster and receivers, and the street address of the signal booster;

(3) No registered receiver of an ITFS E or F channel station, constructed prior to May 26, 1983, is located within a 1 mile (1.61 km) radius of the coordinates of the booster, or in the alternative, that a consent statement has been obtained from the affected ITFS licensee;

(4) No environmental assessment location as defined at §1.1307 of this chapter is affected by installation and/or operation of the signal booster;

(5) Each MDS and/or ITFS station licensee with protected service areas or registered receivers within a 8 km (5 mile) (8.05 km) radius of the coordinates of the booster has been given notice of its installation;

(6) Consent has been obtained from each MDS or ITFS station licensee whose signal is repeated by the signal booster;

(7) The signal booster site is within the protected service area of the MDS station, if the signal of an MDS station is repeated;

(8) The power flux density at the edge of the MDS station's protected service area does not exceed −75.6 dBW/m2, if the signal of an MDS station is repeated;

(9) The antenna structure will extend less than 6.10 meters (20 feet) above the ground or natural formation or less than 6.10 meters (20 feet) above an existing manmade structure (other than an antenna structure); and

(10) The MDS or ITFS licensee understands and agrees that in the event harmful interference is claimed by the filing of an objection or petition to deny, the licensee must terminate operation within two (2) hours of written notification by the Commission, and must not recommence operation until receipt of written authorization to do so by the Commission.

[56 FR 57601, Nov. 13, 1991, as amended at 58 FR 11799, Mar. 1, 1993; 58 FR 44951, Aug. 25, 1993]

§ 74.986 Involuntary ITFS station modifications.

(a) Parties specified in paragraph (b) of this section may, subject to Commission approval, involuntary modify the facilities of an existing ITFS licensee in the following situations:

(1) If the initiating party is prevented from invoking the 0 dB interference protection standard (see §21.902(f)(2) of this chapter and §74.903(a)(2) of this part) for projecting its impact on an existing ITFS licensee because of that licensee's pre-May 26, 1983, facilities, the applicant, permittee or licensee may modify the facilities of the pre-existing ITFS station with equipment adequate to perform at that level of interference;

(2) If the initiating party is prevented from operating at a higher transmitter output power or EIRP because such power level will cause harmful interference to an ITFS station and modifying the ITFS station will avoid such harmful interference;

(3) If the initiating party is prevented from installing a signal booster because such installation will cause harmful interference to an ITFS station and modifying the ITFS station will avoid harmful interference;

(4) If an ITFS licensee uses equipment incapable of meeting the aural power standard specified in §74.935(d) and that equipment becomes a source of harmful adjacent-channel interference, and other equipment would avoid such harmful intereference.

(5) If an ITFS licensee uses equipment incapable of meeting the transmitter tolerance standard specified in §74.961 of this part and that equipment becomes a source of harmful co-channel interference, and other equipment would avoid the harmful interference;

(6) If an ITFS licensee uses equipment incapable of meeting the out-of-band emissions standard specified in §74.936 of this part and that equipment becomes a source of harmful adjacent-channel interference, and other equipment would avoid the harmful interference; and

(7) If harmful adjacent-channel interference may be avoided by colocation of an ITFS facility with its own facilities.

(b) Involuntary modification may be sought by an MDS, MMDS or ITFS licensee, conditional licensee, permittee or applicant. Opposed applicants do not have authority to seek involuntary colocation. An opposed application is one that faces a competing application(s) or petition(s) to deny. Applicants will be required to confirm their unopposed status after the period for competing applications and petitions to deny has passed. If an initiating application is opposed, the companion ITFS modification application will be returned. It may be refiled when the initial application is again unopposed.

(c) The application for involuntary modification must be prepared, signed and filed by the initiating party. The applicant must submit FCC Form 330 but need not fill out section II (Legal Qualifications), and the application must include a cover letter clearly indicating that the modification is involuntary and identifying the parties involved. A copy of the application must be served on the affected ITFS party on or before the day of filing. The ITFS party to be modified will have a 60-day period in which to oppose the modification application; the opposition should state objections to the modification with specificity, including engineering and other challenges. If the modification includes colocation, the opponent should address the desirability of the present site compared to the proposed new site.

(d) The party initiating the modification will be responsible for all costs connected with the modification, including purchasing, testing and installing new equipment, labor costs, reconfiguration of existing equipment, administrative costs, legal and engineering expenses necessary to prepare and file the modification application, and other reasonable documented costs. The initiating party must secure a bond or establish an escrow account to cover reasonable incremental increase in ongoing expenses that will fall upon the modified ITFS entity and to cover expenses that would inure to the modified ITFS entity in the event the initiating party becomes bankrupt. In establishing a bond or escrow amount, such factors as projected electricity or maintenance expenses, or relocation expenses must be taken into account, as relevant in each case.

(e) The involuntarily modified facilities must be operational before the initiating party will be permitted to begin its new or modified operations. The modification must not disrupt the ITFS licensee's provision of service, and the ITFS licensee has the right to inspect the construction or installation work.

[56 FR 57820, Nov. 14, 1991]

§74.990 Use of available instructional television fixed service frequencies by wireless cable entities.

(a) Notwithstanding the provisions §§74.931 and 74.932 of this part, a wireless cable entity may be licensed on instructional television fixed service frequencies in areas where at least eight other instructional television fixed service channels remain available in the community for future ITFS use. Channels will be considered available for future ITFS use if there are no co-channel operators or applicants within 80.5 km (50 miles) of the transmitter site of the proposed wireless cable operation, and if the transmitter site remains available for use at reasonable terms by new ITFS applicants on those channels within three years of commencing operation.

(b) No more than eight instructional television fixed service channels per community may be licensed to wireless cable entities.

(c) To be licensed on instructional television fixed service channels, a wireless cable applicant must hold a conditional license, license or a lease, or must have filed an unopposed application for at least four MDS channels to be used in conjunction with the facilities proposed on the ITFS frequencies. An unopposed application is one that faces no competing application(s) or petition(s) to deny. Applicants will be required to confirm their unopposed status after the period for filing competing applications and petitions to deny has passed. If an MDS or MMDS application is opposed, the companion ITFS application will be returned.

(d) To be licensed on instructional television fixed service channels, a wireless cable applicant must show

that there are no multipoint distribution service or multichannel multipoint distribution service channels available for application, purchase or lease that could be used in lieu of the instructional television fixed service frequencies applied for. A wireless cable entity may apply for instructional television fixed service frequencies at the same time it applies for the related MDS or MMDS frequencies, but if that MDS or MMDS application is opposed by a timely filed mutually exclusive application or petition to deny, the application for ITFS facilities will be returned.

(e) If an instructional television fixed service application and a wireless cable application for available instructional television fixed service facilities are mutually exclusive, as defined at § 21.31(a) of this chapter, the instructional television fixed service application will be granted if the applicant is qualified. An instructional television fixed service applicant may not file an application mutually exclusive with a wireless cable application if there are other instructional television fixed service channels available for the proposed instructional television fixed service facility.

(f) The interference protection provided wireless cable applicants and licensees of instructional television fixed service facilities will be that described in § 21.902 of this chapter.

[56 FR 57820, Nov. 14, 1991, as amended at 58 FR 44951, Aug. 25, 1993]

§ 74.991 Wireless cable application procedures.

(a) A wireless cable applicant for available instructional television fixed service channels must file sections I and V of FCC Form 330, with a complete FCC Form 494 appended. A wireless cable applicant must include with its application a cover letter clearly indicating that the application is for a wireless cable entity to operate on ITFS channels. A wireless cable application for available instructional television fixed service channels will be subject to § 21.914 of this chapter with respect to other wireless cable applicants, and to the ITFS window filing period with respect to instructional television fixed service applications. All lists of accepted applications for ITFS frequencies, regardless of the nature of the applicant, will be published as ITFS public notices.

(b) Within 30 days of filing its application, a wireless cable applicant for available instructional television fixed service channels must give local public notice of the filing of its application in a newspaper. The local public notice must be made in a daily newspaper of general circulation published in the community in which the proposed station will be located at least twice a week for two consecutive weeks in a three week period. If there is no such daily newspaper, notice must be made in a weekly newspaper of general circulation published in the community once a week for three consecutive weeks in a four week period. If there is no daily or weekly newspaper published in the community, notice must be made in the daily newspaper, wherever published, that has the greatest general circulation in the community twice a week for two consecutive weeks within a three week period.

(c) The public notice required by paragraph (b) of this section shall contain, where applicable, the following information:

(1) The name of the applicant if the applicant is an individual, the names of all partners if the applicant is a partnership, or the names of all officers and directors and of those persons holding 10 percent or more of the capital stock or other ownership interest if the applicant is a corporation or an unincorporated association;

(2) The purpose for which the application will be filed (*i.e.*, for a construction permit for a wireless cable system);

(3) A statement that the channels applied for are ITFS channels normally reserved for educational use, and a list of the specific frequencies or channels on which the proposed station will operate;

(4) The date the application was tendered for filing with the FCC;

(5) The facilities sought, including type and class of station, power, location of studios, transmitter site and antenna height; and

(6) A statement that a copy of the application and related material are on

file for public inspection at a stated address in the community in which the station is located or is proposed to be located.

[56 FR 57821, Nov. 14, 1991, as amended at 60 FR 20247, Apr. 25, 1995]

§74.992 Access to channels licensed to wireless cable entities.

(a) An educational institution or entity that would be eligible for ITFS channels that are licensed to a wireless cable entity may be entitled to access to those channels. Requests for access may be made by application to the Commission on FCC Form 330 with a copy simultaneously served on the wireless cable licensee. An applicant for access must fill out sections I, II, III and IV of the ITFS application Form 330. Section I, question 1 should be answered by spelling out, ''For access to existing facilities.'' Section I, question 2b should include the name of the wireless cable licensee or applicant. A cover letter must clearly indicate that the application is for ITFS access to a wireless cable entity's facilities on ITFS channels.

(b) An ITFS entity determined by the Commission to have right of access to wireless cable licensed facilities may have access to a maximum of 40 hours per channel per week. The ITFS entity has the right to designate 20 of those hours as follows:

(1) 3 hours of the ITFS entity's choice each day, Monday through Friday, between 8 a.m. and 10 p.m., excluding weekends, holidays and school vacations; and

(2) The remaining five hours any time of the ITFS entity's choice between 8 a.m. and 10 p.m., Monday through Saturday.

(c) No time-of-day and day-of-week obligations will be imposed on either party with respect to the other 20 hours of access time.

(d) The ITFS user must provide the wireless cable licensee with its planned scheduled of use four months in advance. No minimum amount of programming will be required of an ITFS operator seeking access to one channel; for access to a second channel, the ITFS user must use at least 20 hours per week on the first channel from 8 a.m. to 10 p.m., Monday through Saturday; for access to a third channel, the ITFS entity must use at least 20 hours per week on the first channel and on the second channel during the hours prescribed above, and so on. Only one educational institution or entity per wireless cable licensed channel will be entitled to access from the wireless cable entity. Access will not be granted to a single entity for more than four channels, unless it can satisfy the waiver provisions of §74.902(d) of this part.

(e) When an ITFS entity is granted access to an ITFS channel of a wireless cable licensee, the wireless cable licensee will be required to pay half of the cost of five standard receive sites on that channel. The wireless cable entity may, at its option, pay the costs of an application and facility construction for such ITFS entity on other available ITFS channels, including half of the cost of five receive sites per channel.

(f) An instructional television fixed service entity granted access to instructional television fixed service channels licensed to a wireless cable entity will have the interference protection afforded ITFS licensees (see §74.903 of this part).

(g) After three years of operation, a wireless cable entity licensed to use ITFS channels will not be required to grant new or additional access to such ITFS channels, or provide any alternative facilities to any ITFS entity seeking access to its facilities, if there are suitable ITFS frequencies available for the ITFS entity to build its own system.

(h) The parties may mutually agree to modify any requirements or obligations imposed by these provisions, except for the requirement that an educational entity use at least 20 hours per week on a channel of a wireless cable licensee before requesting access to an additional channel.

[56 FR 57821, Nov. 14, 1991]

§74.996 Applicability of cable EEO requirements to ITFS facilities.

Notwithstanding other EEO provisions within §§1.815 and 21.307 of this chapter, an entity that uses an owned

or leased MDS, MMDS and/or ITFS facility to provide more than one channel of video programming directly to the public must comply with the equal employment opportunity requirements set forth in part 76, subpart E of this chapter, if such entity exercises control (as defined in part 76, subpart E of this chapter) over the video programming it distributes. With respect to the use of an ITFS facility, the EEO provisions set forth in part 76, subpart E do not apply to an accredited institution or government organization engaged in the formal education of enrolled students or to a nonprofit organization whose purposes are educational and include providing educational and instructional television material to such accredited institutions and governmental organizations.

[58 FR 42250, Aug. 9, 1993]

Subparts J—K [Reserved]

Subpart L—FM Broadcast Translator Stations and FM Broadcast Booster Stations

SOURCE: 35 FR 15388, Oct. 2, 1970, unless otherwise noted.

§ 74.1201 Definitions.

(a) *FM translator.* A station in the broadcasting service operated for the purpose of retransmitting the signals of an FM radio broadcast station or another FM broadcast translator station without significantly altering any characteristics of the incoming signal other than its frequency and amplitude, in order to provide FM broadcast service to the general public.

(b) *Commercial FM translator.* An FM broadcast translator station which rebroadcasts the signals of a commercial FM radio broadcast station.

(c) *Noncommercial FM translator.* An FM broadcast translator station which rebroadcasts the signals of a noncommercial educational FM radio broadcast station.

(d) *Primary station.* The FM radio broadcast station radiating the signals which are retransmitted by an FM broadcast translator station or an FM broadcast booster station.

(e) *FM radio broadcast station.* When used in this Subpart L, the term FM broadcast station or FM radio broadcast station refers to commercial and noncommercial educational FM radio broadcast stations as defined in § 2.1 of this chapter, unless the context indicates otherwise.

(f) *FM broadcast booster station.* A station in the broadcasting service operated for the sole purpose of retransmitting the signals of an FM radio broadcast station, by amplifying and reradiating such signals, without significantly altering any characteristic of the incoming signal other than its amplitude.

(g) *Translator coverage contour.* The coverage contour for an FM translator providing ''fill-in'' service is congruent with its parent station: For a fill-in translator for a commercial Class B station it is the predicted 0.5 mV/m field strength contour; for a fill-in translator for a commercial Cass B1 station it is the predicted 0.7 mV/m field strength contour; and for a fill-in translator for all other classes of commercial stations as well as all noncommercial educational stations it is the predicted 1 mV/m field strength contour. A fill-in FM translator's coverage contour must be contained within the primary station's coverage contour. The protected contour for an FM translator station is its predicted 1 mV/m contour.

(h) *Fill-in area.* The area where the coverage contour of an FM translator or booster station is within the protected contour of the associated primary station (*i.e.*, predicted 0.5 mV/m contour for commercial Class B stations, predicted 0.7 mV/m contour for commercial Class B1 stations, and predicted 1 mV/m contour for all other classes of stations).

(i) *Other area.* The area where the coverage contour of an FM translator station extends beyond the protected contour of the primary station (*i.e.*, predicted 0.5 mV/m contour for commercial Class B stations, predicted 0.7 mV/m contour for commercial Class B1 stations, and predicted 1 mV/m contour for all other classes of stations).

[35 FR 15388, Oct. 2, 1970, as amended at 45 FR 37842, June 5, 1980; 52 FR 31405, Aug. 20, 1987; 55 FR 50693, Dec. 10, 1990]

§ 74.1202 Frequency assignment.

(a) An applicant for a new FM broadcast translator station or for changes in the facilities of an authorized translator station shall endeavor to select a channel on which its operation is not likely to cause interference to the reception of other stations. The application must be specific with regard to the frequency requested. Only one output channel will be assigned to each translator station.

(b) Subject to compliance with all the requirements of this subpart, FM broadcast translators may be authorized to operate on the following FM channels, regardless of whether they are assigned for local use in the FM Table of Allotments (§ 73.202(b) of this chapter):

(1) *Commercial FM translators:* Channels 221–300 as identified in § 73.201 of this chapter.

(2) *Noncommercial FM translators:* Channels 201–300 as identified in § 73.201 of this chapter. Use of reserved channels 201–220 is subject to the restrictions specified in § 73.501 of this chapter.

(3) In Alaska, FM translators operating on Channels 201–260 (88.1–99.9 MHz) shall not cause harmful interference to and must accept interference from non-Government fixed operations authorized prior to January 1, 1982.

(c) An FM broadcast booster station will be assigned the channel assigned to its primary station.

[35 FR 15388, Oct. 2, 1970, as amended at 39 FR 12990, Apr. 10, 1974; 47 FR 30068, July 12, 1982; 52 FR 8260, Mar. 17, 1987; 55 FR 50693, Dec. 10, 1990]

§ 74.1203 Interference.

(a) An authorized FM translator or booster station will not be permitted to continue to operate if it causes any actual interference to:

(1) The transmission of any authorized broadcast station; or

(2) The reception of the input signal of any TV translator, TV booster, FM translator or FM booster station; or

(3) The direct reception by the public of the off-the-air signals of any authorized broadcast station including TV Channel 6 stations, Class D (secondary) noncommercial educational FM stations, and previously authorized and operating FM translators and FM booster stations. Interference will be considered to occur whenever reception of a regularly used signal is impaired by the signals radiated by the FM translator or booster station, regardless of the quality of such reception, the strength of the signal so used, or the channel on which the protected signal is transmitted.

(b) If interference cannot be properly eliminated by the application of suitable techniques, operation of the offending FM translator or booster station shall be suspended and shall not be resumed until the interference has been eliminated. Short test transmissions may be made during the period of suspended operation to check the efficacy of remedial measures. If a complainant refuses to permit the FM translator or booster licensee to apply remedial techniques which demonstrably will eliminate the interference without impairment to the original reception, the licensee of the FM translator or booster station is absolved of further responsibility for that complaint.

(c) An FM booster station will be exempted from the provisions of paragraphs (a) and (b) of this section to the extent that it may cause limited interference to its primary station's signal, *provided* it does not disrupt the existing service of its primary station or cause such interference within the boundaries of the principal community of its primary station.

(d) A fill-in FM translator operating on the first, second or third adjacent channel to its primary station's channel will be exempt from the provisions of paragraphs (a) and (b) of this section to the extent that it may cause limited interference to its primary station's signal, *provided* it does not disrupt the existing service of its primary station or cause such interference within the boundaries of the principal community of its primary station.

(e) It shall be the responsibility of the licensee of an FM translator or FM booster station to correct any condition of interference which results from the radiation of radio frequency energy by its equipment on any frequency outside the assigned channel. Upon notice

by the Commission to the station licensee that such interference is being caused, the operation of the FM translator or FM booster station shall be suspended within three minutes and shall not be resumed until the interference has been eliminated or it can be demonstrated that the interference is not due to spurious emissions by the FM translator or FM booster station; *provided, however,* that short test transmissions may be made during the period of suspended operation to check the efficacy of remedial measures.

[55 FR 50693, Dec. 10, 1990, as amended at 60 FR 55484, Nov. 1, 1995]

§ 74.1204 Protection of FM broadcast stations and FM translators.

(a) An application for an FM translator station will not be accepted for filing if the proposed operation would involve overlap of predicted field strength contours with any other authorized station, including commercial and noncommercial educational FM broadcast stations, FM translators and Class D (secondary) noncommercial educational FM stations, as set forth below:

(1) Commercial Class B FM Stations (Protected Contour: 0.5 mV/m)

Frequency separation	Interference contour of proposed translator station	Protected contour of commercial Class B station
Co-channel.	0.05 mV/m (34 dBu)	0.5 mV/m (54 dBu).
200 kHz	0.25 mV/m (48 dBu)	0.5 mV/m (54 dBu).
400 kHz	5.00 mV/m (74 dBu)	0.5 mV/m (54 dBu).
600 kHz	50.0 mV/m (94 dBu)	0.5 mV/m (54 dBu).

(2) Commercial Class B1 FM Stations (Protected Contour: 0.7 mV/m)

Frequency separation	Interference contour of proposed translator station	Protected contour of commercial Class B1 station
Co-channel.	0.07 mV/m (37 dBu)	0.7 mV/m (57 dBu).
200 kHz	0.35 mV/m (51 dBu)	0.7 mV/m (57 dBu).
400 kHz	7.00 mV/m (77 dBu)	0.7 mV/m (57 dBu).
600 kHz	70.0 mV/m (97 dBu)	0.7 mV/m (57 dBu).

(3) All Other Classes of FM Stations (Protected Contour: 1 mV/m

Frequency separation	Interference contour of proposed translator station	Protected contour of any other station
Co-channel.	0.1 mV/m (40 dBu)	1 mV/m (60 dBu).
200 kHz	0.5 mV/m (54 dBu)	1 mV/m (60 dBu).
400 kHz	10 mV/m (80 dBu)	1 mV/m (60 dBu).
600 kHz	100 mV/m (100 dBu)	1 mV/m (60 dBu).

(b) The following standards must be used to compute the distances to the pertinent contours:

(1) The distances to the protected contours are computed using Figure 1 of § 73.333 [F(50,50) curves] of this chapter.

(2) The distances to the interference contours are computed using Figure 1a of § 73.333 [F(50,10) curves] of this chapter. In the event that the distance to the contour is below 16 kilometers (approximately 10 miles), and therefore not covered by Figure 1a, curves in Figure 1 must be used.

(3) The effective radiated power (ERP) to be used is the maximum ERP of the main radiated lobe in the pertinent azimuthal direction. If the transmitting antenna is not horizontally polarized only, either the vertical component or the horizontal component of the ERP should be used, whichever is greater in the pertinent azimuthal direction.

(4) The antenna height to be used is the height of the radiation center above the average terrain along each pertinent radial, determined in accordance with § 73.313(d) of this chapter.

(c) An application for a change (other than a change in channel) in the authorized facilities of an FM translator station will be accepted even though overlap of field strength contours would occur with another station in an area where such overlap does not already exist, if:

(1) The total area of overlap with that station would not be increased:

(2) The area of overlap with any other station would not increase;

(3) The area of overlap does not move significantly closer to the station receiving the overlap; and,

(4) No area of overlap would be created with any station with which the overlap does not now exist.

(d) The provisions of this section concerning prohibited overlap will not apply where the area of such overlap lies entirely over water. In addition, an application otherwise precluded by this section will be accepted if it can be demonstrated that no actual interference will occur due to intervening terrain, lack of population or such other factors as may be applicable.

(e) The provisions of this section will not apply to overlap between a proposed fill-in FM translator station and its primary station operating on a first, second or third adjacent channel, *provided* That such operation may not result in interference to the primary station within its principal community.

(f) An application for an FM translator station will not be accepted for filing even though the proposed operation would not involve overlap of field strength contours with any other station, as set forth in paragraph (a) of this section, if the predicted 1 mV/m field strength contour of the FM translator station will overlap a populated area already receiving a regularly used, off-the-air signal of any authorized co-channel, first, second or third adjacent channel broadcast station, including Class D (secondary) noncommercial educational FM stations and grant of the authorization will result in interference to the reception of such signal.

(g) An application for an FM translator or an FM booster station that is 53 or 54 channels removed from an FM radio broadcast station will not be accepted for filing if it fails to meet the required separation distances set out in § 73.207 of this chapter. For purposes of determining compliance with § 73.207 of this chapter, translator stations will be treated as Class A stations and booster stations will be treated the same as their FM radio broadcast station equivalents. FM radio broadcast station equivalents will be determined in accordance with §§ 73.210 and 73.211 of this chapter, based on the booster station's ERP and HAAT. Provided, however, that FM translator stations and booster stations operating with less than 100 watts ERP will be treated as class D stations and will not be subject to intermediate frequency separation requirements.

(h) An application for an FM translator station will not be accepted for filing if it specifies a location within 320 kilometers (approximately 199 miles) of either the Canadian or Mexican borders and it does not comply with § 74.1235(d) of this part.

(i) FM booster stations shall be subject to the requirement that the signal of any first adjacent channel station must exceed the signal of the booster station by 6 dB at all points within the protected contour of any first adjacent channel station, except that in the case of FM stations on adjacent channels at spacings that do not meet the minimum distance separations specified in § 73.207 of this chapter, the signal of any first adjacent channel station must exceed the signal of the booster by 6 dB at any point within the predicted interference free contour of the adjacent channel station.

(j) FM translator stations authorized prior to June 1, 1991 with facilities that do not comply with the predicted interference protection provisions of this section, may continue to operate, provided that operation is in conformance with § 74.1203 regarding actual interference. Applications for major changes in FM translator stations must specify facilities that comply with provisions of this section.

[55 FR 50694, Dec. 10, 1990, as amended at 56 FR 56170, Nov. 1, 1991; 58 FR 42025, Aug. 6, 1993]

§ 74.1205 Protection of channel 6 TV broadcast stations.

The provisions of this section apply to all applications for construction permits for new or modified facilities for a noncommercial educational FM translator station on Channels 201–220, unless the application is accompanied by a written agreement between the NCE–FM translator applicant and each affected TV Channel 6 broadcast station licensee or permittee concurring with the proposed NCE–FM translator facility.

(a) An application for a construction permit for new or modified facilities for a noncommercial educational FM translator station operating on Channels 201–220 must include a showing that demonstrates compliance with paragraph (b), (c) or (d) of this section

if it is within the following distances of a TV broadcast station which is authorized to operate on Channel 6.

FM Channel	Distance (kilometers)
201	148
202	146
203	143
204	141
205	140
206	137
207	135
208	135
209	135
210	135
211	135
212	135
213	135
214	134
215	134
216	133
217	133
218	132
219	132
220	131

(b) *Collocated stations.* An application for a noncommercial educational FM translator station operating on Channels 201–220 and located at 0.4 kilometer (approximately 0.25 mile) or less from a TV Channel 6 station will be accepted if it includes a certification that the applicant has coordinated its antenna with the affected TV station.

(c) *Contour overlap.* Except as provided in paragraph (b) of this section, an application for a noncommercial educational FM translator station operating on Channels 201–220 will not be accepted if the proposed operation would involve overlap of its interference field strength contour with any TV Channel 6 station's Grade B contour, as set forth below.

(1) The distances to the TV Channel 6 station Grade B (47 dBu) field strength contour will be predicted according to the procedures specified in § 73.684 of this chapter, using the F(50,50) curves in § 73.699, Figure 9 of this chapter.

(2) The distances to the applicable noncommercial educational FM translator interference contour will be predicted according to the procedures specified in § 74.1204(b) of this part.

(3) The applicable noncommercial educational FM translator interference contours are as follows:

FM channel	Interference Contour F(50,10) curves (dBu)
201	54
202	56
203	59
204	62
205	64
206	69
207	73
208	73
209	73
210	73
211	73
212	74
213	75
214	77
215	78
216	80
217	81
218	85
219	88
220	90

(d) FM translator stations authorized prior to June 1, 1991 with facilities that do not comply with the predicted interference protection provisions of this section, may continue to operate, provided that operation is in conformance with § 74.1203 regarding actual interference. Applications for major changes in FM translator stations must specify facilities that comply with the provisions of this section.

[55 FR 50695, Dec. 10, 1990, as amended at 58 FR 42025, Aug. 6, 1993]

§ 74.1231 Purpose and permissible service.

(a) FM translators provide a means whereby the signals of FM broadcast stations may be retransmitted to areas in which direct reception of such FM broadcast stations is unsatisfactory due to distance or intervening terrain barriers.

(b) An FM translator may be used for the purpose of retransmitting the signals of a primary FM radio broadcast station or another translator station which have been received directly through space, converted, and suitably amplified. However, an FM translator providing fill-in service may use any terrestrial facilities to receive the signal that is being rebroadcast. An FM booster station or a noncommercial educational FN translator station operating on a reserved channel (Channels 201–220) and owned and operated by

the licensee of the primary noncommercial educational FM station it rebroadcasts may use alternative signal delivery means, including, but not limited to, satellite and terrestrial microwave facilities. *Provided*, however, that an applicant for a noncommercial educational FM translator station operating on a reserved channel (Channel 201–220) and owned and operated by the licensee of the primary noncommercial educational FM station it rebroadcasts complies with either paragraph (b)(1) or (b)(2) of this section:

(1) The applicant demonstrates that:

(i) The transmitter site of the proposed FM translator station is within 80 kilometers of the predicted 1 mV/m contour of the primary station to be rebroadcast; or,

(ii) The transmitter site of the proposed FM translator station is more than 160 kilometers from the transmitter site of any authorized full service noncommercial educational FM station; or,

(iii) The application is mutually exclusive with an application containing the showing as required by § 74.1231(b)(2) (i) or (ii) of this section; or,

(iv) The application is filed after October 1, 1992.

(2) If the transmitter site of the proposed FM translator station is more than 80 kilometers from the predicted 1 mV/m contour of the primary station to be rebroadcast or is within 160 kilometers of the transmitter site of any authorized full service noncommercial educational FM station, the applicant must show that:

(i) An alternative frequency can be used at the same site as the proposed FM translator's transmitter location and can provide signal coverage to the same area encompassed by the applicant's proposed 1 mV/m contour; or,

(ii) An alternative frequency can be used at a different site and can provide signal coverage to the same area encompassed by the applicant's proposed 1 mV/m contour.

NOTE: For paragraphs 74.1231(b) and 74.1231(h) of this section, auxiliary intercity relay station frequencies may be used to deliver signals to FM translator and booster stations on a secondary basis only. Such use shall not interfere with or otherwise preclude use of these frequencies for transmitting aural programming between the studio and transmitter location of a broadcast station, or between broadcast stations, as provided in paragraphs 74.531 (a) and (b) of this part. Prior to filing an application for an auxiliary intercity relay microwave frequency, the applicant shall notify the local frequency coordination committee, or, in the absence of a local frequency coordination committee, any licensees assigned the use of the proposed operating frequency in the intended location or area of operation.

(c) The transmissions of each FM translator or booster station shall be intended only for direct reception by the general public. An FM translator or booster shall not be operated solely for the purpose of relaying signals to one or more fixed received points for retransmission, distribution, or further relaying in order to establish a point-to-point FM radio relay system.

(d) The technical characteristics of the retransmitted signals shall not be deliberately altered so as to hinder reception on conventional FM broadcast receivers.

(e) An FM translator shall not deliberately retransmit the signals of any station other than the station it is authorized to retransmit. Precautions shall be taken to avoid unintentional retransmission of such other signals.

(f) A locally generated radio frequency signal similar to that of an FM broadcast station and modulated with aural information may be connected to the input terminals of an FM translator for the purpose of transmitting voice announcements. The radio frequency signals shall be on the same channel as the normally used off-the-air signal being rebroadcast. Connection of the locally generated signals shall be made by any automatic means when transmitting originations concerning financial support. The connections for emergency transmissions may be made manually. The apparatus used to generate the local signal that is used to modulate the FM translator must be capable of producing an aural signal which will provide acceptable reception on FM receivers designed for the transmission standards employed by FM broadcast stations.

(g) The aural material transmitted as permitted in paragraph (f) of this section shall be limited to emergency warnings of imminent danger and to seeking or acknowledging financial support deemed necessary to the continued operation of the translator. Originations concerning financial support are limited to a total of 30 seconds an hour. Within this limitation the length of any particular announcement will be left to the discretion of the translator station licensee. Solicitations of contributions shall be limited to the defrayal of the costs of installation, operation and maintenance of the translator or acknowledgements of financial support for those purposes. Such acknowledgements may include identification of the contributors, the size or nature of the contributions and advertising messages of contributors. Emergency transmissions shall be no longer or more frequent than necessary to protect life and property.

(h) FM broadcast booster stations provide a means whereby the licensee of an FM broadcast station may provide service to areas in any region within the primary station's predicted, authorized service contours. An FM broadcast booster station is authorized to retransmit only the signals of its primary station which have been received directly through space and suitably amplified, or received by alternative signal delivery means including, but not limited to, satellite and terrestrial microwave facilities. The FM booster station shall not retransmit the signals of any other station nor make independent transmissions, except that locally generated signals may be used to excite the booster apparatus for the purpose of conducting tests and measurements essential to the proper installation and maintenance of the apparatus.

NOTE: In the case of an FM broadcast station authorized with facilities in excess of those specified by §73.211 of this chapter, an FM booster station will only be authorized within the protected contour of the class of station being rebroadcast as predicted on the basis of the maximum powers and heights set forth in that section for the applicable class of FM broadcast station concerned.

[35 FR 15388, Oct. 2, 1970, as amended at 45 FR 37842, June 5, 1980; 52 FR 31406, Aug. 20, 1987; 53 FR 14803, Apr. 26, 1988; 54 FR 35342, Aug. 25, 1989; 55 FR 50695, Dec. 10, 1990; 57 FR 41111, Sept. 9, 1992; 58 FR 42026, Aug. 6, 1993]

§ 74.1232 Eligibility and licensing requirements.

(a) Subject to the restrictions set forth in paragraph (d) of this section, a license for an FM broadcast translator station may be issued to any qualified individual, organized group of individuals, broadcast station licensee, or local civil governmental body, upon an appropriate showing that plans for financing the installation and operation of the translator are sufficiently sound to assure prompt construction of the translator and dependable service.

(b) More than one FM translator may be licensed to the same applicant, whether or not such translators serve substantially the same area, upon an appropriate showing of technical need for such additional stations. FM translators are not counted as FM stations for the purpose of §73.3555 of this chapter concerning multiple ownership.

NOTE: As used in this section need refers to the quality of the signal received and not to the programming content, format, or transmission needs of an area.

(c) Only one input and one output channel will be assigned to each FM translator. Additional FM translators may be authorized to provide additional reception. A separate application is required for each FM translator and each application shall be complete in all respects.

(d) An authorization for an FM translator whose coverage contour extends beyond the protected contour of the commercial primary station will not be granted to the licensee or permittee of a commercial FM radio broadcast station. Similarly, such authorization will not be granted to any person or entity having any interest whatsoever, or any connection with a primary FM station. Interested and connected parties extend to group owners, corporate parents, shareholders, officers, directors,

employees, general and limited partners, family members and business associates. For the purposes of this paragraph, the protected contour of the primary station shall be defined as follows: the predicted 0.5mV/m contour for commercial Class B stations, the predicted 0.7 mV/m contour for commercial Class B1 stations and the predicted 1 mV/m field strength contour for all other FM radio broadcast stations. The contours shall be as predicted in accordance with §73.313(a) through (d) of this chapter. In the case of an FM radio broadcast station authorized with facilities in excess of those specified by §73.211 of this chapter, a co-owned commercial FM translator will only be authorized within the protected contour of the class of station being rebroadcast, as predicted on the basis of the maximum powers and heights set forth in that section for the applicable class of FM broadcast station concerned. An FM translator station in operation prior to March 1, 1991, which is owned by a commercial FM (primary) station and whose coverage contour extends beyond the protected contour of the primary station, may continue to be owned by such primary station until March 1, 1994. Thereafter, any such FM translator station must be owned by independent parties. An FM translator station in operation prior to June 1, 1991, which is owned by a commercial FM radio broadcast station and whose coverage contour extends beyond the protected contour of the primary station, may continue to be owned by a commercial FM radio broadcast station until June 1, 1994. Thereafter, any such FM translator station must be owned by independent parties.

(e) An FM translator station whose coverage contour goes beyond the protected contour of the commercial primary station shall not receive any support, before or after construction, either directly or indirectly, from the commercial primary FM radio broadcast station. Such support also may not be received from any person or entity having any interest whatsoever, or any connection with the primary FM station. Interested and connected parties extend to group owners, corporate parents, shareholders, officers, directors, employees, general and limited partners, family members and business associates. Such an FM translator station may, however, receive technical assistance from the primary station to the extent of installing or repairing equipment or making adjustments to equipment to assure compliance with the terms of the translator station's construction permit and license. FM translator stations in operation prior to March 1, 1991 may continue to receive contributions or support from the commercial primary station for the operation and maintenance of the translator station until March, 1, 1994. Thereafter, any such FM translator station shall be subject to the prohibitions on support contained in this section. Such an FM translator station may, however, receive technical assistance from the primary station to the extent of installing or repairing equipment or making adjustments to equipment to assure compliance with the terms of the translator station's construction permit and license. FM translator stations in operation prior to June 1, 1991 may continue to receive contributions or support from a commercial FM radio broadcast station for the operation and maintenance of the translator station until June 1, 1994. Thereafter, any such FM translator station shall be subject to the prohibitions on support contained in this section.

NOTE: ''Technical assistance'' refers to actual services provided by the primary station's technical staff or compensation for the time and services provided by independent engineering personnel. Conversely, such support must not include the supply of equipment or direct funding for the translator's discretionary use. ''Technical assistance'' must occur after the issuance of the translator's construction permit or license in order to meet expenses incurred by installing, repairing, or making adjustments to equipment.

(f) An FM broadcast booster station will be authorized only to the licensee or permittee of the FM radio broadcast station whose signals the booster station will retransmit, to serve areas within the protected contour of the primary station, subject to Note, §74.1231(h) of this part.

(g) No numerical limit is placed upon the number of FM booster stations

which may be licensed to a single licensee. A separate application is required for each FM booster station. FM broadcast booster stations are not counted as FM broadcast stations for the purposes of § 73.5555 of this chapter concerning multiple ownership.

(h) Any authorization for an FM translator station issued to an applicant described in paragraphs (d) and (e) of this section will be issued subject to the condition that it may be terminated at any time, upon not less than sixty (60) days written notice, where the circumstances in the community or area served are so altered as to have prohibited grant of the application had such circumstances existed at the time of its filing.

[35 FR 15388, Oct. 2, 1970, as amended at 43 FR 14660, Apr. 7, 1978; 52 FR 10571, Apr. 2, 1987; 52 FR 31406, Aug. 20, 1987; 55 FR 50696, Dec. 10, 1990; 58 FR 42026, Aug. 6, 1993]

§ 74.1233 Processing FM translator and booster station applications.

(a) Applications for FM translator and booster stations are divided into two groups:

(1) In the first group are applications for new stations or for major changes in the facilities of authorized stations. In the case of FM translator stations, a major change is any change in frequency (output channel), or change (only the gain should be included in determining amount of change) or increase (but not decrease) in area to be served greater than ten percent of the previously authorized 1 mV/m contour. All other changes will be considered minor. All major changes are subject to the provisions of §§ 73.3580 and 1.1104 of this chapter pertaining to major changes.

(2) In the second group are applications for licenses and all other changes in the facilities of the authorized station.

(b) Applications for FM translator and booster stations will be processed as nearly as possible in the order in which they are filed. Such applications will be placed in the processing line in numerical sequence, and will be drawn by the staff for study, the lowest file number first. In order that those applications which are entitled to be grouped for processing may be fixed prior to the time processing of the earliest filed application is begun, the FCC will periodically release a Public Notice listing applications which have been accepted for filing and announcing a date (not less than 30 days after publication) on which the listed applications will be considered available and ready for processing and by which all mutually exclusive applications and/or petitions to deny the listed applications must be filed.

(c) In the case of an application for an instrument of authorization, other than a license pursuant to a construction permit, grant will be based on the application, the pleadings filed, and such other matters that may be officially noticed. Before a grant can be made it must be determined that:

(1) There is not pending a mutually exclusive application filed in accordance with paragraph (b) of this section.

(2) The applicant is legally, technically, financially and otherwise qualified;

(3) The applicant is not in violation of any provisions of law, the FCC rules, or established policies of the FCC; and

(4) A grant of the application would otherwise serve the public interest, convenience and necessity.

(d) Applications for FM translator stations proposing to provide fill-in service (within the primary station's protected contour) of the commonly owned primary station will be given priority over all other applications.

(e) Where applications for FM translator stations are mutually exclusive and do not involve a proposal to provide fill-in service of a commonly owned primary station, the FCC may stipulate different frequencies as necessary for the applicants.

(f) Where there are no available frequencies to substitute for a mutually exclusive application, the FCC will base its decision on the following priorities: (1) First full-time aural services; (2) second full-time aural services; and (3) other public interest matters including, but not limited to the number of aural services received in the proposed service area, the need for or lack of public radio service, and other matters such as the relative size of the proposed communities and their growth rate.

(g) Where the procedures in paragraph (d), (e) and (f) of this section fail to resolve the mutual exclusivity, the applications will be processed on a first-come-first-served basis.

[55 FR 50697, Dec. 10, 1990]

§ 74.1234 Unattended operation.

(a) A station authorized under this subpart may be operated without a designated person in attendance if the following requirements are met:

(1) If the transmitter site cannot be reached promptly at all hours and in all seasons, means shall be provided so that the transmitting apparatus can be turned on and off at will from a point which is readily accessible at all hours and in all seasons.

(2) The transmitter shall also be equipped with suitable automatic circuits which will place it in a nonradiating condition in the absence of a signal on the input channel.

(3) The on-and-off control (if at a location other than the transmitter site) and the transmitting apparatus, shall be adequately protected against tampering by unauthorized persons.

(4) The Commission shall be supplied with the name, address, and telephone number of a person or persons who may be contacted to secure suspension of operation of the translator promptly should such action be deemed necessary by the Commission. Such information shall be kept current by the licensee.

(5) Where the antenna and supporting structure are required to be painted and lighted under the provisions of Part 17 of this chapter, the licensee shall make suitable arrangements for the daily inspection and logging of the obstruction lighting and associated control equipment as required by §§ 17.47, 17.48, and 17.49 of this chapter.

(b) An application for authority to construct a new station pursuant to this subpart or to make changes in the facilities of such a station, which proposes unattended operation shall include an adequate showing as to the manner of compliance with this section.

[35 FR 15388, Oct. 2, 1970, as amended at 37 FR 18540, Sept. 13, 1972; 38 FR 25992, Sept. 17, 1973; 60 FR 55484, Nov. 1, 1995]

§ 74.1235 Power limitations and antenna systems.

(a) An application for an FM translator station filed by the licensee or permittee of the primary station to provide fill-in service within the primary station's coverage area will not be accepted for filing if it specifies an effective radiated power (ERP) which exceeds 250 watts.

(b) An application for an FM translator station, other than one for fill-in service which is covered in paragraph (a) of this section, will not be accepted for filing if it specifies an effective radiated power (ERP) which exceeds the maximum ERP (MERP) value determined in accordance with this paragraph. The antenna height above average terrain (HAAT) shall be determined in accordance with § 73.313(d) of this chapter for each of 12 distinct radials, with each radial spaced 30 degrees apart and with the bearing of the first radial bearing true north. Each raidal HAAT value shall be rounded to the nearest meter. For each of the 12 radial directions, the MERP is the value corresponding to the calculated HAAT in the following tables that is appropriate for the location of the translator. For an application specifying a nondirectional transmitting antenna, the specified ERP must not exceed the smallest of the 12 MERP's. For an application specifying a directional transmitting antenna, the ERP in each azimuthal direction must not exceed the MERP for the closest of the 12 radial directions.

(1) For FM translators located east of the Mississippi River or in Zone I–A as described in § 73.205(b) of this chapter:

Radial HAAT (meters)	Maximum ERP (MERP in watts)
Less than or equal to 32	250
33 to 39	170
40 to 47	120
48 to 57	80
58 to 68	55
69 to 82	38
83 to 96	27
97 to 115	19
116 to 140	13
Greater than or equal to 141	10

(2) For FM translators located in all other areas:

Radial HAAT (meters)	Maximum ERP (MERP in watts)
Less than or equal to 107	250
108 to 118	205
119 to 130	170
131 to 144	140
145 to 157	115
158 to 173	92
174 to 192	75
193 to 212	62
213 to 235	50
236 to 260	41
261 to 285	34
286 to 310	28
311 to 345	23
346 to 380	19
381 to 425	15.5
426 to 480	13
481 to 540	11
Greater than or equal to 541	10

(c) The effective radiated power of FM booster stations shall be limited such that the predicted service contour of such stations computed in accordance with §73.313, paragraphs (a) through (d) of this chapter, may not extend beyond the area covered by the predicted service contour of the primary station that they rebroadcast and that such FM booster effective radiated power may not exceed 20 percent of the maximum allowable effective radiated power for the primary station's class.

(1) Applications for FM booster stations located within 320 kilometers of the Mexican border will not be accepted for filing if they specify more than 10 watts transmitter power output.

(2) Applications for FM booster stations located within 320 kilometers of the Canadian border will not be accepted for filing where the predicted interference or primary service contour of the proposed booster station would extend beyond the corresponding contour of the primary FM station being rebroadcast.

(d) Applications for FM translator stations located within 320 km of the Canadian border will not be accepted if they specify more than 50 watts effective radiated power in any direction or have a 34 dBu interference contour, calculated in accordance with §74.1204 of this part, that exceeds 32 km. FM translator stations located within 320 kilometers of the Mexican border must be separated from Mexican allotments and assignments in accordance with §73.207(b)(3) of this chapter and are limited to a transmitter power output of 10 watts or less. For purposes of compliance with that section, FM translators will be considered as Class D FM stations.

(e) In no event shall a station authorized under this subpart be operated with a transmitter power output (TPO) in excess of the transmitter type-accepted rating. A station authorized under this subpart for a TPO that is less than its transmitter type-accepted rating shall determine its TPO in accordance with §73.267 of this chapter and its TPO shall not be more than 105 percent of the authorized TPO.

(f) Composite antennas and antenna arrays may be used where the total ERP does not exceed the maximum determined in accordance with paragraphs (a), (b) or (c) of this section.

(g) Either horizontal, vertical, circular or elliptical polarization may be used provided that the supplemental vertically polarized ERP required for circular or elliptical polarization does not exceed the ERP otherwise authorized. Either clockwise or counterclockwise rotation may be used. Separate transmitting antennas are permitted if both horizontal and vertical polarization is to be provided.

(h) All applications must comply with §73.316, paragraphs (d) and (e) of this chapter.

(i) An application that specifies use of a directional antenna must comply with §73.316, paragraphs (c)(1) through (c)(3) of this chapter. Prior to issuance of a license, the applicant must: (1) Certify that the antenna is mounted in accordance with the specific instructions provided by the antenna manufacturer; and (2) certify that the antenna is mounted in the proper orientation. In instances where a directional antenna is proposed for the purpose of providing protection to another facility, a condition may be included in the construction permit requiring that before program tests are authorized, a permittee: (1) Must submit the results of a complete proof-of-performance to establish the horizontal plane radiation patterns for both the horizontally and vertically polarized radiation components; and, (2) must certify that the relative field strength of neither the measured horizontally nor

vertically polarized radiation component shall exceed at any azimuth the value indicated on the composite radiation pattern authorized by the construction permit.

NOTE: Existing licensees and permittees that do not furnish data sufficient to calculate the contours in conformance with § 74.1204 will be assigned protected contours having the following radii:

Up to 10 watts—1 mile (1.6 km) from transmitter site.

Up to 100 watts—2 miles (3.2 km) from transmitter site.

Up to 250 watts—4 miles (6.5 km) from transmitter site.

(j) FM translator stations authorized prior to June 1, 1991, with facilities that do not comply with the ERP limitation of paragraph (a) or (b) of this section, as appropriate, may continue to operate, provided that operation is in conformance with § 74.1203 regarding interference. Applications for major changes in FM translator stations must specify facilities that comply with paragraph (a) or (b) of this section, as appropriate.

[55 FR 50697, Dec. 10, 1990, as amended at 56 FR 56170, Nov. 1, 1991; 58 FR 42026, Aug. 6, 1993; 62 FR 51063, Sept. 30, 1997]

EFFECTIVE DATE NOTE: At 62 FR 51063, Sept. 30, 1997, § 74.1235 was amended by revising paragraph (h), effective Dec. 1, 1997. For the convenience of the user, the superseded text is set forth as follows:

§ 74.1235 Power limitations and antenna systems.

* * * * *

(h) All applications must comply with § 73.316, paragraphs (d) through (h) of this chapter.

* * * * *

§ 74.1236 Emission and bandwidth.

(a) The license of a station authorized under this subpart allows the transmission of either F3 or other types of frequency modulation (see § 2.201 of this chapter) upon a showing of need, as long as the emission complies with the following:

(1) For transmitter output powers no greater than 10 watts, paragraphs (b), (c), and (d) of this section apply.

(2) For transmitter output powers greater than 10 watts, § 73.317 (a), (b), (c), and (d) apply.

(b) Standard width FM channels will be assigned and the transmitting apparatus shall be operated so as to limit spurious emissions to the lowest practicable value. Any emissions including intermodulation products and radiofrequency harmonics which are not essential for the transmission of the desired aural information shall be considered to be spurious emissions.

(c) The power of emissions appearing outside the assigned channel shall be attenuated below the total power of the emission as follows:

Distance of emission from center frequency	Minimum attenuation below unmodulated carrier
120 to 240 kHz	25 dB
Over 240 and up to 600 kHz	35 dB
Over 600 kHz	60 dB

(d) Greater attenuation than that specified in paragraph (c) of this section may be required if interference results outside the assigned channel.

[35 FR 15388, Oct. 2, 1970, as amended at 52 FR 31406, Aug. 20, 1987; 55 FR 50698, Dec. 10, 1990]

§ 74.1237 Antenna location.

(a) An applicant for a new station to be authorized under this subpart or for a change in the facilities of such a station shall endeavor to select a site which will provide a line-of-sight transmission path to the entire area intended to be served and at which there is available a suitable signal from the primary station. The transmitting antenna should be placed above growing vegetation and trees lying in the direction of the area intended to be served, to minimize the possiblity of signal absorption by foliage.

(b) Consideration should be given to accessibility of the site at all seasons of the year and to the availability of facilities for the maintenance and operation of the FM translator.

(c) Consideration should be given to the existence of strong radiofrequency fields from other transmitters at the translator site and the possibility that

such fields may result in the retransmission of signals originating on frequencies other than that of the primary station.

(d) The transmitting antenna of an FM booster station shall be located within the protected contour of its primary station, subject to Note, § 74.1231 (h). The transmitting antenna of a commonly owned commercial FM translator station shall be located within the protected contour of its commercial primary FM station.

(e) A translator or booster station to be located on an AM antenna tower or located within 3.2 km of an AM antenna tower must comply with § 73.1692 of this chapter.

[35 FR 15388, Oct. 2, 1970, as amended at 55 FR 50698, Dec. 10, 1990; 58 FR 42026, Aug. 6, 1993; 62 FR 51063, Sept. 30, 1997]

EFFECTIVE DATE NOTE: At 62 FR 51063, Sept. 30, 1997, § 74.1237 was amended by adding paragraph (e), effective Dec. 1, 1997.

§ 74.1250 Transmitters and associated equipment.

(a) FM translator and booster transmitting apparatus, and exciters employed to provide a locally generated and modulated input signal to translator and booster equipment, used by stations authorized under the provisions of this subpart must be type accepted or notified upon the request of any manufacturer of transmitters in accordance with this section and subpart J of part 2 of this chapter. If acceptable, the apparatus will be included in the FCC's ''Radio Equipment List, Equipment Acceptable for Licensing.'' In addition, FM translator and booster stations may use FM broadcast transmitting apparatus notified or type accepted under the provisions of part 73 of this chapter.

(b) Transmitting antennas, antennas used to receive signals to be rebroadcast, and transmission lines are not subject to the requirement for type acceptance.

(c) The following requirements must be met before translator, booster or exciter equipment will be notified or type accepted in accordance with this section:

(1) Radio frequency harmonics and spurious emissions must conform with the specifications of § 74.1236 of this part.

(2) The local oscillator or oscillators, including those in an exciter employed to provide a locally generated and modulated input signal to a translator or booster, when subjected to variations in ambient temperature between minus 30 degrees and plus 50 degrees centigrade, and in primary supply voltage between 85 percent and 115 percent of the rated value, shall be sufficiently stable to maintain the output center frequency within plus or minus 0.005 percent of the operating frequency and to enable conformance with the specifications of § 74.1261 of this part.

(3) The apparatus shall contain automatic circuits to maintain the power output in conformance with § 74.1235(e) of this part. If provision is included for adjusting the power output, then the normal operating constants shall be specified for operation at both the rated power output and the minimum power output at which the apparatus is designed to operate. The apparatus shall be equipped with suitable meters or meter jacks so that the operating constants can be measured while the apparatus is in operation.

(4) Apparatus rated for transmitter power output of more than 1 watt shall be equipped with automatic circuits to place it in a nonradiating condition when no input signal is being received in conformance with § 74.1263(b) of this part and to transmit the call sign in conformance with § 74.1283(c)(2) of this part.

(5) For exciters, automatic means shall be provided for limiting the level of the audio frequency voltage applied to the modulator to ensure that a frequency swing in excess of 75 kHz will not occur under any condition of the modulation.

[55 FR 50698, Dec. 10, 1990]

§ 74.1251 Technical and equipment modifications.

(a) No change, either mechanical or electrical, except as provided in § 2.1001 of this chapter, may be made in FM translator or booster apparatus which has been type accepted by the Commission without prior authority of the Commission.

(b) Formal application on FCC Form 349 is required of all permittees and licensees for any of the following changes:

(1) Replacement of the transmitter as a whole, except replacement with a transmitter of identical power rating which has been type accepted by the FCC for use by FM translator or FM booster stations, or any change which could result in the electrical characteristics or performance of the station. Upon the installation or modification of the transmitting equipment for which prior FCC authority is not required under the provisions of this paragraph, the licensee shall place in the station records a certification that the new installation complies in all respects with the technical requirements of this part and the terms of the station authorization.

(2) A change in the transmitting antenna system, including the direction of radiation or directive antenna pattern.

(3) Any change in the overall height of the antenna structure except where notice to the Federal Aviation Administration is specifically not required under § 17.14(b) of this chapter.

(4) Any change in the location of the translator or booster except a move within the same building or upon the same pole or tower.

(5) Any horizontal change in the location of the antenna structure which would (i) be in excess of 152.4 meters (500 feet), or (ii) would require notice to the Federal Aviation Administration pursuant to § 17.7 of the FCC's rules.

(6) Any change of input or output frequency of a translator.

(7) Any change of authorized effective radiated power.

(8) Any change in area being served.

(c) Changes in the primary FM station being retransmitted must be submitted to the FCC in writing.

(d) Any application proposing a change in the height of the antenna structure or its location must also include the Antenna Structure Registration Number (FCC Form 854R) of the antenna structure upon which it proposes to locate its antenna. In the event the antenna structure does not have a Registration Number, either the antenna structure owner shall file FCC Form 854 (''Application for Antenna Structure Registration'') in accordance with part 17 of this chapter or the applicant shall provide a detailed explanation why registration and clearance are not required.

[35 FR 15388, Oct. 2, 1970, as amended at 45 FR 26068, Apr. 17, 1980; 47 FR 24580, June 7, 1982; 50 FR 3525, Jan. 25, 1985; 50 FR 23710, June 5, 1985; 55 FR 50698, Dec. 10, 1991; 61 FR 4368, Feb. 6, 1996]

§ 74.1261 Frequency tolerance.

(a) The licensee of an FM translator or booster station with an authorized transmitter power output of 10 watts or less shall maintain the center frequency at the output of the translator within 0.01 percent of its assigned frequency.

(b) The licensee of an FM translator or booster station with an authorized transmitter power output greater than 10 watts shall maintain the center frequency at the output of the translator or booster station in compliance with the requirement of § 73.1545(b)(1) of this chapter.

[55 FR 50699, Dec. 10, 1990]

§ 74.1262 Frequency monitors and measurements.

(a) The licensee of a station authorized under this subpart is not required to provide means for measuring the operating frequency of the transmitter. However, only equipment having the required stability will be approved for use by an FM translator or booster.

(b) In the event that a station authorized under this subpart is found to be operating beyond the frequency tolerance prescribed in § 74.1261, the licensee shall promptly suspend operation of the station and shall not resume operation until the station has been restored to its assigned frequency. Adjustment of the frequency determining circuits of an FM translator or booster shall be made by a qualified person in accordance with § 74.1250(g).

§ 74.1263 Time of operation.

(a) The licensee of an FM translator or booster station is not required to adhere to any regular schedule of operation. However, the licensee of an FM translator or booster station is expected to provide a dependable service

to the extent that such is within its control and to avoid unwarranted interruptions to the service provided.

(b) An FM translator or booster station rebroadcasting the signal of a primary station shall not be permitted to radiate during extended periods when signals of the primary station are not being retransmitted.

(c) The licensee of an FM translator or booster station must notify the Commission of its intent to discontinue operations for 30 or more consecutive days. Notification must be made within 10 days of the time the station first discontinues operation and Commission approval must be obtained for such discontinued operation to continue beyond 30 days. The notification shall specify the causes of the discontinued operation and a projected date for the station's return to operation, substantiated by supporting documentation. If the projected date for the station's return to operation cannot be met, another notification and further request for discontinued operations must be submitted in conformance with the requirements of this section. Within 48 hours of the station's return to operation, the licensee must notify the Commission of such fact. All notification must be in writing.

(d) The licensee of an FM translator or booster station must notify the Commission of its intent to permanently discontinue operations at least two days before operation is discontinued. Immediately after discontinuance of operation, the licensee shall forward the station license and other instruments of authorization to the FCC, Washington, DC for cancellation.

(e) Failure of an FM translator or booster station to operate for a period of 30 or more consecutive days, except for causes beyond the control of the licensee or authorized pursuant to paragraph (c) of this section, shall be deemed evidence of discontinuation of operation and the license of the station may be cancelled at the discretion of the Commission. Furthermore, the station's license will expire as a matter of law, without regard to any causes beyond control of the licensee or to any authorization pursuant to paragraph (c) of this section, if the station fails to transmit broadcast signals for any consecutive 12-month period, notwithstanding any provision, term, or condition of the license to the contrary.

[55 FR 50699, Dec. 10, 1990, as amended at 61 FR 28768, June 6, 1996]

§ 74.1265 Posting of station license.

(a) The station license and any other instrument of authorization or individual order concerning the construction of the station or the manner of operation shall be kept in the station record file maintained by the licensee so as to be available for inspection upon request to any authorized representative of the Commission.

(b) The call sign of the translator or booster together with the name, address, and telephone number of the licensee or local representative of the licensee if the licensee does not reside in the community served by the translator or booster, and the name and address of a person and place where station records are maintained, shall be displayed at the translator or booster site on the structure supporting the transmitting antenna, so as to be visible to a person standing on the ground at the transmitter site. The display shall be prepared so as to withstand normal weathering for a reasonable period of time and shall be maintained in a legible condition by the licensee.

[35 FR 15388, Oct. 2, 1970, as amended at 40 FR 24901, June 11, 1975]

§ 74.1269 Copies of rules.

The licensee or permittee of a station authorized under this subpart shall have a current copy of Volumes I (parts 0, 1, 2 and 17) and III (parts 73 & 74) of the Commission's Rules and shall make the same available for use by the operator in charge. Each such licensee or permittee shall be familiar with those rules relating to stations authorized under this subpart. Copies of the Commission's Rules may be obtained from the Superintendent of Documents, Government Printing Office, Washington, DC 20402.

[55 FR 50699, Dec. 10, 1990]

§ 74.1281 Station records.

(a) The licensee of a station authorized under this Subpart shall maintain adequate station records, including the

current instrument of authorization, official correspondence with the FCC, maintenance records, contracts, permission for rebroadcasts, and other pertinent documents.

(b) Entries required by § 17.49 of this chapter concerning any observed or otherwise known extinguishment or improper functioning of a tower light:

(1) The nature of such extinguishment or improper functioning.

(2) The date and time the extinguishment of improper operation was observed or otherwise noted.

(3) The date, time and nature of adjustments, repairs or replacements made.

(c) The station records shall be maintained for inspection at a residence, office, or public building, place of business, or other suitable place, in one of the communities of license of the translator or booster, except that the station records of a booster or translator licensed to the licensee of the primary station may be kept at the same place where the primary station records are kept. The name of the person keeping station records, together with the address of the place where the records are kept, shall be posted in accordance with § 74.1265(b) of the rules. The station records shall be made available upon request to any authorized representative of the Commission.

(d) Station logs and records shall be retained for a period of two years.

[48 FR 44807, Sept. 30, 1983]

§ 74.1283 Station identification.

(a) The call sign of an FM broadcast translator station will consist of the initial letter K or W followed by the channel number assigned to the translator and two letters. The use of the initial letter will generally conform to the pattern used in the broadcast service. The two letter combinations following the channel number will be assigned in order and requests for the assignment of particular combinations of letters will not be considered.

(b) The call sign of an FM booster station will consist of the call sign of the primary station followed by the letters ''FM'' and the number of the booster station being authorized, e.g., WFCCFM–1.

(c) A translator station authorized under this subpart shall be identified by one of the following methods.

(1) By arranging for the primary station whose station is being rebroadcast to identify the translator station by call sign and location. Three such identifications shall be made during each day: once between 7 a.m. and 9 a.m., once between 12:55 p.m. and 1:05 p.m. and once between 4 p.m. and 6 p.m. Stations which do not begin their broadcast before 9 a.m. shall make their first identification at the beginning of their broadcast days. The licensee of an FM translator whose station identification is made by the primary station must arrange for the primary station licensee to keep in its file, and to make available to FCC personnel, the translator's call letters and location, giving the name, address and telephone number of the licensee or his service representative to be contacted in the event of malfunction of the translator. It shall be the responsibility of the translator licensee to furnish current information to the primary station licensee for this purpose.

(2) By transmitting the call sign in International Morse Code at least once each hour. Transmitters of FM broadcast translator stations of more than 1 watt transmitter output power must be equipped with an automatic keying device that will transmit the call sign at least once each hour, unless there is in effect a firm agreement with the translator's primary station as provided in § 74.1283(c)(1) of this section. Transmission of the call sign can be accomplished by:

(i) Frequency shifting key; the carrier shift shall not be less than 5 kHz nor greater than 25 kHz.

(ii) Amplitude modulation of the FM carrier of at least 30 percent modulation. The audio frequency tone use shall not be within 200 hertz of the Emergency Broadcast System Attention signal alerting frequencies.

(d) FM broadcast booster stations shall be identified by their primary stations, by the broadcasting of the primary station's call signs and location, in accordance with the provisions of § 73.1201 of this chapter.

(e) The Commission may, in its discretion, specify other methods of identification.

[55 FR 50699, Dec. 10, 1990]

§ 74.1284 Rebroadcasts.

(a) The term *rebroadcast* means the reception by radio of the programs or other signals of a radio station and the simultaneous retransmission of such programs or signals for direct reception by the general public.

(b) The licensee of an FM translator shall not rebroadcast the programs of any FM broadcast station or other FM translator without obtaining prior consent of the primary station whose programs are proposed to be retransmitted. The Commission shall be notified of the call letters of each station rebroadcast and the licensee of the FM translator shall certify that written consent has been received from the licensee of the station whose programs are retransmitted.

(c) An FM translator is not authorized to rebroadcast the transmissions of any class of station other than an FM broadcast station or another FM translator.

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[50 FR 38535, Sept. 23, 1985, as amended at 51 FR 34622, Sept. 30, 1986; 52 FR 37316, Oct. 6, 1987; 52 FR 47569, Dec. 15, 1987]

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SOURCE: 37 FR 3278, Feb. 12, 1972, unless otherwise noted.

Subpart A—General

§ 76.1 Purpose.

The rules and regulations set forth in this part provide for the certification of cable television systems and for their operation in conformity with standards for carriage of television broadcast signals, program exclusivity, cablecasting, access channels, and related matters.

§ 76.3 Other pertinent rules.

Other pertinent provisions of the Commission's rules and regulations relating to the Cable Television Service are included in the following parts of this chapter:

Part 0—Commission Organization.
Part 1—Practice and Procedure.
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Part 91—Industrial Radio Services.

[37 FR 13864, June 14, 1972, as amended at 59 FR 67103, Dec. 28, 1994]

§ 76.5 Definitions.

(a) *Cable system or cable television system.* A facility consisting of a set of closed transmission paths and associated signal generation, reception, and control equipment that is designed to provide cable service which includes video programming and which is provided to multiple subscribers within a community, but such term does not include:

(1) A facility that services only to retransmit the television signals of one or more television broadcast stations;

(2) A facility that serves subscribers without using any public right-of-way;

(3) A facility of a common carrier which is subject, in whole or in part, to

the provisions of Title II of the Communications Act of 1934, as amended, except that such facility shall be considered a cable system to the extent such facility is used in the transmission of video programming directly to subscribers, unless the extent of such use is solely to provide interactive on-demand services;

(4) An open video system that complies with Section 653 of the Communications Act; or

(5) Any facilities of any electric utility used solely for operating its electric utility systems.

NOTE TO PARAGRAPH (a): The provisions of Subparts D and F of this part shall also apply to all facilities defined previously as cable systems on or before April 28, 1985, except those that serve subscribers without using any public right-of-way.

(b) *Television station; television broadcast station.* Any television broadcast station operating on a channel regularly assigned to its community by § 73.606 of this chapter, and any television broadcast station licensed by a foreign government: *Provided, however,* That a television broadcast station licensed by a foreign government shall not be entitled to assert a claim to carriage, program exclusivity, or retransmission consent authorization pursuant to subpart D or F of this part, but may otherwise be carried if consistent with the rules on any service tier.

(c) *Television translator station.* A television broadcast translator station as defined in § 74.701 of this chapter.

(d) *Grade A and Grade B contours.* The field intensity contours defined in § 73.683(a) of this chapter.

(e) *Specified zone of a television broadcast station.* The area extending 56.3 air km (35 air miles) from the reference point in the community to which that station is licensed or authorized by the Commission. A list of reference points is contained in § 76.53. A television broadcast station that is authorized but not operating has a specified zone that terminates eighteen (18) months after the initial grant of its construction permit.

(f) *Major television market.* The specified zone of a commercial television station licensed to a community listed in § 76.51, or a combination of such specified zones where more than one community is listed.

(g) *Designated community in a major television market.* A community listed in § 76.51.

(h) *Smaller television market.* The specified zone of a commercial television station licensed to a community that is not listed in § 76.51.

(i) *Significantly viewed.* Viewed in other than cable television households as follows: (1) For a full or partial network station—a share of viewing hours of at least 3 percent (total week hours), and a net weekly circulation of at least 25 percent; and (2) for an independent station—a share of viewing hours of at least 2 percent (total week hours), and a net weekly circulation of at least 5 percent. See § 76.54.

NOTE: As used in this paragraph, ''share of viewing hours'' means the total hours that noncable television households viewed the subject station during the week, expressed as a percentage of the total hours these households viewed all stations during the period, and ''net weekly circulation'' means the number of noncable television households that viewed the station for 5 minutes or more during the entire week, expressed as a percentage of the total noncable television households in the survey area.

(j) *Full network station.* A commercial television broadcast station that generally carries in weekly prime time hours 85 percent of the hours of programing offered by one of the three major national television networks with which it has a primary affiliation (i.e., right of first refusal or first call).

(k) *Partial network station.* A commercial television broadcast station that generally carries in prime time more than 10 hours of programming per week offered by the three major national television networks, but less than the amount specified in paragraph (j) of this section.

(l) *Independent station.* A commercial television broadcast station that generally carries in prime time not more than 10 hours of programing per week offered by the three major national television networks.

(m) A network program is any program delivered simultaneously to more than one broadcast station regional or national, commercial or noncommercial.

(n) *Prime time.* The 5-hour period from 6 to 11 p.m., local time, except that in the central time zone the relevant period shall be between the hours of 5 and 10 p.m., and in the mountain time zone each station shall elect whether the period shall be 6 to 11 p.m. or 5 to 10 p.m.

NOTE: Unless the Commission is notified to the contrary, a station in the mountain time zone shall be presumed to have elected the 6 to 11 p.m. period.

(o) *Cablecasting.* Programming (exclusive of broadcast signals) carried on a cable television system. See paragraphs (y), (z) and (aa) (Classes II, III, and IV cable television channels) of this section.

(p) *Origination cablecasting.* Programing (exclusive of broadcast signals) carried on a cable television system over one or more channels and subject to the exclusive control of the cable operator.

(q) *Legally qualified candidate.* (1) Any person who:

(i) Has publicly announced his or her intention to run for nomination or office;

(ii) Is qualified under the applicable local, State or Federal law to hold the office for which he or she is a candidate; and

(iii) Has met the qualifications set forth in either paragraphs (q)(2), (3) or (4) of this section.

(2) A person seeking election to any public office including that of President or Vice President of the United States, or nomination for any public office except that of President or Vice President, by means of a primary, general or special election, shall be considered a legally qualified candidate if, in addition to meeting the criteria set forth in paragraph (q)(1) of this section, that person:

(i) Has qualified for a place on the ballot, or

(ii) Has publicly committed himself or herself to seeking election by the write-in method and is eligible under applicable law to be voted for by sticker, by writing in his or her name on the ballot or by other method, and makes a substantial showing that he or she is a bona fide candidate for nomination or office.

Persons seeking election to the office of President or Vice President of the United States shall, for the purposes of the Communications Act and the rules thereunder, be considered legally qualified candidates only in those States or territories (or the District of Columbia) in which they have met the requirements set forth in paragraphs (q) (1) and (2) of this rule; except that any such person who has met the requirements set forth in paragraphs (q) (1) and (2) in at least 10 States (or nine and the District of Columbia) shall be considered a legally qualified candidate for election in all States, territories and the District of Columbia for purposes of this Act.

(3) A person seeking nomination to any public office except that of President or Vice President of the United States, by means of a convention, caucus or similar procedure, shall be considered a legally qualified candidate if, in addition to meeting the requirements set forth in paragraph (q)(1) of this section, that person makes a substantial showing that he or she is a bona fide candidate for such nomination; except that no person shall be considered a legally qualified candidate for nomination by the means set forth in this paragraph prior to 90 days before the beginning of the convention, caucus or similar procedure in which he or she seeks nomination.

(4) A person seeking nomination for the office of President or Vice President of the United States shall, for the purposes of the Communications Act and the rules thereunder, be considered a legally qualified candidate only in those States or territories (or the District of Columbia) in which, in addition meeting the requirements set forth in paragraph (q)(1) of this section.

(i) He or she, or proposed delegates on his or her behalf, have qualified for the primary of Presidential preference ballot in that State, territory or the District of Columbia, or

(ii) He or she has made a substantial showing of bona fide candidacy for such nomination in that State, territory of the District of Columbia; except that such person meeting the requirements set forth in paragraph (q) (1) and (4) in at least 10 States (or nine and the District of Columbia) shall be considered a

legally qualified candidate for nomination in all States, territories and the District of Columbia for purposes of the Act.

(5) The term ''substantial showing'' of bona fide candidacy as used in paragraph (q) (2), (3) and (4) of this section means evidence that the person claiming to be a candidate has engaged to a substantial degree in activities commonly associated with political campaigning. Such activities normally would include making campaign speeches, distributing campaign literature, issuing press releases, maintaining a campaign headquarters (even though the headquarters in some instances might be the residence of the candidate or his campaign manager). Not all of the listed activities are necessarily required in each case to demonstrate a substantial showing, and there may be activities not listed herein which would contribute to such a showing.

(r) *Class I cable television channel.* A signaling path provided by a cable television system to relay to subscriber terminals television broadcast programs that are received off-the-air or are obtained by microwave or by direct connection to a television broadcast station.

(s) *Class II cable television channel.* A signaling path provided by a cable television system to deliver to subscriber terminals television signals that are intended for reception by a television broadcast receiver without the use of an auxilliary decoding device and which signals are not involved in a broadcast transmission path.

(t) *Class III cable television channel.* A signaling path provided by a cable television system to deliver to subscriber terminals signals that are intended for reception by equipment other than a television broadcast receiver or by a television broadcast receiver only when used with auxiliary decoding equipment.

(u) *Class IV cable television channel.* A signaling path provided by a cable television system to transmit signals of any type from a subscriber terminal to another point in the cable television system.

(v) *Subscriber terminal.* The cable television system terminal to which a subscriber's equipment is connected. Separate terminals may be provided for delivery of signals of various classes.

NOTE: Terminal devices interconnected to subscriber terminals of a cable system shall comply with subpart H of part 15.

(w) *System noise.* That combination of undesired and fluctuating disturbances within a cable television channel that degrades the transmission of the desired signal and that is due to modulation processes or thermal or other noise-producing effects, but does not include hum and other undesired signals of discrete frequency. System noise is specified in terms of its rms voltage or its mean power level as measured in the 4 MHz bandwidth between 1.25 and 5.25 MHz above the lower channel boundary of a cable television channel.

(x) *Terminal isolation.* The attenuation, at any subscriber terminal, between that terminal and any other subscriber terminal in the cable television system.

(y) *Visual signal level.* The rms voltage produced by the visual signal during the transmission of synchronizing pulses.

(z) *Affiliate.* When used in relation to any person, another person who owns or controls, is owned or controlled by, or is under common ownership or control with, such person.

(aa) *Person.* An individual, partnership, association, joint stock company, trust, corporation, or governmental entity.

(bb) *Significant interest.* A cognizable interest for attributing interests in broadcast, cable, and newspaper properties pursuant to §§ 73.3555, 73.3615, and 76.501.

(cc) *Cable system operator.* Any person or group of persons (1) who provides cable service over a cable system and directly or through one or more affiliates owns a significant interest in such cable system; or (2) who otherwise controls or is responsible for, through any arrangement, the management and operation of such a cable system.

(dd) *System community unit: Community unit.* A cable television system, or portion of a cable television system, that operates or will operate within a separate and distinct community or

municipal entity (including unincorporated communities within unincorporated areas and including single, discrete unincorporated areas).

(ee) *Subscribers.* A member of the general public who receives broadcast programming distributed by a cable television system and does not further distribute it.

(ff) *Cable service.* The one-way transmission to subscribers of video programming, or other programming service; and, subscriber interaction, if any, which is required for the selection or use of such video programming or other programming service. For the purposes of this definition, ''video programming'' is programming provided by, or generally considered comparable to programming provided by, a television broadcast station; and, ''other programming service'' is information that a cable operator makes available to all subscribers generally.

(gg) [Reserved]

(hh) *Input selector switch.* Any device that enables a viewer to select between cable service and off-the-air television signals. Such a device may be more sophisticated than a mere two-sided switch, may utilize other cable interface equipment, and may be built into consumer television receivers.

(ii) A *syndicated program* is any program sold, licensed, distributed or offered to television station licensees in more than one market within the United States other than as network programming as defined in § 76.5(o).

(jj) *Rural area.* A community unit with a density of less than 19 households per route kilometer or thirty households per route mile of coaxial and/or fiber optic cable trunk and feeder line.

(kk) *Technically integrated.* Having 75% or more of the video channels received from a common headend.

(ll) *Cable home wiring.* The internal wiring contained within the premises of a subscriber which begins at the demarcation point. Cable home wiring includes passive splitters on the subscriber's side of the demarcation point, but does not include any active elements such as amplifiers, converter or decoder boxes, or remote control units.

(mm) *Demarcation point.* (1) For new and existing single unit installations, the demarcation point shall be a point at (or about) twelve inches outside of where the cable wire enters the subscriber's premises.

(2) For new and existing multiple unit installations, the demarcation point shall be a point at (or about) twelve inches outside of where the cable wire enters the subscriber's dwelling unit, but shall not include loop through or other similar series cable wire.

(nn) *Activated channels.* Those channels engineered at the headend of a cable system for the provision of services generally available to residential subscribers of the cable system, regardless of whether such services actually are provided, including any channel designated for public, educational or governmental use.

(oo) *Usable activated channels.* Those activated channels of a cable system, except those channels whose use for the distribution of broadcast signals would conflict with technical and safety regulations. See part 76, subpart K.

(pp) *Principal headend.* (1) The headend, in the case of a cable system with a single headend or,

(2) In the case of a cable system with more than one headend, the principal headend designated by the cable operator, except that such designation shall not undermine or evade the requirements of subpart D of this part. The designation of a principal headend shall be made by May 3, 1993, and each cable system shall place in its public file the location of its designated principal headend by June 17, 1993, as provided in § 76.302. Except for good cause, an operator may not change its choice of principal headend.

(qq) Emergency Alert System (EAS). The EAS is composed of broadcast networks; cable networks and program suppliers; AM, FM and TV broadcast stations; Low Power TV (LPTV) stations; subject cable systems; and other entities and industries operating on an organized basis during emergencies at the National, State, or local levels.

[37 FR 3278, Feb. 12, 1972]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 76.5, see the List of CFR Sections Affected in the Finding Aids section of this volume.

EFFECTIVE DATE NOTE: At 61 FR 6137, Feb. 16, 1996, in § 76.5, paragraph (ll) was revised. Paragraph (ll) contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

§ 76.7 Special relief and must-carry complaint procedures.

(a)(1) *Petitions for special relief.* On petition by a cable television system operator, a franchising authority, an applicant, permittee, or licensee of a television broadcast or translator station, or by any other interested person, the Commission may waive any provision of the rules relating to cable television systems, impose additional or different requirements, or issue a ruling on a complaint or disputed question.

(2) *Complaints filed pursuant to § 76.61.* In response to a complaint filed by a television broadcast station under § 76.61 (must-carry complaint), the Commission may order a cable television system operator to commence or resume carriage of the complaining station, or position or reposition the complaining station's channel on the cable television system, pursuant to subpart D of this part.

(b) The petition for special relief or must-carry complaint may be submitted informally, by letter, but shall be accompanied by a certificate of service on any cable television system operator, franchising authority, station licensee, permittee, or applicant, or other interested person who may be directly affected if the relief requested is granted.

(c)(1) The petition for special relief or must-carry complaint shall state the relief requested. It shall state fully and precisely all pertinent facts and considerations relied on to demonstrate the need for the relief requested and to support a determination that a grant of such relief would serve the public interest. Factual allegations shall be supported by affidavit of a person or persons with actual knowledge of the facts, and exhibits shall be verified by the person who prepares them.

(2) A petition for special relief or must-carry complaint shall set forth all steps taken by the parties to resolve the problem, except where the only relief sought is a clarification or interpretation of the rules.

(3) An original and two (2) copies of the petition for special relief or must-carry complaint, and all subsequent pleadings shall be filed in accordance with § 0.401(a) of this chapter, except the petitions for special relief requiring fees as set forth at part 1, subpart G of this chapter must be filed in accordance with § 0.401(b) of this chapter. Must-carry complaints filed pursuant to § 76.61 are not covered by part 1, subpart G of this chapter and do not require fees.

(4)(i) Must-carry complaints filed pursuant to § 76.61(a) (Complaints regarding carriage of local commercial television stations) shall be accompanied by the notice from the complainant to the cable television system operator (§ 76.61(a)(1)), and the cable television system operator's response (§ 76.61(a)(2)), if any. If no timely response was received, the complaint should so state.

(ii) Must-carry complaints filed pursuant to § 76.61(b) (Complaints regarding carriage of qualified local NCE television stations) should be accompanied by any relevant correspondence between the complainant and the cable television system operator.

(iii) No must-carry complaint filed pursuant to § 76.61(a) (complaints regarding local commercial television stations) will be accepted by the Commission if filed more than sixty (60) days after the date of the specific event described in this paragraph. Must-carry complaints filed pursuant to § 76.61(a) should affirmatively state the specific event upon which the complaint is based, and shall establish that the complaint is being filed within sixty (60) days of such specific event. With respect to such must-carry complaints, the specific event shall be—

(A) The denial by a cable television system operator of request for carriage or channel position contained in the notice required by § 76.61(a)(1), or

(B) The failure to respond to such notice within the time period allowed by § 76.61(a)(2).

(iv) With respect to must-carry complaints filed pursuant to § 76.61(b), such complaints may be filed at any time the complainant believes that the

cable television system operator has failed to comply with the applicable provisions of subpart D of this part.

(d) Interested persons may submit comments or oppositions to a petition for special relief or a must-carry complaint within twenty (20) days after the date of public notice of the filing of such petition or complaint. For good cause shown in the petition for special relief or must-carry complaint, the Commission may, by letter or telegram to known interested persons, specify an altered time for such submissions. Comments or oppositions shall be served on the petitioner or complainant and on all persons listed in petitioner's or complainant's certificate of service, and shall contain a detailed full showing, supported by affidavit, of any facts or considerations relied on.

(e) The petitioner or complainant may file a reply to the comments or oppositions within ten (10) days after their submission, which shall be served on all persons who have filed pleadings and shall also contain a detailed full showing, supported by affidavit, of any additional facts or considerations relied on. For good cause shown, the Commission may specify a shorter time for the filing of reply comments.

(f) The Commission, after consideration of a petition for special relief and the responsive pleadings, may determine whether the public interest would be served by the grant, in whole or in part, or denial of the request, or may issue a ruling on the complaint or dispute. The Commission will resolve must-carry complaints pursuant to paragraphs (a)(4) and (b)(2) of §76.61. The Commission may specify other procedures, such as oral argument, evidentiary hearing, or further written submissions directed to particular aspects, as it deems appropriate. In the event that an evidentiary hearing is required, the Commission will determine, on the basis of the pleadings and such other procedures as it may specify, whether temporary relief should be afforded any party pending the hearing and the nature of any such temporary relief.

(g) On a finding that the public interest so requires, the Commission may determine that a system community unit operating or proposing to operate in a community located outside of the 48 contiguous states shall comply with provisions of subparts D, F, and G of this part in addition to the provisions thereof otherwise applicable.

NOTE: Each party filing a petition, comments, opposition or other pleading pursuant to §76.7 is responsible for the continuing accuracy and completeness of all information in such document. The provisions of §1.65 of this chapter are wholly applicable to pleadings involving §76.7, except that where specific provisions of the latter conflict with the former, the specific provisions of §76.7 are controlling, e.g., where requirements for service on specified parties of certain information may vary.

[58 FR 17358, Apr. 2, 1993, as amended at 59 FR 62344, Dec. 5, 1994]

§76.8 Dismissal of special relief petitions.

(a) A petition for special relief may, upon request of the petitioner, be dismissed without prejudice as a matter of right prior to the adoption date of any final action taken by the Commission with respect to the petition. A petitioner's request for the return of a petition will be regarded as a request for dismissal.

(b) Failure to prosecute a petition, or failure to respond to official correspondence or request for additional information, will be cause for dismissal. Such dismissal will be without prejudice if it occurs prior to the adoption date of any final action taken by the Commission with respect to the petition.

[40 FR 12797, Mar. 21, 1975]

§76.9 Order to show cause; forfeiture proceeding.

(a) Upon petition by any interested person, the Commission may:

(1) Issue an order requiring a cable television operator to show cause why it should not be directed to cease and desist from violating the Commission's rules;

(2) Initiate a forfeiture proceeding against a cable television operator for violation of the Commission's Rules.

(b) The petition may be submitted informally, by letter, but shall be accompanied by a certificate of service on any interested person who may be directly affected if an order to show

cause is issued or a forfeiture proceeding initiated. An original and two copies of the petition and all subsequent pleadings should be filed.

(c) The petition shall state fully and precisely all pertinent facts and considerations relied on to support a determination that issuance of an order to show cause or initiation of a forfeiture proceeding would be in the public interest. Factual allegations shall be supported by affidavit of a person or persons with actual knowledge of the facts, and exhibits shall be verified by the person who prepares them.

(d) Interested persons may submit comments or oppositions to the petition within thirty (30) days after it has been filed. For good cause shown in the petition, the Commission may, by letter or telegram to known interested persons, specify a shorter time for such submissions. Comments or oppositions shall be served on petitioner and on all persons listed in petitioner's certificate of service, and shall contain a detailed full showing supported by affidavit, of any facts or circumstances relied on.

(e) The petitioner may file a reply to the comments or oppositions within twenty (20) days after the time for filing such comments or oppositions has ended. A reply shall be served on all persons who have filed pleadings and shall also contain a detailed full showing, supported by affidavit, of any additional facts or considerations relied on. For good cause shown, the Commission may specify a shorter time for the filing of reply comments.

(f) The Commission, after consideration of the pleadings, shall determine whether the public interest requires the issuance of an order to show cause or the initiation of a forfeiture proceeding.

NOTE 1: After issuance of an order to show cause, the rules of procedure in title 47, part 1, subpart A, §§1.91–1.95 shall apply.

NOTE 2: Nothing in this section is intended to prevent the Commission from initiating show cause or forfeiture proceedings on its own motion; *Provided, however,* That show cause proceedings and forfeiture proceedings pursuant to §1.80(g) of the rules will not be initiated by such motion until the affected parties are given an opportunity to respond to the Commission's charges.

NOTE 3: Forfeiture proceedings are generally nonhearing matters conducted pursuant to the provisions of §1.80(f) of the rules (Notice of Apparent Liability). Petitioners who contend that the alternative hearing procedures of §1.80(g) of the rules should be followed in a particular case must support this contention with a specific showing of the facts and considerations relied on.

[42 FR 56507, Oct. 26, 1977, as amended at 44 FR 55575, Sept. 27, 1979]

§ 76.11 Lockbox enforcement.

Any party aggrieved by the failure or refusal of a cable operator to provided a lockbox as provided for in Title VI of the Communications Act may petition the Commission for relief in accordance with the provisions and procedures set forth in §76.7 for petitions for special relief.

[50 FR 18661, May 2, 1985]

Subpart B—Registration Statements

§ 76.12 Registration statement required.

A system community unit shall be authorized to commence operation only after filing with the Commission the following information:

(a) The legal name of the operator, entity identification or social security number, and whether the operator is an individual, private association, partnership, or corporation. If the operator is a partnership, the legal name of the partner responsible for communications with the Commission shall be supplied;

(b) The assumed name (if any) used for doing business in the community;

(c) The mail address, including ZIP code, and the telephone number to which all communications are to be directed;

(d) The date the system provided service to 50 subscribers;

(e) The name of the community or area served and the county in which it is located;

(f) The television broadcast signals to be carried which previously have not been certified or registered.

(Secs. 2, 3, 4, 5, 301, 303, 307, 308, 309, 315, 317, 48 Stat. 1064—1066, 1068, 1081—1085, 1088, 1089,

as amended; 47 U.S.C. 152, 153, 154, 155, 301, 303, 307, 308, 309, 315, 317)

[37 FR 3278, Feb. 12, 1972, as amended at 45 FR 52154, Aug. 6, 1980; 49 FR 27154, July 2, 1984; 50 FR 40855, Oct. 7, 1985]

§76.14 Who may sign registration statements.

(a) Registration statements shall be personally signed by the operator; by one of the partners, if the operator is a partnership; by an officer, if the operator is a corporation; by a member who is an officer, if the operator is an unincorporated association; or by any duly authorized employee of the operator.

(b) Registration statements may be signed by the operator's attorney in case of the operator's physical disability or of his absence from the United States. The attorney shall in that event separately set forth the reasons why the registration statement was not signed by the operator. In addition, if any matter is stated on the basis of the attorney's belief only (rather than his knowledge), he shall separately set forth his reasons for believing that such statements are true.

[43 FR 49008, Oct. 20, 1978]

§76.17 Public notice.

The Commission will give public notice of the filing of registration statements.

[43 FR 49008, Oct. 20, 1978]

§76.29 Special temporary authority.

(a) In circumstances requiring the temporary use of community units for operations not authorized by the Commission's rules, a cable television system may request special temporary authority to operate. The Commission may grant special temporary authority, upon a finding that the public interest would be served thereby, for a period not to exceed ninety (90) days, and may extend such authority, upon a like finding, for one additional period, not to exceed ninety (90) days.

(b) Requests for special temporary authority may be submitted informally, by letter, and shall contain the following:

(1) Name and address of the applicant cable system.

(2) Community in which the community unit is located.

(3) Type of operation to be conducted.

(4) Date of commencement of proposed operations.

(5) Duration of time for which temporary authority is required.

(6) All pertinent facts and considerations relied on to demonstrate the need for special temporary authority and to support a determination that a grant of such authority would serve the public interest.

(7) A certificate of service on all interested parties.

(c) A request for special temporary authority shall be filed at least ten (10) days prior to the date of commencement of the proposed operations, or shall be accompanied by a statement of reasons for the delay in submitting such request.

(d) A grant of special temporary authority may be rescinded by the Commission at any time upon a finding of facts which warrant such action.

[39 FR 35166, Sept. 30, 1974; 42 FR 19346, Apr. 13, 1977, as amended at 43 FR 49008, Oct. 20, 1978]

Subpart C—Federal-State/Local Regulatory Relationships [Reserved]

Subpart D—Carriage of Television Broadcast Signals

§76.51 Major television markets.

For purposes of the cable television rules, the following is a list of the major television markets and their designated communities:

(a) First 50 major television markets:

(1) New York, New York-Linden-Paterson-Newark, New Jersey.

(2) Los Angeles-San Bernardino-Corona-Fontana-Riverside, Calif.

(3) Chicago, Ill.

(4) Philadelphia, Pa.-Burlington, N.J.

(5) Detroit, Mich.

(6) Boston-Cambridge-Worcester-Lawrence, Mass.

(7) San Francisco-Oakland-San Jose, Calif.

(8) Cleveland-Lorain-Akron, Ohio.

(9) Washington, DC.

(10) Pittsburgh, Pa.

(11) St. Louis, Mo.

(12) Dallas-Fort Worth, Tex.

(13) Minneapolis-St. Paul, Minn.

(14) Baltimore, Md.

(15) Houston, Tex.
(16) Indianapolis-Bloomington, Ind.
(17) Cincinnati, Ohio-Newport, Ky.
(18) Atlanta-Rome, Ga.
(19) Hartford-New Haven-New Britain-Waterbury-New London, Ct.
(20) Seattle-Tacoma, Wash.
(21) Miami, Fla.
(22) Kansas City, Mo.
(23) Milwaukee, Wis.
(24) Buffalo, N.Y.
(25) Sacramento-Stockton-Modesto, Calif.
(26) Memphis, Tenn.
(27) Columbus-Chillicothe, Ohio.
(28) Los Angeles-San Bernandino-Corona-Riverside-Anaheim, Calif.
(29) Portland, Oreg.
(30) Nashville, Tenn.
(31) New Orleans, La.
(32) Denver-Castle Rock, Colorado.
(33) Providence, R.I.-New Bedford, Mass.
(34) Albany-Schenectady-Troy, N.Y.
(35) Syracuse, N.Y.
(36) Charleston-Huntington, W. Va.
(37) Kalamazoo-Grand Rapids-Battle Creek, Mich.
(38) Louisville, Ky.
(39) Oklahoma City, Okla.
(40) Birmingham, Ala.
(41) Dayton-Kettering, Ohio.
(42) Charlotte, N.C.
(43) Phoenix-Mesa, Ariz.
(44) Norfolk-Newport News-Portsmouth-Hampton, Va.
(45) San Antonio, Tex.
(46) Greenville-Spartanburg-Anderson, S.C.-Asheville, N.C.
(47) Greensboro-High Point-Winston Salem, N.C.
(48) Salt Lake City, Utah.
(49) Wilkes Barre-Scranton, Pa.
(50) Little Rock-Pine Bluff, Arkansas.

(b) Second 50 major television markets:

(51) San Diego, Calif.
(52) Toledo, Ohio.
(53) Omaha, Nebr.
(54) Tulsa, Okla.
(55) Orlando-Daytona Beach-Melbourne-Cocoa-Clermont, Florida.
(56) Rochester, N.Y.
(57) Harrisburg-Lancaster-York, Pa.
(58) Texarkana, Tex.-Shreveport, La.
(59) Mobile, Ala.-Pensacola, Fla.
(60) Davenport, Iowa-Rock Island-Moline, Ill.
(61) Flint-Bay City-Saginaw, Mich.
(62) Green Bay, Wis.
(63) Richmond-Petersburg, Va.
(64) Springfield-Decatur-Champaign, Illinois.
(65) Cedar Rapids-Waterloo, Iowa.
(66) Des Moines-Ames, Iowa.
(67) Wichita-Hutchinson, Kans.
(68) Jacksonville, Fla.
(69) Cape Girardeau, Mo.-Paducah, Ky.-Harrisburg, Ill.
(70) Roanoke-Lynchburg, Va.
(71) Knoxville, Tenn.
(72) Fresno-Visalia-Hanford-Clovis, California.
(73) Raleigh-Durham-Goldsboro-Fayetteville, North Carolina.
(74) Johnstown-Altoona, Pa.
(75) Portland-Poland Spring, Maine.
(76) Spokane, Wash.
(77) Jackson, Miss.
(78) Chattanooga, Tenn.
(79) Youngstown, Ohio.
(80) South Bend-Elkhart, Ind.
(81) Albuquerque, N. Mex.
(82) Fort Wayne-Roanoke, Ind.
(83) Peoria, Ill.
(84) Greenville-Washington-New Bern, N.C.
(85) Sioux Falls-Mitchell, S. Dak.
(86) Evansville, Ind.
(87) Baton Rouge, La.
(88) Beaumont-Port Arthur, Tex.
(89) Duluth, Minn.-Superior, Minn.
(90) Wheeling, W. Va.-Steubenville, Ohio.
(91) Lincoln-Hastings-Kearney, Nebr.
(92) Lansing-Onondaga, Mich.
(93) Madison, Wis.
(94) Columbus, Ga.
(95) Amarillo, Tex.
(96) Huntsville-Decatur, Ala.
(97) Rockford-Freeport, Ill.
(98) Fargo-Valley City, N.D.
(99) Monroe, La.-El Dorado, Ark.
(100) Columbia, S.C.

NOTE: Requests for changes to this list shall be made in the form of a petition for rulemaking pursuant to §1.401 of this chapter, except that such petitions shall not be subject to the public notice provisions of §1.403 of this chapter.

[37 FR 3278, Feb. 12, 1972, as amended at 37 FR 13866, July 14, 1972; 39 FR 24373, July 2, 1974; 39 FR 27572, July 30, 1974; 39 FR 37988, Oct. 25, 1974; 58 FR 17359, Apr. 2, 1993; 58 FR 30995, May 28, 1993; 58 FR 64168, Dec. 6, 1993; 58 FR 67694, Dec. 22, 1993; 59 FR 25344, May 16, 1994; 59 FR 46358, Sept. 8, 1994; 60 FR 45376, Aug. 31, 1995; 60 FR 51928, Oct. 4, 1995; 61 FR 18292, Apr. 25, 1996]

§ 76.53 Reference points.

The following list of reference points shall be used to identify the boundaries of the major and smaller television markets (defined in §76.5). Where a community's reference point is not given, the geographic coordinates of the main post office in the community shall be used.

State and community	Latitude	Longitude
Alabama:		
Anniston	33°39′49″	85°49′47″

State and community	Latitude	Longitude
Birmingham	33°31′01″	86°48′36″
Decatur	34°36′35″	86°58′45″
Demopolis	32°30′56″	87°50′07″
Dothan	31°13′27″	85°23′35″
Dozier	31°29′30″	86°21′59″
Florence	34°48′05″	87°40′31″
Huntsville	34°44′18″	86°35′19″
Louisville	31°47′00″	85°33′09″
Mobile	30°41′36″	88°02′33″
Montgomery	32°22′33″	86°18′31″
Mount Cheaha State Park	33°29′26″	85°48′30″
Selma	24°24′26″	87°01′15″
Tuscaloosa	33°12′05″	87°33′44″
Alaska:		
Anchorage	61°13′09″	149°53′29″
College	64°51′22″	147°48′38″
Fairbanks	64°50′35″	147°41′51″
Juneau	58°18′06″	134°25′09″
Sitka	57°02′58″	135°20′12″
Arizona:		
Flagstaff	35°11′54″	111°39′02″
Mesa	33°24′54″	111°49′41″
Nogales	31°20′14″	110°56′12″
Phoenix	33°27′12″	112°04′28″
Tucson	32°13′15″	110°58′08″
Yuma	32°43′16″	114°37′01″
Arkansas:		
El Dorado	33°12′39″	92°39′40″
Fayetteville	36°03′41″	94°09′38″
Fort Smith	35°23′10″	94°25′36″
Jonesboro	35°50′14″	90°42′11″
Little Rock	34°44′42″	92°16′37″
California:		
Bakersfield	35°22′31″	119°01′16″
Chico	39°44′07″	121°49′57″
Concord	37°58′46″	122°01′51″
Corona	33°52′35″	117°33′56″
El Centro	32°47′25″	115°32′45″
Eureka	40°48′08″	124°09′46″
Fontana	34°05′45″	117°26′29″
Fresno	36°44′12″	119°47′11″
Guasti	34°03′48″	117°35′10″
Hanford	36°19′51″	119°38′48″
Los Angeles	34°03′15″	118°14′28″
Modesto	37°38′26″	120°59′44″
Monterey	36°35′44″	121°53′39″
Oakland	37°48′03″	122°15′54″
Palm Springs	33°49′22″	116°32′46″
Redding	40°34′57″	122°23′34″
Sacramento	38°34′57″	121°29′41″
Salinas	36°40′24″	121°39′25″
San Bernardino	34°06′30″	117°17′28″
San Diego	32°42′53″	117°09′21″
San Francisco	37°46′39″	122°24′40″
San Jose	37°20′16″	121°53′24″
San Luis Obispo	35°16′49″	120°39′34″
San Mateo	37°34′08″	122°19′16″
Santa Barbara	34°25′18″	119°41′55″
Santa Maria	34°57′02″	120°26′10″
Stockton	37°57′30″	121°17′16″
Tulare	36°12′31″	119°20′35″
Ventura	34°16′47″	119°17′22″
Visalia	36°19′46″	119°17′30″
Colorado:		
Colorado Springs	38°50′07″	104°49′16″
Denver	39°44′58″	104°59′22″
Durango	37°16′29″	107°52′25″
Grand Junction	39°04′06″	108°33′54″
Montrose	38°28′44″	107°52′31″
Pueblo	38°16′17″	104°36′33″
Sterling	40°37′29″	103°12′25″
Connecticut:		
Bridgeport	41°10′49″	73°11′22″
Hartford	41°46′12″	72°40′49″
New Britain	41°40′02″	72°47′08″
New Haven	41°18′25″	72°55′30″
Norwich	41°31′36″	72°04′31″
Waterbury	41°33′13″	73°02′31″
Delaware:		
Wilmington	39°44′46″	75°32′51″
District of Columbia:		
Washington	38°53′51″	77°00′33″
Florida:		
Clearwater	27°57′56″	82°47′51″
Daytona Beach	29°12′44″	81°01′10″
Fort Lauderdale	26°07′11″	80°08′34″
Fort Myers	26°38′42″	81°52′06″
Fort Pierce	27°26′48″	80°19′38″
Gainesville	29°38′56″	82°19′19″
Jacksonville	30°19′44″	81°39′42″
Largo	27°54′54″	82°47′32″
Leesburg	28°48′43″	81°52′30″
Melbourne	28°04′41″	80°36′29″
Miami	25°46′37″	80°11′32″
Ocala	29°11′34″	82°08′14″
Orlando	28°32′42″	81°22′38″
Panama City	30°09′24″	85°39′47″
Pensacola	30°24′51″	87°12′56″
St. Petersburg	27°46′18″	82°38′16″
Sarasota	27°20′05″	82°32′29″
Tallahassee	30°26′30″	84°16′50″
Tampa	27°56′58″	82°27′26″
West Palm Beach	26°42′36″	80°03′05″
Georgia:		
Albany	31°34′36″	84°09′22″
Athens	33°57′34″	83°22′39″
Atlanta	33°45′10″	84°23′37″
Augusta	33°28′20″	81°58′00″
Chatsworth	34°46′08″	84°46′10″
Cochran	32°23′18″	83°21′18″
Columbus	32°28′07″	84°59′24″
Dawson	31°46′33″	84°26′20″
Macon	32°50′12″	83°37′36″
Pelham	31°07′42″	84°09′02″
Savannah	32°04′42″	81°05′37″
Thomasville	30°50′25″	83°58′59″
Waycross	31°12′19″	82°21′47″
Wrens	33°12′21″	82°23′23″
Guam:		
Agana	13°28′23″	144°45′00″
Hawaii:		
Hilo	19°43′42″	155°05′30″
Honolulu	21°18′36″	157°51′48″
Wailuku	20°53′21″	156°30′27″
Idaho:		
Boise	43°37′07″	116°11′58″
Idaho Falls	43°29′39″	112°02′28″
Lewiston	46°25′05″	117°01′10″
Moscow	46°43′58″	116°59′54″
Pocatello	42°51′38″	112°27′01″
Twin Falls	42°33′25″	114°28′21″
Illinois:		
Aurora	41°45′22″	88°18′56″
Bloomington	40°28′58″	88°59′32″
Carbondale	37°43′38″	89°13′00″
Champaign	40°07′05″	88°14′48″
Chicago	41°52′28″	87°38′22″
Decatur	39°50′37″	88°57′11″
Elgin	42°02′14″	88°16′53″
Freeport	42°17′57″	89°37′07″
Harrisburg	37°44′20″	88°32′25″
Jacksonville	39°44′03″	90°13′44″
Joliet	41°31′37″	88°04′52″
La Salle	41°19′49″	89°05′44″
Moline	41°30′31″	90°30′49″
Mount Vernon	38°18′29″	88°54′26″
Olney	38°43′47″	88°05′00″
Peoria	40°41′42″	89°35′33″

State and community	Latitude	Longitude
Quincy	39°55′59″	91°24′12″
Rockford	42°16′07″	89°05′48″
Rock Island	41°30′40″	90°34′24″
Springfield	39°47′58″	89°38′51″
Urbana	40°06′41″	88°13′13″
Indiana:		
Bloomington	39°09′56″	86°31′52″
Elkhart	41°40′56″	85°58′15″
Evansville	37°58′20″	87°34′21″
Fort Wayne	41°04′21″	85°08′26″
Gary	41°35′59″	87°20′07″
Hammond	41°35′13″	87°27′43″
Indianapolis	39°46′07″	86°09′46″
Lafayette	40°25′11″	86°53′39″
Marion	40°33′17″	85°39′49″
Muncie	40°11′28″	85°23′16″
Richmond	39°49′49″	84°53′26″
Roanoke	40°57′50″	85°22′30″
St. John	41°27′00″	87°28′13″
South Bend	41°40′33″	86°15′01″
Terre Haute	39°28′03″	87°24′26″
Vincennes	38°40′52″	87°31′12″
Iowa:		
Ames	42°01′36″	93°36′44″
Cedar Rapids	41°58′48″	91°39′48″
Davenport	41°31′24″	90°34′21″
Des Moines	41°35′14″	93°37′00″
Dubuque	42°29′55″	90°40′08″
Fort Dodge	42°30′12″	94°11′05″
Iowa City	41°39′37″	91°31′52″
Mason City	43°09′15″	93°12′00″
Sioux City	42°29′46″	96°24′30″
Waterloo	42°29′40″	92°20′20″
Kansas:		
Ensign	37°38′48″	100°14′00″
Garden City	37°57′54″	100°52′20″
Goodland	39°20′53″	101°42′35″
Great Bend	38°22′04″	98°45′58″
Hays	38°52′16″	99°19′57″
Hutchinson	38°03′11″	97°55′20″
Pittsburg	37°24′50″	94°42′11″
Salina	38°50′36″	97°36′46″
Topeka	39°03′16″	95°40′23″
Wichita	37°41′30″	97°20′16″
Kentucky:		
Ashland	38°28′36″	82°38′23″
Bowling Green	36°59′41″	86°26′33″
Covington	39°05′00″	84°30′29″
Elizabethtown	37°41′38″	85°51′35″
Hazard	37°14′54″	83°11′31″
Lexington	38°02′50″	84°29′46″
Louisville	38°14′47″	85°45′49″
Madisonville	37°19′45″	87°29′54″
Morehead	38°10′53″	83°26′08″
Murray	36°36′35″	88°18′39″
Newport	39°05′28″	84°29′20″
Owensboro	37°46′27″	87°06′46″
Owenton	38°32′11″	84°50′16″
Paducah	37°05′13″	88°35′56″
Pikesville	37°28′49″	82°31′09″
Somerset	37°05′35″	84°36′17″
Louisiana:		
Alexandria	31°18′33″	92°26′47″
Baton Rouge	30°26′58″	91°11′00″
Houma	29°35′34″	90°43′09″
Lafayette	30°13′24″	92°01′06″
Lake Charles	30°13′45″	93°12′52″
Monroe	32°30′02″	92°06′55″
New Orleans	29°56′53″	90°04′10″
Shreveport	32°30′46″	93°44′58″
West Monroe	32°30′51″	92°08′13″
Maine:		
Augusta	44°18′53″	69°46′29″
Bangor	44°48′13″	68°46′18″
Calais	45°11′04″	67°16′43″
Orono	44°53′15″	68°40′12″
Poland Spring	44°01′42″	70°21′40″
Portland	43°39′33″	70°15′19″
Presque Isle	46°40′57″	68°00′52″
Maryland:		
Baltimore	39°17′26″	76°36′45″
Cumberland	39°39′01″	78°45′45″
Hagerstown	39°38′39″	77°43′15″
Salisbury	38°21′56″	75°35′56″
Massachusetts:		
Adams	42°37′30″	73°07′05″
Boston	42°21′24″	71°03′25″
Cambridge	42°21′58″	71°06′24″
Greenfield	42°35′15″	72°35′54″
New Bedford	41°38′13″	70°55′41″
Springfield	42°06′21″	72°35′32″
Worcester	42°15′37″	71°48′17″
Michigan:		
Allen Park	42°15′12″	83°12′57″
Battle Creek	42°18′58″	85°10′48″
Bay City	43°36′04″	83°53′15″
Cadillac	44°15′10″	85°23′52″
Cheboygan	45°38′38″	84°28′38″
Detroit	42°19′48″	83°02′57″
Escanaba	45°44′45″	87°03′18″
Flint	43°00′50″	83°41′33″
Grand Rapids	42°58′03″	85°40′13″
Jackson	42°14′43″	84°24′22″
Kalamazoo	42°17′29″	85°35′14″
Lansing	42°44′01″	84°33′15″
Marquette	46°32′37″	87°23′43″
Mount Pleasant	43°16′12″	84°46′31″
Muskegon	43°14′17″	86°15′02″
Onondaga	42°26′41″	84°33′43″
Saginaw	43°25′52″	83°56′05″
Sault Ste. Marie	46°29′58″	84°20′37″
Traverse City	44°45′47″	85°37′25″
University Center	43°33′31″	83°59′09″
Minnesota:		
Alexandria	45°53′06″	95°22′39″
Appleton	45°12′00″	96°01′02″
Austin	43°39′57″	92°58′20″
Duluth	46°46′56″	92°06′24″
Hibbing	47°25′43″	92°56′21″
Mankato	44°09′49″	94°00′09″
Minneapolis	44°58′57″	93°15′43″
Rochester	44°01′21″	92°28′03″
St. Cloud	45°33′35″	94°09′38″
St. Paul	44°56′50″	93°05′11″
Walker	47°05′57″	94°35′12″
Mississippi:		
Biloxi	30°23′43″	88°53′08″
Bude	31°27′46″	90°50′34″
Columbus	33°29′40″	88°25′33″
Greenwood	33°31′05″	90°10′55″
Gulfport	30°22′04″	89°05′36″
Jackson	32°17′56″	90°11′06″
Laurel	31°41′40″	89°07′48″
Meridian	32°21′57″	88°42′02″
Oxford	34°22′00″	89°31′07″
State College	33°27′18″	88°47′13″
Tupelo	34°15′26″	88°42′30″
Missouri:		
Cape Girardeau	37°18′29″	89°31′29″
Columbia	38°57′03″	92°19′46″
Hannibal	39°42′24″	91°22′45″
Jefferson City	38°34′40″	92°10′24″
Joplin	37°05′26″	94°30′50″
Kansas City	39°04′56″	94°35′20″
Kirksville	40°11′37″	92°34′58″
Poplar Bluff	36°45′20″	90°23′38″
St. Joseph	39°45′57″	94°51′02″
St. Louis	38°37′45″	90°12′22″

State and community	Latitude	Longitude
Sedalia	38°42′08″	93°13′26″
Springfield	37°13′03″	93°17′32″
Montana:		
Anaconda	46°07′40″	112°57′12″
Billings	45°47′00″	108°30′04″
Butte	46°01′06″	112°32′11″
Glendive	47°06′42″	104°43′02″
Great Falls	47°29′33″	111°18′23″
Helena	46°35′33″	112°02′24″
Kalispell	48°11′45″	114°18′44″
Miles City	46°24′34″	105°50′30″
Missoula	46°52′23″	113°59′29″
Nebraska:		
Albion	41°41′23″	97°59′53″
Alliance	42°06′04″	102°52′08″
Bassett	42°35′00″	99°32′10″
Grand Island	40°55′33″	98°20′23″
Hastings	40°35′21″	98°23′20″
Hayes Center	40°30′36″	101°01′18″
Hay Springs	42°41′03″	102°41′22″
Kearney	40°41′58″	99°04′53″
Lexington	40°46′30″	99°44′41″
Lincoln	40°48′59″	96°42′15″
McCook	40°12′02″	100°37′32″
Merriman	42°55′07″	101°42′02″
Norfolk	42°01′56″	97°24′42″
North Platte	41°08′14″	100°45′43″
Omaha	41°15′42″	95°56′14″
Scottsbluff	41°51′40″	103°39′00″
Superior	40°01′12″	98°04′00″
Nevada:		
Elko	40°50′00″	115°45′41″
Henderson	36°02′00″	114°58′57″
Las Vegas	36°10′20″	115°08′37″
Reno	39°31′27″	119°48′40″
New Hampshire:		
Berlin	44°28′20″	71°10′43″
Durham	43°08′02″	70°55′35″
Hanover	43°42′03″	72°17′24″
Keene	42°56′02″	72°16′44″
Lebanon	43°38′34″	72°15′12″
Littleton	44°18′22″	71°46′13″
Manchester	42°59′28″	71°27′41″
New Jersey:		
Atlantic City	39°21′32″	74°25′53″
Burlington	40°04′21″	74°51′47″
Camden	39°56′45″	75°07′20″
Glen Ridge	40°48′16″	74°12′14″
Linden	40°37′57″	74°15′22″
Newark	40°44′14″	74°10′19″
New Brunswick	40°29′38″	74°26′49″
Paterson	40°54′51″	74°09′51″
Trenton	40°13′16″	74°45′28″
Vineland	39°29′13″	75°01′17″
Wildwood	38°59′18″	74°48′43″
New Mexico:		
Albuquerque	35°05′01″	106°39′05″
Carlsbad	32°25′09″	104°13′47″
Clovis	34°24′11″	103°12′08″
Portales	34°10′58″	103°20′10″
Roswell	33°23′47″	104°31′26″
New York:		
Albany	42°39′01″	73°45′01″
Binghamton	42°06′03″	75°54′47″
Buffalo	42°52′52″	78°52′21″
Carthage	43°58′50″	75°36′26″
Elmira	42°05′26″	76°48′22″
Garden City	40°43′26″	73°38′03″
Ithaca	42°26′33″	76°29′42″
Jamestown	42°05′45″	79°14′40″
New York	40°45′06″	73°59′39″
North Pole	44°23′59″	73°51′00″
Norwood	44°45′00″	75°59′39″
Oneonta	42°27′21″	75°03′42″
Patchogue	40°45′56″	73°00′42″
Plattsburgh	44°42′03″	73°27′07″
Riverhead	40°55′06″	72°39′51″
Rochester	43°09′41″	77°36′21″
Schenectady	42°48′52″	73°56′24″
Syracuse	43°03′04″	76°09′14″
Utica	43°06′12″	75°13′33″
Watertown	43°58′30″	75°54′48″
North Carolina:		
Asheville	35°35′42″	82°33′26″
Chapel Hill	35°54′51″	79°03′11″
Charlotte	35°13′44″	80°50′45″
Columbia	35°55′06″	76°15′04″
Concord	35°24′29″	80°34′45″
Durham	35°59′48″	78°54′00″
Fayetteville	35°03′12″	78°52′54″
Greensboro	36°04′17″	79°47′25″
Greenville	35°36′49″	77°22′22″
Hickory	35°43′54″	81°20′20″
High Point	35°57′14″	80°00′15″
Jacksonville	34°45′00″	77°25′54″
Linville	36°04′06″	81°52′16″
New Bern	35°06′33″	77°02′23″
Raleigh	35°46′38″	78°38′21″
Washington	35°32′35″	77°03′16″
Wilmington	34°14′14″	77°56′58″
Winston-Salem	36°05′52″	80°14′42″
North Dakota:		
Bismark	46°48′23″	100°47′17″
Devils Lake	48°06′42″	98°51′29″
Dickinson	46°52′55″	102°47′06″
Fargo	46°52′30″	96°47′18″
Minot	48°14′09″	101°17′38″
Pembina	48°58′00″	97°14′37″
Valley City	46°55′31″	98°00′04″
Williston	48°08′47″	103°36′59″
Ohio:		
Akron	41°05′00″	81°30′44″
Athens	39°19′38″	82°06′09″
Bowling Green	41°22′37″	83°39′03″
Canton	40°47′50″	81°22′37″
Cincinnati	39°06′07″	84°30′35″
Cleveland	41°29′51″	81°41′50″
Columbus	39°57′47″	83°00′17″
Dayton	39°45′32″	84°11′43″
Kettering	39°41′22″	84°10′07″
Lima	40°44′29″	84°06′34″
Lorain	41°27′48″	82°10′23″
Marion	40°35′14″	83°07′36″
Newark	40°03′35″	82°24′15″
Oxford	39°30′28″	84°44′26″
Portsmouth	38°44′06″	82°59′39″
Springfield	39°55′38″	83°48′29″
Steubenville	40°21′42″	80°36′53″
Toledo	41°39′14″	83°32′39″
Youngstown	41°05′57″	80°39′02″
Zanesville	39°56′59″	82°00′56″
Oklahoma:		
Ada	34°46′24″	96°40′36″
Ardmore	34°10′18″	97°07′50″
Lawton	34°36′27″	98°23′41″
Oklahoma City	35°28′26″	97°31′04″
Sayre	35°17′34″	99°38′23″
Tulsa	36°09′12″	95°59′34″
Oregon:		
Coos Bay	43°22′02″	124°13′09″
Corvallis	44°34′10″	123°16′12″
Eugene	44°03′16″	123°05′30″
Klamath Falls	42°13′32″	121°46′32″
La Grande	45°19′47″	118°05′45″
Medford	42°19′33″	122°52′31″
Portland	45°31′06″	122°40′35″
Roseburg	43°12′34″	123°20′26″
Salem	44°56′21″	123°01′59″

State and community	Latitude	Longitude
Pennsylvania:		
Allentown	40°36′11″	75°28′06″
Altoona	40°30′55″	78°24′03″
Bethlehem	40°37′57″	75°21′36″
Clearfield	41°01′20″	78°26′10″
Erie	42°07′15″	80°04′57″
Harrisburg	40°15′43″	76°52′59″
Hershey	40°17′04″	76°39′01″
Johnstown	40°19′35″	78°55′03″
Lancaster	40°02′25″	76°18′29″
Philadelphia	39°56′58″	75°09′21″
Pittsburgh	40°26′19″	80°00′00″
Reading	40°20′09″	75°55′40″
Scranton	41°24′32″	75°39′46″
Wilkes-Barre	41°14′32″	75°53′17″
York	39°57′35″	76°43′36″
Puerto Rico:		
Aguadilla	18°25′53″	67°09′18″
Arecibo	18°28′26″	66°43′39″
Caguas	18°13′59″	66°02′06″
Fajardo	18°19′35″	65°39′21″
Mayaguez	18°12′16″	67°08′36″
Ponce	18°00′51″	66°36′58″
San Juan	18°26′55″	66°03′55″
Rhode Island:		
Providence	41°49′32″	71°24′41″
South Carolina:		
Allendale	33°00′30″	81°18′26″
Anderson	34°30′06″	82°38′54″
Charleston	32°46′35″	79°55′53″
Columbia	34°00′02″	81°02′00″
Florence	34°11′49″	79°46′06″
Greenville	34°50′50″	82°24′01″
Spartanburg	34°57′03″	81°56′06″
South Dakota:		
Aberdeen	45°27′31″	98°29′03″
Brookings	44°18′38″	96°47′53″
Florence	45°03′14″	97°19′35″
Lead	44°21′07″	103°46′03″
Mitchell	43°42′48″	98°01′36″
Pierre	44°22′06″	100°20′57″
Rapid City	44°04′52″	103°13′11″
Reliance	43°52′45″	99°36′18″
Sioux Falls	43°32′35″	96°43′35″
Vermillion	42°46′52″	96°55′35″
Tennessee:		
Chattanooga	35°02′41″	85°18′32″
Jackson	35°36′48″	88°49′15″
Johnson City	36°19′04″	82°20′56″
Kingsport	36°32′57″	82°33′44″
Knoxville	35°57′39″	83°55′07″
Lexington	35°38′58″	88°23′31″
Memphis	35°08′46″	90°03′13″
Nashville	36°09′33″	86°46′55″
Sneedville	36°31′46″	83°13′04″
Texas:		
Abilene	32°27′05″	99°43′51″
Amarillo	35°12′27″	101°50′04″
Austin	30°16′09″	97°44′37″
Beaumont	30°05′20″	94°06′09″
Belton	31°03′31″	97°27′39″
Big Spring	32°15′03″	101°28′38″
Bryan	30°38′48″	96°21′31″
College Station	30°37′05″	96°20′41″
Corpus Christi	27°47′51″	97°23′45″
Dallas	32°47′09″	96°47′37″
El Paso	31°45′36″	106°29′11″
Fort Worth	32°44′55″	97°19′44″
Galveston	29°18′10″	94°47′43″
Harlingen	26°11′29″	97°41′35″
Houston	29°45′26″	95°21′37″
Laredo	27°30′22″	99°30′30″
Longview	32°28′24″	94°43′45″
Lubbock	33°35′05″	101°50′33″
Lufkin	31°20′14″	94°43′21″
Midland	31°59′54″	102°04′31″
Monahans	31°35′16″	102°53′26″
Nacogdoches	31°36′13″	94°39′20″
Odessa	31°50′49″	102°22′01″
Port Arthur	29°52′09″	93°56′01″
Richardson	32°57′06″	96°44′05″
Rosenberg	29°33′30″	95°48′15″
San Angelo	31°27′39″	100°26′03″
San Antonio	29°25′37″	98°29′06″
Sweetwater	32°28′24″	100°24′18″
Temple	31°06′02″	97°20′22″
Texarkana	33°25′29″	94°02′34″
Tyler	32°21′21″	95°17′52″
Victoria	28°48′01″	97°00′06″
Waco	31°33′12″	97°08′00″
Weslaco	26°09′24″	97°59′33″
Wichita Falls	33°54′34″	98°29′28″
Utah:		
Logan	41°44′03″	111°50′11″
Ogden	41°13′31″	111°58′21″
Provo	40°14′07″	111°39′34″
Salt Lake City	40°45′23″	111°53′26″
Vermont:		
Burlington	44°28′34″	73°12′46″
Rutland	43°36′29″	72°58′56″
St. Johnsbury	44°25′16″	72°01′13″
Windsor	43°28′38″	72°23′32″
Virginia:		
Bristol	36°35′48″	82°11′04″
Charlottesville	38°01′52″	78°28′50″
Goldvein	38°26′54″	77°39′19″
Hampton	37°01′32″	76°20′32″
Harrisonburg	38°27′01″	78°52′07″
Lynchburg	37°24′51″	79°08′37″
Norfolk	36°51′10″	76°17′21″
Norton	36°56′05″	82°37′31″
Petersburg	37°13′40″	77°24′15″
Portsmouth	36°50′12″	76°17′54″
Richmond	37°32′15″	77°26′09″
Roanoke	37°16′13″	79°56′44″
Staunton	38°09′02″	79°04′34″
Virgin Islands:		
Charlotte Amalie	18°20′36″	64°55′53″
Christiansted	17°44′44″	64°42′21″
Washington:		
Bellingham	48°45′02″	122°28′36″
Kennewick	46°12′28″	119°08′32″
Lakewood Center	47°07′37″	122°31′15″
Pasco	46°13′50″	119°05′27″
Pullman	46°43′42″	117°10′46″
Richland	46°16′36″	119°16′21″
Seattle	47°36′32″	122°20′12″
Spokane	47°39′32″	117°25′33″
Tacoma	47°14′59″	122°26′15″
Yakima	46°36′09″	120°30′39″
West Virginia:		
Bluefield	37°15′29″	81°13′20″
Charleston	38°21′01″	81°37′52″
Clarksburg	39°16′50″	80°20′38″
Grandview	37°49′28″	81°04′20″
Huntington	38°25′12″	82°26′33″
Morgantown	39°37′41″	79°57′28″
Oak Hill	37°58′31″	81°08′45″
Parkersburg	39°15′57″	81°33′46″
Weston	39°02′19″	80°28′05″
Wheeling	40°04′03″	80°43′20″
Wisconsin:		
Eau Claire	44°48′31″	91°29′49″
Fond Du Lac	43°46′35″	88°26′52″
Green Bay	44°30′48″	88°00′50″
Janesville	42°40′52″	89°01′39″
Kenosha	42°35′04″	87°49′14″
La Crosse	43°48′48″	91°15′02″

State and community	Latitude	Longitude
Madison	43°04′23″	89°22′55″
Milwaukee	43°02′19″	87°54′15″
Rhinelander	45°38′09″	89°24′50″
Superior	46°43′14″	92°06′07″
Wausau	44°57′30″	89°37′40″
Wyoming:		
Casper	42°51′00″	106°19′22″
Cheyenne	41°08′09″	104°49′07″
Rawlins	41°47′23″	107°14′37″
Riverton	43°01′29″	108°23′03″

[37 FR 3278, Feb. 12, 1972, as amended at 37 FR 13866, July 14, 1972; 51 FR 18451, May 20, 1986; 51 FR 44608, Dec. 11, 1986; 54 FR 25716, June 19, 1989; 56 FR 49707, Oct. 1, 1991]

§76.54 Significantly viewed signals; method to be followed for special showings.

(a) Signals that are significantly viewed in a county (and thus are deemed to be significantly viewed within all communities within the county) are those that are listed in Appendix A of the memorandum opinion and order on reconsideration of the Cable Television Report and Order (Docket 18397 et al.), FCC 72–530.

(b) Significant viewing in a cable television community for signals not shown as significantly viewed under paragraph (a) or (d) of this section may be demonstrated by an independent professional audience survey of non-cable television homes that covers at least two weekly periods separated by at least thirty (30) days but no more than one of which shall be a week between the months of April and September. If two surveys are taken, they shall include samples sufficient to assure that the combined surveys result in an average figure at least one standard error above the required viewing level. If surveys are taken for more than 2-weekly periods in any 12 months, all such surveys must result in an average figure at least one standard error above the required viewing level. If a cable television system serves more than one community, a single survey may be taken, provided that the sample includes non-cable television homes from each community that are proportional to the population.

(c) Notice of a survey to be made pursuant to paragraph (b) of this section shall be served on all licensees or permittees of television broadcast stations within whose predicted Grade B contour the cable community or communities are located, in whole or in part, and on all other system community units, franchisees, and franchise applicants in the cable community or communities at least (30) days prior to the initial survey period. Furthermore, if a survey is undertaken pursuant to the provisions of §76.33(a)(2)(i) of the rules, notice shall also be served on the franchising authority. Such notice shall include the name of the survey organization and a description of the procedures to be used. Objections to survey organizations or procedures shall be served on the party sponsoring the survey within twenty (20) days after receipt of such notice.

(d) Signals of television broadcast stations not encompassed by the surveys (for the periods May 1970, November 1970 and February/March 1971) used in establishing appendix B of the *Memorandum Opinion and Order on Reconsideration of Cable Television Report and Order,* FCC 72–530, 36 FCC 2d 326 (1972), may be demonstrated as significantly viewed on a county-wide basis by independent professional audience surveys which cover three separate, consecutive four-week periods and are otherwise comparable to the surveys used in compiling the above-referenced appendix B: *Provided, however,* That such demonstration shall be based upon audience survey data for the first three years of the subject station's broadcast operations.

[37 FR 3278, Feb. 12, 1972, as amended at 37 FR 13866, July 14, 1972; 40 FR 48930, Oct. 20, 1975; 41 FR 32429, Aug. 3, 1976; 42 FR 19346, Apr. 13, 1977; 53 FR 17051, May 13, 1988; 56 FR 33392, July 22, 1991]

§76.55 Definitions applicable to the must-carry rules.

For purposes of the must-carry rules set forth in this subpart, the following definitions apply:

(a) *Qualified noncommercial educational (NCE) television station.* A qualified NCE television station is any television broadcast station which

(1)(i) Under the rules and regulations of the Commission in effect on March 29, 1990, is licensed by the Commission as an NCE television broadcast station and which is owned and operated by a

public agency, nonprofit foundation, corporation, or association; and

(ii) Has as its licensee an entity which is eligible to receive a community service grant, or any successor grant thereto, from the Corporation for Public Broadcasting, or any successor organization thereto, on the basis of the formula set forth in section 396(k)(6)(B) of the Communications Act of 1934, as amended; or

(2) Is owned and operated by a municipality and transmits noncommercial programs for educational programs for educational purposes, as defined in § 73.621 of this chapter, for at least 50 percent of its broadcast week.

(3) This definition includes:

(i) The translator of any NCE television station with five watts or higher power serving the franchise area,

(ii) A full-service station or translator if such station or translator is licensed to a channel reserved for NCE use pursuant to § 73.606 of this chapter, or any successor regulations thereto, and

(iii) Such stations and translators operating on channels not so reserved but otherwise qualified as NCE stations.

NOTE TO PARAGRAPH (a): For the purposes of § 76.55(a), ''serving the franchise area'' will be based on the predicted protected contour of the NCE translator.

(b) *Qualified local noncommercial educational (NCE) television station.* A qualified local NCE television station is a qualified NCE television station:

(1) That is licensed to a community whose reference point, as defined in § 76.53 is within 80.45 km (50 miles) of the principal headend, as defined in § 76.5(pp), of the cable system; or

(2) Whose Grade B service contour encompasses the principal headend, as defined in § 76.5(pp), of the cable system.

(3) Notwithstanding the provisions of this section, a cable operator shall not be required to add the signal of a qualified local noncommercial educational television station not already carried under the provision of § 76.56(a)(5), where such signal would be considered a distant signal for copyright purposes unless such station agrees to indemnify the cable operator for any increased copyright liability resulting from carriage of such signal on the cable system.

(c) *Local commercial television station.* A local commercial television station is any full power television broadcast station, other than a qualified NCE television station as defined in paragraph (a) of this section, licensed and operating on a channel regularly assigned to its community by the Commission that, with respect to a particular cable system, is within the same television market, as defined below in paragraph (e) of this section, as the cable system, except that the term local commercial television station does not include:

(1) Low power television stations, television translator stations, and passive repeaters with operate pursuant to part 74 of this chapter.

(2) A television broadcast station that would be considered a distant signal under the capable compulsory copyright license, 17 U.S.C. 111, if such station does not agree to indemnify the cable operator for any increased copyright liability resulting from carriage on the cable system; or

(3) A television broadcast station that does not deliver to the principal headend, as defined in § 76.5(pp), of a cable system either a signal level of −45dBm for UHF signals or −49dBm for VHF signals at the input terminals of the signal processing equipment, *i.e.*, the input to the first active component of the signal processing equipment relevant to the signal at issue, if such station does not agree to be responsible for the costs of delivering to the cable system a signal of good quality or a baseband video signal.

(d) *Qualified low power station.* A qualified low power station is any television broadcast station conforming to the low power television rules contained in part 74 of this chapter, only if:

(1) Such station broadcasts for at least the minimum number of hours of operation required by the Commission for full power television broadcast stations under part 73 of this chapter;

(2) Such station meets all obligations and requirements applicable to full power television broadcast stations under part 73 of this chapter, with respect to the broadcast of nonentertainment programming; programming and rates involving political candidates, election issues, controversial issues of

public importance, editorials, and personal attacks; programming for children; and equal employment opportunity; and the Commission determines that the provision of such programming by such station would address local news and informational needs which are not being adequately served by full power television broadcast stations because of the geographic distance of such full power stations from the low power station's community of license;

(3) Such station complies with interference regulations consistent with its secondary status pursuant to part 74 of this chapter;

(4) Such station is located no more than 56.32 km (35 miles) from the cable system's principal headend, as defined in § 76.5(pp), and delivers to that headend an over-the-air signal of good quality;

(5) The community of license of such station and the franchise area of the cable system are both located outside of the largest 160 Metropolitan Statistical Areas, ranked by population, as determined by the Office of Management and Budget on June 30, 1990, and the population of such community of license on such date did not exceed 35,000; and

(6) There is no full power television broadcast station licensed to any community within the county or other equivalent political subdivision (of a State) served by the cable system.

NOTE TO PARAGRAPH (d): For the purposes of this section, a good quality signal shall mean a signal level of either -45 dBm for UHF signals or -49 dBm for VHF signals at the input terminals of the signal processing equipment, or a baseband video signal.

(e) *Television market.* (1) Until January 1, 2000, a commercial broadcast television station's market, unless amended pursuant to § 76.59, shall be defined as its Area of Dominant Influence (ADI) as determined by Arbitron and published in the Arbitron *1991–1992 Television ADI Market Guide,* as noted below, except that for areas outside the contiguous 48 states, the market of a station shall be defined using Nielsen's Designated Market Area (DMA), where applicable, as published in the Nielsen *1991–92 DMA Market and Demographic Rank Report,* and that Puerto Rico, the U.S. Virgin Islands, and Guam will each be considered a single market.

(2) Effective January 1, 2000, a commercial broadcast television station's market, unless amended pursuant to § 76.59, shall be defined as its Designated Market Area (DMA) as determined by Nielsen Media Research and published in its *DMA Market and Demographic Rank Report* or any successor publication, as noted below.

(3) A cable system's television market(s) shall be the one or more ADI markets in which the communities it serves are located until January 1, 2000, and the one or more DMA markets in which the communities it serves are located thereafter.

(4) In addition, the county in which a station's community of license is located will be considered within its market.

NOTE TO PARAGRAPH (e): For the 1996 must-carry/retransimission consent election, the ADI assignments specified in the *1991–1992 Television ADI Market Guide,* available from the Arbitron Ratings Co., 9705 Patuxent Woods Drive, Columbia, MD, will apply. For the 1999 election, which becomes effective on January 1, 2000, DMA assignments specified in the 1997–98 *DMA Market and Demographic Rank Report,* available from Nielsen Media Research, 299 Park Avenue, New York, NY, shall be used. The applicable DMA list for the 2002 election will be the 2000–2001 list, etc.

(f) *Network.* For purposes of the must-carry rules, a commercial television network is an entity that offers programming on a regular basis for 15 or more hours per week to at least 25 affiliates in 10 or more states.

[58 FR 17359, Apr. 2, 1993, as amended at 58 FR 44951, Aug. 25, 1993; 59 FR 62344, Dec. 5, 1994; 61 FR 29313, June 10, 1996]

§ 76.56 Signal carriage obligations.

(a) *Carriage of qualified noncommercial educational stations.* A cable television system shall carry qualified NCE television stations in accordance with the following provisions:

(1) Each cable operator shall carry on its cable television system any qualified local NCE television station requesting carriage, except that

(i) Systems with 12 or fewer usable activated channels, as defined in § 76.6(oo), shall be required to carry the signal of one such station;

(ii) Systems with 13 to 36 usable activated channels, as defined in § 76.5(oo), shall be required to carry at least one qualified local NCE station, but not more than three such stations; and

(iii) Systems with more than 36 usable activated channels shall be required to carry the signals of all qualified local NCE television stations requesting carriage, but in any event at least three such signals; however a cable system with more than 36 channels shall not be required to carry an additional qualified local NCE station whose programming substantially duplicates the programming of another qualified local NCE station being carried on the system.

NOTE: For purposes of this paragraph, a station will be deemed to ''substantially duplicate'' the programming of another station if it broadcasts the same programming, simultaneous or non-simultaneous, for more than 50 percent of prime time, as defined in § 76.5(n), and more than 50 percent outside of prime time over a three-month period.

(2)(i) In the case of a cable system with 12 or fewer channels that operates beyond the presence of any qualified local NCE stations, the cable operator shall import one qualified NCE television station.

(ii) A cable system with between 13 and 36 channels that operates beyond the presence of any qualified local NCE stations, the cable operator shall import at least one qualified NCE television station.

(3) A cable system with 12 or fewer usable activated channels shall not be required to remove any programming service provided to subscribers as of March 29, 1990, to satisfy these requirements, except that the first available channel must be used to satisfy these requirements.

(4) A cable system with 13 to 36 usable activated channels which carries the signal of a qualified local NCE station affiliated with a State public television network shall not be required to carry more than one qualified local NCE station affiliated with such network, if the programming of such additional stations substantially duplicates, as defined in the note in paragraph (a)(1) of this section, the programming of a qualified local NCE television station receiving carriage.

(5) Notwithstanding the requirements of paragraph (a)(1) of this section, all cable operators shall continue to provide carriage to all qualified local NCE television stations whose signals were carried on their systems as of March 29, 1990. In the case of a cable system that is required to import a distance qualified NCE signal, and such system imported the signal of a qualified NCE station as of March 29, 1990, such cable system shall continue to import such signal until such time as a qualified local NCE signal is available to the cable system. This requirements may be waived with respect to a particular cable operator and a particular NCE station, upon the written consent of the cable operator and the station.

(b) *Carriage of local commercial television stations.* Effective June 2, 1993, a cable television system shall carry local commercial broadcast television stations in accordance with the following provisions:

(1) A cable system with 12 or fewer usable activated channels, as defined in § 76.5(oo), shall carry the signals of at least three qualified local commercial television stations, except that if such system serves 300 or fewer subscribers it shall not be subject to these requirements as long as it does not delete from carriage the signal of a broadcast television station which was carried on that system on October 5, 1992.

(2) A cable system with more than 12 usable activated channels, as defined in § 76.5(oo), shall carry local commercial television stations up to one-third of the aggregate number of usable activated channels of such system.

(3) If there are not enough local commercial television stations to fill the channels set aside under paragraphs (b)(1) and (b)(2) of this section, a cable operator of a system with 35 or fewer usable activated channels, as defined in § 76.5(oo), shall, if such stations exist, carry one qualified low power television station and a cable system with more than 35 usable activated channels shall carry two qualified low power stations.

(4) Whenever the number of local commercial television stations exceeds the maximum number of signals a cable system is required to carry under

paragraph (b)(1) or (b)(2) of this section, the cable operator shall have discretion in selecting which such stations shall be carried on its cable system, except that

(i) Under no circumstances shall a cable operator carry a qualified low power station in lieu of a local commercial television station; and

(ii) If the cable operator elects to carry an affiliate of a broadcast network, as defined in § 76.55(f), such cable operator shall carry the affiliate of such broadcast network whose community of license reference point, as defined in § 76.53, is closest to the principal headend, as defined in § 76.5(pp), of the cable system.

(5) A cable operator is not required to carry the signal of any local commercial television station that substantially duplicates the signal of another local commercial television station that is carried on its cable system, or to carry the signals of more than one local commercial television station affiliated with a particular broadcast network, as defined in § 76.55(f). However, if a cable operator declines to carry duplicating signals, such cable operator shall carry the station whose community of license reference point, as defined in § 76.53, is closest to the principal headend of the cable system. For purposes of this paragraph, substantially duplicates means that a station regularly simultaneously broadcasts the identical programming as another station for more than 50 percent of the broadcast week. For purposes of this definition, only identical episodes of a television series are considered duplicative and commercial inserts are excluded from the comparison. When the stations being compared are licensed to communities in different time zones, programming aired by a station within one hour of the identical program being broadcast by another station will be considered duplicative.

(6) [Removed]

(7) A local commercial television station carried to fulfill the requirements of this paragraph, which subsequently elects retransmission consent pursuant to § 76.64, shall continue to be carried by the cable system until the effective date of such retransmission consent election.

(c) *Use of public, educational, or governmental (PEG) channels.* A cable operator required to carry more than one signal of a qualified low power station or to add qualified local NCE stations in fulfillment of these must-carry obligations may do so, subject to approval by the franchising authority pursuant to Section 611 of the Communications Act of 1934, as amended, by placing such additional station on public, educational, or governmental channels not in use for their designated purposes.

(d) *Availability of signals.* (1) Local commercial television stations carried in fulfillment of the requirements of this section shall be provided to every subscriber of a cable system. Such signals shall be viewable via cable on all television receivers of a subscriber which are connected to a cable system by a cable operator or for which a cable operator provides a connection.

(2) Qualified local NCE television stations carried in fulfillment of the carriage obligations of a cable operator under this section shall be available to every subscriber as part of the cable system's lowest priced service tier that includes the retransmission of local commercial television broadcast signals.

(3) If a cable operator authorizes subscribers to install additional receiver connections, but does not provide the subscriber with such connections, or with the equipment and materials for such connections, the operator shall notify such subscribers of all broadcast stations carried on the cable system which cannot be viewed via cable without a converter box and shall offer to sell or lease such a converter box to such subscribers. Such notification must be provided by June 2, 1993, and annually thereafter and to each new subscriber upon initial installation. The notice, which may be included in routine billing statements, shall identify the signals that are unavailable without an additional connection, the manner for obtaining such additional connection and instructions for installation.

(e) *Identification of must-carry signals.* A cable operator shall respond in writing within 30 days to any written request by any person for the identification of the signals carried on its system in fulfillment of the requirements of this section. Pursuant to § 76.302, a cable operator must place a list of the broadcast television signals carried in fulfillment of these must-carry obligations in its public file.

(f) Carriage of additional broadcast television signals on such system shall be at the discretion of the cable operator, subject to the retransmission consent rules, § 76.64. A cable system may also carry any ancillary service transmission on the vertical blanking interval or the aural baseband of any television broadcast signal, including, but not limited to, multichannel television sound and teletext.

[58 FR 17360, Apr. 2, 1993, as amended at 58 FR 39161, July 22, 1993; 58 FR 40368, July 28, 1993; 59 FR 62344, Dec. 5, 1994]

§ 76.57 Channel positioning.

(a) At the election of the licensee of a local commercial broadcast television station, and for the purpose of this section, a qualified low power television station, carried in fulfillment of the must-carry obligations, a cable operator shall carry such signal on the cable system channel number on which the local commercial television station is broadcast over the air, or on the channel on which it was carried on July 19, 1985, or on the channel on which it was carried on January 1, 1992.

(b) At the election of the licensee of a qualified local NCE broadcast television station carried in fulfillment of the must-carry obligations, a cable operator shall carry such signal on the cable system channel number on which the qualified NCE television station is broadcast over the air, or on the channel on which it was carried on July 19, 1985.

(c) Any signal carried in fulfillment of the must-carry obligations may be carried on such other channel number as is mutually agreed upon by the station and the cable operator.

(d) At the time a local commercial station elects must-carry status pursuant to § 76.64, such station shall notify the cable system of its choice of channel position as specified in paragraphs (a)–(c) of this section. A qualified NCE stations shall notify the cable system of its choice of channel position when it requests carriage. Channel positioning requests from local commercial stations shall be fulfilled by the cable operator no later than October 6, 1993.

NOTE: Any existing agreement for channel position between a local commercial station entitled to must-carry status and a cable operator entered into prior to June 26, 1990, may continue through the expiration of such agreement.

(e) Pursuant to § 76.64(f)(3), a local commercial broadcast television station that fails to make an election is deemed a must-carry station. A cable operator shall carry such a television station on the cable system channel number on which the local commercial television station is broadcast over the air, or on the channel on which it was carried on July 19, 1985, or on the channel on which it was carried on January 1, 1992. In the event that none of these specified channel positions is available due to a channel positioning request from a commercial television station affirmatively asserting its must-carry rights or such a request from a qualified local noncommercial educational station, the cable operator shall place the signal of such a television station on a channel of the cable system's choice, so long as that channel is included on the basic service tier.

[58 FR 17361, Apr. 2, 1993, as amended at 58 FR 40368, July 28, 1993; 59 FR 62345, Dec. 5, 1994]

§ 76.58 Notification.

(a) Effective April 2, 1993, a cable operator shall provide written notice to any broadcast television station at least 30 days prior to either deleting from carriage or repositioning that station. Such notification shall also be provided to subscribers of the cable system.

NOTE: No deletion or repositioning of a local commercial television station shall occur during a period in which major television ratings services measure the size of audiences of local television stations. For this purpose, such periods are the four national four-week ratings periods—generally including February, May, July and November—commonly known as audience sweeps.

(b) By May 3, 1993, a cable operator must notify all qualified NCE stations of its designated principal headend by certified mail.

(c) A cable operator shall provide written notice by certified mail to all stations carried on its system pursuant to the must-carry rules at least 60 days prior to any change in the designation of its principal headend, and shall include the new designation in its public file.

(d) By May 3, 1993, a cable operator must notify all local commercial and NCE stations that may not be entitled to carriage because they either

(1) Fail to meet the standards for delivery of a good quality signal to the cable system's principal headend or

(2) May cause an increased copyright liability to the cable system.

(e) By June 2, 1993, a cable operator must send by certified mail a copy of a list of all broadcast television stations carried by its system and their channel positions to all local commercial and noncommercial television stations, including those not designated as must-carry stations and those not carried on the system.

[58 FR 17361, Apr. 2, 1993]

§76.59 Modification of television markets.

(a) The Commission, following a written request from a broadcast station or a cable system, may deem that the television market of a particular commercial television broadcast station should include additional communities within its television market or exclude communities from such station's television market. In this respect, communities may be considered part of more than one television market.

(b) Such requests for modification of a television market shall be submitted in accordance with §76.7, petitions for special relief.

(c) A cable operator shall not delete from carriage the signal of a commercial television station during the pendency of any proceeding pursuant to this section.

[58 FR 17361, Apr. 2, 1993]

§76.60 Compensation for carriage.

A cable operator is prohibited from accepting or requesting monetary payment or other valuable consideration in exchange either for carriage or channel positioning of any broadcast television station carried in fulfillment of the must-carry requirements, except that

(a) Any such station may be required to bear the costs associated with delivering a good quality signal or a baseband video signal to the principal headend of the cable system; or

(b) A cable operator may accept payments from stations which would be considered distant signals under the cable compulsory copyright license, 17 U.S.C. 111, as indemnification for any increased copyright liability resulting from carriage of such signal.

NOTE: A cable operator may continue to accept monetary payment or other valuable consideration in exchange for carriage or channel positioning of the signal of any local commercial television station carried in fulfillment of the must-carry requirements, through, but not beyond, the date of expiration of an agreement between a cable operator and a local commercial television station entered into prior to June 26, 1990.

(c) A cable operator may accept payments from stations pursuant to a retransmission consent agreement, even if such station will be counted towards the must-carry complement, as long as all other applicable rules are adhered to.

[58 FR 17362, Apr. 2, 1993, as amended at 59 FR 62345, Dec. 5, 1994]

§76.61 Disputes concerning carriage.

(a) *Complaints regarding carriage of local commercial television stations.* (1) Whenever a local commercial television station or a qualified low power television station believes that a cable operator has failed to meet its carriage or channel positioning obligations, pursuant to §§76.56 and 76.57, such station shall notify the operator, in writing, of the alleged failure and identify its reasons for believing that the cable operator is obligated to carry the signal of such station or position such signal on a particular channel.

(2) The cable operator shall, within 30 days of receipt of such written notification, respond in writing to such notification and either commence to carry the signal of such station in accordance with the terms requested or state its reasons for believing that it is not obligated to carry such signal or is in compliance with the channel positioning and repositioning and other requirements of the must-carry rules. If a refusal for carriage is based on the station's distance from the cable system's principal headend, the operator's response shall include the location of such headend. If a cable operator denies carriage on the basis of the failure of the station to deliver a good quality signal at the cable system's principal headend, the cable operator must provide a list of equipment used to make the measurements, the point of measurement and a list and detailed description of the reception and over-the-air signal processing equipment used, including sketches such as block diagrams and a description of the methodology used for processing the signal at issue, in its response.

(3) A local commercial television station or qualified low power television station that is denied carriage or channel positioning or repositioning in accordance with the must-carry rules by a cable operator may file a complaint with the Commission in accordance with the procedures set forth in § 76.7 relating to must-carry complaints. In addition to the requirements of § 76.7, such complaint shall specifically allege the manner in which such cable operator has failed to meet its obligations and the basis for such allegations.

(4) If the Commission determines that a cable operator has failed to meet its must-carry obligations, the Commission shall order that, within 45 days of such order or such other time period as the Commission may specify, the cable operator reposition the complaining station or, in the case of an obligation to carry a station, commence or resume carriage of the station and continue such carriage for at least 12 months. If the Commission determines that the cable operator has fully met the must-carry requirements, it shall dismiss the complaint.

(b) *Complaints regarding carriage of qualified local NCE television stations.* (1) Whenever a qualified local NCE television station believes that a cable operator has failed to comply with the signal carriage or channel positioning requirements, pursuant to §§ 76.56–76.57, the station may file a complaint with the Commission in accordance with the procedures set forth in § 76.7. In addition to the requirements of § 76.7, such complaint shall specifically allege the manner in which such cable operator has failed to comply with such requirements and state the basis for such allegations.

(2) If the Commission determines that a cable operator has failed to meet its must-carry obligations, the Commission shall order that, within 45 days of such order or such other period as the Commission may specify, the cable operator reposition the complaining station or, in the case of an obligation to carry a station, commence or resume carriage of the station and continue such carriage for a period of time the Commission deems appropriate for the specific case under consideration. If the Commission determines that the cable operator has fully met the must-carry requirements, it shall dismiss the complaint.

[58 FR 17362, Apr. 2, 1993]

§ 76.62 Manner of carriage.

(a) Cable operators shall carry the entirety of the program schedule of any television station (including low power television stations) carried by the system unless carriage of specific programming is prohibited, and other programming authorized to be substituted, under § 76.67 or subpart F of part 76, or unless carriage is pursuant to a valid retransmission consent agreement for the entire signal or any portion thereof as provided in § 76.64.

(b) Each such television broadcast signal carried shall be carried without material degradation in compliance with technical standards set forth in subpart K of this part.

(c) Each local commercial television station whose signal is carried shall, to the extent technically feasible and consistent with good engineering practice, be provided no less than the same quality of signal processing and carriage

provided for carriage of any other type of standard television signal.

(d) Each qualified local noncommercial educational television station whose signal is carried shall be provided with bandwidth and technical capacity equivalent to that provided to commercial television broadcast stations carried.

(e) Each commercial broadcast television station carried pursuant to §76.56 shall include in its entirety the primary video, accompanying audio, and closed captioning data contained in line 21 of the vertical blanking interval and, to the extent technically feasible, program-related material carried in the vertical blanking interval or on subcarriers. Where appropriate and feasible, operators may delete signal enhancements, such as ghost-canceling, from the broadcast signal and employ such enhancements at the system headend or headends.

(f) Each qualified local NCE television station carried pursuant to §76.56 shall include in its entirety the primary video, accompanying audio, and closed captioning data contained in line 21 of the vertical blanking interval and, to the extent technically feasible, program-related material carried in the vertical blanking interval or on subcarriers, that may be necessary for receipt of programming by handicapped persons or for educational or language purposes.

[58 FR 17362, Apr. 2, 1993, as amended at 59 FR 62345, Dec. 5, 1994]

§76.64 Retransmission consent.

(a) After 12:01 a.m. on October 6, 1993, no multichannel video programming distributor shall retransmit the signal of any commercial broadcasting station without the express authority of the originating station, except as provided in paragraph (b) of this section.

(b) A commercial broadcast signal may be retransmitted without express authority of the originating station if—

(1) The distributor is a cable system and the signal is that of a commercial television station (including a low-power television station) that is being carried pursuant to the Commission's must-carry rules set forth in §76.56;

(2) The multichannel video programming distributor obtains the signal of a superstation that is distributed by a satellite carrier and the originating station was a superstation on May 1, 1991, and the distribution is made only to areas outside the local market of the originating station; or

(3) The distributor is a satellite carrier and the signal is transmitted directly to a home satellite antenna, provided that:

(i) The broadcast station is not owned or operated by, or affiliated with, a broadcasting network and its signal was retransmitted by a satellite carrier on May 1, 1991, or

(ii) The broadcast station is owned or operated by, or affiliated with a broadcasting network, and the household receiving the signal is an unserved household.

(c) For purposes of this section, the following definitions apply:

(1) A satellite carrier is an entity that uses the facilities of a satellite or satellite service licensed by the Federal Communications Commission, to establish and operate a channel of communications for point-to-multipoint distribution of television station signals, and that owns or leases a capacity or service on a satellite in order to provide such point-to-multipoint distribution, except to the extent that such entity provides such distribution pursuant to tariff under the Communications Act of 1934, other than for private home viewing;

(2) A superstation is a television broadcast station other than a network station, licensed by the Federal Communications Commission that is secondarily transmitted by a satellite carrier;

(3) An unserved household with respect to a television network is a household that

(i) Cannot receive, through the use of a conventional outdoor rooftop receiving antenna, an over-the-air signal of grade B intensity of a primary network station affiliated with that network, and

(ii) Has not, within 90 days before the date on which that household subscribes, either initially or on renewal, received secondary transmissions by a satellite carrier of a network station

affiliated with that network, subscribed to a cable system that provides the signal of a primary network station affiliated with the network.

(4) A primary network station is a network station that broadcasts or rebroadcasts the basic programming service of a particular national network;

(5) The terms ''network station,'' and ''secondary transmission'' have the meanings given them in 17 U.S.C. 111(f).

(d) A multichannel video program distributor is an entity such as, but not limited to, a cable operator, a multichannel multipoint distribution service, a direct broadcast satellite service, a television receive-only satellite program distributor, or a satellite master antenna television system operator, that makes available for purchase, by subscribers or customers, multiple channels of video programming.

(e) The retransmission consent requirements of this section are not applicable to broadcast signals received by master antenna television facilities or by direct over-the-air reception in conjunction with the provision of service by a multichannel video program distributor provided that the multichannel video program distributor makes reception of such signals available without charge and at the subscribers option and provided further that the antenna facility used for the reception of such signals is either owned by the subscriber or the building owner; or under the control and available for purchase by the subscriber or the building owner upon termination of service.

(f) Commercial television stations are required to make elections between retransmission consent and must-carry status according to the following schedule:

(1) The initial election must be made by June 17, 1993.

(2) Subsequent elections must be made at three year intervals; the second election must be made by October 1, 1996 and will take effect on January 1, 1997; the third election must be made by October 1, 1999 and will take effect on January 1, 2000, etc.

(3) Television stations that fail to make an election by the specified deadline will be deemed to have elected must carry status for the relevant three-year period.

(4) New television stations shall make their initial election any time between 60 days prior to commencing broadcast and 30 days after commencing broadcast; such initial election shall take effect 90 days after they are made.

(5) Television broadcast stations that become eligible for must carry status with respect to a cable system or systems due to a change in the market definition may, within 30 days of the effective date of the new definition, elect must-carry status with respect to such system or systems. Such elections shall take effect 90 days after they are made.

(g) If one or more franchise areas served by a cable system overlaps with one or more franchise areas served by another cable system, television broadcast stations are required to make the same election for both cable systems.

(h) On or before each must-carry/retransmission consent election deadline, each television broadcast station shall place copies of all of its election statements in the station's public file, and shall send via certified mail to each cable system in the station's defined market a copy of the station's election statement with respect to that operator.

(i) Notwithstanding a television station's election of must-carry status, if a cable operator proposes to retransmit that station's signal without according the station must-carry rights (*i.e.*, pursuant to § 76.56(f)), the operator must obtain the station's express authority prior to retransmitting its signal.

(j) A cable system that changes its technical configuration in such a way as to integrate two formerly separate cable systems must give 90 days notice of its intention to do so to any television broadcast stations that have elected must-carry status with respect to one system and retransmission consent status with respect to the other. If the system and the station do not agree on a uniform election 45 days prior to integration, the cable system may require the station to make such a uniform election 30 days prior to integration.

(k) Retransmission consent agreements between a broadcast station and a multichannel video programming distributor shall be in writing and shall specify the extent of the consent being granted, whether for the entire signal or any portion of the signal.

(l) A cable system commencing new operation is required to notify all local commercial and noncommercial broadcast stations of its intent to commence service. The cable operator must send such notification, by certified mail, at least 60 days prior to commencing cable service. Commercial broadcast stations must notify the cable system within 30 days of the receipt of such notice of their election for either must-carry or retransmission consent with respect to such new cable system. If the commercial broadcast station elects must-carry, it must also indicate its channel position in its election statement to the cable system. Such election shall remain valid for the remainder of any three-year election interval, as established in §76.64(f)(2). Noncommercial educational broadcast stations should notify the cable operator of their request for carriage and their channel position. The new cable system must notify each station if its signal quality does not meet the standards for carriage and if any copyright liability would be incurred for the carriage of such signal. Pursuant to §76.57(e), a commercial broadcast station which fails to respond to such a notice shall be deemed to be a must-carry station for the remainder of the current three-year election period.

(m) Exclusive retransmission consent agreements are prohibited. No television broadcast station shall make an agreement with one multichannel distributor for carriage, to the exclusion of other multichannel distributors.

(n) A multichannel video programming distributor providing an all-band FM radio broadcast service (a service that does not involve the individual processing of specific broadcast signals) shall obtain retransmission consents from all FM radio broadcast stations that are included on the service that have transmitters located within 92 kilometers (57 miles) of the receiving antenna for such service. Stations outside of this 92 kilometer (57 miles) radius shall be presumed not to be carried in an all-band reception mode but may affirmatively assert retransmission consent rights by providing 30 days advance notice to the distributor.

[58 FR 17363, Apr. 2, 1993, as amended at 59 FR 62345, Dec. 5, 1994]

§76.67 Sports broadcasts.

(a) No community unit located in whole or in part within the specified zone of a television broadcast station licensed to a community in which a sports event is taking place, shall, on request of the holder of the broadcast rights to that event, or its agent, carry the live television broadcast of that event if the event is not available live on a television broadcast signal carried by the community unit meeting the criteria specified in §§76.5(gg)(1) through 76.5(gg)(3) of this part. For purposes of this section, if there is no television station licensed to the community in which the sports event is taking place, the applicable specified zone shall be that of the television station licensed to the community with which the sports event or team is identified, or, if the event or local team is not identified with any particular community, the nearest community to which a television station is licensed.

(b) Notification of the programming to be deleted pursuant to this section shall include the following information:

(1) As to programming to be deleted from television broadcast signals regularly carried by the community unit:

(i) The name and address of the party requesting the program deletion;

(ii) The date, time and expected duration of the sports event the television broadcast of which is to be deleted;

(iii) The call letters of the television broadcast station(s) from which the deletion is to be made.

(2) As to programming to be deleted from television broadcast signals not regularly carried by the community unit:

(i) The name and address of the party requesting the program deletion;

(ii) The date, time and expected duration of the sports event the television broadcast of which is to be deleted.

(c) Notifications given pursuant to this section must be received, as to

regularly scheduled events, no later than the Monday preceding the calendar week (Sunday–Saturday) during which the program deletion is to be made. Notifications as to events not regularly scheduled and revisions of notices previously submitted, must be received within twenty-four (24) hours after the time of the telecast to be deleted is known, but in any event no later than twenty-four (24) hours from the time the subject telecast is to take place.

(d) Whenever, pursuant to this section, a community unit is required to delete a television program on a signal regularly carried by the community unit, such community unit may, consistent with the rules contained in Subpart F of this part, substitute a program from any other television broadcast station. A program substituted may be carried to its completion, and the community unit need not return to its regularly carried signal until it can do so without interrupting a program already in progress.

(e) The provisions of this section shall not be deemed to require the deletion of any portion of a television signal which a community unit was lawfully carrying prior to March 31, 1972.

(f) The provisions of this section shall not apply to any community unit having fewer than 1,000 subscribers.

(Secs. 2, 3, 4, 5, 301, 303, 307, 308, 309, 315, 317, 48 Stat., as amended, 1064, 1065, 1066, 1068, 1081, 1082, 1083, 1084, 1085, 1088, 1089; (47 U.S.C. 152, 153, 154, 155, 301, 303, 307, 308, 309, 315, 317))

[40 FR 30649, July 22, 1975, as amended at 40 FR 53031, Nov. 14, 1975; 42 FR 19346, Apr. 13, 1977; 43 FR 20235, May 11, 1978; 52 FR 17577, May 11, 1987; 54 FR 41843, Oct. 12, 1989]

§ 76.70 Exemption from input selector switch rules.

(a) In any case of cable systems serving communities where no portion of the community is covered by the predicted Grade B contour of at least one full service broadcast television station, or non-commercial educational television translator station operating with 5 or more watts output power and where the signals of no such broadcast stations are ''significantly viewed'' in the county where such a cable system is located, the cable system shall be exempt from the provisions of § 76.66. Cable systems may be eligible for this exemption where they demonstrate with engineering studies prepared in accordance with § 73.686 of this chapter or other showings that broadcast signals meeting the above criteria are not actually viewable within the community.

(b) Where a new full service broadcast television station, or new noncommercial educational television translator station with 5 or more watts, or an existing such station of either type with newly upgraded facilities provides predicted Grade B service to a community served by a cable system previously exempt under paragraph (a) of this section, or the signal of any such broadcast station is newly determined to be ''significantly viewed'' in the county where such a cable system is located, the cable system at that time is required to comply fully with the provisions of § 76.66. Cable systems may retain their exemption under paragraph (a) of this section where they demonstrate with engineering studies prepared in accordance with § 73.686 of this chapter or other showings that broadcast signals meeting the above criteria are not actually viewable within the community.

[54 FR 25716, June 19, 1989]

Subpart E—Equal Employment Opportunity Requirements

SOURCE: 50 FR 40855, Oct. 7, 1985, unless otherwise noted.

§ 76.71 Scope of application.

(a) The provisions of this subpart shall apply to any corporation, partnership, association, joint-stock company, or trust engaged primarily in the management or operation of any cable system. Cable entities subject to these provisions include those systems defined in § 76.5(a), all satellite master antenna television systems serving 50 or more subscribers, and any multichannel video programming distributor. For purposes of the provisions of this subpart, a multichannel video programming distributor is an entity such as, but not limited to, a cable operator, a multipoint distribution service, a multichannel multipoint distribution

service, a direct broadcast satellite service, a television receive-only satellite program distributor, or a video dialtone program service provider, who makes available for purchase, by subscribers or customers, multiple channels of video programming, whether or not a licensee. Multichannel video programming distributors do not include any entity which lacks control over the video programming distributed. For purposes of this subpart, an entity has control over the video programming it distributes, if it selects video programming channels or programs and determines how they are presented for sale to consumers. Nothwithstanding the foregoing, the regulations in this subpart are not applicable to the owners or originators (of programs or channels of programming) that distribute six or fewer channels of commonly-owned video programming over a leased transport facility. For purposes of this subpart, programming services are ''commonly-owned'' if the same entity holds a majority of the stock (or is a general partner) of each program service.

(b) *Employment units.* The provisions of this subpart shall apply to cable entities as employment units. Each cable entity may be considered a separate employment unit; however, where two or more cable entities are under common ownership or control and are interrelated in their local management, operation, and utilization of employees, they shall constitute a single employment unit.

(c) *Headquarters office.* A multiple cable operator shall treat as a separate employment unit each headquarters office to the extent the work of that office is primarily related to the operation of more than one employment unit as described in paragraph (b) of this section.

[50 FR 40855, Oct. 7, 1985, as amended at 58 FR 42250, Aug. 9, 1993]

§76.73 General EEO policy.

(a) Equal opportunity in employment shall be afforded by each cable entity to all qualified persons, and no person shall be discriminated against in employment by such entity because of race, color, religion, national origin, age or sex.

(b) Each employment unit shall establish, maintain, and carry out a positive continuing program of specific practices designed to assure equal opportunity to every aspect of cable system employment policy and practice. Under the terms of its program, an employment unit shall:

(1) Define the responsibility of each level of management to ensure a positive application and vigorous enforcement of its policy of equal opportunity, and establish a procedure to review and control managerial and supervisory performance;

(2) Inform its employees and recognized employee organizations of the positive equal employment opportunity policy and program and enlist their cooperation;

(3) Communicate its equal employment opportunity policy and progam and its employment needs to sources of qualified applicants without regard to race, color, religion, national origin, age or sex, and solicit their recruitment assistance on a continuing basis;

(4) Conduct a continuing program to exclude every form of prejudice or discrimination based upon race, color, religion, national origin, age or sex from its personnel policies and practices and working conditions; and

(5) Conduct a continuing review of job structure and employment practices and adopt positive recruitment, training, job design, and other measures needed to ensure genuine equality of opportunity to participate fully in all organizational units, occupations, and levels of responsibility.

§76.75 EEO program requirements.

An employment unit's equal employment opportunity program should reasonably address itself to the specific areas set forth below, to the extent possible and to the extent that they are appropriate in terms of employment unit size, location, etc.:

(a) Disseminate its equal employment opportunity program to job applicants, employees, and those with whom it regularly does business. For example, this requirement may be met by:

(1) Posting notices in the employment unit's office and places of employment informing employees, and applicants for employment, of their equal

employment opportunity rights, and their right to notify the Equal Employment Opportunity Commission, the Federal Communications Commission, or other appropriate agency, if they believe they have been discriminated against. Where a significant percentage of employees, employment applicants, or residents of the community of a cable television system of the relevant labor area are Hispanic, such notices should be posted in Spanish and English. Similar use should be made of other languages in such posted equal employment opportunity notices, where appropriate;

(2) Placing a notice in bold type on the employment application informing prospective employees that discrimination because of race, color, religion, national origin, age or sex is prohibited and that they may notify the Equal Employment Opportunity Commission, the Federal Communications Commission, or other appropriate agency if they believe they have been discriminated against.

(b) Use minority organizations, organizations for women, media, educational institutions, and other potential sources of minority and female applicants, to supply referrals whenever job vacancies are available in its operation. For example, this requirement may be met by:

(1) Placing employment advertisements in media that have significant circulation among minority-group people in the recruiting area;

(2) Recruiting through schools and colleges with significant minority-group enrollments;

(3) Maintaining systematic contacts with minority and human relations organizations, leaders, and spokesmen to encourage referral of qualified minority or female applicants;

(4) Encouraging current employees to refer minority or female applicants;

(5) Making known to the appropriate recruitment sources in the employer's immediate area that qualified minority members and females are being sought for consideration whenever the employment unit hires.

(c) Evaluate its employment profile and job turnover against the availability of minorities and women in its franchise area. For example, this requirement may be met by:

(1) Comparing composition of relevant labor area with the composition of the entity's employees;

(2) Comparing its employees, within each job category, with the people available for such positions;

(3) Where there is underrepresentation of either minorities and/or women, examining the company's personnel policies and practices to assure that they do not inadvertently screen out any protected group and take appropriate action where necessary.

NOTE: These data are generally available on a metropolitan statistical area (MSA), primany metropolitan statistical area (PMSA) or county basis.

(d) Undertake to offer promotions of minorities and women in a non-discriminatory fashion to positions of greater responsibility. For example, this requirement may be met by:

(1) Instructing those who make decisions on placement and promotion that minority employees and females are to be considered without discrimination, and that job areas in which there is little or no minority or female representation should be reviewed to determine whether this results from discrimination;

(2) Giving minority groups and female employees equal opportunity for positions which lead to higher positions. Inquiring as to the interest and skills of all lower paid employees with respect to any of the higher paid positions, followed by assistance, counselling, and effective measures to enable employees with interest and potential to qualify themselves for such positions;

(3) Providing opportunity to perform overtime work on a basis that does not discriminate against qualified minority group or female employees.

(e) Encourage minority and female entrepreneurs to conduct business with all parts of its operation. For example, this requirement may be met by:

(1) Recruiting as wide as possible a pool of qualified entrepreneurs from sources such as employee referrals, community groups, contractors, associations, and other sources likely to be representative of minority and female interests.

(f) Analyze the results of its efforts to recruit, hire, promote, and use the services of minorities and women and explain any difficulties encountered in implementing its equal employment opportunity program. For example, this requirement may be met by:

(1) Where union agreements exist, cooperating with the union or unions in the development of programs to assure qualified minority persons or females of equal opportunity for employment, and including an effective nondiscrimination clause in new or renegotiated union agreements;

(2) Avoiding use of selection techniques or tests that have the effect of discriminating against qualified minority groups or females;

(3) Reviewing seniority practices to ensure that such practices are nondiscriminatory;

(4) Examining rates of pay and fringe benefits for employees having the same duties, and eliminating any inequities based upon race or sex discrimination.

§76.77 Reporting Requirements.

(a) *Annual employment report.* Each employment unit with six or more full-time employees shall file an annual employment report (FCC Form 395A) with the Commission on or before May 1 of each year. Employment data on the annual employment report shall reflect the figures from any one payroll period in January, February, or March of the year during which the report is filed. Unless instructed otherwise by the FCC, the same payroll period shall be used for each successive annual employment reports.

(b) *Certification of Compliance.* The Commission will use the information submitted on Form 395A to determined whether cable systems are in compliance with the provisions of this subpart. Cable systems found to be in compliance with these rules will receive a Certificate of Compliance.

(c) *Investigations.* The Commission will investigate each cable system at least once every five years. Cable systems are required to submit supplemental investigation information with their regular Form 395A reports in the years they are investigated.

(d) *Job category definitions.* The following job category definitions are to be used when classifying employees for purposes of this section:

(1) *Corporate officers.* An employee who is responsible for setting broad policies for the overall operation of the company and who holds a corporate office as designated by the company's governing regulations (*e.g.*, Articles of Incorporation, Articles of Partnership, By-Laws). Examples of positions which may fall within this category include, Chairman of the Board, President and Vice President.

NOTE: Employees who perform responsibilities falling within the ''Corporate Officers'' and another of the job categories in paragraphs (d) (2) through (6), should normally be classified in only one of the categories in paragraphs (d) (2) through (6). Specific job titles for categories in paragraphs (d) (1) through (6) are merely illustrative. The proper categorization of any employee depends on the kind and level of the employee's responsibilities and not merely the employee's title. Employees who are appropriately classified into one of the categories in paragraphs (d) (1) through (6) also should fall within the category of paragraph (d)(7).

(2) *General manager.* An employee who exercises overall responsibility for a cable unit or system. Related title may include ''systems manager.''

(3) *Chief technician.* An employee who has overall responsibility for the system's technical operations. The incumbent ordinarily oversees technical budgets and expenditures, inventory control and fleet management. Individual ordinarily supervises technical personnel in the installation, service, maintenance and construction departments and/or studio. Category includes related titles such as ''Technical Operations Manager,'' ''Technical Manager,'' ''Plant Manager,'' or ''Chief Engineer.''

(4) *Comptroller.* An employee who manages the activities of the accounting department in the maintenance of the accounting book and other such records.

(5) *General sales manager.* A senior sales or marketing employee who oversees the marketing functions of the system which may include telemarketing in addition to direct sales.

(6) *Production manager.* A senior employee responsible for advertising and/or production of local community programming.

NOTE: An employee whose responsibilities fall within more than one of the job categories in paragraphs (d) (2) through (6), (i.e., General Manager/Comptroller), should be listed in the one job category which represents the most frequently performed task by that person.

(7) *Managers.* Occupations requiring administrative personnel who set broad policies, exercise overall responsibility for execution of these policies, and direct individual departments or special phases or segments of a firm's operation or subdepartments of a major department. Incumbents within this category ordinarily exercise authority to hire and terminate employees. This category would include systems managers and assistant managers, program directors and assistant directors, office managers, budget officers, promotions managers, public affairs directors, chief engineers and those holding equivalent positions. Employees appropriately falling within categories in paragraphs (d) (1) through (6) also should fall within this category.

(8) *Professionals.* Occupations requiring either college graduation or experience of such kind and amount as to provide a comparable background. Includes: accountants and auditors, editors, engineers, lawyers and labor relations specialists. This category would include persons engaged in the writing, preparation and reproduction of programming, writers or editors, producers and directors of programs, floor directors, announcers, singers, actors, music librarians and those in similar positions.

(9) *Technicians.* Occupations requiring a combination of basic scientific knowledge and manual skill which can be obtained through about 2 years of post high school education, such as is offered in many technical institutes and junior colleges, or through equivalent on-the-job training. Includes: computer programmers and operators, engineering aides, junior engineers and electronic technicians. This category also would include strand mappers, audio and video engineers, camera technicians (live or film), film processors, light technicians, drafters and design personnel, electronic converter repair technicians (technicians who perform more than clear and recycle functions) and advertising sales production personnel.

(10) *Sales.* Occupations engaging wholly or primarily in direct selling. This category would include advertising agents, cable service sales personnel (sales representatives), and individuals engaged in direct customer contact for the purposes of product and service promotion. This category includes employees who ordinarily are paid by commissions.

(11) *Office and clerical.* Includes all clerical-type work regardless of level of difficulty, where the activities are predominantly nonmanual though some manual work not directly involved with altering or transporting the products is included. Includes: Bookkeepers, cashiers, collectors of bills and accounts, messengers and clerks, office machine operators, stenographers, typists and secretaries, telephone operators, kindred workers and customer service representatives.

(12) *Craft workers (skilled).* Manual workers of relatively high skill level having a thorough and comprehensive knowledge of the processes involved in their work. Exercise considerable independent judgment and usually receive an extensive period of training. Includes: Hourly paid supervisors who are not members of management, mechanics, and repair workers, electricians, motion picture projectionists, and splicers.

(13) *Operatives (semi-skilled).* Workers who operate machine or processing equipment or perform other factory-type duties of intermediate skill level which can be mastered in a few weeks and require only limited training Includes: Apprentices, operatives, truck and tractor drivers, welders, installers, line workers, and trenching machine workers.

NOTE: Apprentices—Persons employed in a program including work training and related instruction to learn a trade or craft which is traditionally considered an apprenticeship regardless of whether the program is registered with a Federal or State agency.

(14) *Laborers (unskilled).* Workers in manual occupations which generally require no special training. Perform elementary duties that may be learned

in a few days and require the application of little or no independent judgment. Includes: gardeners and groundskeepers, laborers performing lifting or digging, stage hands and kindred workers.

(15) *Service workers.* Workers in both protective and nonprotective service occupations. Includes: Char workers and cleaners, elevator operators, guards and watch workers, janitors, and kindred workers.

NOTE: A person who does a job falling within more than one of the job categories listed in paragraphs (d) (7) through (15) is to be listed in the job category which represents the most frequently performed task by that person; a person is to be listed only once. Specific job titles listed in the categories above are merely illustrative. The proper categorization of any employee depends on the kind and level of the employee's responsibilities.

[50 FR 40855, Oct. 7, 1985, as amended at 58 FR 42250, Aug. 9, 1993]

§76.79 Records available for public inspection.

(a) A copy of every annual employment report, and any other employment report filed with the Commission, and complaint report that has been filed with the Commission, and copies of all exhibits, letters, and other documents filed as part thereof, all amendments thereto, all correspondence between the cable entity and the Commission pertaining to the reports after they have been filed in all documents incorporated therein by reference, unless specifically exempted from the requirement, are open for public inspection at the offices of the Commission in Washington, DC.

(b) Every employment unit shall maintain for public inspection a file containing copies of all annual employment reports. Each document shall be retained for a period of five years. The file shall be maintain at the central office and at every location with more than five full-time employees. A headquarters employment unit file and a file containing a consolidated set of all documents pertaining to the other employment units of a multiple cable operator shall be maintained at the central office of the headquarters employment unit. The cable entity shall provide reasonable accommodations at these locations for undisturbed inspection of his equal employment opportunity records by members of the public during regular business hours.

Subpart F—Nonduplication Protection and Syndicated Exclusivity

SOURCE: 53 FR 27171, July 19, 1988, unless otherwise noted.

§76.92 Network non-duplication; extent of protection.

(a) Upon receiving notification pursuant to §76.94, a cable community unit located in whole or in part within the geographic zone for a network program, the network non-duplication rights to which are held by a commercial television station licensed by the Commission, shall not carry that program as broadcast by any other television signal, except as otherwise provided below.

(b) For purposes of this section, the order of nonduplication priority of television signals carried by a community unit is as follows:

(1) First, all television broadcast stations within whose specified zone the community of the community unit is located, in whole or in part;

(2) Second, all smaller market television broadcast stations within whose secondary zone the community of the community unit is located, in whole or in part.

(c) For purposes of this section, all noncommercial educational television broadcast stations licensed to a community located in whole or in part within a major television market as specified in §76.51 shall be treated in the same manner as a major market commercial television broadcast station, and all noncommercial educational television broadcast stations not licensed to a community located in whole or in part within a major television market shall be treated in the same manner as a smaller market television broadcast station.

(d) Any community unit operating in a community to which a 100-watt or higher power translator is located within the predicted Grade B signal

contour of the television broadcast station that the translator station retransmits, and which translator is carried by the community unit shall, upon request of such translator station licensee or permittee, delete the duplicating network programming of any television broadcast station whose reference point (See § 76.53) is more than 88.5 km (55 miles) from the community of the community unit.

(e) Any community unit which operates in a community located in whole or in part within the secondary zone of a smaller market television broadcast station is not required to delete the duplicating network programming of any major market television broadcast station whose reference point (See Section 76.53) is also within 88.5 km (55 miles) of the community of the community unit.

(f) A community unit is not required to delete the duplicating network programming of any television broadcast station which is significantly viewed in the cable television community pursuant to § 76.54.

(g) A community unit is not required to delete the duplicating network programming of any qualified NCE television broadcast station that is carried in fulfillment of the cable television system's mandatory signal carriage obligations, pursuant to § 76.56.

NOTE: With respect to network programming, the geographic zone within which the television station is entitled to enforce network non-duplication protection and priority of shall be that geographic area agreed upon between the network and the television station. In no event shall such rights exceed the area within which the television station may acquire broadcast territorial exclusivity rights as defined in § 73.658(m), except that small market television stations shall be entitled to a secondary protection zone of 32.2 additional kilometers (20 additional miles). To the extent rights are obtained for any hyphenated market named in § 76.51, such rights shall not exceed those permitted under § 76.658(m) for each named community in that market.

[53 FR 27171, July 19, 1988, as amended at 54 FR 12918, Mar. 29, 1989; 58 FR 17364, Apr. 2, 1993; 58 FR 44951, Aug. 25, 1993]

§ 76.93 Parties entitled to network non-duplication protection.

Television broadcast station licensees shall be entitled to exercise non-duplication rights pursuant to § 76.92 in accordance with the contractual provisions of the network-affiliate agreement.

§ 76.94 Notification.

(a) In order to exercise non-duplication rights pursuant to § 76.92, television stations shall notify each cable television system operator of the non-duplication sought in accordance with the requirements of this Section. Except as otherwise provided in paragraph (b) of this section, non-duplication protection notices shall include the following information:

(1) The name and address of the party requesting non-duplication protection and the television broadcast station holding the non-duplication right;

(2) The name of the program or series (including specific episodes where necessary) for which protection is sought; and

(3) The dates on which protection is to begin and end.

(b) Broadcasters entering into contracts providing for network non-duplication protection shall notify affected cable systems within 60 calendar days of the signing of such a contract; provided, however, that for such contracts signed before May 5, 1989, a broadcaster may provide notice on or before June 19, 1989. In the event the broadcaster is unable based on the information contained in the contract, to furnish all the information required by paragraph (a) of this section at that time, the broadcaster must provide modified notices that contain the following information:

(1) The name of the network (or networks) which has (or have) extended non-duplication protection to the broadcaster;

(2) The time periods by time of day (local time) and by network (if more than one) for each day of the week that the broadcaster will be broadcasting programs from that network (or networks) and for which non-duplication protection is requested; and

(3) The duration and extent (*e.g.*, simultaneous, same-day, seven-day, etc.) of the non-duplication protection which has been agreed upon by the network (or networks) and the broadcaster.

(c) Except as otherwise provided in paragraph (d) of this section, a broadcaster shall be entitled to non-duplication protection beginning on the later of:

(1) The date specified in its notice (as described in paragraphs (a) or (b) of this section, whichever is applicable) to the cable television system; or

(2) The first day of the calendar week (Sunday-Saturday) that begins 60 days after the cable television system receives notice from the broadcaster.

(d) A broadcaster shall provide the following information to the cable television system under the following circumstances:

(1) In the event the protection specified in the notices described in paragraphs (a) or (b) of this section has been limited or ended prior to the time specified in the notice, or in the event a time period, as identified to the cable system in a notice pursuant to paragraph (b) of this section, for which a broadcaster has obtained protection is shifted to another time of day or another day (but not expanded), the broadcaster shall, as soon as possible, inform each cable television system operator that has previously received the notice of all changes from the original notice. Notice to be furnished ''as soon as possible'' under this subsection shall be furnished by telephone, telegraph, facsimile, overnight mail or other similar expedient means.

(2) In the event the protection specified in the modified notices described in paragraph (b) of this section has been expanded, the broadcaster shall, at least 60 calendar days prior to broadcast of a protected program entitled to such expanded protection, notify each cable system operator that has previously received notice of all changes from the original notice.

(e) In determining which programs must be deleted from a television signal, a cable television system operator may rely on information from any of the following sources published or otherwise made available:

(1) Newspapers or magazines of general circulation.

(2) A television station whose programs may be subject to deletion. If a cable television system asks a television station for information about its program schedule, the television station shall answer the request:

(i) Within ten business days following the television station's receipt of the request; or

(ii) Sixty days before the program or programs mentioned in the request for information will be broadcast; whichever comes later.

(3) The broadcaster requesting exclusivity.

(f) A broadcaster exercising exclusivity pursuant to §76.92 shall provide to the cable system, upon request, an exact copy of those portions of the contracts, such portions to be signed by both the network and the broadcaster, setting forth in full the provisions pertinent to the duration, nature, and extent of the non-duplication terms concerning broadcast signal exhibition to which the parties have agreed.

[54 FR 12918, Mar. 29, 1989; 54 FR 25857, June 20, 1989]

§76.95 Exceptions.

(a) The provisions of §§76.92–76.94 shall not apply to a cable system serving fewer than 1,000 subscribers. Within 60 days following the provision of service to 1,000 subscribers, the operator of each such system shall file a notice to that effect with the Commission, and serve a copy of that notice on every television station that would be entitled to exercise network non-duplication protection against it.

(b) Network non-duplication protection need not be extended to a higher priority station for one hour following the scheduled time of completion of the broadcast of a live sports event by that station or by a lower priority station against which a cable community unit would otherwise be required to provide non-duplication protection following the scheduled time of completion.

[53 FR 27171, July 19, 1989, as amended at 54 FR 12919, Mar. 29, 1989]

§ 76.97 Effective dates.

The network non–duplication protection and exceptions thereto outlined in §§ 76.92 through 76.95 shall become enforceable on January 1, 1990. The rules in effect on May 18, 1988, will remain operative until January 1, 1990.

[54 FR 12919, Mar. 29, 1989; 54 FR 25857, June 20, 1989]

§ 76.151 Syndicated program exclusivity: extent of protection.

Upon receiving notification pursuant to § 76.155, a cable community unit located in whole or in part within the geographic zone for a syndicated program, the syndicated exclusivity rights to which are held by a commercial television station licensed by the Commission, shall not carry that program as broadcast by any other television signal, except as otherwise provided below.

NOTE: With respect to each syndicated program, the geographic zone within which the television station is entitled to enforce syndicated exclusivity rights shall be that geographic area agreed upon between the nonnetwork program supplier, producer or distributor and the television station. In no event shall such zone exceed the area within which the television station has acquired broadcast territorial exclusivity rights as defined in § 73.658(m). To the extent rights are obtained for any hyphenated market named in § 76.51, such rights shall not exceed those permitted under § 73.658(m) for each named community in that market.

[53 FR 27171, July 19, 1988, as amended at 54 FR 12919, Mar. 29, 1989]

§ 76.153 Parties entitled to syndicated exclusivity.

(a) Television broadcast station licensees shall be entitled to exercise exclusivity rights pursuant to § 76.151 in accordance with the contractual provisions of their syndicated program license agreements, consistent with § 76.159.

(b) Distributors of syndicated programming shall be entitled to exercise exclusive rights pursuant to § 76.151 for a period of one year from the initial broadcast syndication licensing of such programming anywhere in the United States; provided, however, that distributors shall not be entitled to exercise such rights in areas in which the programming has already been licensed.

§ 76.155 Notification.

(a) In order to exercise exclusivity rights pursuant to § 76.151, distributors or television stations shall notify each cable television system operator of the exclusivity sought in accordance with the requirements of this section. Syndicated program exclusivity notices shall include the following information:

(1) The name and address of the party requesting exclusivity and the television broadcast station or other party holding the exclusive right;

(2) The name of the program or series (including specific episodes where necessary) for which exclusivity is sought;

(3) The dates on which exclusivity is to begin and end.

(b) Broadcasters entering into contracts on or after August 18, 1988, which contain syndicated exclusivity protection shall notify affected cable systems within sixty calendar days of the signing of such a contract. Broadcasters who have entered into contracts prior to August 18, 1988, and who comply with the requirements specified in § 76.159 shall notify affected cable systems on or before June 19, 1989; provided, however, that with respect to such pre-August 18, 1988, contracts that require amendment in order to invoke the provisions of these rules, notification may be given within sixty calendar days of the signing of such amendment. A broadcaster shall be entitled to exclusivity protection beginning on the later of:

(1) The date specified in its notice to the cable television system; or

(2) The first day of the calendar week (Sunday-Saturday) that begins 60 days after the cable television system receives notice from the broadcaster;

(c) In determining which programs must be deleted from a television broadcast signal, a cable television system operator may rely on information from any of the following sources published or otherwise made available.

(1) Newspapers or magazines of general circulation;

(2) A television station whose programs may be subject to deletion. If a

cable television system asks a television station for information about its program schedule, the television station shall answer the request:

(i) Within ten business days following the television station's receipt of the request; or

(ii) Sixty days before the program or programs mentioned in the request for information will be broadcast; whichever comes later.

(3) The distributor or television station requesting exclusivity.

(d) In the event the exclusivity specified in paragraph (a) of this section has been limited or has ended prior to the time specified in the notice, the distributor or broadcaster who has supplied the original notice shall, as soon as possible, inform each cable television system operator that has previously received the notice of all changes from the original notice. In the event the original notice specified contingent dates on which exclusivity is to begin and/or end, the distributor or broadcaster shall, as soon as possible, notify the cable television system operator of the occurrence of the relevant contingency. Notice to be furnished ''as soon as possible'' under this subsection shall be furnished by telephone, telegraph, facsimile, overnight mail or other similar expedient means.

[53 FR 27171, July 19, 1988, as amended at 54 FR 12919, Mar. 29, 1989]

§76.156 Exceptions.

(a) Notwithstanding the requirements of §§76.151–76.155, a broadcast signal is not required to be deleted from a cable community unit when that cable community unit falls, in whole or in part, within that signal's grade B contour, or when the signal is significantly viewed pursuant to §76.54 in the cable community.

(b) The provisions of §§76.151–76.155 shall not apply to a cable system serving fewer than 1,000 subscribers. Within 60 days following the provision of service to 1,000 subscribers, the operator of each such system shall file a notice to that effect with the Commission, and serve a copy of that notice on every television station that would be entitled to exercise syndicated exclusivity protection against it.

§76.157 Exclusivity contracts.

A distributor or television station exercising exclusivity pursuant to §76.151 shall provide to the cable system, upon request, an exact copy of those portions of the exclusivity contracts, such portions to be signed by both the distributor and the television station, setting forth in full the provisions pertinent to the duration, nature, and extent of the exclusivity terms concerning broadcast signal exhibition to which the parties have agreed.

§76.158 Indemnification contracts.

No licensee shall enter into any contract to indemnify a cable system for liability resulting from failure to delete programming in accordance with the provisions of this subpart unless the licensee has a reasonable basis for concluding that such program deletion is not required by this subpart.

[54 FR 12919, Mar. 29, 1989]

§76.159 Requirements for invocation of protection.

For a station licensee to be eligible to invoke the provisions of this subpart, it must have a contract or other written indicia that it holds syndicated exclusivity rights for the exhibition of the program in question. Contracts entered on or after August 18, 1988, must contain the following words: ''the licensee [or substitute name] shall, by the terms of this contract, be entitled to invoke the protection against duplication of programming imported under the Compulsory Copyright License, as provided in §76.151 of the FCC rules [or 'as provided in the FCC's syndicated exclusivity rules'].'' Contracts entered into prior to August 18, 1988, must contain either the foregoing language or a clear and specific reference to the licensee's authority to exercise exclusivity rights as to the specific programming against cable television broadcast signal carriage by the cable system in question upon the contingency that the government reimposed syndicated exclusivity protection. In the absence of such a specific reference in contracts entered into prior to August 18, 1988, the provisions of these rules may be invoked only if (a) the contract

is amended to include the specific language referenced above or (b) a specific written acknowledgment is obtained from the party from whom the broadcast exhibition rights were obtained that the existing contract was intended, or should now be construed by agreement of the parties, to include such rights. A general acknowledgment by a supplier of exhibition rights that specific contract language was intended to convey rights under these rules will be accepted with respect to all contracts containing that specific language. Nothing in this Section shall be construed as a grant of exclusive rights to a broadcaster where such rights are not agreed to by the parties.

[54 FR 12919, Mar. 29, 1989]

§ 76.161 Substitutions.

Whenever, pursuant to the requirements of the syndicated exclusivity rules, a community unit is required to delete a television program on a broadcast signal that is permitted to be carried under the Commission's rules, such community unit may, consistent with these rules and the sports blackout rules at 47 CFR 76.67, substitute a program from any other television broadcast station. Programs substituted pursuant to this section may be carried to their completion.

[54 FR 12920, Mar. 29, 1989]

§ 76.163 Effective dates.

No cable system shall be required to delete programming pursuant to the provisions of §§ 76.151 through 76.159 prior to January 1, 1990.

[54 FR 12920, Mar. 29, 1989]

Subpart G—Cablecasting

§ 76.205 Origination cablecasts by legally qualified candidates for public office; equal opportunities.

(a) *General requirements.* No cable television system is required to permit the use of its facilities by any legally qualified candidate for public office, but if any system shall permit any such candidate to use its facilities, it shall afford equal opportunities to all other candidates for that office to use such facilities. Such system shall have no power of censorship over the material broadcast by any such candidate. Appearance by a legally qualified candidate on any:

(1) Bona fide newscast;

(2) Bona fide news interview;

(3) Bona fide news documentary (if the appearance of the candidate is incidental to the presentation of the subject or subjects covered by the news documentary); or

(4) On-the-spot coverage of bona fide news events (including, but not limited to political conventions and activities incidental thereto) shall not be deemed to be use of a system. (section 315(a) of the Communications Act.)

(b) *Uses.* As used in this section and § 76.206, the term ''use'' means a candidate appearance (including by voice or picture) that is not exempt under paragraphs 76.205 (a)(1) through (a)(4) of this section.

(c) *Timing of Request.* A request for equal opportunities must be submitted to the system within 1 week of the day on which the first prior use giving rise to the right of equal opportunities occurred: Provided, however, That where the person was not a candidate at the time of such first prior use, he or she shall submit his or her request within 1 week of the first subsequent use after he or she has become a legally qualified candidate for the office in question.

(d) *Burden of proof.* A candidate requesting equal opportunities of the system or complaining of noncompliance to the Commission shall have the burden of proving that he or she and his or her opponent are legally qualified candidates for the same public office.

(e) *Discrimination between candidates.* In making time available to candidates for public office, no system shall make any discrimination between candidates in practices, regulations, facilities, or services for or in connection with the service rendered pursuant to this part, or make or give any preference to any candidate for public office or subject any such candidate to any prejudice or disadvantage; nor shall any system make any contract or other agreement which shall have the effect of permitting any legally qualified candidate for

any public office to cablecast to the exclusion of other legally qualified candidates for the same public office.

[57 FR 210, Jan. 3, 1992, as amended at 59 FR 14568, Mar. 29, 1994]

§ 76.206 Candidate rates.

(a) *Charges for use of cable television systems.* The charges, if any, made for the use of any system by any person who is a legally qualified candidate for any public office in connection with his or her campaign for nomination for election, or election, to such office shall not exceed:

(1) During the 45 days preceding the date of a primary or primary runoff election and during the 60 days preceding the date of a general or special election in which such person is a candidate, the lowest unit charge of the system for the same class and amount of time for the same period.

(i) A candidate shall be charged no more per unit than the system charges its most favored commercial advertisers for the same classes and amounts of time for the same periods. Any system practices offered to commercial advertisers that enhance the value of advertising spots must be disclosed and made available to candidates upon equal terms. Such practices include but are not limited to any discount privileges that affect the value of advertising, such as bonus spots, time-sensitive make goods, preemption priorities, or any other factors that enhance the value of the announcement.

(ii) The Commission recognizes non-preemptible, preemptible with notice, immediately preemptible and run-of-schedule as distinct classes of time.

(iii) Systems may establish and define their own reasonable classes of immediately preemptible time so long as the differences between such classes are based on one or more demonstrable benefits associated with each class and are not based solely upon price or identity of the advertiser. Such demonstrable benefits include, but are not limited to, varying levels of preemption protection, scheduling flexibility, or associated privileges, such as guaranteed time-sensitive make goods. Systems may not use class distinctions to defeat the purpose of the lowest unit charge requirement. All classes must be fully disclosed and made available to candidates.

(iv) Systems may establish reasonable classes of preemptible with notice time so long as they clearly define all such classes, fully disclose them and make them available to candidates.

(v) Systems may treat non-preemptible and fixed position as distinct classes of time provided that systems articulate clearly the differences between such classes, fully disclose them, and make them available to candidates.

(vi) Systems shall not establish a separate, premium-priced class of time sold only to candidates. Systems may sell higher-priced non-preemptible or fixed time to candidates if such a class of time is made available on a *bona fide* basis to both candidates and commercial advertisers, and provided such class is not functionally equivalent to any lower-priced class of time sold to commercial advertisers.

(vii) [Reserved]

(viii) Lowest unit charge may be calculated on a weekly basis with respect to time that is sold on a weekly basis, such as rotations through particular programs or dayparts. Systems electing to calculate the lowest unit charge by such a method must include in that calculation all rates for all announcements scheduled in the rotation, including announcements aired under long-term advertising contracts. Systems may implement rate increases during election periods only to the extent that such increases constitute ''ordinary business practices,'' such as seasonal program changes or changes in audience ratings.

(ix) Systems shall review their advertising records periodically throughout the election period to determine whether compliance with this section requires that candidates receive rebates or credits. Where necessary, systems shall issue such rebates or credits promptly.

(x) Unit rates charged as part of any package, whether individually negotiated or generally available to all advertisers, must be included in the lowest unit charge calculation for the same class and length of time in the same time period. A candidate cannot be required to purchase advertising in

every program or daypart in a package as a condition for obtaining package unit rates.

(xi) Systems are not required to include non-cash promotional merchandising incentives in lowest unit charge calculations; provided, however, that all such incentives must be offered to candidates as part of any purchases permitted by the system. Bonus spots, however, must be included in the calculation of the lowest unit charge calculation.

(xii) Make goods, defined as the rescheduling of preempted advertising, shall be provided to candidates prior to election day if a system has provided a time-sensitive make good during the year preceding the pre-election periods, respectively set forth in paragraph (a)(1) of this section, to any commercial advertiser who purchased time in the same class.

(xiii) Systems must disclose and make available to candidates any make good policies provided to commercial advertisers. If a system places a make good for any commercial advertiser or other candidate in a more valuable program or daypart, the value of such make good must be included in the calculation of the lowest unit charge for that program or daypart.

(2) At any time other than the respective periods set forth in paragraph (a)(1) of this section, systems may charge legally qualified candidates for public office no more than the charges made for comparable use of the system by commercial advertisers. The rates, if any, charged all such candidates for the same office shall be uniform and shall not be rebated by any means, direct or indirect. A candidate shall be charged no more than the rate the system would charge for comparable commercial advertising. All discount privileges otherwise offered by a system to commercial advertisers must be disclosed and made available upon equal terms to all candidates for public office.

(b) If a system permits a candidate to use its cablecast facilities, the system shall make all discount privileges offered to commercial advertisers, including the lowest unit charges for each class and length of time in the same time period and all corresponding discount privileges, available on equal terms to all candidates. This duty includes an affirmative duty to disclose to candidates information about rates, terms, conditions and all value-enhancing discount privileges offered to commercial advertisers. Systems may use reasonable discretion in making the disclosure; provided, however, that the disclosure includes, at a minimum, the following information:

(1) A description and definition of each class of time available to commercial advertisers sufficiently complete enough to allow candidates to identify and understand what specific attributes differentiate each class;

(2) A description of the lowest unit charge and related privileges (such as priorities against preemption and make goods prior to specific deadlines) for each class of time offered to commercial advertisers;

(3) A description of the system's method of selling preemptible time based upon advertiser demand, commonly known as the ''current selling level,'' with the stipulation that candidates will be able to purchase at these demand-generated rates in the same manner as commercial advertisers;

(4) An approximation of the likelihood of preemption for each kind of preemptible time; and

(5) An explanation of the system's sales practices, if any, that are based on audience delivery, with the stipulation that candidates will be able to purchase this kind of time, if available to commercial advertisers.

(c) Once disclosure is made, systems shall negotiate in good faith to actually sell time to candidates in accordance with the disclosure.

[57 FR 210, Jan. 3, 1992, as amended at 57 FR 27709, June 22, 1992]

§ 76.207 Political file.

(a) Every cable television system shall keep and permit public inspection of a complete and orderly record (political file) of all requests for cablecast time made by or on behalf of a candidate for public office, together with an appropriate notation showing the disposition made by the system of such requests, and the charges made, if any,

if the request is granted. The ''disposition'' includes the schedule of time purchased, when spots actually aired, the rates charged, and the classes of time purchased.

(b) When free time is provided for use by or on behalf of candidates, a record of the free time provided shall be placed in the political file.

(c) All records required by this paragraph shall be placed in the political file as soon as possible and shall be retained for a period of two years. As soon as possible means immediately absent unusual circumstances.

[57 FR 212, Jan. 3, 1992]

§ 76.209 Fairness doctrine; personal attacks; political editorials.

(a) A cable television system operator engaging in origination cablecasting shall afford reasonable opportunity for the discussion of conflicting views on issues of public importance.

NOTE: See public notice, ''Applicability of the Fairness Doctrine in the Handling of Controversial Issues of Public Importance,'' 29 FR 10415.

(b) When, during such origination cablecasting, an attack is made upon the honesty, character, integrity, or like personal qualities of an identified person or group, the cable television system operator shall, within a reasonable time and in no event later than one (1) week after the attack, transmit to the person or group attacked:

(1) Notification of the date, time, and identification of the cablecast;

(2) A script or tape (or an accurate summary if a script or tape is not available) of the attack; and

(3) An offer of a reasonable opportunity to respond over the system's facilities.

(c) The provisions of paragraph (b) of this section shall not apply to cablecast material which falls within one or more of the following categories:

(1) Personal attacks on foreign groups or foreign public figures;

(2) Personal attacks occurring during uses by legally qualified candidates.

(3) Personal attacks made during cablecasts not included in paragraph (b)(2) of this section and made by legally qualified candidates, their authorized spokespersons or those associated with them in the campaign, on other such candidates, their authorized spokespersons or persons associated with the candidates in the campaign; and

(4) Bona fide newscasts, bona fide news interviews, and on-the-spot coverage of bona fide news events (including commentary or analysis contained in the foregoing programs, but, the provisions of paragraph (b) of this section shall be applicable to editorials of the cable television system operator).

(d) Where a cable television system operator, in an editorial, (1) endorses or (2) opposes a legally qualified candidate or candidates, the system operator shall, within 24 hours of the editorial, transmit to respectively (i) the other qualified candidate or candidates for the same office, or (ii) the candidate opposed in the editorial, (*a*) notification of the date, time, and channel of the editorial; (*b*) a script or tape of the editorial; and (*c*) an offer of a reasonable opportunity for a candidate or a spokesman of the candidate to respond over the system's facilities: *Provided, however,* That where such editorials are cablecast within 72 hours prior to the day of the election, the system operator shall comply with the provisions of this paragraph sufficiently far in advance of the broadcast to enable the candidate or candidates to have a reasonable opportunity to prepare a response and to present it in a timely fashion.

[37 FR 3278, Feb. 12, 1972, as amended at 42 FR 19347, Apr. 13, 1977; 44 FR 45956, Aug. 6, 1979]

§ 76.213 Lotteries.

(a) No cable television system operator, except as in paragraph (c), when engaged in origination cablecasting shall transmit or permit to be transmitted on the origination cablecasting channel or channels any advertisement of or information concerning any lottery, gift, enterprise, or similar scheme, offering prizes dependent in whole or in part upon lot or chance, or any list of prizes drawn or awarded by means of any such lottery, gift enterprise, or scheme, whether said list contains any part or all of such prizes.

(b) The determination whether a particular program comes within the provisions of paragraph (a) of this section depends on the facts of each case. However, the Commission will in any event consider that a program comes within the provisions of paragraph (a) of this section if in connection with such program a prize consisting of money or thing of value is awarded to any person whose selection is dependent in whole or in part upon lot or chance, if as a condition of winning or competing for such prize, such winner or winners are required to furnish any money or thing of value or are required to have in their possession any product sold, manufactured, furnished, or distributed by a sponsor of a program cablecast on the system in question.

(c) The provisions of paragraphs (a) and (b) of this section shall not apply to advertisements or lists of prizes or information concerning:

(1) A lottery conducted by a State acting under authority of State law which is transmitted:

(i) By a cable system located in that State;

(ii) By a cable system located in another State which conducts such a lottery; or

(iii) By a cable system located in another State which is integrated with a cable system described in paragraphs (c)(1)(i) or (c)(1)(ii) of this section, if termination of the receipt of such transmission by the cable systems in such other State would be technically infeasible.

(2) Any gaming conducted by an Indian Tribe pursuant to the Indian Gaming Regulatory Act. (25 U.S.C. 2701 *et seq.*).

(3) A lottery, gift enterprise or similar scheme, other than one described in paragraph (c)(1) of this section, that is authorized or not otherwise prohibited by the State in which it is conducted and which is:

(i) Conducted by a not-for-profit organization or a governmental organization; or

(ii) Conducted as a promotional activity by a commercial organization and is clearly occasional and ancillary to the primary business of that organization.

(d) For the purposes of paragraph (c) *lottery* means the pooling of proceeds derived from the sale of tickets or chances and allotting those proceeds or parts thereof by chance to one or more chance takers or ticket purchasers. It does not include the placing or accepting of bets or wagers on sporting events or contests.

(e) For purposes of paragraph (c)(3)(i) of this section, the term ''not-for-profit organization'' means any organization that would qualify as tax exempt under section 501 of the Internal Revenue Code of 1986.

[37 FR 3278, Feb. 12, 1972, as amended at 40 FR 6210, Feb. 10, 1975; 42 FR 13947, Apr. 13, 1977; 54 FR 20856, May 15, 1989; 55 FR 18888, May 7, 1990]

§ 76.221 Sponsorship identification; list retention; related requirements.

(a) When a cable television system operator engaged in origination cablecasting presents any matter for which money, service, or other valuable consideration is either directly or indirectly paid or promised to, or charged or accepted by such cable television system operator, the cable television system operator, at the time of the cablecast, shall announce that such matter is sponsored, paid for, or furnished, either in whole or in part, and by whom or on whose behalf such consideration was supplied: *Provided, however,* That ''service or other valuable consideration'' shall not include any service or property furnished either without or at a nominal charge for use on, or in connection with, a cablecast unless it is so furnished in consideration for an identification of any person, product, service, trademark, or brand name beyond an identification reasonably related to the use of such service or property on the cablecast. For the purposes of this section, the term ''sponsored'' shall be deemed to have the same meaning as ''paid for.'' In the case of any political advertisement cablecast under this paragraph that concerns candidates for public office, the sponsor shall be identified with letters equal to or greater than four percent of the vertical picture height that air for not less than four seconds.

(b) Each cable television system operator engaged in origination cablecasting shall exercise reasonable diligence to obtain from employees, and from other persons with whom the system operator deals directly in connection with any matter for cablecasting, information to enable such system operator to make the announcement required by this section.

(c) In the case of any political origination cablecast matter or any origination cablecast matter involving the discussion of public controversial issues for which any film, record, transcription, talent, script, or other material or service of any kind is furnished, either directly or indirectly, to a cable television system operator as an inducement for cablecasting such matter, an announcement shall be made both at the beginning and conclusion of such cablecast on which such material or service is used that such film, record, transcription, talent, script, or other material or service has been furnished to such cable television system operator in connection with the transmission of such cablecast matter: *Provided, however,* That in the case of any cablecast of 5 minutes' duration or less, only one such announcement need be made either at the beginning or conclusion of the cablecast.

(d) The announcement required by this section shall, in addition to stating the fact that the origination cablecasting matter was sponsored, paid for or furnished, fully and fairly disclose the true identity of the person or persons, or corporation, committee, association or other unincorporated group, or other entity by whom or on whose behalf such payment is made or promised, or from whom or on whose behalf such services or other valuable consideration is received, or by whom the material or services referred to in paragraph (c) of this section are furnished. Where an agent or other person or entity contracts or otherwise makes arrangements with a cable television system operator on behalf of another, and such fact is known or by the exercise of reasonable diligence, as specified in paragraph (b) of this section, could be known to the system operator, the announcement shall disclose the identity of the person or persons or entity on whose behalf such agent is acting instead of the name of such agent. Where the origination cablecasting material is political matter or matter involving the discussion of a controversial issue of public importance and a corporation, committee, association or other unincorporated group, or other entity is paying for or furnishing the matter, the system operator shall, in addition to making the announcement required by this section, require that a list of the chief executive officers or members of the executive committee or of the board of directors of the corporation, committee, association or other unincorporated group, or other entity shall be made available for public inspection at the local office of the system. Such lists shall be kept and made available for a period of two years.

(e) In the case of origination cablecast matter advertising commercial products or services, an announcement stating the sponsor's corporate or trade name, or the name of the sponsor's product, when it is clear that the mention of the name of the product constitutes a sponsorship identification, shall be deemed sufficient for the purposes of this section and only one such announcement need be made at any time during the course of the cablecast.

(f) The announcement otherwise required by this section is waived with respect to the origination cablecast or ''want ad'' or classified advertisements sponsored by an individual. The waiver granted in this paragraph shall not extend to a classified advertisement or want and sponsorship by any form of business enterprise, corporate or otherwise. Whenever sponsorship announcements are omitted pursuant to this paragraph, the cable television system operator shall observe the following conditions:

(1) Maintain a list showing the name, address, and (where available) the telephone number of each advertiser;

(2) Make this list available to members of the public who have a legitimate interest in obtaining the information contained in the list.

(g) The announcements required by this section are waived with respect to feature motion picture film produced

initially and primarily for theatre exhibition.

NOTE: The waiver heretofore granted by the Commission in its Report and Order, adopted November 16, 1960 (FCC 60–1369; 40 F.C.C. 95), continues to apply to programs filmed or recorded on or before June 20, 1963, when § 73.654(e), the predecessor television rule, went into effect.

(h) Commission interpretations in connection with the provisions of the sponsorship identification rules for the broadcasting services are contained in the Commission's Public Notice, entitled ''Applicability of Sponsorship Indentification Rules,'' dated May 6, 1963 (40 F.C.C. 141), as modified by Public Notice, dated April 21, 1975 (FCC 75–418). Further interpretations are printed in full in various volumes of the Federal Communications Commission Reports. The interpretations made for the broadcasting services are equally applicable to origination cablecasting.

[39 FR 18401, Apr. 28, 1974, as amended at 42 FR 19348, Apr. 13, 1977; 42 FR 23510, May 9, 1977; 57 FR 212, Jan. 3, 1992; 57 FR 8279, Mar. 9, 1992]

§ 76.225 Commercial limits in children's programs.

(a) No cable operator shall air more than 10.5 minutes of commercial matter per hour during children's programming on weekends, or more than 12 minutes of commercial matter per hour on weekdays.

(b) This rule shall not apply to programs aired on a broadcast television channel which the cable operator passively carries, or to access channels over which the cable operator may not exercise editorial control, pursuant to 47 U.S.C. 531(e) and 532(c)(2).

(c) Cable operators must maintain records sufficient to verify compliance with this rule and make such records available to the public. Such records must be retained for a period sufficient to cover the limitations period specified in 47 U.S.C. 503(b)(6)(B).

NOTE 1: *Commercial matter* means air time sold for purposes of selling a product or service.

NOTE 2: For purposes of this section, children's programming refers to programs originally produced and broadcast primarily for an audience of children 12 years old and younger.

[56 FR 19616, Apr. 29, 1991]

§ 76.227 Blocking of indecent sexually-oriented programming channels.

(a) In providing sexually explicit adult programming or other programming that is indecent on any channel of its service primarily dedicated to sexually-oriented programming, a multichannel video programming distributor shall fully scramble or otherwise fully block the video and audio portion of such channel so that one not a subscriber to such channel or programming does not receive it.

(b) Until a multichannel video programming distributor complies with the requirement set forth in paragraph (a) of this section, the multichannel video programming distributor shall not provide the programming referred to in paragraph (a) of this section between the hours of 6 a.m. and 10 p.m.

(c) Scramble means to rearrange the content of the signal of the programming so that the programming cannot be viewed or heard in an understandable manner.

(d) Sexually explicit adult programming or other programming that is indecent means any programming that describes or depicts sexual or excretory activities or organs in a patently offensive manner as measured by contemporary community standards for the cable or other multichannel video programming distribution medium.

[61 FR 9650, Mar. 11, 1996]

Subpart H—General Operating Requirements

§ 76.300 Scope of application.

(a) The provisions of §§ 76.302, 76.306, and 76.307 are applicable to all cable television systems.

(b) The provisions of §§ 76.301 and 76.305 are not applicable to any cable television system serving fewer than 1,000 subscribers.

(Secs. 2, 3, 4, 5, 301, 303, 307, 308, 309, 315, 317, 48 Stat., as amended, 1064, 1065, 1066, 1068,

1081, 1082, 1083, 1084, 1085, 1088, 1089; (47 U.S.C. 152, 153, 154, 155, 301, 303, 307, 308, 309, 315, 317))

[42 FR 19349, Apr. 13, 1977, as amended at 43 FR 20235, May 11, 1978; 58 FR 17364, Apr. 2, 1993]

§ 76.301 Copies of rules.

The operator of a cable television system shall have a current copy of Part 76 and, if subject to the Emergency Alert System (EAS) rules contained in Part 11 of this chapter, an EAS Operating Handbook, and is expected to be familiar with the rules governing cable television systems and the EAS. Copies of the Commission's Rules may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402, at nominal cost. Copies of the EAS Operating Handbook may be obtained from the Commission's EAS staff, in Washington, DC.

[59 FR 67103, Dec. 28, 1994]

§ 76.302 Required recordkeeping for must-carry purposes.

(a) Effective June 17, 1993, the operator of every cable television system shall maintain for public inspection a file containing a list of all broadcast television stations carried by its system in fulfillment of the must-carry requirements pursuant to § 76.56. Such list shall include the call sign, community of license, broadcast channel number, cable channel number, and in the case of a noncommercial educational broadcast station, whether that station was carried by the cable system on March 29, 1990.

(b) The operator of every cable television system shall maintain for public inspection the designation and location of its principal headend.

(c) Such records must be maintained in accordance with the provisions of § 76.305(b).

(d) Upon written request from any person, a cable operator is required to provide the list of signals specified in paragraph (a) of this section in writing within 30 days of receipt of such request.

[58 FR 17364, Apr. 2, 1993]

§ 76.305 Records to be maintained locally by cable system operators for public inspection.

(a) *Records to be maintained.* The operator of every cable television system having 1,000 or more subscribers shall maintain for public inspection a file containing a copy of all records which are required to be kept by § 76.207 (political file); 76.221(f) (sponsorship identifications); 76.79 (EEO records available for public inspection); 76.225(c) (commerical records for children's programming); 76.601(c) (proof-of-performance test data); 76.601(e) (signal leakage logs and repair records) and § 76.701(h)(records for leased access).

(1) A record shall be kept of each test and activation of the Emergency Alert System (EAS) procedures pursuant to the requirement of part 11 of this chapter and the EAS Operating Handbook. These records shall be kept for three years.

(2) [Reserved]

(b) *Location of records.* The public inspection file shall be maintained at the office which the system operator maintains for the ordinary collection of subscriber charges, resolution of subscriber complaints, and other business or at any accessible place in the community served by the system unit(s) (such as a public registry for documents or an attorney's office). The public inspection file shall be available for public inspection at any time during regular business hours.

(c) The records specified in paragraph (a) of this section shall be retained for the period specified in §§ 76.207, 76.221(f), 76.79, 76.225(c), 76.601(c), and 76.601(e), respectively.

(d) *Reproduction of records.* Copies of any material in the public inspection file shall be available for machine reproduction upon request made in person, provided the requesting party shall pay the reasonable cost of reproduction. Requests for machine copies shall be fulfilled at a location specified by the system operator, within a reasonable period of time, which in no event shall be longer than seven days. The system operator is not required to honor requests made by mail but may do so if it chooses.

(Secs. 2, 3, 4, 5, 301, 303, 307, 308, 309, 315, 317, 48 Stat., as amended, 1064, 1065, 1066, 1068,

1081, 1082, 1083, 1084, 1085, 1088, 1089; (47 U.S.C. 152, 153, 154, 155, 301, 303, 307, 308, 309, 315, 317))

[39 FR 29186, Aug. 14, 1974, as amended at 40 FR 25024, June 12, 1975; 42 FR 19349, Apr. 13, 1977; 51 FR 26251, July 22, 1986; 56 FR 19617, Apr. 29, 1991; 57 FR 11001, Apr. 1, 1992; 58 FR 7993, Feb. 11, 1993; 59 FR 67103, Dec. 28, 1994]

§ 76.307 System inspection.

The operator of a cable television system shall make the system, its public inspection file (if required by § 76.305), and its records of subscribers available for inspection upon request by any authorized representative of the Commission at any reasonable hour.

[42 FR 19349, Apr. 13, 1977]

§ 76.309 Customer service obligations.

(a) A cable franchise authority may enforce the customer service standards set forth in paragraph (c) of this section against cable operators. The franchise authority must provide affected cable operators ninety (90) days written notice of its intent to enforce the standards.

(b) Nothing in this rule should be construed to prevent or prohibit:

(1) A franchising authority and a cable operator from agreeing to customer service requirements that exceed the standards set forth in paragraph (c) of this section;

(2) A franchising authority from enforcing, through the end of the franchise term, pre-existing customer service requirements that exceed the standards set forth in paragraph (c) of this section and are contained in current franchise agreements;

(3) Any State or any franchising authority from enacting or enforcing any consumer protection law, to the extent not specifically preempted herein; or

(4) The establishment or enforcement of any State or municipal law or regulation concerning customer service that imposes customer service requirements that exceed, or address matters not addressed by the standards set forth in paragraph (c) of this section.

(c) Effective July 1, 1993, a cable operator shall be subject to the following customer service standards:

(1) Cable system office hours and telephone availability—

(i) The cable operator will maintain a local, toll-free or collect call telephone access line which will be available to its subscribers 24 hours a day, seven days a week.

(A) Trained company representatives will be available to respond to customer telephone inquiries during normal business hours.

(B) After normal business hours, the access line may be answered by a service or an automated response system, including an answering machine. Inquiries received after normal business hours must be responded to by a trained company representative on the next business day.

(ii) Under normal operating conditions, telephone answer time by a customer representative, including wait time, shall not exceed thirty (30) seconds when the connection is made. If the call needs to be transferred, transfer time shall not exceed thirty (30) seconds. These standards shall be met no less than ninety (90) percent of the time under normal operating conditions, measured on a quarterly basis.

(iii) The operator will not be required to acquire equipment or perform surveys to measure compliance with the telephone answering standards above unless an historical record of complaints indicates a clear failure to comply.

(iv) Under normal operating conditions, the customer will receive a busy signal less than three (3) percent of the time.

(v) Customer service center and bill payment locations will be open at least during normal business hours and will be conveniently located.

(2) Installations, outages and service calls. Under normal operating conditions, each of the following four standards will be met no less than ninety five (95) percent of the time measured on a quarterly basis:

(i) Standard installations will be performed within seven (7) business days after an order has been placed. ''Standard'' installations are those that are located up to 125 feet from the existing distribution system.

(ii) Excluding conditions beyond the control of the operator, the cable operator will begin working on ''service interruptions'' promptly and in no event later than 24 hours after the interruption becomes known. The cable

operator must begin actions to correct other service problems the next business day after notification of the service problem.

(iii) The ''appointment window'' alternatives for installations, service calls, and other installation activities will be either a specific time or, at maximum, a four-hour time block during normal business hours. (The operator may schedule service calls and other installation activities outside of normal business hours for the express convenience of the customer.)

(iv) An operator may not cancel an appointment with a customer after the close of business on the business day prior to the scheduled appointment.

(v) If a cable operator representative is running late for an appointment with a customer and will not be able to keep the appointment as scheduled, the customer will be contacted. The appointment will be rescheduled, as necessary, at a time which is convenient for the customer.

(3) Communications between cable operators and cable subscribers—

(i) Notifications to subscribers—

(A) The cable operator shall provide written information on each of the following areas at the time of installation of service, at least annually to all subscribers, and at any time upon request:

(1) Products and services offered;

(2) Prices and options for programming services and conditions of subscription to programming and other services;

(3) Installation and service maintenance policies;

(4) Instructions on how to use the cable service;

(5) Channel positions programming carried on the system; and,

(6) Billing and complaint procedures, including the address and telephone number of the local franchise authority's cable office.

(B) Customers will be notified of any changes in rates, programming services or channel positions as soon as possible in writing. Notice must be given to subscribers a minimum of thirty (30) days in advance of such changes if the change is within the control of the cable operator. In addition, the cable operator shall notify subscribers thirty (30) days in advance of any significant changes in the other information required by paragraph (c)(3)(i)(A) of this section. Notwithstanding any other provision of Part 76, a cable operator shall not be required to provide prior notice of any rate change that is the result of a regulatory fee, franchise fee, or any other fee, tax, assessment, or charge of any kind imposed by any Federal agency, State, or franchising authority on the transaction between the operator and the subscriber.

(ii) Billing—

(A) Bills will be clear, concise and understandable. Bills must be fully itemized, with itemizations including, but not limited to, basic and premium service charges and equipment charges. Bills will also clearly delineate all activity during the billing period, including optional charges, rebates and credits.

(B) In case of a billing dispute, the cable operator must respond to a written complaint from a subscriber within 30 days.

(iii) Refunds—Refund checks will be issued promptly, but no later than either—

(A) The customer's next billing cycle following resolution of the request or thirty (30) days, whichever is earlier, or

(B) The return of the equipment supplied by the cable operator if service is terminated.

(iv) Credits—Credits for service will be issued no later than the customer's next billing cycle following the determination that a credit is warranted.

(4) Definitions—

(i) *Normal business hours*—The term ''normal business hours'' means those hours during which most similar businesses in the community are open to serve customers. In all cases, ''normal business hours'' must include some evening hours at least one night per week and/or some weekend hours.

(ii) *Normal operating conditions*—The term ''normal operating conditions'' means those service conditions which are within the control of the cable operator. Those conditions which are *not* within the control of the cable operator include, but are not limited to, natural disasters, civil disturbances, power outages, telephone network outages, and severe or unusual weather conditions. Those conditions which *are*

ordinarily within the control of the cable operator include, but are not limited to, special promotions, pay-per-view events, rate increases, regular peak or seasonal demand periods, and maintenance or upgrade of the cable system.

(iii) *Service interruption*—The term ''service interruption'' means the loss of picture or sound on one or more cable channels.

[58 FR 21109, Apr. 19, 1993, as amended at 61 FR 18977, Apr. 30, 1996]

Subpart I—Forms and Reports

§ 76.400 Operator, mail address, and operational status changes.

Within 30 days following a change of Cable Television System Operator, and/or change of the operator's mail address, and/or change in the operational status of a cable television system, the Operator shall inform the Commission in writing of the following, as appropriate;

(a) The legal name of the operator and whether the operator is an individual, private association, partnership or corporation. See § 76.5(cc). If the operator is a partnership, the legal name of the partner responsible for communications with the Commisson shall be supplied;

(b) The assumed name (if any) used for doing business in each community;

(c) The new mail address, including zip code, to which all communications are to be directed;

(d) The nature of the operational status change (e.g., became operational on (year) (month), exceeded 49 subscribers, exceeded 499 subscribers, operation terminated temporarily, operation terminated permanently);

(e) The names and FCC identifiers (e.g., CA0001) of the system communities affected.

NOTE: FCC system community identifiers are routinely assigned upon registration. They have been assigned to all reported system communities based on previous Form 325 data. If a system community in operation prior to March 31, 1972, has not previously been assigned a system community identifier, the operator shall provide the following information in lieu of the identifier: Community Name, Community Type (i.e., incorporated town, unincorporated settlement, etc.) County Name, State, Operator Legal Name, Operator Assumed Name for Doing Business in the community, Operator Mail Address, and Year and Month service was first provided by the physical system.

[42 FR 20134, Apr. 18, 1977, as amended at 43 FR 49009, Oct. 20, 1978; 54 FR 41843, Oct. 12, 1989]

§ 76.403 Cable television system reports.

The operator of every operational cable television system shall correct and/or furnish information in response to forms, encompassing each community unit, mailed to said operator by the Commission. These include:

Community unit data—''Annual Report of Cable Television System,'' Form 325, Schedule 1

Physical system data—''Annual Report of Cable Television System,'' Form 325, Schedule 2

Operator ownership data—''Annual Report of Cable Television,'' Form 325, Schedules 3 and 4

These forms shall be completed and returned to the Commission within 60 days after the date of mailing by the Commission.

NOTE: The operator of a cable television system having fewer than 1000 subscribers shall only be required to file Schedules 1 and 2 of Form 325 for each community unit.

[50 FR 40857, Oct. 7, 1985]

Subpart J—Ownership of Cable Systems

§ 76.501 Cross-ownership.

(a) No cable television system (including all parties under common control) shall carry the signal of any television broadcast station if such system directly or indirectly owns, operates, controls, or has an interest in a TV broadcast station whose predicted Grade B contour, computed in accordance with § 73.684 of part 73 of this chapter, overlaps in whole or in part the service area of such system (i.e., the area within which the system is serving subscribers).

(b) [Reserved]

(c) *Effective date.* The provisions of paragraph (a) of this section are not effective until November 8, 1987, as to ownership interests proscribed herein if

such interests were in existence on or before July 1, 1970 (e.g., if franchise were in existence on or before July 1970), and will be applied to cause divestiture as to ownership interests proscribed herein only where the cable system is directly or indirectly, owned, operated, controlled by, or has an interest in a non-satellite television broadcast station which places a principal community contour encompassing the entire community and there is no other commercial non-satellite television broadcast station placing a principal community contour encompassing the entire community.

(d) No cable operator shall offer satellite master antenna television service (''SMATV''), as that service is defined in § 76.5(a)(2), separate and apart from any franchised cable service in any portion of the franchise area served by that cable operator's cable system, either directly or indirectly through an affiliate owned, operated, controlled, or under common control with the cable operator.

(e)(1) A cable operator may directly or indirectly, through an affiliate owned, operated, controlled by, or under common control with the cable operator, offer SMATV service within its franchise area if the cable operator's SMATV system was owned, operated, controlled by or under common control with the cable operator as of October 5, 1992.

(2) A cable operator may directly or indirectly, through an affiliate owned, operated, controlled by, or under common control with the cable operator, offer service within its franchise area through SMATV facilities, provided such service is offered in accordance with the terms and conditions of a cable franchise agreement.

(f) The restrictions in paragraphs (d) and (e) of this section shall not apply to any cable operator in any franchise area in which a cable operator is subject to effective competition as determined under section 623(l) of the Communications Act.

NOTE 1: The word ''control'' as used herein is not limited to majority stock ownership, but includes actual working control in whatever manner exercised.

NOTE 2: In applying the provisions of this section, ownership and other interests in broadcast licensees and cable television systems will be attributed to their holders and deemed cognizable pursuant to the following criteria:

(a) Except as otherwise provided herein, partnership and direct ownership interest and any voting stock interest amounting to 5% or more of the outstanding voting stock of a corporate broadcast licensee or cable television system will be cognizable;

(b) No minority voting stock interest will be cognizable if there is a single holder of more than 50% of the outstanding voting stock of the corporate broadcast licensee or cable television system in which the minority interest is held;

(c) Investment companies, as defined in 15 U.S.C. 80a–3, insurance companies and banks holding stock through their trust departments in trust accounts will be considered to have a cognizable interest only if they hold 10% or more of the outstanding voting stock of a corporate broadcast licensee or cable television system, or if any of the officers or directors of the broadcast licensee or cable television system are representatives of the investment company, insurance company or bank concerned. Holdings by a bank or insurance company will be aggregated if the bank or insurance company has any right to determine how the stock will be voted. Holdings by investment companies will be aggregated if under common management.

(d) Attribution of ownership interests in a broadcast licensee or cable television system that are held indirectly by any party through one or more intervening corporations will be determined by successive multiplication of the ownership percentages for each link in the vertical ownership chain and application of the relevant attribution benchmark to the resulting product, except that wherever the ownership percentage for any link in the chain exceeds 50%, it shall not be included for purposes of this multiplication. [For example, if A owns 10% of company X, which owns 60% of company Y, which owns 25% of ''Licensee'', then X's interest in ''Licensee'' would be 25% (the same as Y's interest since X's interest in Y exceeds 50%), and A's interest in ''Licensee'' would be 2.5% (0.1×0.25). Under the 5% attribution benchmark, X's interest in ''Licensee'' would be cognizable, while A's interest would not be cognizable.]

(e) Voting stock interests held in trust shall be attributed to any person who holds or shares the power to vote such stock, to any person who has the sole power to sell such stock, and to any person who has the right to revoke the trust at will or to replace the trustee at will. If the trustee has a familial, personal or extra-trust business relationship to the grantor or the beneficiary, the grantor or beneficiary, as appropriate, will be attributed with the stock interests held in

trust. An otherwise qualified trust will be ineffective to insulate the grantor or beneficiary from attribution with the trust's assets unless all voting stock interests held by the grantor or beneficiary in the relevant broadcast licensee or cable television system are subject to said trust.

(f) Holders of non-voting stock shall not be attributed an interest in the issuing entity. Holders of debt and instruments such as warrants, convertible debentures, options or other non-voting interests with rights of conversion to voting interests shall not be attributed unless and until conversion is effected.

(g) (1) A limited partnership interest shall be attributed to a limited partner unless that partner is not materially involved, directly or indirectly, in the management or operation of the media-related activities of the partnership and the licensee or system so certifies.

(2) In order for a licensee or system to make the certification set forth in paragraph (g)(1) of this note, it must verify that the partnership agreement or certificate of limited partnership, with respect to the particular limited partner exempt from attribution, establishes that the exempt limited partner has not material involvement, directly or indirectly, in the management or operation of the media activities of the partnership. The criteria which would assure adequate insulation for purposes of this certification are described in the Memorandum Opinion and Order in MM Docket No. 83–46, FCC 85–252 (released June 24, 1985) as modified on reconsideration in the Memorandum Opinion and Order in MM Docket No. 83–46, FCC 86–410 (released November 28, 1986). Irrespective of the terms of the certificate of limited partnership or partnership agreement, however, no such certification shall be made if the individual or entity making the certification has actual knowledge of any material involvement of the limited partners in the management or operation of the media-related businesses of the partnership.

(h) Officers and directors of a broadcast licensee or cable television system are considered to have a cognizable interest in the entity with which they are so associated. If any such entity engages in businesses in addition to its primary business of broadcasting or cable television service, it may request the Commission to waive attribution for any officer or director whose duties and responsibilities are wholly unrelated to its primary business. The officers and directors of a parent company of a broadcast licensee or cable television system, with an attributable interest in any such subsidiary entity, shall be deemed to have a cognizable interest in the subsidiary unless the duties and responsibilities of the officer or director involved are wholly unrelated to the broadcast licensee or cable television system subsidiary, and a statement properly documenting this fact is submitted to the Commission. [This statement may be included on appropriate Ownership Report.] The officers and directors of a sister corporation of a broadcast licensee or cable television system shall not be attributed with ownership of these entities by virtue of such status.

(i) Discrete ownership interests will be aggregated in determining whether or not an interest is cognizable under this section. An individual or entity will be deemed to have a cognizable investment if:

(1) The sum of the interests held by or through ''passive investors'' is equal to or exceeds 10 percent; or

(2) The sum of the interests other than those held by or through ''passive investors'' is equal to or exceeds 5 percent; or

(3) The sum of the interests computed under paragraph (i)(1) of this note plus the sum of the interests computed under paragraph (i)(2) of this note is equal to or exceeds 10 percent.

NOTE 3: In cases where record and beneficial ownership of voting stock is not identical (e.g., bank nominees holding stock as record owners for the benefit of mutual funds, brokerage houses holding stock in street names for benefit of customers, investment advisors holding stock in their own names for the benefit of clients, and insurance companies holding stock), the party having the right to determine how the stock will be voted will be considered to own it for purposes of this subpart.

NOTE 4: Paragraph (a) of this section will not be applied so as to require the divestiture of ownership interests proscribed herein solely because of the transfer of such interests to heirs or legatees by will or intestacy, provided that the degree or extent of the proscribed cross-ownership is not increased by such transfer.

NOTE 5: In applying the provisions of paragraphs (d) and (e) of this section, control and an attributable ownership interest shall be defined by reference to the definitions contained in Notes 1 through 4, provided however, that:

(a) The single majority shareholder provisions of Note 2(b) and the limited partner insulation provisions of Note 2(g) shall not apply; and

(b) The provisions of Note 2(a) regarding five (5) percent interests shall include all voting or nonvoting stock or limited partnership equity interests of five (5) percent or more.

[58 FR 27677, May 11, 1993, as amended at 60 FR 37834, July 24, 1995; 61 FR 15388, Apr. 8, 1996]

§ 76.502 Time limits applicable to franchise authority consideration of transfer applications.

(a) A franchise authority shall have 120 days from the date of submission of a completed FCC Form 394, together with all exhibits, and any additional information required by the terms of the franchise agreement or applicable state or local law to act upon an application to sell, assign, or otherwise transfer controlling ownership of a cable system.

(b) A franchise authority that questions the accuracy of the information provided under paragraph (a) must notify the cable operator within 30 days of the filing of such information, or such information shall be deemed accepted, unless the cable operator has failed to provide any additional information reasonably requested by the franchise authority within 10 days of such request.

(c) If the franchise authority fails to act upon such transfer request within 120 days, such request shall be deemed granted unless the franchise authority and the requesting party otherwise agree to an extension of time.

[61 FR 15388, Apr. 8, 1996]

§ 76.503 National subscriber limits.

(a) Except as set forth in paragraph (b) of this section no person or entity shall be permitted to reach more than 30 percent of all homes passed nationwide through cable systems owned by such person or entity or in which such person or entity holds an attributable interest.

(b) Ownership of cable systems reaching up to 35 percent of all homes passed nationwide shall be permitted provided the additional cable systems, beyond 30 percent of homes passed nationwide, are cable systems, beyond 30 percent of homes passed nationwide, are minority-controlled.

(c) Prior to acquiring additional cable systems any person or entity holding an attributable interest in cable systems reaching 20 percent, or more, of homes passed nationwide must certify to the Commission that no violation of the national subscriber limits prescribed in this section will occur as a result of such acquisition.

(d) *Minority-controlled* means more than 50 percent owned by one or more members of a minority group.

(e) *Minority* means Black, Hispanic, American Indian, Alaska Native, Asian and Pacific Islander.

(f) *Attributable interest* shall be defined by reference to the criteria set forth in the Notes to § 76.501.

[58 FR 60141, Nov. 15, 1993]

EFFECTIVE DATE NOTE: At 58 FR 60141, Nov. 15, 1993, § 76.503 was added. The Federal Communications Commission will publish a notice of the effective date in the FEDERAL REGISTER at a later date.

§ 76.504 Limits on carriage of vertically integrated programming.

(a) Except as otherwise provided in this section no cable operator shall devote more than 40 percent of its activated channels to the carriage of national video programming services owned by the cable operator or in which the cable operator has an attributable interest.

(b) The channel occupancy limits set forth in paragraph (a) of this section shall apply only to channel capacity up to 75 channels.

(c) A cable operator may devote two additional channels or up to 45 percent of its channel capacity, whichever is greater, to the carriage of video programming services owned by the cable operator or in which the cable operator has an attributable interest provided such video programming services are minority-controlled.

(d) Cable operators carrying video programming services owned by the cable operator or in which the cable operator holds an attributable interest in excess of limits set forth in paragraph (a) of this section as of December 4, 1992, shall not be precluded by the restrictions in this section.

(e) Cable operators are required to maintain records in their public file for a period of three years regarding the nature and extent of their attributable interests in all video programming services as well as information regarding their carriage of such vertically integrated video programming services on cable systems in which they also have an attributable interest. These records must be made available to

local franchise authorities, the Commission, or members of the public on reasonable notice and during regular business hours.

(f) *Minority-controlled* means more than 50 percent owned by one or more members of a minority group.

(g) *Minority* means Black, Hispanic, American Indian, Alaska Native, Asian and Pacific Islander.

(h) *Attributable interest* shall be defined by reference to the criteria set forth in the Notes to § 76.501.

[58 FR 60141, Nov. 15, 1993]

§ 76.505 Prohibition on buy outs.

(a) No local exchange carrier or any affiliate of such carrier owned by, operated by, controlled by, or under common control with such carrier may purchase or otherwise acquire directly or indirectly more than a 10 percent financial interest, or any management interest, in any cable operator providing cable service within the local exchange carrier's telephone service area.

(b) No cable operator or affiliate of a cable operator that is owned by, operated by, controlled by, or under common ownership with such cable operator may purchase or otherwise acquire, directly or indirectly, more than a 10 percent financial interest, or any management interest, in any local exchange carrier providing telephone exchange service within such cable operator's franchise area.

(c) A local exchange carrier and a cable operator whose telephone service area and cable franchise area, respectively, are in the same market may not enter into any joint venture or partnership to provide video programming directly to subscribers or to provide telecommunications services within such market.

(d) Exceptions:

(1) Notwithstanding paragraphs (a), (b), and (c) of this section, a local exchange carrier (with respect to a cable system located in its telephone service area) and a cable operator (with respect to the facilities of a local exchange carrier used to provide telephone exchange service in its cable franchise area) may obtain a controlling interest in, management interest in, or enter into a joint venture or partnership with the operator of such system or facilities for the use of such system or facilities to the extent that:

(i) Such system or facilities only serve incorporated or unincorporated :

(A) Places or territories that have fewer than 35,000 inhabitants; and

(B) Are outside an urbanized area, as defined by the Bureau of the Census; and

(ii) In the case of a local exchange carrier, such system, in the aggregate with any other system in which such carrier has an interest, serves less than 10 percent of the households in the telephone service area of such carrier.

(2) Notwithstanding paragraph (c) of this section, a local exchange carrier may obtain, with the concurrence of the cable operator on the rates, terms, and conditions, the use of that part of the transmission facilities of a cable system extending from the last multiuser terminal to the premises of the end user, if such use is reasonably limited in scope and duration, as determined by the Commission.

(3) Notwithstanding paragraphs (a) and (c) of this section, a local exchange carrier may obtain a controlling interest in, or form a joint venture or other partnership with, or provide financing to, a cable system (hereinafter in this paragraph referred to as ''the subject cable system'') if:

(i) The subject cable system operates in a television market that is not in the top 25 markets, and such market has more than 1 cable system operator, and the subject cable system is not the cable system with the most subscribers in such television market;

(ii) The subject cable system and the cable system with the most subscribers in such television market held on May 1, 1995, cable television franchises from the largest municipality in the television market and the boundaries of such franchises were identical on such date;

(iii) The subject cable system is not owned by or under common ownership or control of any one of the 50 cable system operators with the most subscribers as such operators existed on May 1, 1995; and

(iv) The system with the most subscribers in the television market is owned by or under common ownership or control of any one of the 10 largest

cable system operators as such operators existed on May 1, 1995.

(4) Paragraph (a) of this section does not apply to any cable system if:

(i) The cable system serves no more than 17,000 cable subscribers, of which no less than 8,000 live within an urban area, and no less than 6,000 live within a nonurbanized area as of June 1, 1995;

(ii) The cable system is not owned by, or under common ownership or control with, any of the 50 largest cable system operators in existence on June 1, 1995; and

(iii) The cable system operates in a television market that was not in the top 100 television markets as of June 1, 1995.

(5) Notwithstanding paragraphs (a) and (c) of this section, a local exchange carrier with less than $100,000,000 in annual operating revenues (or any affiliate of such carrier owned by, operated by, controlled by, or under common control with such carrier) may purchase or otherwise acquire more than a 10 percent financial interest in, or any management interest in, or enter into a joint venture or partnership with, any cable system within the local exchange carrier's telephone service area that serves no more than 20,000 cable subscribers, if no more than 12,000 of those subscribers live within an urbanized area, as defined by the Bureau of the Census.

(6) The Commission may waive the restrictions of paragraphs (a), (b), or (c) of this section only if:

(i) The Commission determines that, because of the nature of the market served by the affected cable system or facilities used to provide telephone exchange service:

(A) The affected cable operator or local exchange carrier would be subjected to undue economic distress by the enforcement of such provisions;

(B) The system or facilities would not be economically viable if such provisions were enforced; or

(C) The anticompetitive effects of the proposed transaction are clearly outweighed in the public interest by the probable effect of the transaction in meeting the convenience and needs of the community to be served; and

(ii) The local franchising authority approves of such waiver.

(e) For purposes of this section, the term ''telephone service area'' when used in connection with a common carrier subject in whole or in part to title II of the Communications Act means the area within which such carrier provided telephone exchange service as of January 1, 1993, but if any common carrier after such date transfers its telephone exchange service facilities to another common carrier, the area to which such facilities provide telephone exchange service shall be treated as part of the telephone service area of the acquiring common carrier and not of the selling common carrier.

[61 FR 18977, Apr. 30, 1996]

Subpart K—Technical Standards

§76.601 Performance tests.

(a) The operator of each cable television system shall be responsible for insuring that each such system is designed, installed, and operated in a manner that fully complies with the provisions of this subpart. Each system operator shall be prepared to show, on request by an authorized representative of the Commission or the local franchiser, that the system does, in fact, comply with the rules.

(b) The operator of each cable television system shall maintain at its local office a current listing of the cable television channels which that system delivers to its subscribers.

(c) The operator of each cable television system shall conduct complete performance tests of that system at least twice each calendar year (at intervals not to exceed seven months), unless otherwise noted below, and shall maintain the resulting test data on file at the operator's local business office for at least five (5) years. The test data shall be made available for inspection by the Commission or the local franchiser, upon request. The performance tests shall be directed at determining the extent to which the system complies with all the technical standards set forth in §76.605(a) and shall be as follows:

(1) For cable television systems with 1000 or more subscribers but with 12,500 or fewer subscribers, proof-of-performance tests conducted pursuant to this

section shall include measurements taken at six (6) widely separated points. However, within each cable system, one additional test point shall be added for every additional 12,500 subscribers or fraction thereof (*e.g.*, 7 test points if 12,501 to 25,000 subscribers; 8 test points if 25,001 to 37,500 subscribers, *etc.*). In addition, for technically integrated portions of cable systems that are not mechanically continuous (*i.e.*, employing microwave connections), at least one test point will be required for each portion of the cable system served by a technically integrated microwave hub. The proof-of-performance test points chosen shall be balanced to represent all geographic areas served by the cable system. At least one-third of the test points shall be representative of subscriber terminals most distant from the system input and from each microwave receiver (if microwave transmissions are employed), in terms of cable length. The measurements may be taken at convenient monitoring points in the cable network: Provided, that data shall be included to relate the measured performance of the system as would be viewed from a nearby subscriber terminal. An identification of the instruments, including the makes, model numbers, and the most recent date of calibration, a description of the procedures utilized, and a statement of the qualifications of the person performing the tests shall also be included.

(2) Proof-of-performance tests to determine the extent to which a cable television system complies with the standards set forth in § 76.605(a) (3), (4), and (5) shall be made on each of the NTSC or similar video channels of that system. Unless otherwise as noted, proof-of-performance tests for all other standards in § 76.605(a) shall be made on a minimum of four (4) channels plus one additional channel for every 100 MHz, or fraction thereof, of cable distribution system upper frequency limit (*e.g.*, 5 channels for cable television systems with a cable distribution system upper frequency limit of 101 to 216 MHz; 6 channels for cable television systems with a cable distribution system upper frequency limit of 217–300 MHz; 7 channels for cable television systems with a cable distribution upper frequency limit to 300 to 400 MHz, *etc.*). The channels selected for testing must be representative of all the channels within the cable television system.

(3) The operator of each cable television system shall conduct semi-annual proof-of-performance tests of that system, to determine the extent to which the system complies with the technical standards set forth in § 76.605(a)(4) as follows. The visual signal level on each channel shall be measured and recorded, along with the date and time of the measurement, once every six hours (at intervals of not less than five hours or no more than seven hours after the previous measurement), to include the warmest and the coldest times, during a 24-hour period in January or February and in July or August.

(4) The operator of each cable television system shall conduct triennial proof-of-performance tests of its system to determine the extent to which the system complies with the technical standards set forth in § 76.605(a)(11).

(d) Successful completion of the performance tests required by paragraph (c) of this section does not relieve the system of the obligation to comply with all pertinent technical standards at all subscriber terminals. Additional tests, repeat tests, or tests involving specified subscriber terminals may be required by the Commission of the local franchiser to secure compliance with the technical standards.

(e) The provisions of paragraphs (c) and (d) of this section shall not apply to any cable television system having fewer than 1,000 subscribers: Provided, however, that any cable television system using any frequency spectrum other than that allocated to over-the-air television and FM broadcasting (as described in § 73.603 and § 73.210 of this chapter) is required to conduct all tests, measurements and monitoring of signal leakage that are required by this subpart. A cable television system operator complying with the monitoring, logging and the leakage repair requirements of § 76.614, shall be considered to have met the requirements of this paragraph. However, the leakage log, shall be retained for five years rather

than the two years prescribed in § 76.614.

NOTE: Prior to requiring any additional testing pursuant to § 76.601(d), the local franchising authority shall notify the cable operator who will be allowed thirty days to come into compliance with any perceived signal quality problems which need to be corrected. The Commission may request cable operators to test their systems at any time.

[57 FR 11001, Apr. 1, 1992, as amended at 57 FR 61010, Dec. 23, 1992]

§ 76.605 Technical standards.

(a) As of December 30, 1992, unless otherwise noted, the following requirements apply to the performance of a cable television system as measured at any subscriber terminal with a matched impedance at the termination point or at the output of the modulating or processing equipment (generally the headend) of the cable television system or otherwise as noted. The requirements are applicable to each NTSC or similar video downstream cable television channel in the system:

(1)(i) The cable television channels delivered to the subscriber's terminal shall be capable of being received and displayed by TV broadcast receivers used for off-the-air reception of TV broadcast signals, as authorized under part 73 of this chapter; and

(ii) Cable television systems shall transmit signals to subscriber premises equipment on frequencies in accordance with the channel allocation plan set forth in the Electronics Industries Association's ''Cable Television Channel Identification Plan, EIA IS–132, May 1994'' (EIA IS–132). This incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 522(a) and 1 CFR Part 51. Cable systems are required to use this channel allocation plan for signals transmitted in the frequency range 54 MHz to 1002 MHz. This incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 522(a) and 1 CFR Part 51. Copies of EIA IS–132 may be obtained from: Global Engineering Documents, 2805 McGraw Ave., Irvine CA 92714. Copies of EIA IS–132 may be inspected during normal business hours at the following locations: Federal Communications Commission, 1919 M Street, NW, Dockets Branch (Room 239), Washington, DC, or the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC. This requirement is applicable on May 31, 1995, for new and re-built cable systems, and on June 30, 1997, for all cable systems.

(2) The aural center frequency of the aural carrier must be 4.5 MHz ± 5 kHz above the frequency of the visual carrier at the output of the modulating or processing equipment of a cable television system, and at the subscriber terminal.

(3) The visual signal level, across a terminating impedance which correctly matches the internal impedance of the cable system as viewed from the subscriber terminal, shall not be less than 1 millivolt across an internal impedance of 75 ohms (0 dBmV). Additionally, as measured at the end of a 30 meter (100 foot) cable drop that is connected to the subscriber tap, it shall not be less than 1.41 millivolts across an internal impedance of 75 ohms (+3 dBmV). (At other impedance values, the minimum visual signal level, as viewed from the subscriber terminal, shall be the square root of 0.0133 (Z) millivolts and, as measured at the end of a 30 meter (100 foot) cable drop that is connected to the subscriber tap, shall be 2 times the square root of 0.00662(Z) millivolts, where Z is the appropriate impedance value.)

(4) The visual signal level on each channel, as measured at the end of a 30 meter cable drop that is connected to the subscriber tap, shall not vary more than 8 decibels within any six-month interval, which must include four tests performed in six-hour increments during a 24-hour period in July or August and during a 24-hour period in January or February, and shall be maintained within:

(i) 3 decibels (dB) of the visual signal level of any visual carrier within a 6 MHz nominal frequency separation;

(ii) 10 dB of the visual signal level on any other channel on a cable television system of up to 300 MHz of cable distribution system upper frequency limit, with a 1 dB increase for each additional 100 MHz of cable distribution system upper frequency limit (*e.g.*, 11

dB for a system at 301–400 MHz; 12 dB for a system at 401–500 MHz, *etc.*); and

(iii) A maximum level such that signal degradation due to overload in the subscriber's receiver or terminal does not occur.

(5) The rms voltage of the aural signal shall be maintained between 10 and 17 decibels below the associated visual signal level. This requirement must be met both at the subscriber terminal and at the output of the modulating and processing equipment (generally the headend). For subscriber terminals that use equipment which modulate and remodulate the signal (*e.g.*, baseband converters), the rms voltage of the aural signal shall be maintained between 6.5 and 17 decibels below the associated visual signal level at the subscriber terminal.

(6) The amplitude characteristic shall be within a range of ±2 decibels from 0.75 MHz to 5.0 MHz above the lower boundary frequency of the cable television channel, referenced to the average of the highest and lowest amplitudes within these frequency boundaries.

(i) Prior to December 30, 1999, the amplitude characteristic may be measured after a subscriber tap and before a converter that is provided and maintained by the cable operator.

(ii) As of December 30, 1999, the amplitude characteristic shall be measured at the subscriber terminal.

(7) The ratio of RF visual signal level to system noise shall be as follows:

(i) From June 30, 1992, to June 30, 1993, shall not be less than 36 decibels.

(ii) From June 30, 1993 to June 30, 1995, shall not be less than 40 decibels.

(iii) As of June 30, 1995, shall not be less then 43 decibels.

(iv) For class I cable television channels, the requirements of paragraphs (a)(7)(i), (a)(7)(ii) and (a)(7)(iii) of this section are applicable only to:

(A) Each signal which is delivered by a cable television system to subscribers within the predicted Grade B contour for that signal;

(B) Each signal which is first picked up within its predicted Grade B contour;

(C) Each signal that is first received by the cable television system by direct video feed from a TV broadcast station, a low power TV station, or a TV translator station.

(8) The ratio of visual signal level to the rms amplitude of any coherent disturbances such as intermodulation products, second and third order distortions or discrete-frequency interfering signals not operating on proper offset assignments shall be as follows:

(i) The ratio of visual signal level to coherent disturbances shall not be less than 51 decibels for noncoherent channel cable television systems, when measured with modulated carriers and time averaged; and

(ii) The ratio of visual signal level to coherent disturbances which are frequency-coincident with the visual carrier shall not be less than 47 decibels for coherent channel cable systems, when measured with modulated carriers and time averaged.

(9) The terminal isolation provided to each subscriber terminal:

(i) Shall not be less than 18 decibels. In lieu of periodic testing, the cable operator may use specifications provided by the manufacturer for the terminal isolation equipment to meet this standard; and

(ii) Shall be sufficient to prevent reflections caused by open-circuited or short-circuited subscriber terminals from producing visible picture impairments at any other subscriber terminal.

(10) The peak-to-peak variation in visual signal level caused by undesired low frequency disturbances (hum or repetitive transients) generated within the system, or by inadequate low frequency response, shall not exceed 3 percent of the visual signal level. Measurements made on a single channel using a single unmodulated carrier may be used to demonstrate compliance with this parameter at each test location.

(11) As of June 30, 1995, the following requirements apply to the performance of the cable television system as measured at the output of the modulating or processing equipment (generally the headend) of the system:

(i) The chrominance-luminance delay inequality (or chroma delay), which is

the change in delay time of the chrominance component of the signal relative to the luminance component, shall be within 170 nanoseconds.

(ii) The differential gain for the color subcarrier of the television signal, which is measured as the difference in amplitude between the largest and smallest segments of the chrominance signal (divided by the largest and expressed in percent), shall not exceed ±20%.

(iii) The differential phase for the color subcarrier of the television signal which is measured as the largest phase difference in degrees between each segment of the chrominance signal and reference segment (the segment at the blanking level of O IRE), shall not exceed ±10 degrees.

(12) As an exception to the general provision requiring measurements to be made at subscriber terminals, and without regard to the type of signals carried by the cable television system, signal leakage from a cable television system shall be measured in accordance with the procedures outlined in § 76.609(h) and shall be limited as follows:

Frequencies	Signal leakage limit (micro-volt/meter)	Distance in meters (m)
Less than and including 54 MHz, and over 216 MHz	15	30
Over 54 up to and including 216 MHz	20	3

(b) Cable television systems distributing signals by using methods such as nonconventional coaxial cable techniques, noncoaxial copper cable techniques, specialized coaxial cable and fiber optical cable hybridization techniques or specialized compression techniques or specialized receiving devices, and which, because of their basic design, cannot comply with one or more of the technical standards set forth in paragraph (a) of this section, may be permitted to operate: Provided, That an adequate showing is made pursuant to § 76.7 which establishes that the public interest is benefited. In such instances, the Commission may prescribe special technical requirements to ensure that subscribers to such systems are provided with an equivalent level of good quality service.

NOTE 1: Local franchising authorities of systems serving fewer than 1000 subscribers may adopt standards less stringent than those in § 76.605(a). Any such agreement shall be reduced to writing and be associated with the system's proof-of-performance records.

NOTE 2: For systems serving rural areas as defined in § 76.5, the system may negotiate with its local franchising authority for standards less stringent than those in §§ 76.605(a)(3), 76.605(a)(7), 76.605(a)(8), 76.605(a)(10) and 76.605(a)(11). Any such agreement shall be reduced to writing and be associated with the system's proof-of-performance records.

NOTE 3: The requirements of this section shall not apply to devices subject to the provisions of §§ 15.601 through 15.626.

NOTE 4: Should subscriber complaints arise from a system failing to meet § 76.605(a)(6) prior to December 30, 1999, the cable operator will be required to provide a converter that will allow the system to meet the standard immediately at the complaining subscriber's terminal. Further, should the problem be found to be system-wide, the Commission may order all converters on the system be changed to meet the standard.

NOTE 5: Should subscriber complaints arise from a system failing to meet § 76.605(a)(10), the cable operator will be required to remedy the complaint and perform test measurements on § 76.605(a)(10) containing the full number of channels as indicated in § 76.601(c)(2) at the complaining subscriber's terminal. Further, should the problem be found to be system-wide, the Commission may order that the full number of channels as indicated in § 76.601(c)(2) be tested at all required locations for future proof-of-performance tests.

NOTE 6: No State or franchising authority may prohibit, condition, or restrict a cable system's use of any type of subscriber equipment or any transmission technology.

[37 FR 3278, Feb. 12, 1972, as amended at 37 FR 13867, July 14, 1972; 40 FR 2690, Jan. 15, 1975; 40 FR 3296, Jan. 21, 1975; 41 FR 53028, Dec. 3, 1976; 42 FR 21782, Apr. 29, 1977; 47 FR 21503, May 18, 1982; 50 FR 52466, Dec. 24, 1985; 51 FR 1255, Jan. 10, 1986; 52 FR 22461, June 12, 1987; 57 FR 11002, Apr. 1, 1992; 57 FR 61010, Dec. 23, 1992; 58 FR 44952, Aug. 25, 1993; 59 FR 25342, May 16, 1994; 61 FR 18510, Apr. 26, 1996; 61 FR 18978, Apr. 30, 1996]

§ 76.606 Closed captioning.

(a) As of June 30, 1992, the operator of each cable television system shall not take any action to remove or alter closed captioning data contained on line 21 of the vertical blanking interval.

(b) As of July 1, 1993, the operator of each cable television system shall deliver intact closed captioning data contained on line 21 of the vertical blanking interval, as it arrives at the headend or from another origination source, to subscriber terminals and (when so delivered to the cable system) in a format that can be recovered and displayed by decoders meeting § 15.119 of this chapter.

[57 FR 11003, Apr. 1, 1992]

§ 76.607 Resolution of complaints.

Cable system operators shall establish a process for resolving complaints from subscribers about the quality of the television signal delivered. These records shall be maintained for at least a one-year period. Aggregate data based upon these complaints shall be made available for inspection by the Commission and franchising authorities, upon request. Subscribers shall be advised, at least once each calendar year, of the procedures for resolution of complaints by the cable system operator, including the address of the responsible officer of the local franchising authority.

NOTE: Prior to being referred to the Commission, complaints from subscribers about the quality of the television signal delivered must be referred to the local franchising authority and the cable system operator.

[57 FR 61011, Dec. 23, 1992]

§ 76.609 Measurements.

(a) Measurements made to demonstrate conformity with the performance requirements set forth in §§ 76.601 and 76.605 shall be made under conditions which reflect system performance during normal operations, including the effect of any microwave relay operated in the Cable Television Relay (CARS) Service intervening between pickup antenna and the cable distribution network. Amplifiers shall be operated at normal gains, either by the insertion of appropriate signals or by manual adjustment. Special signals inserted in a cable television channel for measurement purposes should be operated at levels approximating those used for normal operation. Pilot tones, auxiliary or substitute signals, and nontelevision signals normally carried on the cable television system should be operated at normal levels to the extent possible. Some exemplary, but not mandatory, measurement procedures are set forth in this section.

(b) When it may be necessary to remove the television signal normally carried on a cable television channel in order to facilitate a performance measurement, it will be permissible to disconnect the antenna which serves the channel under measurement and to substitute therefor a matching resistance termination. Other antennas and inputs should remain connected and normal signal levels should be maintained on other channels.

(c) As may be necessary to ensure satisfactory service to a subscriber, the Commission may require additional tests to demonstrate system performance or may specify the use of different test procedures.

(d) The frequency response of a cable television channel may be determined by one of the following methods, as appropriate:

(1) By using a swept frequency or a manually variable signal generator at the sending end and a calibrated attenuator and frequency-selective voltmeter at the subscriber terminal; or

(2) By using either a multiburst generator or vertical interval test signals and either a modulator or processor at the sending end, and by using either a demodulator and either an oscilloscope display or a waveform monitor display at the subscriber terminal.

(e) System noise may be measured using a frequency-selective voltmeter (field strength meter) which has been suitably calibrated to indicate rms noise or average power level and which has a known bandwidth. With the system operating at normal level and with a properly matched resistive termination substituted for the antenna, noise power indications at the subscriber terminal are taken in successive increments of frequency equal to the bandwidth of the frequency-selective voltmeter, summing the power indications to obtain the total noise power present over a 4 MHz band centered within the cable television channel. If it is established that the noise

level is constant within this bandwidth, a single measurement may be taken which is corrected by an appropriate factor representing the ratio of 4 MHz to the noise bandwidth of the frequency-selective voltmeter. If an amplifier is inserted between the frequency-selective voltmeter and the subscriber terminal in order to facilitate this measurement, it should have a bandwidth of at least 4 MHz and appropriate corrections must be made to account for its gain and noise figure. Alternatively, measurements made in accordance with the NCTA Recommended Practices for Measurements on Cable Television Systems, 2nd edition, November 1989, on noise measurement may be employed.

(f) The amplitude of discrete frequency interfering signals within a cable television channel may be determined with either a spectrum analyzer or with a frequency-selective voltmeter (field strength meter), which instruments have been calibrated for adequate accuracy. If calibration accuracy is in doubt, measurements may be referenced to a calibrated signal generator, or a calibrated variable attenuator, substituted at the point of measurement. If an amplifier is used between the subscriber terminal and the measuring instrument, appropriate corrections must be made to account for its gain.

(g) The terminal isolation between any two terminals in the cable television system may be measured by applying a signal of known amplitude to one terminal and measuring the amplitude of that signal at the other terminal. The frequency of the signal should be close to the midfrequency of the channel being tested. Measurements of terminal isolation are not required when either:

(1) The manufacturer's specifications for subscriber tap isolation based on a representative sample of no less than 500 subscribers taps or

(2) Laboratory tests performed by or for the operator of a cable television system on a representative sample of no less than 50 subscriber taps, indicates that the terminal isolation standard of § 76.605(a)(9) is met.

To demonstrate compliance with § 76.605(a)(9), the operator of a cable television system shall attach either such manufacturer's specifications or laboratory measurements as an exhibit to each proof-of-performance record.

(h) Measurements to determine the field strength of the signal leakage emanated by the cable television system shall be made in accordance with standard engineering procedures. Measurements made on frequencies above 25 MHz shall include the following:

(1) A field strength meter of adequate accuracy using a horizontal dipole antenna shall be employed.

(2) Field strength shall be expressed in terms of the rms value of synchronizing peak for each cable television channel for which signal leakage can be measured.

(3) The resonant half wave dipole antenna shall be placed 3 meters from and positioned directly below the system components and at 3 meters above ground. Where such placement results in a separation of less than 3 meters between the center of the dipole antenna and the system components, or less than 3 meters between the dipole and ground level, the dipole shall be repositioned to provide a separation of 3 meters from the system components at a height of 3 meters or more above ground.

(4) The horizontal dipole antenna shall be rotated about a vertical axis and the maximum meter reading shall be used.

(5) Measurements shall be made where other conductors are 3 or more meters (10 or more feet) away from the measuring antenna.

(i) For systems using cable traps and filters to control the delivery of specific channels to the subscriber terminal, measurements made to determine compliance with § 76.605(a) (5) and (6) may be performed at the location immediately prior to the trap or filter for the specific channel. The effects of these traps or filters, as certified by the system engineer or the equipment manufacturer, must be attached to each proof-of-performance record.

(j) Measurements made to determine the differential gain, differential phase and the chrominance-luminance delay inequality (chroma delay) shall be made in accordance with the NCTA

Recommended Practices for Measurements on Cable Television Systems, 2nd edition, November 1989, on these parameters.

[37 FR 3278, Feb. 12, 1972, as amended at 37 FR 13867, July 14, 1972; 41 FR 10067, Mar. 9, 1976; 42 FR 21782, Apr. 29, 1977; 49 FR 45441, Nov. 16, 1984; 57 FR 11004, Apr. 1, 1992; 57 FR 61011, Dec. 23, 1992; 58 FR 44952, Aug. 25, 1993]

§ 76.610 Operation in the frequency bands 108–137 and 225–400 MHz—Scope of application.

The provisions of §§ 76.611 (effective July 1, 1990), 76.612, 76.613, 76.614 and 76.615 are applicable to all cable television systems transmitting carriers or other signal components carried at an average power level equal to or greater than 10^{-4} watts across a 25 kHz bandwidth in any 160 microsecond period, at any point in the cable distribution system in the frequency bands 108–137 and 225–400 MHz for any purpose. For grandfathered systems, refer to §§ 76.618 and 76.619.

NOTE 1: See the provisions of § 76.616 for cable operation near certain aeronautical and marine emergency radio frequencies.

NOTE 2: Until January 1, 1990, the band 136–137 MHz is allocated as an alternative allocation to the space operation, meteorological-satellite service and the space research service on a primary basis. After January 1, 1990, the space service will become secondary to aeronautical mobile service radio. Until January 1, 1990, the band 136 to 137 MHz is excluded from the rule sections regarding protection of aeronautical frequencies.

[50 FR 29399, July 19, 1985]

§ 76.611 Cable television basic signal leakage performance criteria.

(a) No cable television system shall commence or provide service in the frequency bands 108–137 and 225–400 MHz unless such systems is in compliance with one of the following cable television basic signal leakage performance criteria:

(1) prior to carriage of signals in the aeronautical radio bands and at least once each calendar year, with no more than 12 months between successive tests thereafter, based on a sampling of at least 75% of the cable strand, and including any portion of the cable system which are known to have or can reasonably be expected to have less leakage integrity than the average of the system, the cable operator demonstrates compliance with a cumulative signal leakage index by showing either that (i) 10 log I_{3000} is equal to or less than −7 or (ii) 10 log I_{00} is equal to or less than 64, using one of the following formula:

$$I_{3000} = \frac{1}{\emptyset}\sum_{i=1}^{n}\frac{E_i^2}{R_i^2},$$

$$I_{\infty} = \frac{1}{\emptyset}\sum_{i=1}^{n}E_i^2,$$

where:

$$R_i^2 = r_i^2 + (3000)^2$$

r_i is the distance (in meters) between the leakage source and the center of the cable television system;

θ is the fraction of the system cable length actually examined for leakage sources and is equal to the strand kilometers (strand miles) of plant tested divided by the total strand kilometers (strand miles) in the plant;

R_i is the slant height distance (in meters) from leakage source i to a point 3000 meters above the center of the cable television system;

E_i is the electric field strength in microvolts per meter (μV/m) measured pursuant to § 76.609(h) 3 meters from the leak i; and

n is the number of leaks found of field strength equal to or greater than 50 μV/m pursuant to Section 76.609(h).

The sum is carried over all leaks i detected in the cable examined; or

(2) prior to carriage of signals in the aeronautical radio bands and at least once each calendar year, with no more than 12 months between successive tests thereafter, the cable operator demonstrates by measurement in the airspace that at no point does the field strength generated by the cable system exceed 10 microvolts per meter (μV/m) RMS at an altitude of 450 meters above the average terrain of the cable system. The measurement system (including the receiving antenna) shall be calibrated against a known field of 10 μV/m RMS produced by a well characterized antenna consisting of orthogonal reasonant dipoles, both parallel to and one quarter wavelength above the ground plane of a diameter of two meters or more at ground level. The dipoles shall have centers collocated

and be excited 90 degrees apart. The half-power bandwidth of the detector shall be 25 kHz. If an aeronautical receiver is used for this purpose it shall meet the standards of the Radio Technical Commission for Aeronautics (RCTA) for aeronautical communications receivers. The aircraft antenna shall be horizontally polarized. Calibration shall be made in the community unit or, if more than one, in any of the community units of the physical system within a reasonable time period to performing the measurements. If data is recorded digitally the 90th percentile level of points recorded over the cable system shall not exceed 10 μV/m RMS; if analog recordings is used the peak values of the curves, when smoothed according to good engineering practices, shall not exceed 10 μV/m RMS.

(b) In paragraphs (a)(1) and (a)(2) of this section the unmodulated test signal used on the cable plant shall: (1) Be within the VHF aeronautical band 108–137 MHz or any other frequency in which the results can be correlated to the VHF aeronautical band and (2) have an average power level equal to the average power level of the strongest cable television carrier on the system.

(c) In paragraph (a)(1) and (2) of this section, if a modulated test signal is used, the test signal and detector technique must, when considered together, yield the same result as though an unmodulated test signal were used in conjunction with a detection technique which would yield the RMS value of said unmodulated carrier.

(d) If a sampling of at least 75% of the cable strand (and including any portions of the cable system which are known to have or can reasonably be expected to have less leakage integrity than the average of the system) as described in paragraph (a)(1) cannot be obtained by the cable operator or is otherwise not reasonably feasible, the cable operator shall perform the airspace measurements described in paragraph (a)(2).

(e) Prior to providing service to any subscriber on a new section of cable plant, the operator shall show compliance with either: (1) The basic signal leakage criteria in accordance with paragraph (a)(1) or (a)(2) of this section for the entire plant in operation or (2) a showing shall be made indicating that no individual leak in the new section of the plant exceeds 20 μV/m at 3 meters in accordance with § 76.609 fo the Rules.

(f) Notwithstanding paragraph (a) of this section, a cable operator shall be permitted to operate on any frequency which is offset pursuant to § 76.612 in the frequency band 108–137 MHz for the purpose of demonstrating compliance with the cable television basic signal leakage performance criteria.

[50 FR 29399, July 19, 1985, as amended at 53 FR 2499, Jan. 28, 1988; 53 FR 5684, Feb. 25, 1988; 58 FR 44952, Aug. 25, 1993]

§ 76.612 Cable television frequency separation standards.

All cable television systems which operate in the frequency bands 108–137 and 225–400 MHz shall comply with the following frequency separation standards:

(a) In the aeronautical radiocommunication bands 118–137, 225–328.6 and 335.4–400 MHz, the frequency of all carrier signals or signal components carried at an average power level equal to or greater than 10^{-4} watts in a 25 kHz bandwidth in any 160 microsecond period must operate at frequencies offset from certain frequencies which may be used by aeronautical radio services operated by Commission licensees or by the United States Government or its Agencies. The aeronautical frequencies from which offsets must be maintained are those frequencies which are within one of the aeronautical bands defined in this subparagraph, and when expressed in MHz and divided by 0.025 yield an integer. The offset must meet one of the following two criteria:

(1) All such cable carriers or signal components shall be offset by 12.5 kHz with a frequency tolerance of ±5 kHz; or

(2) The fundamental frequency from which the visual carrier frequencies are derived by multiplication by an integer number which shall be 6.0003 MHz with a tolerance of ±1 Hz (Harmonically Related Carrier (HRC) comb generators only).

(b) In the aeronautical radionavigation bands 108–118 and 328.6–335.4 MHz, the frequency of all carrier signals or signal components carrier at an average power level equal to or greater than 10^{-4} watts in a 25 kHz bandwidth in any 160 microsecond period shall be offset by 25 kHz with a tolerance of ±5 kHz. The aeronautical radionavigation frequencies from which offsets must be maintained are defined as follows:

(1) Within the aeronautical band 108–118 MHz when expressed in MHz and divided by 0.025 yield an even integer.

(2) Within the band 328.6–335.4 MHz, the radionavigation glide path channels are listed in Section 87.501 of the Rules.

NOTE: The HRC system, as described above, will meet this requirement in the 328.6–335.4 MHz navigation glide path band. Those Incrementally Related Carriers (IRC) systems, with comb generator reference frequencies set at certain odd multiples equal to or greater than 3 times the 0.0125 MHz aeronautical communications band offset, e.g. (6n + 1.250 ± 0.0375) MHz, may also meet the 25 kHz offset requirement in the navigation glide path band.

[50 FR 29400, July 19, 1985]

§ 76.613 Interference from a cable television system.

(a) Harmful interference is any emission, radiation or induction which endangers the functioning of a radionavigation service or of other safety services or seriously degrades, obstructs or repeatedly interrupts a radiocommunication service operating in accordance with this chapter.

(b) The operator of a cable television system that causes harmful interference shall promptly take appropriate measures to eliminate the harmful interference.

(c) If harmful interference to radio communications involving the safety of life and protection of property cannot be promptly eliminated by the appliciation of suitable techniques, operation of the offending cable television system or appropriate elements thereof shall immediately be suspended upon notification by the Engineer in Charge (EIC) of the Commission's local field office, and shall not be resumed until the interference has been eliminated to the satisfaction of the EIC. When authorized by the EIC, short test operations may be made during the period of suspended operation to check the efficacy of remedial measures.

(d) The cable television system operator may be required by the EIC to prepare and submit a report regarding the cause(s) of the interference, corrective measures planned or taken, and the efficacy of the remedial measures.

(Secs. 1, (302); (82 Stat. 290); 47 U.S.C. 151, 302)

[42 FR 41296, Aug. 16, 1977]

§ 76.614 Cable television system regular monitoring.

Cable television operators transmitting carriers in the frequency bands 108–137 and 225–400 MHz shall provide for a program of regular monitoring for signal leakage by substantially covering the plant every three months. The incorporation of this monitoring program into the daily activities of existing service personnel in the discharge of their normal duties will generally cover all portions of the system and will therefore meet this requirement. Monitoring equipment and procedures utilized by a cable operator shall be adequate to detect a leakage source which produces a field strength in these bands of 20 μV/m or greater at a distance of 3 meters. During regular monitoring, any leakage source which produces a field strength of 20 μV/m or greater at a distance of 3 meters in the aeronautical radio frequency bands shall be noted and such leakage sources shall be repaired within a reasonable period of time. The operator shall maintain a log showing the date and location of each leakage source identified, the date on which the leakage was repaired, and the probable cause of the leakage. The log shall be kept on file for a period of two (2) years and shall be made available to authorized representatives of the Commission upon request.

[50 FR 29400, July 19, 1985]

§ 76.615 Notification requirements.

All cable television operators shall comply with each of the following notification requirements:

(a) The operator of the cable system shall notify the Commission annually of all signals carried in the aeronautical radio frequency bands, noting the

type of information carried by the signal (television picture, aural, pilot carrier, or system control, etc.) The timely filing of FCC Form 325, Schedule 2, will meet this requirement.

(b) The operator of a cable system shall notify the Commission before transmitting any carrier or other signal component with an average power level across a 25 kHz bandwidth in any 160 microsecond time period equal to or greater than 10^{-4} watts at any point in the cable distribution system on any new frequency or frequencies in the aeronautical radio frequency bands. Such notification shall include:

(1) Legal name and local address of the cable television operator;

(2) The names and FCC identifiers (e.g. CA0001) of the system communities affected;

(3) The names and telephone numbers of local system officials who are responsible for compliance with §§76.610, 76.611 (effective July 1, 1990), and 76.612 through 76.616 of the Rules;

(4) Carrier and subcarrier frequencies and tolerance, types of modulation and the maximum average power levels of all carriers and subcarriers occurring at any location in the cable distribution system.

(5) The geographical coordinates of a point near the center of the cable system, together with the distance (in kilometers) from the designated point to the most remote point of the cable plant, existing or planned, which defines a circle enclosing the entire cable plant;

(6) A description of the routine monitoring procedure to be used; and

(7) For cable operators subject to §76.611 (effective July 1, 1990), the cumulative signal leakage index derived under §76.611(a)(1) (effective July 1, 1990) or the results of airspace measurements derived under §76.611(a)(2) (effective July 1, 1990), including a description of the method by which compliance with basic signal leakage criteria is achieved and the method of calibrating the measurement equipment. This information shall be provided to the Commission prior to July 1, 1990 and each calendar year thereafter.

[50 FR 29400, July 19, 1985]

§76.616 Operation near certain aeronautical and marine emergency radio frequencies.

The transmission of carriers or other signal components capable of delivering peak power levels equal to or greater than 10^{-5} watts at any point in a cable television system is prohibited within 100 kHz of the frequency 121.5 MHz, and is prohibited withn 50 kHz of the two frequencies 156.8 MHz and 243.0 MHz.

[50 FR 29401, July 19, 1985]

§76.617 Responsibility for interference.

Interference resulting from the use of cable system terminal equipment (including subscriber terminal, input selector switch and any other accessories) shall be the responsibility of the cable system terminal equipment operator in accordance with the provisions of part 15 of this chapter: provided, however, that the operator of a cable system to which the cable system terminal equipment is connected shall be responsible for detecting and eliminating any signal leakage where that leakage would cause interference outside the subscriber's premises and/or would cause the cable system to exceed the Part 76 signal leakage requirements. In cases where excessive signal leakage occurs, the cable operator shall be required only to discontinue service to the subscriber until the problem is corrected.

[53 FR 46619, Nov. 18, 1989]

§76.618 Grandfathering.

Cable television systems are permitted to use aeronautical frequencies which were requested or granted for use by November 30, 1984, under Section 76.619 of the Rules until July 1, 1990.

[50 FR 29401, July 19, 1985]

§76.619 Grandfathered Operation in the frequency bands 108–136 and 225–400 MHz.

All cable television systems operating in a grandfathered status under §76.618 of the Rules and transmitting carriers or other signal components capable of delivering peak power equal to or greater than 10^{-5} watts at any point

in the cable system in the frequency bands 108–136 and 225–400 MHz for any purpose are subject to the following requirements:

(a) The operator of the cable system shall notify the Commission annually of all signals carried in these bands, noting the type of information carried by the signal (television, aural, or pilot carrier and system control, etc.). The timely filing of FCC Form 325, Schedule 2, will meet this requirement.

(b) The operator of the cable system shall notify the Commission of the proposed extension of the system radius in these bands. Notification shall include carrier and subcarrier frequencies, types of modulation, the previously notified geographical coordinates, the new system radius and the maximum peak power occurring at any location in the cable distribution system. No system shall extend its radius in these bands without prior Commission authorization.

(c) The operator of the cable system shall maintain at its local office a current listing of all signals carried in these bands, noting carrier and subcarrier frequencies, types of modulation, and maximum peak power which occurs at any location within the cable distribution system.

(d) The operator of the system shall provide for regular monitoring of the cable system for signal leakage covering all portions of the cable system at least once each calendar year. Monitoring equipment and procedures shall be adequate to detect leakage sources which produce field strengths in these bands of 20 microvolts per meter at a distance of 3 meters. The operator shall maintain a log showing the date and location of each leakage source identified, the date on which the leakage was eliminated, and the probable cause of the leakage. The log shall be kept on file for a period of two (2) years, and shall be made to authorized representatives of the Commission on request.

(e) All carrier signals or signal components capable of delivering peak power equal to or greater than 10^{-5} watts must be operated at frequencies offset from aeronautical radio services operated by Commission licensees or by the United States Government or its agencies within 111 km (60 nautical miles) of any portion of the cable system as given in paragraph (f) of this section. (The limit of 111 km may be increased by the Commission in cases of ''extended service volumes'' as defined by the Federal Aviation Administration or other federal government agency for low altitude radio navigation or communication services). If an operator of a cable system is notified by the Commission that a change in operation of an aeronautical radio service will place the cable system in conflict with any of the offset criteria, the cable system operator is responsible for eliminating such conflict within 30 days of notification.

(f) A minimum frequency offset between the nominal carrier frequency of an aeronautical radio service qualifying under paragraph (d) of this Section and the nominal frequency of any cable system carrier or signal component capable of delivering peak power equal to or greater than 10^{-5} watts shall be maintained or exceeded at all times. The minimum frequency offsets are as follows:

Frequencies	Minimun frequency offsets
108–118 MHz	(50+T) kHz.
328.6–335.4 MHz	
108–136 MHz	
225–328.6 MHz	(100+T) kHz.
335.4–400 MHz	

In this table, T is the absolute value of the frequency tolerance of the cable television signal. The actual frequency tolerance will depend on the equipment and operating procedures of the cable system, but in no case shall the frequency tolerance T exceed ±25 kHz in the bands 108–136 and 225–400 MHz.

[50 FR 29401, July 19, 1985]

§ 76.630 Compatibility with consumer electronics equipment.

(a) Cable system operators shall not scramble or otherwise encrypt signals carried on the basic service tier. Requests for waivers of this prohibition must demonstrate either a substantial problem with theft of basic tier service or a strong need to scramble basic signals for other reasons. As part of this showing, cable operators are required to notify subscribers by mail of waiver requests. The notice to subscribers

must be mailed no later than thirty calendar days from the date the request waiver was filed with the Commission, and cable operators must inform the Commission in writing, as soon as possible, of that notification date. The notification to subscribers must state:

On (date of waiver request was filed with the Commission), (cable operator's name) filed with the Federal Communications Commission a request for waiver of the rule prohibiting scrambling of channels on the basic tier of service. 47 CFR § 76.630(a). The request for waiver states (a brief summary of the waiver request). A copy of the request for waiver is on file for public inspection at (the address of the cable operator's local place of business).

Individuals who wish to comment on this request for waiver should mail comments to the Federal Communications Commission by no later than 30 days from (the date the notification was mailed to subscribers). Those comments should be addressed to the: Federal Communications Commission, Cable Services Bureau, Washington, DC 20554, and should include the name of the cable operator to whom the comments are applicable. Individuals should also send a copy of their comments to (the cable operator at its local place of business).

Cable operators may file comments in reply no later than 7 days from the date subscriber comments must be filed.

(b) Cable system operators that provide their subscribers with cable system terminal devices and other customer premises equipment that incorporates remote control capability shall permit the remote operation of such devices with commercially available remote control units or otherwise take no action that would prevent the devices from being operated by a commercially available remote control unit. Cable system operators are advised that this requirement obliges them to actively enable the remote control functions of customer premises equipment where those functions do not operate without a special activation procedure. Cable system operators may, however, disable the remote control functions of a subscriber's customer premises equipment where requested by the subscriber.

(c) Cable system operators that use scrambling, encryption or similar technologies in conjunction with cable system terminal devices, as defined in § 15.3(e) of this chapter, that may affect subscribers' reception of signals shall offer to supply each subscriber with special equipment that will enable the simultaneous reception of multiple signals. The equipment offered shall include a single terminal device with dual descramblers/decoders and/or timers and bypass switches. Other equipment, such as two independent set-top terminal devices may be offered at the same time that the single terminal device with dual tuners/descramblers is offered. For purposes of this rule, two set-top devices linked by a control system that provides functionality equivalent to that of a single device with dual descramblers is considered to be the same as a terminal device with dual descramblers/decoders.

(1) The offer of special equipment shall be made to new subscribers at the time they subscribe and to all subscribers at least once each year.

(2) Such special equipment shall, at a minimum, have the capability:

(i) To allow simultaneous reception of any two scrambled or encrypted signals and to provide for tuning to alternative channels on a pre-programmed schedule; and

(ii) To allow direct reception of all other signals that do not need to be processed through descrambling or decryption circuitry (this capability can generally be provided through a separate by-pass switch or through internal by-pass circuitry in a cable system terminal device).

(3) Cable system operators shall determine the specific equipment needed by individual subscribers on a case-by-case basis, in consultation with the subscriber. Cable system operators are required to make a good faith effort to provide subscribers with the amount and types of special equipment needed to resolve their individual compatibility problems.

(4) Cable operators shall provide such equipment at the request of individual subscribers and may charge for purchase or lease of the equipment and its installation in accordance with the provisions of the rate regulation rules for customer premises equipment used to receive the basic service tier, as set forth in § 76.923. Notwithstanding the

required annual offering, cable operators shall respond to subscriber requests for special equipment for reception of multiple signals that are made at any time.

(d) Cable system operators shall provide a consumer education program on compatibility matters to their subscribers in writing, as follows:

(1) The consumer information program shall be provided to subscribers at the time they first subscribe and at least once a year thereafter. Cable operators may choose the time and means by which they comply with the annual consumer information requirement. This requirement may be satisfied by a once-a-year mailing to all subscribers. The information may be included in one of the cable system's regular subscriber billings.

(2) The consumer information program shall include the following information:

(i) Cable system operators shall inform their subscribers that some models of TV receivers and videocassette recorders may not be able to receive all of the channels offered by the cable system when connected directly to the cable system. In conjunction with this information, cable system operators shall briefly explain, the types of channel compatibility problems that could occur if subscribers connected their equipment directly to the cable system and offer suggestions for resolving those problems. Such suggestions could include, for example, the use of a cable system terminal device such as a set-top channel converter. Cable system operators shall also indicate that channel compatibility problems associated with reception of programming that is not scrambled or encrypted programming could be resolved through use of simple converter devices without descrambling or decryption capabilities that can be obtained from either the cable system or a third party retail vendor.

(ii) In cases where service is received through a cable system terminal device, cable system operators shall indicate that subscribers may not be able to use special features and functions of their TV receivers and videocassette recorders, including features that allow the subscriber to: view a program on one channel while simultaneously recording a program on another channel; record two or more consecutive programs that appear on different channels; and, use advanced picture generation and display features such as ''Picture-in-Picture,'' channel review and other functions that necessitate channel selection by the consumer device.

(iii) In cases where cable system operators offer remote control capability with cable system terminal devices and other customer premises equipment that is provided to subscribers, they shall advise their subscribers that remote control units that are compatible with that equipment may be obtained from other sources, such as retail outlets. Cable system operators shall also provide a representative list of the models of remote control units currently available from retailers that are compatible with the customer premises equipment they employ. Cable system operators are required to make a good faith effort in compiling this list and will not be liable for inadvertent omissions. This list shall be current as of no more than six months before the date the consumer education program is distributed to subscribers. Cable operators are also required to encourage subscribers to contact the cable operator to inquire about whether a particular remote control unit the subscriber might be considering for purchase would be compatible with the subscriber's customer premises equipment.

NOTE: § 76.630: The provisions of paragraphs (a) and (b) of this section are applicable July 31, 1994, and June 30, 1994, respectively. The provisions of paragraphs (c) and (d) of this section are applicable October 31, 1994, except for the requirement under paragraph (c) of this section for cable system operators to supply cable system terminal devices with dual tuners (as needed), which is applicable October 31, 1995. The initial offer of special equipment to all subscribers, as required under paragraph (c) of this section, shall be made by October 31, 1994.

[59 FR 25342, May 16, 1994, as amended at 61 FR 18510, Apr. 26, 1996]

Subpart L—Cable Television Access

§76.701 Leased access channels.

(a) Notwithstanding 47 U.S.C. 532(b)(2) (Communications Act of 1934, as amended, section 612), a cable operator, in accordance with 47 U.S.C. 532(h) (Cable Consumer Protection and Competition Act of 1992, section 10(a)), may adopt and enforce prospectively a written and published policy of prohibiting programming which, it reasonably believes, describes or depicts sexual or excretory activities or organs in a patently offensive manner as measured by contemporary community standards.

(b) A cable operator may refuse to transmit any leased access program or portion of a leased access program that the operator reasonably believes contains obscenity, indecency or nudity.

[62 FR 28373, May 23, 1997]

EFFECTIVE DATE NOTE: At 62 FR 28373, May 23, 1997, §76.701 was revised. This section contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

§76.702 Public access.

A cable operator may refuse to transmit any public access program or portion of a public access program that the operator reasonably believes contains obscenity.

[62 FR 28373, May 23, 1997]

EFFECTIVE DATE NOTE: At 62 FR 28373, May 23, 1997, §76.702 was revised. This section contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

Subpart M—Cable Home Wiring

§76.801 Scope.

The provisions of this subpart set forth rules and regulations for the disposition, after a subscriber voluntarily terminates cable service, of that cable home wiring installed by the cable system operator or its contractor within the premises of the subscriber. The provisions do not apply where the cable home wiring belongs to the subscriber, such as where the operator has transferred ownership to the subscriber, the operator has been treating the wiring as belonging to the subscriber for tax purposes, or the wiring is considered to be a fixture by state or local law in the subscriber's jurisdiction. Nothing in this subpart shall affect the cable system operator's rights and responsibilities under §76.617 to prevent excessive signal leakage while providing cable service, or the cable operator's right to access the subscriber's property or premises.

[58 FR 11971, Mar. 2, 1993]

§76.802 Disposition of cable home wiring.

(a) Upon voluntary termination of cable service by a subscriber, a cable operator shall not remove the cable home wiring unless it gives the subscriber the opportunity to purchase the wiring at the replacement cost, and the subscriber declines. The cost is to be determined based on the replacement cost per foot of the cable home wiring multiplied by the length in feet of the cable home wiring, and the replacement cost of any passive splitters located on the subscriber's side of the demarcation point. If the subscriber declines to acquire the cable home wiring, the cable system operator must then remove it within seven (7) business days, under normal operating conditions, or make no subsequent attempt to remove it or to restrict its use.

(b) During the initial telephone call in which a subscriber contacts a cable operator to voluntarily terminate cable service, the cable operator—if it owns and intends to remove the home wiring—must inform the subscriber:

(1) That the cable operator owns the home wiring;

(2) That the cable operator intends to remove the home wiring;

(3) That the subscriber has the right to purchase the home wiring; and

(4) What the per-foot replacement cost and total charge for the wiring would be (the total charge may be based on either the actual length of cable wiring and the actual number of passive splitters on the customer's side of the demarcation point, or a reasonable approximation thereof; in either event, the information necessary for

calculating the total charge must be available for use during the initial phone call).

(c) If the subscriber voluntarily terminates cable service in person, the procedures set forth in paragraph (b) of this section apply.

(d) If the subscriber requests termination of cable service in writing, it is the operator's responsibility—if it wishes to remove the wiring—to make reasonable efforts to contact the subscriber prior to the date of service termination and follow the procedures set forth in paragraph (b) of this section.

(e) If the cable operator fails to adhere to the procedures described in paragraph (b) of this section, it will be deemed to have relinquished immediately any and all ownership interests in the home wiring; thus, the operator will not be entitled to compensation for the wiring and shall make no subsequent attempt to remove it or restrict its use.

(f) If the cable operator adheres to the procedures described in paragraph (b) of this section, and, at that point, the subscriber agrees to purchase the wiring, constructive ownership over the home wiring will transfer to the subscriber immediately, and the subscriber will be permitted to authorize a competing service provider to connect with and use the home wiring.

(g) If the cable operator adheres to the procedures described in paragraph (b) of this section, and the subscriber asks for more time to make a decision regarding whether to purchase the home wiring, the seven (7) business day period described in paragraph (b) of this section will not begin running until the subscriber declines to purchase the wiring; in addition, the subscriber may not use the wiring to connect to an alternative service provider until the subscriber notifies the operator whether or not the subscriber wishes to purchase the wiring.

(h) If an alternative video programming service provider connects its wiring to the home wiring before the incumbent cable operator has terminated service and has capped off its line to prevent signal leakage, the alternative video programming service provider shall be responsible for ensuring that the incumbent's wiring is properly capped off in accordance with the Commission's signal leakage requirements. See Subpart K (technical standards) of the Commission's Cable Television Service rules (47 CFR 76.605(a)(13) and 76.610 through 76.617).

(i) Where the subscriber terminates cable service but will not be using the home wiring to receive another alternative video programming service, the cable operator shall properly cap off its own line in accordance with the Commission's signal leakage requirements. See Subpart K (technical standards) of the Commission's Cable Television Service rules (47 CFR 76.605(a)(13) and 76.610 through 76.617).

(j) Cable operators are prohibited from using any ownership interests they may have in property located on the subscriber's side of the demarcation point, such as molding or conduit, to prevent, impede, or in any way interfere with, a subscriber's right to use his or her home wiring to receive an alternative service. In addition, incumbent cable operators must take reasonable steps within their control to ensure that an alternative service provider has access to the home wiring at the demarcation point. Cable operators and alternative multichannel video programming delivery service providers are required to minimize the potential for signal leakage in accordance with the guidelines set forth in 47 CFR 76.605(a)(13) and 76.610 through 76.617, theft of service and unnecessary disruption of the consumer's premises.

(k) Definitions—Normal operating conditions—The term ''normal operating conditions'' shall have the same meaning as at 47 CFR 76.309(c)(4)(ii).

[61 FR 6137, Feb. 16, 1996]

EFFECTIVE DATE NOTE: At 61 FR 6137, Feb. 16, 1996, § 76.802 was revised. This section contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

Subpart N—Cable Rate Regulation

SOURCE: 58 FR 29753, May 21, 1993, unless otherwise noted.

EFFECTIVE DATE NOTE: The effective date of the amendments to part 76, published at 58 FR 29737 (May 21, 1993), extended to October 1, 1993, by an order published at 58 FR 33560

(June 18, 1993), and moved to September 1, 1993, by an order published at 58 FR 41042 (August 2, 1993), is temporarily stayed for those cable systems that have 1,000 or fewer subscribers. This limited, temporary stay is effective September 1, 1993, and will remain in effect until the Commission terminates the stay and establishes a new effective date in an order on reconsideration addressing the administrative burdens and costs of compliance for small cable systems. The Commission will publish in the FEDERAL REGISTER the new effective date of the rules with respect to small cable systems at that time.

§76.900 Temporary freeze of cable rates.

(a) The average monthly subscriber bill for services provided by cable operators subject to regulation under Section 623 of the Communications Act shall not increase above the average monthly subscriber bill determined under rates in effect on April 5, 1993, for a period of 120 days.

(b) The average monthly subscriber bill shall be calculated by determining for a monthly billing cycle the sum of all billed monthly charges for all cable services subject to regulation under section 623 of the Communications Act and dividing that sum by the number of subscribers receiving any of those services. The average monthly subscriber bill determined under rates in effect on April 5, 1993, shall be calculated based on customer charges for the most recent monthly billing cycle ending prior to April 5, 1993.

§76.901 Definitions.

(a) *Basic service.* The basic service tier shall, at a minimum, include all signals of domestic television broadcast stations provided to any subscriber (except a signal secondarily transmitted by satellite carrier beyond the local service area of such station, regardless of how such signal is ultimately received by the cable system) any public, educational, and governmental programming required by the franchise to be carried on the basic tier, and any additional video programming signals a service added to the basic tier by the cable operator.

(b) *Cable programming service.* Cable programming service includes any video programming provided over a cable system, regardless of service tier, including installation or rental of equipment used for the receipt of such video programming, other than:

(1) Video programming carried on the basic service tier as defined in this section;

(2) Video programming offered on a pay-per-channel or pay-per-program basis; or

(3) A combination of multiple channels of pay-per-channel or pay-per-program video programming offered on a multiplexed or time-shifted basis so long as the combined service:

(i) Consists of commonly-identified video programming; and

(ii) Is not bundled with any regulated tier of service.

(c) *Small System.* A small system is a cable television system that serves 15,000 or fewer subscribers. The service area of a small system shall be determined by the number of subscribers that are served by the system's principal headend, including any other headends or microwave receive sites that are technically integrated to the principal headend.

(d) *New Product Tier.* A new product tier (''NPT'') is a cable programming service tier meeting the conditions set forth in §76.987.

(e) *Small cable company.* A small cable company is a cable television operator that serves a total of 400,000 or fewer subscribers over one or more cable systems.

[58 FR 29753, May 21, 1993, as amended at 59 FR 62623, Dec. 6, 1994; 60 FR 35864, July 12, 1995]

§76.905 Standards for identification of cable systems subject to effective competition.

(a) Only the rates of cable systems that are not subject to effective competition may be regulated.

(b) A cable system is subject to effective competition when any one of the following conditions is met:

(1) Fewer than 30 percent of the households in its franchise area subscribe to the cable service of a cable system.

(2) The franchise area is:

(i) Served by at least two unaffiliated multichannel video programming distributors each of which offers comparable programming to at least 50 percent of the households in the franchise area; and

(ii) the number of households subscribing to multichannel video programming other than the largest multichannel video programming distributor exceeds 15 percent of the households in the franchise area.

(3) A multichannel video programming distributor, operated by the franchising authority for that franchise area, offers video programming to at least 50 percent of the households in the franchise area.

(4) A local exchange carrier or its affiliate (or any multichannel video programming distributor using the facilities of such carrier or its affiliate) offers video programming services directly to subscribers by any means (other than direct-to-home satellite services) in the franchise area of an unaffiliated cable operator which is providing cable service in that franchise area, but only if the video programming services so offered in that area are comparable to the video programming services provided by the unaffiliated cable operator in that area.

(c) For purposes of paragraphs (b)(1) through (b)(3) of this section, each separately billed or billable customer will count as a household subscribing to or being offered video programming services, with the exception of multiple dwelling buildings billed as a single customer. Individual units of multiple dwelling buildings will count as separate households. The term ''households'' shall not include those dwellings that are used solely for seasonal, occasional, or recreational use.

(d) A multichannel video program distributor, for purposes of this section, is an entity such as, but not limited to, a cable operator, a multichannel multipoint distribution service, a direct broadcast satellite service, a television receive-only satellite program distributor, a video dialtone service provider, or a satellite master antenna television service provider that makes available for purchase, by subscribers or customers, multiple channels of video programming.

(e) Service of a multichannel video programming distributor will be deemed offered:

(1) When the multichannel video programming distributor is physically able to deliver service to potential subscribers, with the addition of no or only minimal additional investment by the distributor, in order for an individual subscriber to receive service; and

(2) When no regulatory, technical or other impediments to households taking service exist, and potential subscribers in the franchise area are reasonably aware that they may purchase the services of the multichannel video programming distributor.

(f) For purposes of determining the number of households subscribing to the services of a multichannel video programming distributor other than the largest multichannel video programming distributor, under paragraph (b)(2)(ii) of this section, the number of subscribers of all multichannel video programming distributors that offer service in the franchise area will be aggregated.

(g) In order to offer comparable programming within the meaning of paragraph (b)(2)(i) of this section, a competing multichannel video programming distributor must offer at least 12 channels of video programming, including at least one channel of nonbroadcast service programming.

[58 FR 29753, May 21, 1993, as amended at 59 FR 17972, Apr. 15, 1994; 61 FR 18978, Apr. 30, 1996; 62 FR 6495, Feb. 12, 1997]

§ 76.906 Presumption of no effective competition.

In the absence of a demonstration to the contrary, cable systems are presumed not to be subject to effective competition.

§ 76.910 Franchising authority certification.

(a) A franchising authority must be certified by the Commission in order to regulate the basic service tier and associated equipment of a cable system within its jurisdiction.

(b) To be certified, the franchising authority must file with the Commission a written certification that:

(1) The franchising authority will adopt and administer regulations with

respect to the rates for the basic service tier that are consistent with the regulations prescribed by the Commission for regulation of the basic service tier;

(2) The franchising authority has the legal authority to adopt, and the personnel to administer, such regulations;

(3) Procedural laws and regulations applicable to rate regulation proceedings by such authority provide a reasonable opportunity for consideration of the views of interested parties; and

(4) The cable system in question is not subject to effective competition. Unless a franchising authority has actual knowledge to the contrary, the franchising authority may rely on the presumption in §76.906 that the cable operator is not subject to effective competition.

(c) The written certification described in paragraph (b) of this section shall be made by filing the FCC form designated for that purpose. The form must be filed by

(1) Registered mail, return receipt requested, or

(2) Hand-delivery to the Commission and a date-stamped copy obtained. The date on the return receipt or on the date-stamped copy is the date filed.

(d) A copy of the certification form described in paragraph (c) of this section must be served on the cable operator before or on the same day it is filed with the Commission.

(e) Unless the Commission notifies the franchising authority otherwise, the certification will become effective 30 days after the date filed, *provided, however,* That the franchising authority may not regulate the rates of a cable system unless it:

(1) Adopts regulations:

(i) Consistent with the Commission's regulations governing the basic tier; and

(ii) Providing a reasonable opportunity for consideration of the views of interested parties, within 120 days of the effective date of certification; and

(2) Notifies the cable operator that the authority has been certified and has adopted the regulations required by paragraph (e)(1) of this section.

(f) If the Commission denies a franchising authority's certification, the Commission will notify the franchising authority of any revisions or modifications necessary to obtain approval.

§76.911 Petition for reconsideration of certification.

(a) A cable operator (or other interested party) may challenge a franchising authority's certification by filing a petition for reconsideration. The petition may allege either of the following:

(1) The cable operator is not subject to rate regulation because effective competition exists as defined in §76.905.

(2) The franchising authority does not meet the certification standards set forth in 47 U.S.C. 543(a)(3).

(b)(1) The cable operator bears the burden of rebutting the presumption that effective competition does not exist with evidence that effective competition, as defined in §76,905, exists in the franchise area.

(2) For purposes of paragraph (a)(1) of this section, if the evidence establishing effective competition is not otherwise available, cable operators may request from a competitor information regarding the competitor's reach and number of subscribers. A competitor must respond to such request within 15 days. Such responses may be limited to numerical totals.

(c) Stay of rate regulation. (1) The filing of a petition for reconsideration pursuant to paragraph (a)(1) of this section will automatically stay the imposition of rate regulation pending the outcome of the reconsideration proceeding.

(2) A petitioner filing pursuant to paragraph (a)(2) of this section may request a stay of rate regulation.

(3) In any case in which a stay of rate regulation has been granted, if the petition for reconsideration is denied, the cable operator may be required to refund any rates or portion of rates above the permitted tier charge or permitted equipment charge which were collected from the date the operator implements a prospective rate reduction back in time to September 1, 1993, or one year, whichever is shorter.

(d) The filing of a petition for reconsideration alleging the presence of effective competition based on frivolous grounds is prohibited, and may be subject to forfeitures.

(e) If the Commission upholds a challenge to a certification filed pursuant to paragraph (a)(2) of this section, the Commission will notify the franchising authority of the revisions necessary to secure approval and provide the authority an opportunity to amend its certification however necessary to secure approval. *Provided, however,* That pending approval of certification, the Commission will assume jurisdiction over basic cable service rates in that franchise area.

[58 FR 29753, May 21, 1993, as amended at 58 FR 46735, Sept. 2, 1993]

§76.912 Joint certification.

(a) Franchising authorities may apply for joint certification and may engage in joint regulation, including, but not limited to, joint hearings, data collection, and ratemaking. Franchising authorities jointly certified to regulate their cable system(s) may make independent rate decisions.

(b) Franchising authorities may apply for joint certification regardless of whether the authorities are served by the same cable system or by different cable systems and regardless of whether the rates in each franchising area are uniform.

§76.913 Assumption of jurisdiction by the Commission.

(a) Upon denial or revocation of the franchising authority's certification, the Commission will regulate rates for cable services and associated equipment of a cable system not subject to effective competition, as defined in §76.905, in a franchise area. Such regulation by the Commission will continue until the franchising authority has obtained certification or recertification.

(b) A franchising authority unable to meet certification standards may petition the Commission to regulate the rates for basic cable service and associated equipment of its franchisee when:

(1) The franchising authority lacks the resources to administer rate regulation.

(2) The franchising authority lacks the legal authority to regulate basic service rates; *Provided, however,* That the authority must submit with its request a statement detailing the nature of the legal infirmity.

(c) The Commission will regulate basic service rates pursuant to this Section until the franchising authority qualifies to exercise jurisdiction pursuant to §76.916.

[58 FR 29753, May 21, 1993, as amended at 62 FR 6495, Feb. 12, 1997]

EFFECTIVE DATE NOTE: At 62 FR 6495, Feb. 12, 1997, in §76.913, paragraph (b)(1) was revised. This amendment contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

§76.914 Revocation of certification.

(a) A franchising authority's certification shall be revoked if:

(1) After the franchising authority has been given a reasonable opportunity to comment and cure any minor nonconformance, it is determined that state and local laws and regulations are in substantial and material conflict with the Commission's regulations governing cable rates.

(2) After being given an opportunity to cure the defect, a franchising authority fails to fulfill one of the three conditions for certification, set forth in 47 U.S.C. 543(a)(3), or any of the provisions of §76.910(b).

(b) In all cases of revocation, the Commission will assume jurisdiction over basic service rates until an authority becomes recertified. The Commission will also notify the franchising authority regarding the corrective action that may be taken.

(c) A petition for revocation must be served on the franchising authority and contain a statement that service was made. The franchising authority may file an opposition within 30 days of filing of the petition. A reply may be filed within 15 days of filing the opposition.

(d) While a petition for revocation is pending, and absent grant of a stay, the franchising authority may continue to regulate the basic service rates of its franchisees.

[58 FR 29753, May 21, 1993, as amended at 59 FR 17972, Apr. 15, 1994]

§76.915 Change in status of cable operator.

(a) A cable operator that becomes subject to effective competition, may

petition the franchising authority for change in its regulatory status. The operator bears the burden of proving the existence of effective competition. Oppositions may be filed within 15 days of public notice of the filing of the petition, and must be served on the operator. Cable operators may reply within 7 days of filing of oppositions.

(b) Franchising authority decisions on petitions for change in status must be made within 30 days after the pleading cycle set forth in paragraph (a) of this section closes. Franchising authorities must notify the Commission within ten days of any decision changing status. Unless the Commission receives an opposition to such change in status, the decision will become final 30 days after adoption by the franchising authority.

(c) After an initial determination of the franchising authority that effective competition exists becomes final, the franchising authority will then cease regulating basic cable service rates, and the Commission's regulatory authority over cable programming services for the system in the franchise area will also cease.

(d) A cable operator and a franchising authority may submit a joint statement that effective competition exists. The joint statement must stipulate which of the three statutory tests for effective competition has been met and explain how the test has been satisfied. These joint statements will become final decisions within 30 days of filing with the Commission, unless challenged by an interested party.

(e) Cable operators denied a change in status by a franchising authority may seek review of that finding at the Commission by filing a petition for revocation.

(f) In cases where a local franchising authority has not been certified to regulate rates, a cable operator may petition the Commission for change in its regulatory status. The time periods in paragraph (a) of this section will apply to oppositions and replies concerning these petitions.

§ 76.916 Petition for recertification.

(a) After its request for certification has been denied or its existing certification has been revoked, a franchising authority wishing to assume jurisdiction to regulate basic service and associated equipment rates must file a ''Petition for Recertification'' accompanied by a copy of the earlier decision denying or revoking certification.

(b) The petition must:

(1) Meet the requirements set forth in 47 U.S.C. 543(a)(3);

(2) State that the cable system is not subject to effective competition; and

(3) Contain a clear showing, supported by either objectively verifiable data such as a state statute, or by affidavit, that the reasons for the earlier denial or revocation no longer pertain.

(c) The petition must be served on the cable operator and on any interested party that participated in the proceeding denying or revoking the original certification.

(d) Oppositions may be filed within 15 days after the petition is filed, and must be served on the petitioner. Replies may be filed within seven days of filing of oppositions, and must be served on the opposing party(ies).

§ 76.917 Notification of certification withdrawal.

A franchising authority that has been certified to regulate rates may, at any time, notify the Commission that it no longer intends to regulate basic cable rates. Such notification shall include the franchising authority's determination that rate regulation no longer serves the interests of cable subscribers served by the cable system within the franchising authority's jurisdiction, and that it has received no consideration for its withdrawal of certification. Such notification shall be served on the cable operator. The Commission retains the right to review such determinations and to request the factual finding of the franchising authority underlying its decision to withdraw certification. The franchising authority's withdrawal becomes effective upon notification to the Commission.

[59 FR 17972, Apr. 15, 1994]

§ 76.920 Composition of the basic tier.

Every subscriber of a cable system must subscribe to the basic tier in order to subscribe to any other tier of

video programming or to purchase any other video programming.

§ 76.921 Buy-through of other tiers prohibited.

(a) No cable system operator, other than an operator subject to effective competition, may require the subscription to any tier other than the basic service tier as a condition of subscription to video programming offered on a per channel or per program charge basis. A cable operator may, however, require the subscription to one or more tiers of cable programming services as a condition of access to one or more tiers of cable programming services.

(b) A cable operator not subject to effective competition may not discriminate between subscribers to the basic service tier and other subscribers with regard to the rates charged for video programming offered on a per-channel or per-program charge basis.

(c) With respect to cable systems not subject to effective competition, prior to October 5, 2002, the provisions of paragraph (a) of this section shall not apply to any cable system that lacks the capacity to offer basic service and all programming distributed on a per channel or per program basis without also providing other intermediate tiers of service:

(1) By controlling subscriber access to nonbasic channels of service through addressable equipment electronically controlled from a central control point; or

(2) Through the installation, non-installation, or removal of frequency filters (traps) at the premises of subscribers without other alteration in system configuration or design and without causing degradation in the technical quality of service provided.

(d) With respect to cable systems not subject to effective competition, any retiering of channels or services that is not undertaken in order to accomplish legitimate regulatory, technical, or customer service objectives and that is intended to frustrate or has the effect of frustrating compliance with paragraphs (a) through (c) of this section is prohibited.

[62 FR 6495, Feb. 12, 1997]

§ 76.922 Rates for the basic service tier and cable programming services tiers.

(a) *Basic and cable programming service tier rates.* Basic service tier and cable programming service rates shall be subject to regulation by the Commission and by state and local authorities, as is appropriate, in order to assure that they are in compliance with the requirements of 47 U.S.C. 543. Rates that are demonstrated, in accordance with this part, not to exceed the ''Initial Permitted Per Channel Charge'' or the ''Subsequent Permitted Per Channel Charge'' as described in this section, or the equipment charges as specified in § 76.923, will be accepted as in compliance. The maximum monthly charge per subscriber for a tier of regulated programming services offered by a cable system shall consist of a permitted per channel charge multiplied by the number of channels on the tier, plus a charge for franchise fees. The maximum monthly charges for regulated programming services shall not include any charges for equipment or installations. Charges for equipment and installations are to be calculated separately pursuant to § 76.923. The same rate-making methodology (either the benchmark methodology found in paragraph (b) of this section, or a cost-of-service showing) shall be used to set initial rates on all rate regulated tiers, and shall continue to provide the basis for subsequent permitted charges.

(b) *Permitted charge on May 15, 1994.* (1) The permitted charge for a tier of regulated program service shall be, at the election of the cable system, either:

(i) A rate determined pursuant to a cost-of-service showing;

(ii) The full reduction rate;

(iii) The transition rate, if the system is eligible for transition relief; or

(iv) A rate based on a streamlined rate reduction, if the system is eligible to implement such a rate reduction. Except where noted, the term ''rate'' in this subsection means a rate measured on an average regulated revenue per subscriber basis.

(2) *Full reduction rate.* The ''full reduction rate'' on May 15, 1994 is the system's September 30, 1992 rate, measured on an average regulated revenue

per subscriber basis, reduced by 17 percent, and then adjusted for the following:

(i) The establishment of permitted equipment rates as required by § 76.923;

(ii) Inflation measured by the GNP–PI between October 1, 1992 and September 30, 1993;

(iii) Changes in the number of program channels subject to regulation that are offered on the system's program tiers between September 30, 1992 and the earlier of the initial date of regulation for any tier or February 28, 1994; and

(iv) Changes in external costs that have occurred between the earlier of the initial date of regulation for any tier or February 28, 1994, and March 31, 1994.

(3) *March 31, 1994 benchmark rate.* The ''March 31, 1994 benchmark rate'' is the rate so designated using the calculations in Form 1200.

(4) *Transition rates.*—(i) *Termination of transition relief for systems other than low price systems.* Systems other than low-price systems that already have established a transition rate as of the effective date of this rule may maintain their current rates, as adjusted under the price cap requirements of § 76.922(d), until two years from the effective date of this rule. These systems must begin charging reasonable rates in accordance with applicable rules, other than transition relief, no later than that date.

(ii) *Low-price systems.* Low price systems shall be eligible to establish a transition rate for a tier.

(A) A low-price system is a system:

(*1*) Whose March 31, 1994 rate is below its March 31, 1994 benchmark rate, or

(*2*) Whose March 31, 1994 rate is above its March 31, 1994 benchmark rate, but whose March 31, 1994 full reduction rate is below its March 31, 1994 benchmark rate, as defined in § 76.922(b)(2), above.

(B) The transition rate on May 15, 1994 for a system whose March 31, 1994 rate is below its March 31, 1994 benchmark rate is the system's March 31, 1994 rate. The March 31, 1994 rate is in both cases adjusted:

(*1*) To establish permitted rates for equipment as required by § 76.923 if such rates have not already been established; and

(*2*) For changes in external costs incurred between the earlier of initial date of regulation of any tier or February 28, 1994, and March 31, 1994, to the extent changes in such costs are not already reflected in the system's March 31, 1994 rate. The transition rate on May 15, 1994 for a system whose March 31, 1994 adjusted rate is above its March 31, 1994 benchmark rate, but whose March 31, 1994 full reduction rate is below its March 31, 1994 benchmark rate, is the March 31, 1994 benchmark rate, adjusted to establish permitted rates for equipment as required by § 76.923 if such rates have not already been established.

(iii) Notwithstanding the foregoing, the transition rate for a tier shall be adjusted to reflect any determination by a local franchising authority and/or the Commission that the rate in effect on March 31, 1994 was higher (or lower) than that permitted under applicable Commission regulations. A filing reflecting the adjusted rate shall be submitted to all relevant authorities within 30 days after issuance of the local franchising authority and/or Commission determination. A system whose March 31, 1994 rate is determined by a local franchising authority or the Commission to be too high under the Commission's rate regulations in effect before May 15, 1994 will be subject to any refund liability that may accrue under those rules. In addition, the system will be liable for refund liability under the rules in effect on and after May 15, 1994. Such refund liability will be measured by the difference in the system's March 31, 1994 rate and its permitted March 31, 1994 rate as calculated under the Commission's rate regulations in effect before May 15, 1994. The refund liability will accrue according to the time periods set forth in §§ 76.942, and 76.961 of the Commission's rules.

(5) *Streamlined rate reductions.* (i) Small systems that are not owned by or affiliated with any other system (''independent systems''), and small systems owned by small multiple system operators (''small MSOs''), that have not already restructured their rates to comply with the Commission's rules may establish rates for regulated program services and equipment by making a streamlined rate reduction.

''Small MSOs'' are those multiple system operators that:

(A) Small systems that are owned by small cable companies and that have not already restructured their rates to comply with the Commission's rules may establish rates for regulated program services and equipment by making a streamlined rate reduction. Small systems owned by small cable companies shall not be eligible for streamlined rate reductions if they are owned or controlled by, or are under common control or affiliated with, a cable operator that exceeds these subscriber limits. For purposes of this rule, a small system will be considered ''affiliated with'' such an operator if the operator has a 20 percent or greater equity interest in the small system.

(B) The streamlined rate for a tier on May 15, 1994 shall be the system's March 31, 1994 rate for the tier, reduced by 14 percent. A small system that elects to establish its rate for a tier by implementing this streamlined rate reduction must also reduce, at the same time, each billed item of regulated cable service, including equipment, by 14 percent. Regulated rates established using the streamlined rate reduction process shall remain in effect until:

(*1*) Adoption of a further order by the Commission establishing a schedule of average equipment costs;

(*2*) The system increases its rates using the calculations and time periods set forth in FCC Form 1211; or

(*3*) The system elects to establish permitted rates under another available option set forth in paragraph (b)(1) of this section.

(C) *Implementation and notification*. An eligible small system that elects to use the streamlined rate reduction process must implement the required rate reductions and provide written notice of such reductions to subscribers, the local franchising authority and the Commission according to the following schedule:

(*1*) Within 60 days from the date it receives the initial notice of regulation from the franchising authority or the Commission, the small system must provide written notice to subscribers and the franchising authority, or to the Commission if the Commission is regulating the basic tier, that it is electing to set its regulated rates by the streamlined rate reduction process. The system must then implement the streamlined rate reductions within 30 days after the written notification has been provided to subscribers and the local franchise authority or Commission.

(*2*) If a cable programming services complaint is filed against the system, the system must provide the required written notice, described in paragraph (b)(5)(iii)(C)(*1*) of this section, to subscribers, the local franchising authority or the Commission within 60 days after the complaint is filed. The system must then implement the streamlined rate reductions within 30 days after the written notification has been provided.

(*3*) A small system is required to give written notice of, and to implement, the rates that are produced by the streamlined rate reduction process only once. If a system has already provided notice of, and implemented, the streamlined rate reductions when a given tier becomes subject to regulation, it must report to the relevant regulator (either the franchising authority or the Commission) in writing within 30 days of becoming subject to regulation that it has already provided the required notice and implemented the required rate reductions.

(ii) The stremlined rate for a tier on May 15, 1994 shall be the system's March 31, 1994 rate for the tier, reduced by 14 percent. A small system that elects to establish its rate for a tier by implementing this streamlined rate reduction must also reduce, at the same time, each billed item of regulated cable service, including equipment, by 14 percent. Regulated rates established using the streamlined rate reduction process shall remain in effect until:

(A) Adoption of a further order by the Commission establishing a schedule of average equipment costs;

(B) The system increases its rates using the calculations and time periods set forth in FCC Form 1211; or

(C) The system elects to establish permitted rates under another available option set forth in paragraph (b)(1) of this section.

(iii) *Implementation and notification*. An eligible small system that elects to use the streamlined rate reduction

process must implement the required rate reductions and provide written notice of such reductions to subscribers, the local franchising authority and the Commission according to the following schedule:

(A) Where the franchising authority has been certified by the Commission to regulate the small system's basic service tier rates as of May 15, 1994, the system must notify the franchising authority and its subscribers in writing that it is electing to set its regulated rates by the streamline rate reduction process. Such notice must be given by June 15, 1994, and must also describe the new rates that will result from the streamlined rate reduction process. Those rates must then be implemented within 30 days after the written notification has been provided to subscribers and the local franchising authority.

(B) Where the franchising authority has not been certified to regulate basic service tier rates by May 15, 1994, the small system must provide the written notice to subscribers and the franchising authority, described in paragraph (b)(5)(iii)(A) of this section, within 30 days from the date it receives the initial notice of regulation from the franchising authority. The system must then implement the streamlined rate reductions within 30 days after the written notification has been provided to subscribers and the local franchise authority.

(C) Where the Commission is regulating the small system's basic service tier rates as of May 15, 1994, the system must notify the Commission and its subscribers in writing that it is electing to set its regulated rates by the streamlined rate reduction process. Such notice must be given by June 15, 1994, and must also describe the new rates that will result from the streamlined rate reduction process. Those rates must then be implemented within 30 days after the written notification has been provided to subscribers and the Commission.

(D) Where the Commission begins regulating basic service rates after May 15, 1994, the small system must provide the written notice to subscribers and the Commission, described in paragraph (b)(5)(iii)(C) of this section, within 30 days from the date it receives an initial notice of regulation. The system must then implement the streamlined rate reductions within 30 days after the written notification has been provided to subscribers and the Commission.

(E) If a complaint about its cable programming service rates has been filed with the Commission on or before May 15, 1994, the small system must provide the written notice described in paragraph (b)(5)(iii)(A) of this section, to subscribers, the local franchising authority and the Commission by June 15, 1994. If a cable programming services complaint is filed against the system after May 15, 1994, the system must provide the required written notice to subscribers, the local franchising authority or the Commission within 30 days after the complaint is filed. The system must then implement the streamlined rate reductions within 30 days after the written notification has been provided.

(F) A small system is required to give written notice of, and to implement, the rates that are produced by the streamlined rate reduction process only once. If a system has already provided notice of, and implemented, the streamlined rate reductions when a given tier becomes subject to regulation, it must report to the relevant regulator (either the franchising authority or the Commission) in writing within 30 days of becoming subject to regulation that it has already provided the required notice and implemented the required rate reductions.

(6) *Establishment of initial regulated rates.* (i) Cable systems, other than those eligible for streamlined rate reductions, shall file FCC Forms 1200, 1205, and 1215 for a tier that is regulated on May 15, 1994 by June 15, 1994, or thirty days after the initial date of regulation for the tier. A system that becomes subject to regulation for the first time on or after July 1, 1994 shall also file FCC Form 1210 at the time it files FCC Forms 1200, 1205 and 1215.

(ii) A cable system will not incur refund liability under the Commission's rules governing regulated cable rates on and after May 15, 1994 if:

(A) Between March 31, 1994 and July 14, 1994, the system does not change the rate for, or restructure in any fashion,

any program service or equipment offering that is subject to regulation under the 1992 Cable Act; and

(B) The system establishes a permitted rate defined in paragraph (b) of this section by July 14, 1994. The deferral of refund liability permitted by this subsection will terminate if, after March 31, 1994, the system changes any rate for, or restructures, any program service or equipment offering subject to regulation, and in all events will expire on July 14, 1994. Moreover, the deferral of refund liability permitted by this paragraph does not apply to refund liability that occurs because the system's March 31, 1994 rates for program services and equipment subject to regulation are higher than the levels permitted under the Commission's rules in effect before May 15, 1994.

(7) For purposes of this section, the initial date of regulation for the basic service tier shall be the date on which notice is given pursuant to § 76.910, that the provision of the basic service tier is subject to regulation. For a cable programming services tier, the initial date of regulation shall be the first date on which a complaint on the appropriate form is filed with the Commission concerning rates charged for the cable programming services tier.

(8) For purposes of this section, rates in effect on the initial date of regulation or on September 30, 1992 shall be the rates charged to subscribers for service received on that date.

(9) *Updating Data Calculations.*

(i) For purposes of this section, if:

(A) A cable operator, prior to becoming subject to regulation, revised its rates to comply with the Commission's rules; and

(B) The data on which the cable operator relied was current and accurate at the time of revision, and the rate is accurate and justified by the prior data; and

(C) Through no fault of the cable operator, the rates that resulted from using such data differ from the rates that would result from using data current and accurate at the time the cable operator's system becomes subject to regulation;

then the cable operator is not required to change its rates to reflect the data current at the time it becomes subject to regulation.

(ii) Notwithstanding the above, any subsequent changes in a cable operator's rates must be made from rate levels derived from data [that was current as of the date of the rate change].

(iii) For purposes of this subsection, if the rates charged by a cable operator are not justified by an analysis based on the data available at the time it initially adjusted its rates, the cable operator must adjust its rates in accordance with the most accurate data available at the time of the analysis.

(c) *Subsequent permitted charge.* (1) The permitted charge for a tier after May 15, 1994 shall be, at the election of the cable system, either:

(i) A rate determined pursuant to a cost-of-service showing,

(ii) A rate determined by application of the Commission's price cap requirements set forth in paragraph (d) of this section to a permitted rate determined in accordance with paragraph (b) of this section, or

(iii) A rate determined by application of the Commission's price cap requirements set forth in paragraph (e) of this section to a permitted rate determined in accordance with paragraph (b) of this section.

(2) The Commission's price cap requirements allow a system to adjust its permitted charges for inflation, changes in the number of regulated channels on tiers, or changes in external costs. After May 15, 1994, adjustments for changes in external costs shall be calculated by subtracting external costs from the system's permitted charge and making changes to that ''external cost component'' as necessary. The remaining charge, referred to as the ''residual component,'' will be adjusted annually for inflation. Cable systems may adjust their rates by using the price cap rules contained in either paragraph (d) or (e) of this section. In addition, cable systems may further adjust their rates using the methodologies set forth in paragraph (n) of this section.

(3) An operator may switch between the quarterly rate adjustment option contained in paragraph (d) of this section and the annual rate adjustment

option contained in paragraph (e) of this section, provided that:

(i) Whenever an operator switches from the current quarterly system to the annual system, the operator may not file a Form 1240 earlier than 90 days after the operator proposed its last rate adjustment on a Form 1210; and

(ii) When an operator changes from the annual system to the quarterly system, the operator may not return to a quarterly adjustment using a Form 1210 until a full quarter after it has filed a true up of its annual rate on a Form 1240 for the preceding filing period.

(4) An operator that does not set its rates pursuant to a cost-of-service filing must use the quarterly rate adjustment methodology pursuant to paragraph (d) of this section or annual rate adjustment methodology pursuant to paragraph (e) of this section for both its basic service tier and its cable programming services tier(s).

(d) *Quarterly rate adjustment method*—(1) *Calendar year quarters.* All systems using the quarterly rate adjustment methodology must use the following calendar year quarters when adjusting rates under the price cap requirements. The first quarter shall run from January 1 through March 31 of the relevant year; the second quarter shall run from April 1 through June 30; the third quarter shall run from July 1 through September 30; and the fourth quarter shall run from October 1 through December 31.

(2) *Inflation Adjustments.* The residual component of a system's permitted charge may be adjusted annually for inflation. The annual inflation adjustment shall be used on inflation occurring from June 30 of the previous year to June 30 of the year in which the inflation adjustment is made, except that the first annual inflation adjustment shall cover inflation from September 30, 1993 until June 30 of the year in which the inflation adjustment is made. The adjustment may be made after September 30, but no later than August 31, of the next calendar year. Adjustments shall be based on changes in the Gross National Product Price Index as published by the Bureau of Economic Analysis of the United States Department of Commerce. Cable systems that establish a transition rate pursuant to paragraph (b)(4) of this section may not begin adjusting rates on account of inflation before April 1, 1995. Between April 1, 1995 and August 31, 1995 cable systems that established a transition rate may adjust their rates to reflect the net of a 5.21% inflation adjustment minus any inflation adjustments they have already received. Low price systems that had their March 31, 1994 rates above the benchmark, but their full reduction rate below the benchmark will be permitted to adjust their rates to reflect the full 5.21% inflation factor unless the rate reduction was less than the inflation adjustment received on an FCC Form 393 for rates established prior to May 15, 1994. If the rate reduction established by a low price system that reduced its rate to the benchmark was less than the inflation adjustment received on an FCC Form 393, the system will be permitted to receive the 5.21% inflation adjustment minus the difference between the rate reduction and the inflation adjustment the system made on its FCC Form 393. Cable systems that established a transition rate may make future inflation adjustments on an annual basis with all other cable operators, no earlier than October 1 of each year and no later than August 31 of the following year to reflect the final GNP–PI through June 30 of the applicable year.

(3) *External costs.* (i) Permitted charges for a tier may be adjusted up to quarterly to reflect changes in external costs experienced by the cable system as defined by paragraph (f) of this section. In all events, a system must adjust its rates annually to reflect any decreases in external costs that have not previously been accounted for in the system's rates. A system must also adjust its rates annually to reflect any changes in external costs, inflation and the number of channels on regulated tiers that occurred during the year if the system wishes to have such changes reflected in its regulated rates. A system that does not adjust its permitted rates annually to account for those changes will not be permitted to increase its

rates subsequently to reflect the changes.

(ii) A system must adjust its rates in the next calendar year quarter for any decrease in programming costs that results from the deletion of a channel or channels from a regulated tier.

(iii) Any rate increase made to reflect an increase in external costs must also fully account for all other changes in external costs, inflation and the number of channels on regulated tiers that occurred during the same period. Rate adjustments made to reflect changes in external costs shall be based on any changes in those external costs that occurred from the end of the last quarter for which an adjustment was previously made through the end of the quarter that has most recently closed preceding the filing of the FCC Form 1210 (or FCC Form 1211, where applicable). A system may adjust its rates after the close of a quarter to reflect changes in external costs that occurred during that quarter as soon as it has sufficient information to calculate the rate change.

(e) *Annual rate adjustment method—(1) Generally.* Except as provided for in paragraphs (e)(2)(iii)(B) and (e)(2)(iii)(C) of this section and Section 76.923(o), operators that elect the annual rate adjustment method may not adjust their rates more than annually to reflect inflation, changes in external costs, changes in the number of regulated channels, and changes in equipment costs. Operators that make rate adjustments using this method must file on the same date a Form 1240 for the purpose of making rate adjustments to reflect inflation, changes in external costs and changes in the number of regulated channels and a Form 1205 for the purpose of adjusting rates for regulated equipment and installation. Operators may choose the annual filing date, but they must notify the franchising authority of their proposed filing date prior to their filing. Franchising authorities or their designees may reject the annual filing date chosen by the operator for good cause. If the franchising authority finds good cause to reject the proposed filing date, the franchising authority and the operator should work together in an effort to reach a mutually acceptable date. If no agreement can be reached, the franchising authority may set the filing date up to 60 days later than the date chosen by the operator. An operator may change its filing date from year-to-year, but except as described in paragraphs (e)(2)(iii)(B) and (e)(2)(iii)(C) of this section, at least twelve months must pass before the operator can implement its next annual adjustment.

(2) *Projecting Inflation, Changes in External Costs, and Changes in Number of Regulated Channels.* An operator that elects the annual rate adjustment method may adjust its rates to reflect inflation, changes in external costs and changes in the number of regulated channels that are projected for the 12 months following the date the operator is scheduled to make its rate adjustment pursuant to Section 76.933(g).

(i) *Inflation Adjustments.* The residual component of a system's permitted charge may be adjusted annually to project for the 12 months following the date the operator is scheduled to make a rate adjustment. The annual inflation adjustment shall be based on inflation that occurred in the most recently completed July 1 to June 30 period. Adjustments shall be based on changes in the Gross National Product Price Index as published by the Bureau of Economic Analysis of the United States Department of Commerce.

(ii) *External costs.* (A) Permitted charges for a tier may be adjusted annually to reflect changes in external costs experienced but not yet accounted for by the cable system, as well as for projections in these external costs for the 12-month period on which the filing is based. In order that rates be adjusted for projections in external costs, the operator must demonstrate that such projections are reasonably certain and reasonably quantifiable. Projections involving copyright fees, retransmission consent fees, other programming costs, Commission regulatory fees, and cable specific taxes are presumed to be reasonably certain and reasonably quantifiable. Operators may project for increases in franchise related costs to the extent that they are reasonably certain and reasonably quantifiable, but such changes are not

presumed reasonably certain and reasonably quantifiable. Operators may pass through increases in franchise fees pursuant to Section 76.933(g).

(B) In all events, a system must adjust its rates every twelve months to reflect any net decreases in external costs that have not previously been accounted for in the system's rates.

(C) Any rate increase made to reflect increases or projected increases in external costs must also fully account for all other changes and projected changes in external costs, inflation and the number of channels on regulated tiers that occurred or will occur during the same period. Rate adjustments made to reflect changes in external costs shall be based on any changes, plus projections, in those external costs that occurred or will occur in the relevant time periods since the periods used in the operator's most recent previous FCC Form 1240.

(iii) *Channel Adjustments.* (A) Permitted charges for a tier may be adjusted annually to reflect changes not yet accounted for in the number of regulated channels provided by the cable system, as well as for projected changes in the number of regulated channels for the 12-month period on which the filing is based. In order that rates be adjusted for projected changes to the number of regulated channels, the operator must demonstrate that such projections are reasonably certain and reasonably quantifiable.

(B) An operator may make rate adjustments for the addition of required channels to the basic service tier that are required under federal or local law at any time such additions occur, subject to the filing requirements of Section 76.933(g)(2), regardless of whether such additions occur outside of the annual filing cycle. Required channels may include must-carry, local origination, public, educational and governmental access and leased access channels. Should the operator elect not to pass through the costs immediately, it may accrue the costs of the additional channels plus interest, as described in paragraph (e)(3) of this section.

(C) An operator may make one additional rate adjustment during the year to reflect channel additions to the cable programming services tiers or, where the operator offers only one regulated tier, the basic service tier. Operators may make this additional rate adjustment at any time during the year, subject to the filing requirements of Section 76.933(g)(2), regardless of whether the channel addition occurs outside of the annual filing cycle. Should the operator elect not to pass through the costs immediately, it may accrue the costs of the additional channels plus interest, as described in paragraph (e)(3) of this section.

(3) *True-up and Accrual of Charges Not Projected.* As part of the annual rate adjustment, an operator must ''true up'' its previously projected inflation, changes in external costs and changes in the number of regulated channels and adjust its rates for these actual cost changes. The operator must decrease its rates for overestimation of its projected cost changes, and may increase its rates to adjust for underestimation of its projected cost changes.

(i) Where an operator has underestimated costs, future rates may be increased to permit recovery of the accrued costs plus 11.25% interest between the date the costs are incurred and the date the operator is entitled to make its rate adjustment.

(ii) *Per Channel Adjustment.* Operators may increase rates by a per channel adjustment of up to 20 cents per subscriber per month, exclusive of programming costs, for each channel added to a CPST between May 15, 1994, and December 31, 1997, except that an operator may take the per channel adjustment only for channel additions that result in an increase in the highest number of channels offered on all CPSTs as compared to May 14, 1994, and each date thereafter. Any revenues received from a programmer, or shared by a programmer and an operator in connection with the addition of a channel to a CPST shall first be deducted from programming costs for that channel pursuant to paragraph (d)(3)(x) of this section and then, to the extent revenues received from the programmer are greater than the programming costs, shall be deducted from the per channel adjustment. This deduction will apply on a channel by channel basis. With respect to the per channel adjustment only, this deduction shall

not apply to revenues received by an operator from a programmer as commissions on sales of products or services offered through home shopping services.

(iii) If an operator has underestimated its cost changes and elects not to recover these accrued costs with interest on the date the operator is entitled to make its annual rate adjustment, the interest will cease to accrue as of the date the operator is entitled to make the annual rate adjustment, but the operator will not lose its ability to recover such costs and interest. An operator may recover accrued costs between the date such costs are incurred and the date the operator actually implements its rate adjustment.

(iv) Operators that use the annual methodology in their next filing after the release date of this Order may accrue costs and interest incurred since July 1, 1995 in that filing. Operators that file a Form 1210 in their next filing after the release date of this Order, and elect to use Form 1240 in a subsequent filing, may accrue costs incurred since the end of the last quarter to which a Form 1210 applies.

(4) *Sunset Provision.* The Commission will review paragraph (e) of this section prior to December 31, 1998 to determine whether the annual rate adjustment methodology should be kept, and whether the quarterly system should be eliminated and replaced with the annual rate adjustment method.

(f) *External costs.* (1) External costs shall consist of costs in the following categories:

(i) State and local taxes applicable to the provision of cable television service;

(ii) Franchise fees;

(iii) Costs of complying with franchise requirements, including costs of providing public, educational, and governmental access channels as required by the franchising authority;

(iv) Retransmission consent fees and copyright fees incurred for the carriage of broadcast signals;

(v) Other programming costs; and

(vi) Commission cable television system regulatory fees imposed pursuant to 47 U.S.C. § 159.

(2) The permitted charge for a regulated tier shall be adjusted on account of programming costs, copyright fees and retransmission consent fees only for the program channels or broadcast signals offered on that tier.

(3) The permitted charge shall not be adjusted for costs of retransmission consent fees or changes in those fees incurred prior to October 6, 1994.

(4) The starting date for adjustments on account of external costs for a tier of regulated programming service shall be the earlier of the initial date of regulation for any basic or cable service tier or February 28, 1994. Except, for regulated FCC Form 1200 rates set on the basis of rates at September 30, 1992 (using either March 31, 1994 rates initially determined from FCC Form 393 Worksheet 2 or using Form 1200 Full Reduction Rates from Line J6), the starting date shall be September 30, 1992. Operators in this latter group may make adjustment for changes in external costs for the period between September 30, 1992, and the initial date of regulation or February 28, 1994, whichever is applicable, based either on changes in the GNP–PI over that period or on the actual change in the external costs over that period. Thereafter, adjustment for external costs may be made on the basis of actual changes in external costs only.

(5) Changes in franchise fees shall not result in an adjustment to permitted charges, but rather shall be calculated separately as part of the maximum monthly charge per subscriber for a tier of regulated programming service.

(6) Adjustments to permitted charges to reflect changes in the costs of programming purchased from affiliated programmers, as defined in § 76.901, shall be permitted as long as the price charged to the affiliated system reflects either prevailing company prices offered in the marketplace to third parties (where the affiliated program supplier has established such prices) or the fair market value of the programming.

(7) Adjustments to permitted charges on account of increases in costs of programming shall be further adjusted to reflect any revenues received by the operator from the programmer. Such adjustments shall apply on a channel-by-channel basis.

(8) In calculating programming expense, operators may add a mark-up of 7.5% for increases in programming costs occurring after March 31, 1994, except that operators may not file for or take the 7.5% mark-up on programming costs for new channels added on or after May 15, 1994 for which the operator has used the methodology set forth in paragraph (g)(3) of this section for adjusting rates for channels added to cable programming service tiers. Operators shall reduce rates by decreases in programming expense plus an additional 7.5% for decreases occurring after May 15, 1994 except with respect to programming cost decreases on channels added after May 15, 1994 for which the rate adjustment methodology in paragraph (g)(3) of this section was used.

(g) *Changes in the number of channels on regulated tiers.*(1) *Generally.* A system may adjust the residual component of its permitted rate for a tier to reflect changes in the number of channels offered on the tier on a quarterly basis. Cable systems shall use FCC Form 1210 (or FCC Form 1211, where applicable) or FCC Form 1240 to justify rate changes made on account of changes in the number of channels on a basic service tier (''BST'') or a cable programming service tier (''CPST''). Such rate adjustments shall be based on any changes in the number of regulated channels that occurred from the end of the last quarter for which an adjustment was previously made through the end of the quarter that has most recently closed preceding the filing of the FCC Form 1210 (or FCC Form 1211, where applicable) or FCC Form 1240. However, when a system deletes channels in a calendar quarter, the system must adjust the residual component of the tier charge in the next calendar quarter to reflect that deletion. Operators must elect between the channel addition rules in paragraphs (g)(2) and (g)(3) of this section the first time they adjust rates after December 31, 1994, to reflect a channel addition to a CPST that occurred on or after May 15, 1994, and must use the elected methodology for all rate adjustments through December 31, 1997. A system that adjusted rates after May 15, 1994, but before January 1, 1995 on account of a change in the number of channels on a CPST that occurred after May 15, 1994, may elect to revise its rates to charge the rates permitted by paragraph (g)(3) of this section on or after January 1, 1995, but is not required to do so as a condition for using the methodology in paragraph (g)(3) of this section for rate adjustments after January 1, 1995. Rates for the BST will be governed exclusively by paragraph (g)(2) of this section, except that where a system offered only one tier on May 14, 1994, the cable operator will be allowed to elect between paragraphs (g)(2) and (g)(3) of this section as if the tier was a CPST.

(2) *Adjusting Rates for increases in the number of channels offered between May 15, 1994, and December 31, 1997, on a basic service tier and at the election of the operator on a cable programming service tier.* The following table shall be used to adjust permitted rates for increases in the number of channels offered between May 15, 1994, and December 31, 1997, on a basic service tier and subject to the conditions in paragraph (g)(1) of this section at the election of the operator on a CPST. The entries in the table provide the cents per channel per subscriber per month by which cable operators will adjust the residual component using FCC Form 1210 (or FCC Form 1211, where applicable) or FCC Form 1240.

Average No. of regulated channels	Per-channel adjustment factor
7	$0.52
7.5	0.45
8	0.40
8.5	0.36
9	0.33
9.5	0.29
10	0.27
10.5	0.24
11	0.22
11.5	0.20
12	0.19
12.5	0.17
13	0.16
13.5	0.15
14	0.14
14.5	0.13
15–15.5	0.12
16	0.11
16.5–17	0.10
17.5–18	0.09
18.5–19	0.08
19.5–21.5	0.07
22–23.5	0.06
24–26	0.05
26.5–29.5	0.04
30–35.5	0.03
36–46	0.02

Average No. of regulated channels	Per-channel adjustment factor
46.5–99.5	0.01

In order to adjust the residual component of the tier charge when there is an increase in the number of channels on a tier, the operator shall perform the following calculations:

(i) Take the sum of the old total number of channels on tiers subject to regulation (*i.e.*, tiers that are, or could be, regulated but excluding New Product Tiers) and the new total number of channels and divide the resulting number by two;

(ii) Consult the above table to find the applicable per channel adjustment factor for the number of channels produced by the calculations in step (1). For each tier for which there has been an increase in the number of channels, multiply the per-channel adjustment factor times the change in the number of channels on that tier. The result is the total adjustment for that tier.

(3) *Alternative methodology for adjusting rates for changes in the number of channels offered on a cable programming service tier or a single tier system between May 15, 1994, and December 31, 1997.* This paragraph at the Operator's discretion as set forth in paragraph (g)(1) of this section shall be used to adjust permitted rates for a CPST after December 31, 1994, for changes in the number of channels offered on a CPST between May 15, 1994, and December 31, 1997. For purposes of paragraph (g)(3) of this section, a single tier system may be treated as if it were a CPST.

(i) *Operators Cap Attributable to New Channels on All CPSTs Through December 31, 1997.* Operators electing to use the methodology set forth in this paragraph may increase their rates between January 1, 1995, and December 31, 1997, by up to 20 cents per channel, exclusive of programming costs, for new channels added to CPSTs on or after May 15, 1994, except that they may not make rate adjustments totalling more than $1.20 per month, per subscriber through December 31, 1996, and by more than $1.40 per month, per subscriber through December 31, 1997 (the ''Operator's Cap''). Except to the extent that the programming costs of such channels are covered by the License Fee Reserve provided for in paragraph (g)(3)(iii) of this section, programming costs associated with channels for which a rate adjustment is made pursuant to this paragraph (g)(3) of this section must fall within the Operators' Cap if the programming costs (including any increases therein) are reflected in rates before January 1, 1997. Inflation adjustments pursuant to paragraph (d)(2) or (e)(2) of this section are not counted against the Operator's Cap.

(ii) *Per Channel Adjustment.* Operators may increase rates by a per channel adjustment of up to 20 cents per subscriber per month, exclusive of programming costs, for each channel added to a CPST between May 15, 1994, and December 31, 1997, except that an operator may take the per channel adjustment only for channel additions that result in an increase in the highest number of channels offered on all CPSTs as compared to May 14, 1994, and each date thereafter. Any revenues received from a programmer, or shared by a programmer and an operator in connection with the addition of a channel to a CPST shall first be deducted from programming costs for that channel pursuant to paragraph (f)(7) of this section and then, to the extent revenues received from the programmer are greater than the programming costs, shall be deducted from the per channel adjustment. This deduction will apply on a channel by channel basis.

(iii) *License Fee Reserve.* In addition to the rate adjustments permitted in paragraphs (g)(3)(i) and (g)(3)(ii) of this section, operators that make channel additions on or after May 15, 1994 may increase their rates by a total of 30 cents per month, per subscriber between January 1, 1995, and December 31, 1996, for license fees associated with such channels (the ''License Fee Reserve''). The License Fee Reserve may be applied against the initial license fee and any increase in the license fee for such channels during this period. An operator may pass-through to subscribers more than the 30 cents between January 1, 1995, and December 31, 1996, for license fees associated with channels added after May 15, 1994, provided that the total amount recovered

from subscribers for such channels, including the License Fee Reserve, does not exceed $1.50 per subscriber, per month. After December 31, 1996, license fees may be passed through to subscribers pursuant to paragraph (f) of this section, except that license fees associated with channels added pursuant to this paragraph (3) will not be eligible for the 7.5% mark-up on increases in programming costs.

(iv) *Timing.* For purposes of determining whether a rate increase counts against the maximum rate increases specified in paragraphs (g)(3)(i) through (g)(3)(ii) of this section, the relevant date shall be when rates are increased as a result of channel additions, not when the addition occurs.

(4) *Deletion of Channels.* When dropping a channel from a BST or CPST, operators shall reflect the net reduction in external costs in their rates pursuant to paragraphs (d)(3)(i) and (d)(3)(ii) of this section, or paragraphs (e)(2)(ii)(A) and (e)(2)(ii)(B) of this section. With respect to channels to which the 7.5% mark-up on programming costs applied pursuant to paragraph (f)(8) of this section, the operator shall treat the mark-up as part of its programming costs and subtract the mark-up from its external costs. Operators shall also reduce the price of that tier by the ''residual'' associated with that channel. For channels that were on a BST or CPST on May 14, 1994, or channels added after that date pursuant to paragraph (g)(2) of this section, the per channel residual is the charge for their tier, minus the external costs for the tier, and any per channel adjustments made after that date, divided by the total number of channels on the tier minus the number of channels on the tier that received the per channel adjustment specified in paragraph (g)(3) of this section. For channels added to a CPST after May 14, 1994, pursuant to paragraph (g)(3) of this section, the residuals shall be the actual per channel adjustment taken for that channel when it was added to the tier.

(5) *Movement of Channels Between Tiers.* When a channel is moved from a CPST or a BST to another CPST or BST, the price of the tier from which the channel is dropped shall be reduced to reflect the decrease in programming costs and residual as described in paragraph (g)(4) of this section. The residual associated with the shifted channel shall then be converted from per subscriber to aggregate numbers to ensure aggregate revenues from the channel remain the same when the channel is moved. The aggregate residual associated with the shifted channel may be shifted to the tier to which the channel is being moved. The residual shall then be converted to per subscriber figures on the new tier, plus any subsequent inflation adjustment. The price of the tier to which the channel is shifted may then be increased to reflect this amount. The price of that tier may also be increased to reflect any increase in programming cost. An operator may not shift a channel for which it received a per channel adjustment pursuant to paragraph (g)(3) of this section from a CPST to a BST.

(6) *Substitution of Channels on a BST or CPST.* If an operator substitutes a new channel for an existing channel on a CPST or a BST, no per channel adjustment may be made. Operators substituting channels on a CPST or a BST shall be required to reflect any reduction in programming costs in their rates and may reflect any increase in programming costs pursuant to paragraphs (d)(3)(i) and (d)(3)(ii), or paragraphs (e)(2)(ii)(A) and (e)(2)(ii)(B) of this section. If the programming cost for the new channel is greater than the programming cost for the replaced channel, and the operator chooses to pass that increase through to subscribers, the excess shall count against the License Fee Reserve or the Operator Cap when the increased cost is passed through to subscribers. Where an operator substitutes a new channel for a channel on which a 7.5% mark-up on programming costs was taken pursuant to paragraph (f)(8) of this section, the operator may retain the 7.5% mark-up on the license fee of the dropped channel to the extent that it is no greater than 7.5% of programming cost of the new service.

(7) *Headend upgrades.* When adding channels to CPSTs and single-tier systems, cable systems that are owned by a small cable company and incur additional monthly per subscriber headend

costs of one full cent or more for an additional channel may choose among the methodologies set forth in paragraphs (g)(2) and (g)(3) of this section. In addition, such systems may increase rates to recover the actual cost of the headend equipment required to add up to seven such channels to CPSTs and single-tier systems, not to exceed $5,000 per additional channel. Rate increases pursuant to this paragraph may occur between January 1, 1995, and December 31, 1997, as a result of additional channels offered on those tiers after May 14, 1994. Headend costs shall be depreciated over the useful life of the equipment. The rate of return on this investment shall not exceed 11.25 percent. In order to recover costs for headend equipment pursuant to this paragraph, systems must certify to the Commission their eligibility to use this paragraph, and the level of costs they have actually incurred for adding the headend equipment and the depreciation schedule for the equipment.

(8) *Sunset Provision.* Paragraph (g) of this section shall cease to be effective on January 1, 1998 unless renewed by the Commission.

(h) Permitted charges for a tier shall be determined in accordance with forms and associated instructions established by the Commission.

(i) *Cost of Service Charge.* (1) For purposes of this section, a monthly cost-of-service charge for a basic service tier or a cable programming service tier is an amount equal to the annual revenue requirement for that tier divided by a number that is equal to 12 times the average number of subscribers to that tier during the test year, except that a monthly charge for a system or tier in service less than one year shall be equal to the projected annual revenue requirement for the first 12 months of operation or service divided by a number that is equal to 12 times the projected average number of subscribers during the first 12 months of operation or service. The calculation of the average number of subscribers shall include all subscribers, regardless of whether they receive service at full rates or at discounts.

(2) A test year for an initial regulated charge is the cable operator's fiscal year preceding the initial date of regulation. A test year for a change in the basic service charge that is after the initial date of regulation is the cable operator's fiscal year preceding the mailing or other delivery of written notice pursuant to Section 76.932. A test year for a change in a cable programming service charge after the initial date of regulation is the cable operator's fiscal year preceding the filing of a complaint regarding the increase.

(3) The annual revenue requirement for a tier is the sum of the return component and the expense component for that tier.

(4) The return component for a tier is the average allowable test year ratebase allocable to the tier adjusted for known and measurable changes occurring between the end of the test year and the effective date of the rate multiplied by the rate of return specified by the Commission or franchising authority.

(5) The expense component for a tier is the sum of allowable test year expenses allocable to the tier adjusted for known and measurable changes occurring between the end of the test year and the effective date of the rate.

(6) The ratebase may include the following:

(i) Prudent investment by a cable operator in tangible plant that is used and useful in the provision of regulated cable services less accumulated depreciation. Tangible plant in service shall be valued at the actual money cost (or the money value of any consideration other than money) at the time it was first used to provide cable service, except that in the case of systems purchased before May 15, 1994 shall be presumed to equal 66% of the total purchase price allocable to assets (including tangible and intangible assets) used to provide regulated services. The 66% allowance shall not be used to justify any rate increase taken after the effective date of this rule. The actual money cost of plant may include an allowance for funds used during construction at the prime rate or the operator's actual cost of funds during construction. Cost overruns are presumed to be imprudent investment in the absence of a showing that the overrun occurred through no fault of the operator.

(ii) An allowance for start-up losses including depreciation, amortization and interest expenses related to assets that are included in the ratebase. Capitalized start-up losses, may include cumulative net losses, plus any unrecovered interest expenses connected to funding the regulated ratebase, amortized over the unexpired life of the franchise, commencing with the end of the loss accumulation phase. However, losses attributable to accelerated depreciation methodologies are not permitted.

(iii) An allowance for start-up losses, if any, that is equal to the lesser of the first two years of operating costs or accumulated losses incurred until the system reached the end of its prematurity stage as defined in Financial Accounting Standards Board Standard 51 (''FASB 51'') less straight-line amortization over a reasonable period not exceeding 15 years that commences at the end of the prematurity phase of operation.

(iv) Intangible assets less amortization that reflect the original costs prudently incurred by a cable operator in organizing and incorporating a company that provides regulated cable services, obtaining a government franchise to provide regulated cable services, or obtaining patents that are used and useful in the provision of cable services.

(v) The cost of customer lists if such costs were capitalized during the prematurity phase of operations less amortization.

(vi) An amount for working capital to the extent that an allowance or disallowance for funds needed to sustain the ongoing operations of the regulated cable service is demonstrated.

(vii) Other intangible assets to the extent the cable operator demonstrates that the asset reflects costs incurred in an activity or transaction that produced concrete benefits or savings for subscribers to regulated cable services that would not have been realized otherwise and the cable operator demonstrates that a return on such an asset does not exceed the value of such a subscriber benefit.

(viii) The portion of the capacity of plant not currently in service that will be placed in service within twelve months of the end of the test year.

(7) Deferred income taxes accrued after the date upon which the operator became subject to regulation shall be deducted from items included in the ratebase.

(8) Allowable expenses may include the following:

(i) All regular expenses normally incurred by a cable operator in the provision of regulated cable service, but not including any lobbying expense, charitable contributions, penalties and fines paid on account of violations of statutes or rules, or membership fees in social, service, recreational or athletic clubs or organizations.

(ii) Reasonable depreciation expense attributable to tangible assets allowable in the ratebase.

(iii) Reasonable amortization expense for prematurely abandoned tangible assets formerly includable in the ratebase that are amortized over the remainder of the original expected life of the asset.

(iv) Reasonable amortization expense for start-up losses and capitalized intangible assets that are includable in ratebase.

(v) Taxes other than income taxes attributable to the provision of regulated cable services.

(vi) An income tax allowance.

(j) *Network upgrade rate increase.* (1) Cable operators that undertake significant network upgrades requiring added capital investment may justify an increase in rates for regulated services by demonstrating that the capital investment will benefit subscribers.

(2) A rate increase on account of upgrades shall not be assessed on customers until the upgrade is complete and providing benefits to customers of regulated services.

(3) Cable operators seeking an upgrade rate increase have the burden of demonstrating the amount of the net increase in costs, taking into account current depreciation expense, likely changes in maintenance and other costs, changes in regulated revenues and expected economies of scale.

(4) Cable operators seeking a rate increase for network upgrades shall allocate net cost increases in conformance

with the cost allocation rules as set forth in § 76.924.

(5) Cable operators that undertake significant upgrades shall be permitted to increase rates by adding the benchmark/price cap rate to the rate increment necessary to recover the net increase in cost attributable to the upgrade.

(k) *Hardship rate relief.* A cable operator may adjust charges by an amount specified by the Commission for the cable programming service tier or the franchising authority for the basic service tier if it is determined that:

(1) Total revenues from cable operations, measured at the highest level of the cable operator's cable service organization, will not be sufficient to enable the operator to attract capital or maintain credit necessary to enable the operator to continue to provide cable service;

(2) The cable operator has prudent and efficient management; and

(3) Adjusted charges on account of hardship will not result in total charges for regulated cable services that are excessive in comparison to charges of similarly situated systems.

(l) *Cost of service showing.* A cable operator that elects to establish a charge, or to justify an existing or changed charge for regulated cable service, based on a cost-of-service showing must submit data to the Commission or the franchising authority in accordance with forms established by the Commission. The cable operator must also submit any additional information requested by franchising authorities or the Commission to resolve questions in cost-of-service proceedings.

(m) *Subsequent Cost of Service Charges.* No cable operator may use a cost-of-service showing to justify an increase in any charge established on a cost-of-service basis for a period of 2 years after that rate takes effect, except that the Commission or the franchising authority may waive this prohibition upon a showing of unusual circumstances that would create undue hardship for a cable operator.

(n) *Further rate adjustments—Uniform rates.* A cable operator that has established rates in accordance with this section may then be permitted to establish a uniform rate for uniform services offered in multiple franchise areas. This rate shall be determined in accordance with the Commission's procedures and requirements set forth in CS Docket No. 95–174.

[58 FR 29753, May 21, 1993, as amended at 58 FR 46735, Sept. 2, 1993; 59 FR 17957, 17973, 17989, Apr. 15, 1994; 59 FR 53115, Oct. 21, 1994; 59 FR 62623, Dec. 6, 1994; 60 FR 4865, Jan. 25, 1995; 60 FR 10514, Feb. 27, 1995; 60 FR 35864, July 12, 1995; 60 FR 52113, Oct. 5, 1995; 60 FR 54817, Oct. 26, 1995; 61 FR 9367, Mar. 8, 1996; 61 FR 45359, Aug. 29, 1996; 62 FR 6495, Feb. 12, 1997; 62 FR 15121, 15127, Mar. 31, 1997]

EFFECTIVE DATE NOTES: 1. At 60 FR 62633, Dec. 6, 1994, in § 76.922, paragraph (e) was revised. Paragraphs (e)(1) and (e)(2) contain information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

2. At 60 FR 52113, Oct. 5, 1995, in § 76.922, paragraphs (e) through (k) were redesignated as (g) through (m); (c), (d), and new (g) through new (m) were revised; a new (e) and a new (f) were added. This amendment contains information collection and recordkeeping requirements and will not become effective until 30 days after approval has been given by the Office of Management and Budget.

3. At 61 FR 9367, Mar. 8, 1996, in § 76.922, paragraphs (i)(6)(i) and (i)(7) were revised; (i)(6)(ii) through (vii) were redesignated as (i)(6)(iii) through (viii); a new (i)(6)(ii) was added. This amendment contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

4. At 62 FR 6495, Feb. 12, 1997, in § 76.922, paragraph (f)(4) was revised. This amendment contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

5. At 62 FR 15127, Mar. 31, 1997, paragraph (c)(2) was revised and paragraph (n) was added. This amendment contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

§ 76.923 Rates for equipment and installation used to receive the basic service tier.

(a) *Scope.* (1) The equipment regulated under this section consists of all equipment in a subscriber's home, provided and maintained by the operator, that is used to receive the basic service

tier, regardless of whether such equipment is additionally used to receive other tiers of regulated programming service and/or unregulated service. Such equipment shall include, but is not limited to:

(i) Converter boxes;

(ii) Remote control units; and

(iii) Inside wiring.

(2) Subscriber charges for such equipment shall not exceed charges based on actual costs in accordance with the requirements set forth in this section.

Subscriber charges for such equipment shall not exceed charges based on actual costs in accordance with the requirements set forth below.

(b) *Unbundling.* A cable operator shall establish rates for remote control units, converter boxes, other customer equipment, installation, and additional connections separate from rates for basic tier service. In addition, the rates for such equipment and installations shall be unbundled one from the other.

(c) *Equipment basket.* A cable operator shall establish an Equipment Basket, which shall include all costs associated with providing customer equipment and installation under this section. Equipment Basket costs shall be limited to the direct and indirect material and labor costs of providing, leasing, installing, repairing, and servicing customer equipment, as determined in accordance with the cost accounting and cost allocation requirements of § 76.924, except that operators do not have to aggregate costs in a manner consistent with the accounting practices of the operator on April 3, 1993. The Equipment Basket shall not include general administrative overhead including marketing expenses. The Equipment Basket shall include a reasonable profit.

(1) *Customer equipment.* Costs of customer equipment included in the Equipment Basket may be aggregated, on a franchise, system, regional, or company level, into broad categories. Except to the extent indicated in paragraph (c)(2) of this section, such categorization may be made, provided that each category includes only equipment of the same type, regardless of the levels of functionality of the equipment within each such broad category. When submitting its equipment costs based on average charges, the cable operator must provide a general description of the averaging methodology employed and a justification that its averaging methodology produces reasonable equipment rates. Equipment rates should be set at the same organizational level at which an operator aggregates its costs.

(2) *Basic service tier only equipment.* Costs of customer equipment used by basic-only subscribers may not be aggregated with the costs of equipment used by non-basic-only subscribers. Costs of customer equipment used by basic-only subscribers may, however, be aggregated, consistent with an operator's aggregation under paragraph (c)(1) of this section, on a franchise, system, regional, or company level. The prohibition against aggregation applies to subscribers, not to a particular type of equipment. Alternatively, operators may base its basic-only subscriber cost aggregation on the assumption that all basic-only subscribers use equipment that is the lowest level and least expensive model of equipment offered by the operator, even if some basic-only subscribers actually have higher level, more expensive equipment.

(3) *Installation costs.* Installation costs, consistent with an operator's aggregation under paragraph (c)(1) of this section, may be aggregated, on a franchise, system, regional, or company level. When submitting its installation costs based on average charges, the cable operator must provide a general description of the averaging methodology employed and a justification that its averaging methodology produces reasonable equipment rates. Installation rates should be set at the same organizational level at which an operator aggregates its costs.

(d) *Hourly service charge.* A cable operator shall establish charges for equipment and installation using the Hourly Service Charge (HSC) methodology. The HSC shall equal the operator's annual Equipment Basket costs, excluding the purchase cost of customer equipment, divided by the total person hours involved in installing, repairing, and servicing customer equipment during the same period. The HSC

is calculated according to the following formula:

$$HSC = \frac{EB - CE}{H}$$

Where, EB=annual Equipment Basket Cost; CE=annual purchase cost of all customer equipment; and H=person hours involved in installing and repairing equipment per year. The purchase cost of customer equipment shall include the cable operator's invoice price plus all other costs incurred with respect to the equipment until the time it is provided to the customer.

(e) *Installation charges.* Installation charges shall be either:

(1) The HSC multiplied by the actual time spent on each individual installation; or

(2) The HSC multiplied by the average time spent on a specific type of installation.

(f) *Remote charges.* Monthly charges for rental of a remote control unit shall consist of the average annual unit purchase cost of remotes leased, including acquisition price and incidental costs such as sales tax, financing and storage up to the time it is provided to the customer, added to the product of the HSC times the average number of hours annually repairing or servicing a remote, divided by 12 to determine the monthly lease rate for a remote according to the following formula:

$$\text{Monthly Charge} = \frac{UCE + (HSC \times HR)}{12}$$

Where, HR=average hours repair per year; and UCE=average annual unit cost of remote.

(g) *Other equipment charges.* The monthly charge for rental of converter boxes and other customer equipment shall be calculated in the same manner as for remote control units. Separate charges may be established for each category of other customer equipment.

(h) *Additional connection charges.* The costs of installation and monthly use of additional connections shall be recovered as charges associated with the installation and equipment cost categories, and at rate levels determined by the actual cost methodology presented in the foregoing paragraphs (e), (f), and (g) of this section. An operator may recover additional programming costs and the costs of signal boosters on the customers premises, if any, associated with the additional connection as a separate monthly unbundled charge for additional connections.

(i) *Charges for equipment sold.* A cable operator may sell customer premises equipment to a subscriber. The equipment price shall recover the operator's cost of the equipment, including costs associated with storing and preparing the equipment for sale up to the time it is sold to the customer, plus a reasonable profit. An operator may sell service contracts for the maintenance and repair of equipment sold to subscribers. The charge for a service contract shall be the HSC times the estimated average number of hours for maintenance and repair over the life of the equipment.

(j) *Promotions.* A cable operator may offer equipment or installation at charges below those determined under paragraphs (e) through (g) of this section, as long as those offerings are reasonable in scope in relation to the operator's overall offerings in the Equipment Basket and not unreasonably discriminatory. Operators may not recover the cost of a promotional offering by increasing charges for other Equipment Basket elements, or by increasing programming service rates above the maximum monthly charge per subscriber prescribed by these rules. As part of a general cost-of-service showing, an operator may include the cost of promotions in its general system overhead costs.

(k) *Franchise fees.* Equipment charges may include a properly allocated portion of franchise fees.

(l) *Company-wide averaging of equipment costs.* For the purpose of developing unbundled equipment charges as required by paragraph (b) of this section, a cable operator may average the equipment costs of its small systems at any level, or several levels, within its operations. This company-wide averaging applies only to an operator's small systems as defined in § 76.901(c); is permitted only for equipment charges, not

installation charges; and may be established only for similar types of equipment. When submitting its equipment costs based on average charges to the local franchising authority or the Commission, an operator that elects company-wide averaging of equipment costs must provide a general description of the averaging methodology employed and a justification that its averaging methodology produces reasonable equipment rates. The local authority or the Commission may require the operator to set equipment rates based on the operator's level of averaging in effect on April 3, 1993, as required by § 76.924(d).

(m) Cable operators shall set charges for equipment and installations to recover Equipment Basket costs. Such charges shall be set, consistent with the level at which Equipment Basket costs are aggregated as provided in § 76.923(c). Cable operators shall maintain adequate documentation to demonstrate that charges for the sale and lease of equipment and for installations have been developed in accordance with the rules set forth in this section.

(n) *Timing of Filings.* An operator shall file FCC Form 1205 in order to establish its maximum permitted rates at the following times:

(1) When the operator sets its initial rates under either the benchmark system or through a cost-of-service showing;

(2) Within 60 days of the end of its fiscal year, for an operator that adjusts its rates under the system described in Section 76.922(d) that allows it to file up to quarterly;

(3) On the same date it files its FCC Form 1240, for an operator that adjusts its rates under the annual rate adjustment system described in Section 76.922(e). If an operator elects not to file an FCC Form 1240 for a particular year, the operator must file a Form 1205 on the anniversary date of its last Form 1205 filing; and

(4) When seeking to adjust its rates to reflect the offering of new types of customer equipment other than in conjunction with an annual filing of Form 1205, 60 days before it seeks to adjust its rates to reflect the offering of new types of customer equipment.

(o) *Introduction of new equipment.* In setting the permitted charge for a new type of equipment at a time other than at its annual filing, an operator shall only complete Schedule C and the relevant step of the Worksheet for Calculating Permitted Equipment and Installation Charges of a Form 1205. The operator shall rely on entries from its most recently filed FCC Form 1205 for information not specifically related to the new equipment, including but not limited to the Hourly Service Charge. In calculating the annual maintenance and service hours for the new equipment, the operator should base its entry on the average annual expected time required to maintain the unit, i.e., expected service hours required over the life of the equipment unit being introduced divided by the equipment unit's expected life.

[58 FR 29753, May 21, 1993, as amended at 59 FR 17960, 17973, Apr. 15, 1994; 60 FR 52118, Oct. 5, 1995; 61 FR 32709, June 25, 1996]

EFFECTIVE DATE NOTE: At 60 FR 52118, Oct. 5, 1995, in § 76.923, paragraphs (n) and (o) were added. This amendment contains information collection and recordkeeping requirements and will not become effective until 30 days after approval has been given by the Office of Management and Budget.

§ 76.924 Allocation to service cost categories.

(a) *Applicability.* The requirements of this section are applicable to cable operators for which the basic service tier is regulated by local franchising authorities or the Commission, or, with respect to a cable programming services tier, for which a complaint has been filed with the Commission. The requirements of this section are applicable for purposes of rate adjustments on account of external costs and for cost-of-service showings.

(b) *Accounting requirements.* Cable operators electing cost-of-service regulation or seeking rate adjustments due to changes in external costs shall maintain their accounts:

(1) in accordance with generally accepted accounting principles; and

(2) in a manner that will enable identification of appropriate investments, revenues, and expenses.

(c) *Accounts level.* Except to the extent indicated below, cable operators

electing cost of service regulation or seeking adjustments due to changes in external costs shall identify investments, expenses and revenues at the franchise, system, regional, and/or company level(s) in a manner consistent with the accounting practices of the operator on April 3, 1993. However, in all events, cable operators shall identify at the franchise level their costs of franchise requirements, franchise fees, local taxes and local programming.

(d) *Summary accounts.* (1) Cable operators filing for cost-of-service regulation, other than small systems owned by small cable companies, shall report all investments, expenses, and revenue and income adjustments accounted for at the franchise, system, regional and/or company level(s) to the summary accounts listed below.

RATEBASE

Net Working Capital
Headend
Trunk and Distribution Facilities
Drops
Customer Premises Equipment
Construction/Maintenance Facilities and Equipment
Programming Production Facilities and Equipment
Business Offices Facilities and Equipment
Other Tangible Assets
Accumulated Depreciation
Plant Under Construction
Organization and Franchise Costs
Subscriber Lists
Capitalized Start-up Losses
Goodwill
Other Intangibles
Accumulated Amortization
Deferred Taxes

OPERATING EXPENSES

Cable Plant Employee Payroll
Cable Plant Power Expense
Pole Rental, Duct, Other Rental for Cable Plant
Cable Plant Depreciation Expense
Cable Plant Expenses—Other
Plant Support Employee Payroll Expense
Plant Support Depreciation Expense
Plant Support Expense—Other
Programming Activities Employee Payroll
Programming Acquisition Expense
Programming Activities Depreciation Expense
Programming Expense—Other
Customer Services Expense
Advertising Activities Expense
Management Fees
General and Administrative Expenses
Selling General and Administrative Depreciation Expenses
Selling General and Administrative Expenses—Other
Amortization Expense—Franchise and Organizational Costs
Amortization Expense—Customer Lists
Amortization Expense—Capitalized Start-up Loss
Amortization Expense—Goodwill
Amortization Expense—Other Intangibles
Operating Taxes
Other Expenses (Excluding Franchise Fees)
Franchise Fees
Interest on Funded Debt
Interest on Capital Leases
Other Interest Expenses

REVENUE AND INCOME ADJUSTMENTS

Advertising Revenues
Other Cable Revenue Offsets
Gains and Losses on Sale of Assets
Extraordinary Items
Other Adjustments

(2) Except as provided in § 76.934(h), small systems owned by small cable companies that file for cost-of-service regulation shall report all investments, expenses, and revenue and income adjustments accounted for at the franchise, system, regional and/or company level(s) to the following summary accounts:

RATEBASE

Net Working Capital
Headend, Trunk and Distribution System and Support Facilities and Equipment
Drops
Customer Premises Equipment
Production and Office Facilities, Furniture and Equipment
Other Tangible Assets
Accumulated Depreciation
Plant Under Construction
Goodwill
Other Intangibles
Accumulated Amortization
Deferred Taxes

OPERATING EXPENSES

Cable Plant Maintenance, Support and Operations Expense
Programming Production and Acquisition Expense
Customer Services Expense
Advertising Activities Expense
Management Fees
Selling, General and Administrative Expenses
Depreciation Expense
Amortization Expense—Goodwill
Amortization Expense—Other Intangibles
Other Operating Expense (Excluding Franchise Fees)

Franchise Fees
Interest Expense

REVENUE AND INCOME ADJUSTMENTS

Advertising Revenues
Other Cable Revenue Offsets
Gains and Losses on Sale of Assets
Extraordinary Items
Other Adjustments

(e) *Allocation to service cost categories.*

(1) For cable operators electing cost-of-service regulation, investments, expenses, and revenues contained in the summary accounts identified in paragraph (d) of this section shall be allocated among the Equipment Basket, as specified in § 76.923, and the following service cost categories:

(i) Basic service cost category. The basic service category, shall include the cost of providing basic service as defined by § 76.901(a). The basic service cost category may only include allowable costs as defined by §§ 76.922(g) through 76.922(k).

(ii) Cable programming services cost category. The cable programming services category shall include the cost of providing cable programming services as defined by § 76.901(b). This service cost category shall contain subcategories that represent each programming tier that is offered as a part of the operator's cable programming services. All costs that are allocated to the cable programming service cost cateogry shall be further allocated among the programming tiers in this category. The cable programming service cost category may include only allowable costs as defined in § 76.922(g) through 76.922(k).

(iii) All other services cost category. The all other services cost category shall include the costs of providing all other services that are not included the basic service or a cable programming services cost categories as defined in paragraphs (e)(1)(i) and (ii) of this section.

(2) Cable operators seeking an adjustment due to changes in external costs identified in FCC Form 1210 shall allocate such costs among the equipment basket, as specified in § 76.923, and the following service cost categories:

(i) The basic service category as defined by paragraph (e)(1)(i) of this section;

(ii) The cable programming services category as defined by paragraph (e)(1)(ii) of this section;

(iii) The all other services cost category as defined by paragraph (e)(1)(iii) of this section.

(f) *Cost allocation requirements.* (1) Allocations of investments, expenses and revenues among the service cost categories and the equipment basket shall be made at the organizational level in which such costs and revenues have been identified for accounting purposes pursuant to § 76.924(c).

(2) Costs of programming and retransmission consent fees shall be directly assigned or allocated only to the service cost category in which the programming or broadcast signal at issue is offered.

(3) Costs of franchise fees shall be allocated among the equipment basket and the service cost categories in a manner that is most consistent with the methodology of assessment of franchise fees by local authorities.

(4) Costs of public, educational, and governmental access channels carried on the basic tier shall be directly assigned to the basic tier where possible.

(5) Commission cable television system regulatory fees imposed pursuant to 47 U.S.C. 159 shall be directly assigned to the basic service tier.

(6) All other costs that are incurred exclusively to support the equipment basket or a specific service cost category shall be directly assigned to that service cost category or the equipment basket where possible.

(7) Costs that are not directly assigned shall be allocated to the service cost categories in accordance with the following allocation procedures:

(i) Wherever possible, common costs for which no allocator has been specified by the Commission are to be allocated among the service cost categories and the equipment basket based on direct analysis of the origin of the costs.

(ii) Where allocation based on direct analysis is not possible, common costs for which no allocator has been specified by the Commission shall, if possible, be allocated among the service costs categories and the equipment

basket based on indirect, cost-causative linkage to other costs directly assigned or allocated to the service cost categories and the equipment basket.

(iii) Where neither direct nor indirect measures of cost allocation can be found, common costs shall be allocated to each service cost category based on the ratio of all other costs directly assigned and attributed to a service cost category over total costs directly or indirectly assigned and directly or indirectly attributable.

(g) *Cost identification at the franchise level.* After costs have been directly assigned to and allocated among the service cost categories and the equipment basket, cable operators that have aggregated costs at a higher level than the franchise level must identify all applicable costs at the franchise level in the following manner:

(1) Recoverable costs that have been identified at the highest organizational level at which costs have been identified shall be allocated to the next (lower) organizational level at which recoverable costs have been identified on the basis of the ratio of the total number of subscribers served at the lower level to the total number of subscribers served at the higher level.

(2) Cable operators shall repeat the procedure specified in paragraph (g)(1) of this section at every organizational level at which recoverable costs have been identified until such costs have been allocated to the franchise level.

(h) *Part-time channels.* In situations where a single channel is divided on a part-time basis and is used to deliver service associated with different tiers or with pay per channel or pay per view service, a reasonable and documented allocation of that channel between services shall be required along with the associated revenues and costs.

(i) *Transactions and affiliates.* Adjustments on account of external costs and rates set on a cost-of-service basis shall exclude any amounts not calculated in accordance with the following:

(1) Charges for assets purchased by or transferred to the regulated activity of a cable operator from affiliates shall equal the invoice price if that price is determined by a prevailing company price. The invoice price is the prevailing company price if the affiliate has sold a substantial number of like assets to nonaffiliates. If a prevailing company price for the assets received by the regulated activity is not available, the changes for such assets shall be the lower of their cost to the originating activity of the affiliated group less all applicable valuation reserves, or their fair market value.

(2) The proceeds from assets sold or transferred from the regulated activity of the cable operator to affiliates shall equal the prevailing company price if the cable operator has sold a substantial number of like assets to nonaffiliates. If a prevailing company price is not available, the proceeds from such sales shall be determined at the higher of cost less all applicable valuation reserves, or estimated fair market value of the asset.

(3) Charges for services provided to the regulated activity of a cable operator by an affiliate shall equal the invoice price if that price is determined by a prevailing company price. The invoice price is the prevailing company price if the affiliate has sold like services to a substantial number of nonaffiliates. If a prevailing company price for the services received by the regulated activity is not available, the charges of such services shall be at cost.

(4) The proceeds from services sold or transferred from the regulated activity of the cable operator to affiliates shall equal the prevailing company price if the cable operator has sold like services to a substantial number of nonaffiliates. If a prevailing company price is not available, the proceeds from such sales shall be determined at cost.

(5) For purposes of § 76.924(i)(1) through 76.924(i)(4), costs shall be determined in accordance with the standards and procedures specified in § 76.922 and paragraphs (b) and (d) of this section.

(j) *Unrelated expenses and revenues.* Cable operators shall exclude from cost categories used to develop rates for the provision of regulated cable service, equipment, and leased commercial access, any direct or indirect expenses and revenues not related to the provision of such services. Common costs of providing regulated cable service,

equipment, and leased commercial access and unrelated activities shall be allocated between them in accordance with paragraph (f) of this section.

[58 FR 29753, May 21, 1993, as amended at 59 FR 17990, Apr. 15, 1994; 59 FR 53115, Oct. 21, 1994; 60 FR 35865, July 12, 1995; 61 FR 9367, Mar. 8, 1996]

EFFECTIVE DATE NOTE: At 61 FR 9367, Mar. 8, 1996, in §76.924, the section heading and paragraphs (e)(1)(iii) and (2)(iii) were revised; (e)(1)(iv), (v), (2)(iv), and (v) were removed. This amendment contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

§76.925 Costs of franchise requirements.

(a) Franchise requirement costs may include cost increases required by the franchising authority in the following categories:

(1) Costs of providing PEG access channels;

(2) Costs of PEG access programming;

(3) Costs of technical and customer service standards to the extent that they exceed federal standards;

(4) Costs of institutional networks and the provision of video services, voice transmissions and data transmissions to or from governmental institutions and educational institutions, including private schools, to the extent such services are required by the franchise agreement; and

(5) When the operator is not already in the process of upgrading the system, costs of removing cable from utility poles and placing the same cable underground.

(b) The costs of satisfying franchise requirements to support public, educational, and governmental channels shall consist of the sum of:

(1) All per channel costs for the number of channels used to meet franchise requirements for public, educational, and governmental channels;

(2) Any direct costs of meeting such franchise requirements; and

(3) A reasonable allocation of general and administrative overhead.

(c) The costs of satisfying any requirements under the franchise other than PEG access costs shall consist of the direct and indirect costs including a reasonable allocation of general and administrative overhead.

[58 FR 29753, May 21, 1993, as amended at 60 FR 52119, Oct. 5, 1995]

EFFECTIVE DATE NOTE: At 60 FR 52119, Oct. 5, 1995, in §76.925, paragraphs (a) and (b) were redesignated as (b) and (c); a new (a) was added; a new (c) was revised. This amendment contains information collection and recordkeeping requirements and will not become effective until 30 days after approval has been given by the Office of Management and Budget.

§76.930 Initiation of review of basic cable service and equipment rates.

A cable operator shall file its schedule of rates for the basic service tier and associated equipment with a franchising authority within 30 days of receiving written notification from the franchising authority that the franchising authority has been certified by the Commission to regulate rates for the basic service tier. Basic service and equipment rate schedule filings for existing rates or proposed rate increases (including increases in the baseline channel change that results from reductions in the number of channels in a tier) must use the appropriate official FCC form, a copy thereof, or a copy generated by FCC software. Failure to file on the official FCC form, a copy thereof, or a copy generated by FCC software, may result in the imposition of sanctions specified in §76.937(d). A cable operator shall include rate cards and channel line-ups with its filing and include an explanation of any discrepancy in the figures provided in these documents and its rate filing.

[59 FR 17973, Apr. 15, 1994]

§76.931 Notification of basic tier availability.

A cable operator shall provide written notification to subscribers of the availability of basic tier service by November 30, 1993, or three billing cycles from September 1, 1993, and to new subscribers at the time of installation. This notification shall include the following information:

(a) That basic tier service is available;

(b) The cost per month for basic tier service;

(c) A list of all services included in the basic service tier.

[58 FR 46735, Sept. 2, 1993]

§ 76.932 Notification of proposed rate increase.

A cable operator shall provide written notice to a subscriber of any increase in the price to be charged for the basic service tier or associated equipment at least 30 days before any proposed increase is effective. The notice should include the name and address of the local franchising authority.

§ 76.933 Franchising authority review of basic cable rates and equipment costs.

(a) After a cable operator has submitted for review its existing rates for the basic service tier and associated equipment costs, or a proposed increase in these rates (including increases in the baseline channel change that results from reductions in the number of channels in a tier) under the quarterly rate adjustment system pursuant to Section 76.922(d), the existing rates will remain in effect or the proposed rates will become effective after 30 days from the date of submission; *Provided, however,* that the franchising authority may toll this 30-day deadline for an additional time by issuing a brief written order as described in paragraph (b) within 30 days of the rate submission explaining that it needs additional time to review the rates.

(b) If the franchising authority is unable to determine, based upon the material submitted by the cable operator, that the existing, or proposed rates under the quarterly adjustment system pursuant to Section 76.922(d), are within the Commission's permitted basic service tier charge or actual cost of equipment as defined in §§ 76.922 and 76.923, or if a cable operator has submitted a cost-of-service showing pursuant §§ 76.937(c) and 76.924, seeking to justify a rate above the Commission's basic service tier charge as defined in §§ 76.922 and 76.923, the franchising authority may toll the 30-day deadline in paragraph (a) of this section to request and/or consider additional information or to consider the comments from interested parties as follows:

(1) For an additional 90 days in cases not involving cost-of-service showings; or

(2) For an additional 150 days in cases involving cost-of-service showings.

(c) If a franchising authority has availed itself of the additional 90 or 150 days permitted in paragraph (b) of this section, and has taken no action within these additional time periods, then the proposed rates will go into effect at the end of the 90 or 150 day periods, or existing rates will remain in effect at such times, subject to refunds if the franchising authority subsequently issues a written decision disapproving any portion of such rates: *Provided, however,* That in order to order refunds, a franchising authority must have issued a brief written order to the cable operator by the end of the 90 or 150-day period permitted in paragraph (b) of this section directing the operator to keep an accurate account of all amounts received by reason of the rate in issue and on whose behalf such amounts were paid.

(d) A franchising authority may request, pursuant to a petition for special relief under § 76.7, that the Commission examine a cable operator's cost-of-service showing, submitted to the franchising authority as justification of basic tier rates, within 30 days of receipt of a cost-of-service showing. In its petition, the franchising authority shall document its reasons for seeking Commission assistance. The franchising authority shall issue an order stating that it is seeking Commission assistance and serve a copy before the 30-day deadline on the cable operator submitting the cost showing. The cable operator shall deliver a copy of the cost showing, together with all relevant attachments, to the Commission within 15 days of receipt of the local authority's notice to seek Commission assistance. The Commission shall notify the local franchising authority and the cable operator of its ruling and of the basic tier rate, as established by the Commission. The rate shall take effect upon implementation by the franchising authority of such ruling and refund liability shall be governed thereon. The Commission's ruling shall be binding on the franchising authority

and the cable operator. A cable operator or franchising authority may seek reconsideration of the ruling pursuant to § 1.106(a)(1) of this chapter or review by the Commission pursuant to § 1.115(a) of this chapter.

(e) Notwithstanding paragraphs (a) through (d) of this section, when the franchising authority is regulating basic service tier rates, a cable operator that sets its rates pursuant to the quarterly rate adjustment system pursuant to § 76.922(d) may increase its rates for basic service to reflect the imposition of, or increase in, franchise fees or Commission cable television system regulatory fees imposed pursuant to 47 U.S.C. 159. For the purposes of paragraphs (a) through (c) of this section, the increased rate attributable to Commission regulatory fees or franchise fees shall be treated as an ''existing rate'', subject to subsequent review and refund if the franchising authority determines that the increase in basic tier rates exceeds the increase in regulatory fees or in franchise fees allocable to the basic tier. This determination shall be appealable to the Commission pursuant to § 76.944. When the Commission is regulating basic service tier rates pursuant to § 76.945 or cable programming service rates pursuant to § 76.960, an increase in those rates resulting from franchise fees or Commission regulatory fees shall be reviewed by the Commission pursuant to the mechanisms set forth in § 76.945. A cable operator must adjust its rates to reflect decreases in franchise fees or Commission regulatory fees within the periods set forth in § 76.922(d)(3)(i),(iii).

(f) For an operator that sets its rates pursuant to the quarterly rate adjustment system pursuant to Section 76.922(d), cable television system regulatory fees assessed by the Commission pursuant to 47 U.S.C. § 159 shall be recovered in monthly installments during the fiscal year following the year for which the payment was imposed. Payments shall be collected in equal monthly installments, except that for so many months as may be necessary to avoid fractional payments, an additional $0.01 payment per month may be collected. All such additional payments shall be collected in the last month or months of the fiscal year, so that once collections of such payments begin there shall be no month remaining in the year in which the operator is not entitled to such an additional payment. Operators may not assess interest. Operators may provide notice of the entire fiscal year's regulatory fee pass-through in a single notice.

(g) A cable operator that submits for review a proposed change in its existing rates for the basic service tier and associated equipment costs using the annual filing system pursuant to Section 76.922(e) shall do so no later than 90 days from the effective date of the proposed rates. The franchising authority will have 90 days from the date of the filing to review it. However, if the franchising authority or its designee concludes that the operator has submitted a facially incomplete filing, the franchising authority's deadline for issuing a decision, the date on which rates may go into effect if no decision is issued, and the period for which refunds are payable will be tolled while the franchising authority is waiting for this information, provided that, in order to toll these effective dates, the franchising authority or its designee must notify the operator of the incomplete filing within 45 days of the date the filing is made.

(1) If there is a material change in an operator's circumstances during the 90-day review period and the change affects the operator's rate change filing, the operator may file an amendment to its Form 1240 prior to the end of the 90-day review period. If the operator files such an amendment, the franchising authority will have at least 30 days to review the filing. Therefore, if the amendment is filed more than 60 days after the operator made its initial filing, the operator's proposed rate change may not go into effect any earlier than 30 days after the filing of its amendment. However, if the operator files its amended application on or prior to the sixtieth day of the 90-day review period, the operator may implement its proposed rate adjustment, as modified by the amendment, 90 days after its initial filing.

(2) If a franchising authority has taken no action within the 90-day review period, then the proposed rates

may go into effect at the end of the review period, subject to a prospective rate reduction and refund if the franchising authority subsequently issues a written decision disapproving any portion of such rates, *provided, however,* that in order to order a prospective rate reduction and refund, if an operator inquires as to whether the franchising authority intends to issue a rate order after the initial review period, the franchising authority or its designee must notify the operator of its intent in this regard within 15 days of the operator's inquiry. If a proposed rate goes into effect before the franchising authority issues its rate order, the franchising authority will have 12 months from the date the operator filed for the rate adjustment to issue its rate order. In the event that the franchising authority does not act within this 12-month period, it may not at a later date order a refund or a prospective rate reduction with respect to the rate filing.

(3) At the time an operator files its rates with the franchising authority, the operator may give customers notice of the proposed rate changes. Such notice should state that the proposed rate change is subject to approval by the franchising authority. If the operator is only permitted a smaller increase than was provided for in the notice, the operator must provide an explanation to subscribers on the bill in which the rate adjustment is implemented. If the operator is not permitted to implement any of the rate increase that was provided for in the notice, the operator must provide an explanation to subscribers within 60 days of the date of the franchising authority's decision. Additional advance notice is only required in the unlikely event that the rate exceeds the previously noticed rate.

(4) If an operator files for a rate adjustment under Section 76.922(e)(2)(iii)(B) for the addition of required channels to the basic service tier that the operator is required by federal or local law to carry, or, if a single-tier operator files for a rate adjustment based on a mid-year channel addition allowed under Section 76.922(e)(2)(iii)(C), the franchising authority has 60 days to review the requested rate. The proposed rate shall take effect at the end of this 60-day period unless the franchising authority rejects the proposed rate as unreasonable. In order to order refunds and prospective rate reductions, the franchising authority shall be subject to the requirements described in paragraph (g)(1) of this section.

(5) Notwithstanding paragraphs (a) through (f) of this section, when the franchising authority is regulating basic service tier rates, a cable operator may increase its rates for basic service to reflect the imposition of, or increase in, franchise fees. The increased rate attributable to Commission regulatory fees or franchise fees shall be subject to subsequent review and refund if the franchising authority determines that the increase in basic tier rates exceeds the increase in regulatory fees or in franchise fees allocable to the basic tier. This determination shall be appealable to the Commission pursuant to § 76.944. When the Commission is regulating basic service tier rates pursuant to § 76.945 or cable programming service rates pursuant to § 76.960, an increase in those rates resulting from franchise fees or Commission regulatory fees shall be reviewed by the Commission pursuant to the mechanisms set forth in § 76.945.

(h) If an operator files an FCC Form 1205 for the purpose of setting the rate for a new type of equipment under Section 76.923(o), the franchising authority has 60 days to review the requested rate. The proposed rate shall take effect at the end of this 60-day period unless the franchising authority rejects the proposed rate as unreasonable.

(1) If the operator's most recent rate filing was based on the system that enables them to file up to once per quarter found at Section 76.922(d), the franchising authority must issue an accounting order before the end of the 60-day period in order to order refunds and prospective rate reductions.

(2) If the operator's most recent rate filing was based on the annual rate system at Section 76.922(e), in order to order refunds and prospective rate reductions, the franchising authority

shall be subject to the requirements described in paragraph (g)(1) of this section.

[58 FR 29753, May 21, 1993, as amended at 59 FR 17973, Apr. 15, 1994; 59 FR 53115, Oct. 21, 1994; 60 FR 52119, Oct. 5, 1995; 61 FR 18978, Apr. 30, 1996]

EFFECTIVE DATE NOTE: At 60 FR 52119, Oct. 5, 1995, in § 76.933, paragraphs (a), (b), (e), and (f) were revised; (g) and (h) were added. This amendment contains information collection and recordkeeping requirements and will not become effective until 30 days after approval has been given by the Office of Management and Budget.

§ 76.934 Small systems and small cable companies.

(a) For purposes of rules governing the reasonableness of rates charged by small systems, the size of a system or company shall be determined by reference to its size as of the date the system files with its franchising authority or the Commission the documentation necessary to qualify for the relief sought or, at the option of the company, by reference to system or company size as of the effective date of this paragraph. Where relief is dependent upon the size of both the system and the company, the operator must measure the size of both the system and the company as of the same date. A small system shall be considered affiliated with a cable company if the company holds a 20 percent or greater equity interest in the system or exercises de jure control over the system.

(b) A franchising authority that has been certified, pursuant to § 76.910, to regulate rates for basic service and associated equipment may permit a small system as defined in § 76.901 to certify that the small system's rates for basic service and associated equipment comply with § 76.922, the Commission's substantive rate regulations.

(c) Initial regulation of small systems:

(1) If certified by the Commission, a local franchising authority may provide an initial notice of regulation to a small system, as defined by § 76.901(c), on May 15, 1994. Any initial notice of regulation issued by a certified local franchising authority prior to May 15, 1994 shall be considered as having been issued on May 15, 1994.

(2) The Commission will accept complaints concerning the rates for cable programming service tiers provided by small systems on or after May 15, 1994. Any complaints filed with the Commission about the rates for a cable programming service tier provided by a small system prior to May 15, 1994 shall be considered as having been filed on May 15, 1994.

(3) A small system that receives an initial notice of regulation from its local franchising authority, or a complaint filed with the Commission for its cable programming service tier, must respond within the time periods prescribed in §§ 76.930 and 76.956.

(d) Statutory period for filing initial complaint: A complaint concerning a rate for cable programming service or associated equipment provided by a small system that was in effect on May 15, 1994 must be filed within 180 days from May 15, 1994.

(e) Petitions for extension of time: Small systems may obtain an extension of time to establish compliance with rate regulations provided they can demonstrate that timely compliance would result in severe economic hardship. Requests for extension of time should be addressed to the local franchising authority concerning basic service and equipment rates and to the Commission concerning rates for a cable programming service tier and associated equipment. The filing of a request for an extension of time to comply with the rate regulations will not toll the effective date of rate regulation for small systems or alter refund liability for rates that exceed permitted levels after May 15, 1994.

(f) *Small Systems Owned by Small Cable Companies.* Small systems owned by small cable companies shall have 90 days from their initial date of regulation on a tier to bring their rates for that tier into compliance with the requirements of Sections 76.922 and 76.923. Such systems shall have sixty days from the initial date of regulation to file FCC Forms 1200, 1205, 1210, 1211, 1215, 1220, 1225, 1230, and 1240 and any similar forms as appropriate. Rates established during the 90-day period shall not be subject to prior approval by

franchising authorities or the Commission, but shall be subject to refund pursuant to sections 76.942 and 76.961.

(g) Alternative rate regulation agreements:

(1) Local franchising authorities, certified pursuant to § 76.910, and small systems owned by small cable companies may enter into alternative rate regulation agreements affecting the basic service tier and the cable programming service tier.

(i) Small systems must file with the Commission a copy of the operative alternative rate regulation agreement within 30 days after its effective date.

(ii) [Reserved]

(2) Alternative rate regulation agreements affecting the basic service tier shall take into account the following:

(i) The rates for cable systems that are subject to effective competition;

(ii) The direct costs of obtaining, transmitting, and otherwise providing signals carried on the basic service tier, including signals and services carried on the basic service tier, pursuant to §§ 76.56 and 76.64 of this subpart, and changes in such costs;

(iii) Only such portion of the joint and common costs of obtaining, transmitting, and otherwise providing such signals as is determined to be reasonably and properly allocable to the basic service tier, and changes in such costs;

(iv) The revenues received by a cable operator from advertising from programming that is carried as part of the basic service tier or from other consideration obtained in connection with the basic service tier;

(v) The reasonably and properly allocable portion of any amount assessed as a franchise fee, tax, or charge of any kind imposed by any State or local authority on the transactions between cable operators and cable subscribers or any other fee, tax, or assessment of general applicability imposed by a governmental entity applied against cable operators or cable subscribers;

(vi) Any amount required to satisfy franchise requirements to support public, educational, or governmental channels or the use of such channels or any other services required under the franchise; and

(vii) A reasonable profit. The rate agreed to in such an alternative rate regulation agreement shall be deemed to be a reasonable rate.

(3) Alternative rate regulation agreements affecting the cable programming service tier shall take into account, among other factors, the following:

(i) The rates for similarly situated cable systems offering comparable cable programming services, taking into account similarities in facilities, regulatory and governmental costs, the number of subscribers, and other relevant factors;

(ii) The rates for cable systems, if any, that are subject to effective competition;

(iii) The history of the rates for cable programming services of the system, including the relationship of such rates to changes in general consumer prices;

(iv) The rates, as a whole, for all the cable programming, cable equipment, and cable services provided by the system, other than programming provided on a per channel or per program basis;

(v) Capital and operating costs of the cable system, including the quality and costs of the customer service provided by the cable system; and

(vi) The revenues received by a cable operator from advertising from programming that is carried as part of the service for which a rate is being established, and changes in such revenues, or from other considerations obtained in connection with the cable programming services concerned. The rate agreed to in such an alternative rate regulation agreement shall be deemed to be a reasonable rate.

(4) Certified local franchising authorities shall provide a reasonable opportunity for consideration of the views of interested parties prior to finally entering into an alternative rate regulation agreement.

(5) A basic service rate decision by a certified local franchising authority made pursuant to an alternative rate regulation agreement may be appealed by an interested party to the Commission pursuant to § 76.944 as if the decision were made according to §§ 76.922 and 76.923.

(h) Small system cost-of-service showings:

(1) At any time, a small system owned by a small cable company may establish new rates, or justify existing

rates, for regulated program services in accordance with the small cable company cost-of-service methodology described below.

(2) The maximum annual per subscriber rate permitted initially by the small cable company cost-of-service methodology shall be calculated by adding

(i) The system's annual operating expenses to

(ii) The product of its net rate base and its rate of return, and then dividing that sum by (iii) the product of

(A) The total number of channels carried on the system's basic and cable programming service tiers and

(B) The number of subscribers. The annual rate so calculated must then be divided by 12 to arrive at a monthly rate.

(3) The system shall calculate its maximum permitted rate as described in paragraph (b) of this section by completing Form 1230. The system shall file Form 1230 as follows:

(i) Where the franchising authority has been certified by the Commission to regulate the system's basic service tier rates, the system shall file Form 1230 with the franchising authority.

(ii) Where the Commission is regulating the system's basic service tier rates, the system shall file Form 1230 with the Commission.

(iii) Where a complaint about the system's cable programming service rates is filed with the Commission, the system shall file Form 1230 with the Commission.

(4) In completing Form 1230:

(i) The annual operating expenses reported by the system shall equal the system's operating expenses allocable to its basic and cable programming service tiers for the most recent 12 month period for which the system has the relevant data readily available, adjusted for known and measurable changes occurring between the end of the 12 month period and the effective date of the rate. Expenses shall include all regular expenses normally incurred by a cable operator in the provision of regulated cable service, but shall not include any lobbying expense, charitable contributions, penalties and fines paid one account of statutes or rules, or membership fees in social service, recreational or athletic clubs or associations.

(ii) The net rate base of a system is the value of all of the system's assets, less depreciation.

(iii) The rate of return claimed by the system shall reflect the operator's actual cost of debt, its cost of equity, or an assumed cost of equity, and its capital structure, or an assumed capital structure.

(iv) The number of subscribers reported by the system shall be calculated according to the most recent reliable data maintained by the system.

(v) The number of channels reported by the system shall be the number of channels it has on its basic and cable programming service tiers on the day it files Form 1230.

(vi) In establishing its operating expenses, net rate base, and reasonable rate of return, a system may rely on previously existing information such as tax forms or company financial statements, rather than create or recreate financial calculations. To the extent existing information is incomplete or otherwise insufficient to make exact calculations, the system may establish its operating expenses, net rate base, and reasonable rate of return on the basis of reasonable, good faith estimates.

(5) After the system files Form 1230, review by the franchising authority, or the Commission when appropriate, shall be governed by § 76.933, subject to the following conditions.

(i) If the maximum rate established on Form 1230 does not exceed $1.24 per channel, the rate shall be rebuttably presumed reasonable. To disallow such a rate, the franchising authority shall bear the burden of showing that the operator did not reasonably interpret and allocate its cost and expense data in deriving its annual operating expenses, its net rate base, and a reasonable rate of return.

(ii) In the course of reviewing Form 1230, a franchising authority shall be permitted to obtain from the cable operator the information necessary for judging the validity of methods used for calculating its operating costs, rate base, and rate of return. If the maximum rate established in Form 1230

does not exceed $1.24 per channel, any request for information by the franchising authority shall be limited to existing relevant documents or other data compilations and should not require the operator to create documents, although the operator should replicate responsive documents that are missing or destroyed.

(iii) A system may file with the Cable Services Bureau an interlocutory appeal from any decision by the franchising authority requesting information from the system or tolling the effective date of a system's proposed rates. The appeal may be made by an informal letter to the Chief of the Cable Services Bureau, served on the franchising authority. The franchising authority must respond within seven days of its receipt of the appeal and shall serve the operator with its response. The operator shall have four days from its receipt of the response in which to file a reply, if desired. If the maximum rate established on Form 1230 does not exceed $1.24 per channel, the burden shall be on the franchising authority to show the reasonableness of its order. If the maximum rate established on Form 1230 exceeds $1.24 per channel, the burden shall be on the operator to show the unreasonableness of the order.

(iv) In reviewing Form 1230 and issuing a decision, the franchising authority shall determine the reasonableness of the maximum rate permitted by the form, not simply the rate which the operator intends to establish.

(v) A final decision of the franchising authority with respect to the requested rate shall be subject to appeal pursuant to § 76.944. The filing of an appeal shall stay the effectiveness of the final decision pending the disposition of the appeal by the Commission. An operator may bifurcate its appeal of a final rate decision by initially limiting the scope of the appeal to the reasonableness of any request for information made by the franchising authority. The operator may defer addressing the substantive rate-setting decision of the franchising authority until after the Commission has ruled on the reasonableness of the request for information. At its option, the operator may forego the bifurcated appeal and address both the request for documentation and the substantive rate-setting decision in a single appeal. When filing an appeal from a final rate-setting decision by the franchising authority, the operator may raise as an issue the scope of the request for information only if that request was not approved by the Commission on a previous interlocutory appeal by the operator.

(6) Complaints concerning the rates charged for a cable programming services tier by a system that has elected the small cable company cost-of-service methodology may be filed pursuant to § 76.957. Upon receipt of a complaint, the Commission shall review the system's rates in accordance with the standards set forth above with respect to basic tier rates.

(7) Unless otherwise ordered by the franchising authority or the Commission, the system may establish its per channel rate at any level that does not exceed the maximum rate permitted by Form 1230, provided that the system has given the required written notice to subscribers. If the system establishes its per channel rate at a level that is less than the maximum amount permitted by the form, it may increase rates at any time thereafter to the maximum amount upon providing the required written notice to subscribers.

(8) After determining the maximum rate permitted by Form 1230, the system may adjust that rate in accordance with this paragraph. Electing to adjust rates pursuant to one of the options set forth below shall not prohibit the system from electing a different option when adjusting rates thereafter. The system may adjust its maximum permitted rate without adjusting the actual rate it charges subscribers.

(i) The system may adjust its maximum permitted rate in accordance with the price cap requirements set forth in § 76.922(d).

(ii) The system may adjust its maximum permitted rate in accordance with the requirements set forth in § 76.922(e) for changes in the number of channels on regulated tiers. For any system that files Form 1230, no rate adjustments made prior to the effective date of this rule shall be charged against the system's Operator's Cap and License Reserve Fee described in § 76.922(e)(3).

(iii) The system may adjust its maximum permitted rate by filing a new Form 1230 that permits a higher rate.

(iv) The system may adjust its maximum permitted rate by complying with any of the options set forth in § 76.922(b)(1) for which it qualifies or under an alternative rate agreement as provided in paragraph (g) of this section.

(9) In any rate proceeding before a franchising authority in which a final decision had not been issued as of June 5, 1995, a small system owned by a small cable company may elect the form of rate regulation set forth in this section to justify the rates that are the subject of the proceeding, if the system and affiliated company were a small system and small company respectively as of the effective date of this rule and as of the period during which the disputed rates were in effect. This rule shall not affect the validity of a final rate decision made by a franchising authority before June 5, 1995.

(10) In any proceeding before the Commission involving a cable programming services tier complaint in which a final decision had not been issued as of June 5, 1995, a small system owned by a small cable company may elect the form of rate regulation set forth in this section to justify rates charged prior to the adoption of this rule and to establish new rates. For purposes of this paragraph, a decision shall not be deemed final until the operator has exhausted or is time-barred from pursuing any avenue of appeal, review, or reconsideration.

[60 FR 35865, July 12, 1995, as amended at 60 FR 52120, Oct. 5, 1995]

EFFECTIVE DATE NOTE: At 60 FR 52120, Oct. 5, 1995, in § 76.934, paragraph (f) was revised. Paragraph (f) contains information collection and recordkeeping requirements and will not become effective until 30 days after approval has been given by the Office of Management and Budget.

§ 76.935 Participation of interested parties.

In order to regulate basic tier rates or associated equipment costs, a franchising authority must have procedural laws or regulations applicable to rate regulation proceedings that provide a reasonable opportunity for consideration of the views of interested parties. Such rules must take into account the 30, 120, or 180-day time periods that franchising authorities have to review rates under § 76.933.

§ 76.936 Written decision.

(a) A franchising authority must issue a written decision in a rate-making proceeding whenever it disapproves an initial rate for the basic service tier or associated equipment in whole or in part, disapproves a request for a rate increase in whole or in part, or approves a request for an increase in whole or in part over the objections of interested parties. A franchising authority is not required to issue a written decision that approves an unopposed existing or proposed rate for the basic service tier or associated equipment.

(b) Public notice must be given of any written decision required in paragraph (a) of this section, including releasing the text of any written decision to the public.

§ 76.937 Burden of proof.

(a) A cable operator has the burden of proving that its existing or proposed rates for basic service and associated equipment comply with 47 U.S.C. 543, and §§ 76.922 and 76.923.

(b) For an existing or a proposed rate for basic tier service or associated equipment that is within the permitted tier charge and actual cost of equipment as set forth in §§ 76.922 and 76.923, the cable operator must submit the appropriate FCC form.

(c) For an existing or a proposed rate for basic tier service that exceeds the permitted tier charge as set forth in §§ 76.922 and 76.923, the cable operator must submit a cost-of-service showing to justify the proposed rate.

(d) A franchising authority or the Commission may find a cable operator that does not attempt to demonstrate the reasonableness of its rates in default and, using the best information available, enter an order finding the cable operator's rates unreasonable and mandating appropriate relief, as specified in §§ 76.940, 76.941, and 76.942.

(e) A franchising authority or the Commission may order a cable operator that has filed a facially incomplete

form to file supplemental information, and the franchising authority's deadline to rule on the reasonableness of the proposed rates will be tolled pending the receipt of such information. A franchising authority may set reasonable deadlines for the filing of such information, and may find the cable operator in default and mandate appropriate relief, pursuant to paragraph (d) of this section, for the cable operator's failure to comply with the deadline or otherwise provide complete information in good faith.

[58 FR 29753, May 21, 1993, as amended at 59 FR 17973, Apr. 15, 1994]

§ 76.938 Proprietary information.

A franchising authority may require the production of proprietary information to make a rate determination in those cases where cable operators have submitted initial rates, or have proposed rate increases, pursuant to an FCC Form 393 (and/or FCC Forms 1200/1205) filing or a cost-of-service showing. The franchising authority shall state a justification for each item of information requested and, where related to an FCC Form 393 (and/or FCC Forms 1200/1205) filing, indicate the question or section of the form to which the request specifically relates. Upon request to the franchising authority, the parties to a rate proceeding shall have access to such information, subject to the franchising authority's procedures governing non-disclosure by the parties. Public access to such proprietary information shall be governed by applicable state or local law.

[59 FR 17973, Apr. 15, 1994]

§ 76.939 Truthful written statements and responses to requests of franchising authority.

Cable operators shall comply with franchising authorities' and the Commission's requests for information, orders, and decisions. No cable operator shall, in any information submitted to a franchising authority or the Commission in making a rate determination pursuant to an FCC Form 393 (and/or FCC Forms 1200/1205) filing or a cost-of-service showing, make any misrepresentation or willful material omission bearing on any matter within the franchising authority's or the Commission's jurisdiction.

[59 FR 17974, Apr. 15, 1994]

§ 76.940 Prospective rate reduction.

A franchising authority may order a cable operator to implement a reduction in basic service tier or associated equipment rates where necessary to bring rates into compliance with the standards set forth in §§ 76.922 and 76.923

§ 76.941 Rate prescription.

A franchising authority may prescribe a reasonable rate for the basic service tier or associated equipment after it determines that a proposed rate is unreasonable.

§ 76.942 Refunds.

(a) A franchising authority (or the Commission, pursuant to § 76.945) may order a cable operator to refund to subscribers that portion of previously paid rates determined to be in excess of the permitted tier charge or above the actual cost of equipment, unless the operator has submitted a cost-of-service showing which justifies the rate charged as reasonable. An operator's liability for refunds shall be based on the difference between the old bundled rates and the sum of the new unbundled program service charge(s) and the new unbundled equipment charge(s). Where an operator was charging separately for program services and equipment but the rates were not in compliance with the Commission's rules, the operator's refund liability shall be based on the difference between the sum of the old charges and the sum of the new, unbundled program service and equipment charges. Before ordering a cable operator to refund previously paid rates to subscribers, a franchising authority (or the Commission) must give the operator notice and opportunity to comment.

(b) An operator's liability for refunds in limited to a one-year period, *except that* an operator that fails to comply with a valid rate order issued by a franchising authority or the Commission shall be liable for refunds commencing from the effective date of such order

until such time as it complies with such order.

(c) The refund period shall run as follows:

(1) From the date the operator implements a prospective rate reduction back in time to September 1, 1993, or one year, whichever is shorter.

(2) From the date a franchising authority issues an accounting order pursuant to §76.933(c), to the date a prospective rate reduction is issued, then back in time from the date of the accounting order to the effective date of the rules; however, the total refund period shall not exceed one year from the date of the accounting order.

(3) Refund liability shall be calculated on the reasonableness of the rates as determined by the rules in effect during the period under review by the franchising authority or the Commission.

(d) The cable operator, in its discretion, may implement a refund in the following manner:

(1) By returning overcharges to those subscribers who actually paid the overcharges, either through direct payment or as a specifically identified credit to those subscribers' bills; or

(2) By means of a prospective percentage reduction in the rates for the basic service tier or associated equipment to cover the cumulative overcharge. This shall be reflected as a specifically identified, one-time credit on prospective bills to the class of subscribers that currently subscribe to the cable system.

(e) Refunds shall include interest computed at applicable rates published by the Internal Revenue Service for tax refunds and additional tax payments.

(f) Once an operator has implemented a rate refund to subscribers in accordance with a refund order by the franchising authority (or the Commission, pursuant to paragraph (a) of this section), the franchising authority must return to the cable operator an amount equal to that portion of the franchise fee that was paid on the total amount of the refund to subscribers. The franchising authority must promptly return the franchise fee overcharge either in an immediate lump sum payment, or the cable operator may deduct it from the cable system's future franchise fee payments. The franchising authority has the discretion to determine a reasonable repayment period, but interest shall accrue on any outstanding portion of the franchise fee starting on the date the operator has completed implementation of the refund order. In determining the amount of the refund, the franchise fee overcharge should be offset against franchise fees the operator holds on behalf of the franchising authority for lump sum payment. The interest rate on any refund owed to the operator presumptively shall be 11.25%.

[58 FR 29753, May 21, 1993, as amended at 58 FR 46736, Sept. 2, 1993; 59 FR 17974, Apr. 15, 1994; 60 FR 52120, Oct. 5, 1995]

EFFECTIVE DATE NOTE: At 60 FR 52120, Oct. 5, 1995, in §76.942, paragraph (f) was revised. Paragraph (f) contains information collection and recordkeeping requirements and will not beecome effective until 30 days after approval has been given by the Office of Management and Budget.

§76.943 Fines.

(a) A franchising authority may impose fines or monetary forfeitures on a cable operator that does not comply with a rate decision or refund order directed specifically at the cable operator, provided the franchising authority has such power under state or local laws.

(b) If a cable operator willfully fails to comply with the terms of any franchising authority's order, decision, or request for information, as required by §76.939, the Commission may, in addition to other remedies, impose a forfeiture pursuant to section 503(b) of the Communications Act of 1934, as amended, 47 U.S.C. 503(b).

(c) A cable operator shall not be subject to forfeiture because its rate for basic service or equipment is determined to be unreasonable.

[58 FR 29753, May 21, 1993, as amended at 59 FR 17974, Apr. 15, 1994]

§76.944 Commission review of franchising authority decisions on rates for the basic service tier and associated equipment.

(a) The Commission shall be the sole forum for appeals of decisions by franchising authorities on rates for the

basic service tier or associated equipment involving whether or not a franchising authority has acted consistently with the Cable Act or §§ 76.922 and 76.923. Appeals of ratemaking decisions by franchising authorities that do not depend upon determining whether a franchising authority has acted consistently with the Cable Act or §§ 76.922 and 76.923, may be heard in state or local courts.

(b) Any participant at the franchising authority level in a ratemaking proceeding may file an appeal of the franchising authority's decision with the Commission within 30 days of release of the text of the franchising authority's decision as computed under § 1.4(b) of this chapter. Appeals shall be served on the franchising authority or other authority that issued the rate decision. Where the state is the appropriate decisionmaking authority, the state shall forward a copy of the appeal to the appropriate local official(s). Oppositions may be filed within 15 days after the appeals is filed, and must be served on the party(ies) appealing the rate decision. Replies may be filed 7 days after the last day for oppositions and shall be served on the parties to the proceeding.

(c) An operator that uses the annual rate adjustment method under Section 76.922(e) may include in its next true up under Section 76.922(e)(3) any amounts to which the operator would have been entitled but for a franchising authority decision that is not upheld on appeal.

[58 FR 29753, May 21, 1993, as amended at 59 FR 17974, Apr. 15, 1994; 60 FR 52121, Oct. 5, 1995]

EFFECTIVE DATE NOTE: At 60 FR 52121, Oct. 5, 1995, in § 76.944, paragraph (c) was added. Paragraph (c) contains information collection and recordkeeping requirements and will not become effective until 30 days after approval has been given by the Office of Management and Budget.

§ 76.945 Procedures for Commission review of basic service rates.

(a) Upon assumption of rate regulation authority, the Commission will notify the cable operator and require the cable operator to file its basic rate schedule with the Commission within 30 days, with a copy to the local franchising authority.

(b) Basic service and equipment rate schedule filings for existing rates or proposed rate increases (including increases in the baseline channel change that results from reductions in the number of channels in a tier) must use the official FCC form, a copy thereof, or a copy generated by FCC software. Failure to file on the official FCC form or a copy may result in the imposition of sanctions specified in § 76.937(d). Cable operators seeking to justify the reasonableness of existing or proposed rates above the permitted tier rate must submit a cost-of-service showing sufficient to support a finding that the rates are reasonable.

(c) Filings proposing annual adjustments or rates within the rates regulation standards in §§ 76.922 and 76.923, must be made 30 days prior to the proposed effective date and can become effective on the proposed effective date unless the Commission issues an order deferring the effective date or denying the rate proposal. Petitions opposing such filings must be filed within 15 days of public notice of the filing by the cable operator and be accompanied by a certificate that service was made on the cable operator and the local franchising authority. The cable operator may file an opposition within five days of filing of the petition, certifying to service on both the petitioner and the local franchising authority.

(d) Filings proposing a rate not within the rate regulation standards of §§ 76.922 and 76.923, must be made 90 days before the requested effective date. Petitions opposing such filings must be filed within 30 days of public notice of the filing, and be accompanied by a certificate that service was made on the cable operator and the local franchising authority. The cable operator may file an opposition within 10 days of the filing of the petition, and certifying that service was made on the petitioner and the local franchising authority.

[58 FR 29753, May 21, 1993, as amended at 59 FR 17974, Apr. 15, 1994]

§ 76.946 Advertising of rates.

Cable operators that advertise rates for basic service and cable programming service tiers shall be required to advertise rates that include all costs

and fees. Cable systems that cover multiple franchise areas having differing franchise fees or other franchise costs, different channel line-ups, or different rate structures may advertise a complete range of fees without specific identification of the rate for each individual area. In such circumstances, the operator may advertise a ''fee plus'' rate that indicates the core rate plus the range of possible additions, depending on the particular location of the subscriber.

[59 FR 17974, Apr. 15, 1994]

§ 76.950 Complaints regarding cable programming service rates.

(a) A franchising authority may file with the Commission a complaint challenging the reasonableness of its cable operator's rate for cable programming service, or the reasonableness of the cable operator's charges for installation or rental of equipment used for the receipt of cable programming service. The franchise authority may file a complaint with the Commission only upon receipt of more than one subscriber complaint made to the franchise authority within 90 days after the effective date of the challenged rate increase.

(b) The Commission shall not review any complaint with respect to cable programming services filed after March 31, 1999.

[61 FR 18979, Apr. 30, 1996]

§ 76.951 Standard complaint form; other filing requirements.

(a) Any complaint regarding a cable operator's rate for cable programming service or associated equipment must be filed using standard complaint form, FCC 329.

(b) The following information must be provided on the standard complaint form:

(1) The name, mailing address and phone number of the franchising authority that is filing the complaint;

(2) The name, mailing address, and FCC community unit identifier of the relevant cable operator;

(3) A description of the cable programming service or associated equipment involved and, if applicable, how the service or associated equipment has changed;

(4) The current rate for the cable programming service or associated equipment at issue and, if the complainant is challenging the reasonableness of a rate increase, the most recent rate for the service or associated equipment immediately prior to the rate increase;

(5) If the complainant is filing a corrected complaint, an indication of the date the complainant filed the prior complaint and the date the complainant received notification from the Commission that the prior complaint was defective;

(6) A certification that a copy of the complaint, including all attachments, is being served contemporaneously via certified mail on the cable operator;

(7) An indication that the complainant franchising authority received more than one subscriber complaint within 90 days of the operator's imposition of the rate in question; and

(8) A certification that, to the best of the complainant's knowledge, the information provided on the form is true and correct.

[61 FR 18979, Apr. 30, 1996]

§ 76.952 Information to be provided by cable operator on monthly subscriber bills.

All cable operators must provide the following information to subscribers on monthly bills:

(a) The name, mailing address and phone number of the local franchising authority and the Cable Services Bureau of this Commission.

(b) The FCC community unit identifier for the cable system.

[58 FR 29753, May 21, 1993, as amended at 59 FR 17960, Apr. 15, 1994]

§ 76.953 Limitation on filing a complaint.

(a) *Complaint regarding a rate change.* A complaint alleging an unreasonable rate for cable programming service or associated equipment may be filed against a cable operator only in the event of a rate change, including an increase or decrease in rates, or a change in rates that results from a change in a system's service tiers. A rate change may involve an implicit rate increase (such as deleting channels from a tier

without a corresponding lowering of the rate for that tier). A complaint regarding a rate change for cable programming service or associated equipment may be filed against a cable operator only in the event of a rate change.

(b) Late-filed complaints will be dismissed with prejudice.

[58 FR 29753, May 21, 1993, as amended at 58 FR 46736, Sept. 2, 1993; 59 FR 17960, 17974, Apr. 15, 1994; 60 FR 35868, July 12, 1995; 61 FR 18979, Apr. 30, 1996]

§ 76.954 Initial review of complaint; minimum showing requirement; dismissal of defective complaints.

(a) The Commission will conduct an initial review of a complaint to determine if it meets the minimum showing required to allow the complaint to go forward. The minimum showing shall be satisfied if the complaint is filed using the standard complaint form described in § 76.951 and includes all information and attachments required by that form. A complainant will not be required, as part of the minimum showing, to provide the underlying information and calculations necessary to judge the cable programming service rate in question against the Commission's rate standards.

(b) A complaint that does not meet the minimum showing requirement described in paragraph (a) of this section will be considered defective. A defective complaint will be dismissed without prejudice to filing a corrected complaint as provided by § 76.955. The Commission will notify the complainant by mail of the dismissal. The filing of a complaint on the applicable form, but which is otherwise defective, will toll the limitation period established by § 76.953.

§ 76.955 Additional opportunity to file corrected complaint.

(a) If the Commission dismisses an initial complaint without prejudice pursuant to § 76.954, the complainant shall have one additional opportunity to cure the defect and file a corrected complaint.

(b) For a complaint filed on the applicable form but is otherwise defective, the complainant must cure the defect and file a corrected complaint with the Commission within 30 days from the date of the Commission's dismissal notice. Failure to cure the defect and file a corrected complaint within this time period will result in dismissal of the complaint with prejudice.

§ 76.956 Cable operator response.

(a) Unless the Commission notifies a cable operator to the contrary, the cable operator must file with the Commission a response to the complaint filed on the applicable form, within 30 days of the date of service of the complaint. The response shall indicate when service occurred. Service by mail is complete upon mailing. See § 1.47(f) of this chapter. The response shall include the information required by the appropriate FCC Form, including rate cards, channel line-ups, and an explanation of any discrepancy in the figures provided in these documents and the rate filing. The cable operator must serve its response on the complainant via first class mail.

(b) The burden shall be on the cable operator to prove that the service rate or equipment charge in question is not unreasonable. The cable operator may carry its burden in the following manner:

(1) For a service rate at or below the permitted level, by providing information and calculations that demonstrate that the rate in question falls at or below the permitted level;

(2) For a service rate that exceeds the permitted level;

(i) By providing proof that the cable system has reduced the rate for the cable programming service at issue to a level at or below the permitted level; or

(ii) By providing detailed cost-based information that demonstrates that the rate in question is reasonable despite the fact that it exceeds the permitted level.

(3) For a charge for equipment installation or rental, by providing information that demonstrates that the charge is based on the cable operator's actual cost.

(c) In addition to responding to the merits of a complaint, the cable operator may also move for dismissal of the complaint for failure to meet the minimum showing requirement. Any such

motion for dismissal must state with particularity the reasons the cable operator believes the complaint is defective and shall not relieve the cable operator of its obligation to respond to the merits of the complaint.

(d) A cable operator may file a consolidated response to multiple complaints regarding the identical rate or rate increase. A consolidated response must be filed within 30 days from the date of service of the first complaint received, unless the Commission notifies the cable operator to the contrary. A cable operator may amend a consolidated response to address new issues raised by complaints received after the cable operator's initial response.

(e) A cable operator that fails to file and serve a response to a valid complaint may be deemed in default. If the Commission deems a cable operator in default, the Commission may enter an order against the cable operator finding the rate to be unreasonable and mandating appropriate relief.

(f) A cable operator need not respond to any complaint that is:

(1) Not filed on the applicable form; or

(2) That the Commission determined is defective *and* has so notified the cable operator.

[58 FR 29753, May 21, 1993, as amended at 59 FR 17975, Apr. 15, 1994; 61 FR 18979, Apr. 30, 1996]

§ 76.957 Commission adjudication of the complaint.

The Commission will consider the complaint and the cable operator's response and then determine by written decision whether the rate for the cable programming service or associated equipment is unreasonable or not. In making its determination, the Commission will only review the amount of the rate increase subject to the complaint. If the Commission determines that the rate change in question is unreasonable, it will grant the complaint and may order appropriate relief, including, but not limited to, prospective rate reductions and refunds. If it determines that the rate in question is reasonable, the Commission will deny the complaint.

[60 FR 52121, Oct. 5, 1995]

EFFECTIVE DATE NOTE: At 60 FR 52121, Oct. 5, 1995, § 76.957 was revised. This section contains information collection and recordkeeping requirements and will not become effective until 30 days after approval has been given by the Office of Management and Budget.

§ 76.958 Notice to Commission of rate change while complaint pending.

A regulated cable operator that proposes to change any rate while a cable service tier complaint is pending before the Commission shall provide the Commission at least 30 days notice of the proposed change.

[59 FR 17960, Apr. 15, 1994]

§ 76.960 Prospective rate reductions.

Upon a finding that a rate for cable programming service or associated equipment is unreasonable, the Commission may order the cable operator to implement a prospective rate reduction to the class of customers subscribing to the cable programming service at issue.

(a) For an operator that adjusts its rates using the quarterly rate adjustment system pursuant to Section 76.922(d), the Commission's decision regarding a prospective rate reduction shall remain binding on the cable operator for one year unless the Commission specifies otherwise.

(b) For an operator that adjusts its rates using the annual rate adjustment system pursuant to Section 76.922(e), for one year following the Commission's decision, the operator shall provide the Commission at least 30 days' notice of any proposed change.

[60 FR 52121, Oct. 5, 1995]

EFFECTIVE DATE NOTE: At 60 FR 52121, Oct. 5, 1995, § 76.960 was revised. This section contains information collection and recordkeeping requirements and will not become effective until 30 days after approval has been given by the Office of Management and Budget.

§ 76.961 Refunds.

(a) Upon a finding that a rate for cable programming service or associated equipment is unreasonable, the Commission may order the cable operator to refund to subscribers that portion of previously paid rates which is deemed unreasonable.

(b) The cumulative refund due subscribers shall be calculated from the date a valid complaint is filed until the date a cable operator implements a prospective rate reduction as ordered by the Commission pursuant to § 76.960. The Commission shall calculate refund liability according to the rules in effect for determining the reasonableness of the rates for the period of time covered by the complaint.

(c) The cable operator, in its discretion, may implement a refund in the following manner:

(1) By returning overcharges to those subscribers who actually paid the overcharges, either through direct payment or as a specifically identified, one-time credit to those subscribers' bills; or

(2) By means of a prospective percentage reduction in the unreasonable cable programming service rate or equipment charge to cover the cumulative overcharge. This shall be reflected as a specifically identified, one-time credit on prospective bills to the class of subscribers that currently subscribe to the cable programming service or associated equipment at issue.

(d) Refunds shall include interest computed at applicable rates published by the Internal Revenue Service for tax refunds and additional tax payments. Interest shall accrue from the date a valid complaint is filed until the refund issues.

(e) At the time the Commission orders a cable operator to pay refunds to subscribers, the franchising authority must return to the cable operator an amount equal to that portion of the franchise fee that was paid on the total amount of the refund to subscribers. The franchising authority may return the franchise fee overcharge either in an immediate lump sum payment, or the cable operator may deduct it from the cable system's future franchise fee payments.

[58 FR 29753, May 21, 1993, as amended at 59 FR 17975, Apr. 15, 1994]

§ 76.962 Implementation and certification of compliance.

(a) *Implementation.* A cable operator must implement remedial requirements, including prospective rate reductions and refunds, within 60 days from the date the Commission releases an order mandating a remedy.

(b) *Certification of compliance.* A cable operator must certify to the Commission its compliance with any Commission order mandating remedial requirements. Such certification shall:

(1) Be filed with the Commission within 90 days from the date the Commission releases an order mandating a remedy;

(2) Reference the applicable Commission order;

(3) State that the cable operator has complied fully with all provisions of the Commission's order;

(4) Include a description of the precise measures the cable operator has taken to implement the remedies ordered by the Commission; and

(5) Be signed by an authorized representative of the cable operator.

§ 76.963 Forfeiture.

(a) If any cable operator willfully fails to comply with the terms of any Commission order, including an order mandating remedial requirements after a finding of unreasonable cable programming service or equipment rates, or any Commission rule, the Commission may, in addition to other remedies, impose a forfeiture pursuant to Section 503(b) of the Communications Act of 1934, as amended, 47 U.S.C. 503(b).

(b) A cable operator shall not be subject to forfeiture because its rate for cable programming service or equipment is determined to be unreasonable.

§ 76.964 Written notification of changes in rates and services.

(a) In addition to the requirement of § 76.309(c)(3)(i)(B) regarding advance notification to customers of any changes in rates, programming services or channel positions, cable systems shall give 30 days written notice to both subscribers and local franchising authorities before implementing any rate or service change. Such notice shall state the precise amount of any rate change and briefly explain in readily understandable fashion the cause of the rate change (e.g., inflation, changes in external costs or the addition/deletion of channels). When the change involves the addition or deletion of channels,

each channel added or deleted must be separately identified. Notices to subscribers shall inform them of their right to file complaints about changes in cable programming service tier rates and services, shall state that the subscriber may file the complaint within 90 days of the effective date of the rate change, and shall provide the address and phone number of the local franchising authority.

(b) To the extent the operator is required to provide notice of service and rate changes to subscribers, the operator may provide such notice using any reasonable means at its sole discretion.

(c) Notwithstanding any other provision of Part 76, a cable operator shall not be required to provide prior notice of any rate change that is the result of a regulatory fee, franchise fee, or any other fee, tax, assessment, or charge of any kind imposed by any Federal agency, State, or franchising authority on the transaction between the operator and the subscriber.

[61 FR 18979, Apr. 30, 1996]

§76.970 Commercial leased access rates.

(a) Cable operators shall designate channel capacity for commercial use by persons unaffiliated with the operator in accordance with the requirement of 47 U.S.C. 532. For purposes of 47 U.S.C. 532(b)(1)(A) and (B), only those channels that must be carried pursuant to 47 U.S.C. 534 and 535 qualify as channels that are required for use by Federal law or regulation. For cable systems with 100 or fewer channels, channels that cannot be used due to technical and safety regulations of the Federal Government (e.g., aeronautical channels) shall be excluded when calculating the set-aside requirement.

(b) In determining whether a party is an ''affiliate'' for purposes of commercial leased access, the definitions contained in the notes to §76.501 shall be used, provided, however, that the single majority shareholder provision of Note 2(b) to §76.501 and the limited partner insulation provisions of Note 2(g) to §76.501 shall not apply, and the provisions of Note 2(a) to §76.501 regarding five (5) percent interest shall include all voting or nonvoting stock or limited partnership equity interest of five (5) percent or more. Actual working control, in whatever manner exercised, shall also be deemed a cognizable interest.

(c) The maximum commercial leased access rate that a cable operator may charge for full-time channel placement on a tier exceeding a subscriber penetration of 50 percent is the average implicit fee for full-time channel placement on all such tier(s).

(d) The average implicit fee identified in paragraph (c) of this section for a full-time channel on a tier with a subscriber penetration over 50 percent shall be calculated by first calculating the total amount the operator receives in subscriber revenue per month for the programming on all such tier(s), and then subtracting the total amount it pays in programming costs per month for such tier(s) (the ''total implicit fee calculation''). A weighting scheme that accounts for differences in the number of subscribers and channels on all such tier(s) must be used to determine how much of the total implicit fee calculation will be recovered from any particular tier. The weighting scheme is determined in two steps. First, the number of subscribers is multiplied by the number of channels (the result is the number of ''subscriber-channels'') on each tier with subscriber penetration over 50 percent. For instance, a tier with 10 channels and 1,000 subscribers would have a total of 10,000 subscriber-channels. Second, the subscriber-channels on each of these tiers is divided by the total subscriber-channels on all such tiers. Given the percent of subscriber-channels for the particular tier, the implicit fee for the tier is computed by multiplying the subscriber-channel percentage for the tier by the total implicit fee calculation. Finally, to calculate the average implicit fee per channel, the implicit fee for the tier must be divided by the corresponding number of channels on the tier. The final result is the maximum rate per month that the operator may charge the leased access programmer for a full-time channel on that particular tier. The average implicit fee shall be calculated by using all channels carried on any tier exceeding 50 percent

subscriber penetration (including channels devoted to affiliated programming, must-carry and public, educational and government access channels). In the event of an agreement to lease capacity on a tier with less than 50 percent penetration, the average implicit fee should be determined on the basis of subscriber revenues and programming costs for that tier alone. The license fees for affiliated channels used in determining the average implicit fee shall reflect the prevailing company prices offered in the marketplace to third parties. If a prevailing company price does not exist, the license fee for that programming shall be priced at the programmer's cost or the fair market value, whichever is lower. The average implicit fee shall be based on contracts in effect in the previous calendar year. The implicit fee for a contracted service may not include fees, stated or implied, for services other than the provision of channel capacity (e.g., billing and collection, marketing, or studio services).

(e) The maximum commercial leased access rate that a cable operator may charge for full-time channel placement as an a la carte service is the highest implicit fee on an aggregate basis for full-time channel placement as an a la carte service.

(f) The highest implicit fee on an aggregate basis for full-time channel placement as an a la carte service shall be calculated by first determining the total amount received by the operator in subscriber revenue per month for each non-leased access a la carte channel on its system (including affiliated a la carte channels) and deducting the total amount paid by the operator in programming costs (including license and copyright fees) per month for programming on such individual channels. This calculation will result in implicit fees determined on an aggregate basis, and the highest of these implicit fees shall be the maximum rate per month that the operator may charge the leased access programmer for placement as a full-time a la carte channel. The license fees for affiliated channels used in determining the highest implicit fee shall reflect the prevailing company prices offered in the marketplace to third parties. If a prevailing company price does not exist, the license fee for that programming shall be priced at the programmer's cost or the fair market value, whichever is lower. The highest implicit fee shall be based on contracts in effect in the previous calendar year. The implicit fee for a contracted service may not include fees, stated or implied, for services other than the provision of channel capacity (e.g., billing and collection, marketing, or studio services). Any subscriber revenue received by a cable operator for an a la carte leased access service shall be passed through to the leased access programmer.

(g) The maximum commercial leased access rate that a cable operator may charge for part-time channel placement shall be determined by either prorating the maximum full-time rate uniformly, or by developing a schedule of and applying different rates for different times of the day, provided that the total of the rates for a 24-hour period does not exceed the maximum daily leased access rate.

(h)(1) Cable system operators shall provide prospective leased access programmers with the following information within 15 calendar days of the date on which a request for leased access information is made:

(i) How much of the operator's leased access set-aside capacity is available;

(ii) A complete schedule of the operator's full-time and part-time leased access rates;

(iii) Rates associated with technical and studio costs; and

(iv) If specifically requested, a sample leased access contract.

(2) Operators of systems subject to small system relief shall provide the information required in paragraph (h)(1) of this section within 30 calendar days of a bona fide request from a prospective leased access programmer. For these purposes, systems subject to small system relief are systems that either:

(i) Qualify as small systems under § 76.901(c) and are owned by a small cable company as defined under § 76.901(e); or

(ii) Have been granted special relief.

(3) Bona fide requests, as used in this section, are defined as requests from potential leased access programmers

that have provided the following information:

(i) The desired length of a contract term;

(ii) The time slot desired;

(iii) The anticipated commencement date for carriage; and

(iv) The nature of the programming.

(4) All requests for leased access must be made in writing and must specify the date on which the request was sent to the operator.

(5) Operators shall maintain, for Commission inspection, sufficient supporting documentation to justify the scheduled rates, including supporting contracts, calculations of the implicit fees, and justifications for all adjustments.

(i) Cable operators are permitted to negotiate rates below the maximum rates permitted in paragraphs (c) through (g) of this section.

[58 FR 29753, May 21, 1993, as amended at 61 FR 16400, Apr. 15, 1996; 62 FR 11380, Mar. 12, 1997]

§ 76.971 Commercial leased access terms and conditions.

(a)(1) Cable operators shall place leased access programmers that request access to a tier actually used by most subscribers on any tier that has a subscriber penetration of more than 50 percent, unless there are technical or other compelling reasons for denying access to such tiers.

(2) Cable operators shall be permitted to make reasonable selections when placing leased access channels at specific channel locations. The Commission will evaluate disputes involving channel placement on a case-by-case basis and will consider any evidence that an operator has acted unreasonably in this regard.

(3) On systems with available leased access capacity sufficient to satisfy current leased access demand, cable operators shall be required to accommodate as expeditiously as possible all leased access requests for programming that is not obscene or indecent. On systems with insufficient available leased access capacity to satisfy current leased access demand, cable operators shall be permitted to select from among leased access programmers using objective, content-neutral criteria.

(4) Cable operators that have not satisfied their statutory leased access requirements shall accommodate part-time leased access requests as set forth in this paragraph. Cable operators shall not be required to accept leases for less than one half-hour of programming. Cable operators may accommodate part-time leased access requests by opening additional channels for part-time use or providing comparable time slots on channels currently carrying leased or non-leased access programming. The comparability of time slots shall be determined by objective factors such as day of the week, time of day, and audience share. A cable operator that is unable to provide a comparable time slot to accommodate a part-time programming request shall be required to open an additional channel for part-time use unless such operator has at least one channel designated for part-time leased access use that is programmed with less than 18 hours of part-time leased access programming every day. However, regardless of the availability of partially programmed part-time leased access channels, a cable operator shall be required to open an additional channel to accommodate any request for part-time leased access for at least eight contiguous hours, for the same time period every day, for at least a year. Once an operator has opened a vacant channel to accommodate such a request, our other leased access rules apply. If, however, the operator has accommodated such a request on a channel already carrying an existing full-time non-leased access programmer, the operator does not have to accommodate other part-time requests of less than eight hours on that channel until all other existing part-time leased access channels are substantially filled with leased access programming.

(b) Cable operators may not apply programming production standards to leased access that are any higher than those applied to public, educational and governmental access channels.

(c) Cable operators are required to provide unaffiliated leased access users the minimal level of technical support necessary for users to present their

material on the air, and may not unreasonably refuse to cooperate with a leased access user in order to prevent that user from obtaining channel capacity. Leased access users must reimburse operators for the reasonable cost of any technical support actually provided by the operator that is beyond that provided for non-leased access programmers on the system. A cable operator may charge leased access programmers for the use of technical equipment that is provided at no charge for public, educational and governmental access programming, provided that the operator's franchise agreement requires it to provide the equipment and does not preclude such use, and the equipment is not being used for any other non-leased access programming. Cable operators that are required to purchase technical equipment in order to accommodate a leased access programmer shall have the option of either requiring the leased access programmer to pay the full purchase price of the equipment, or purchasing the equipment and leasing it to the leased access programmer at a reasonable rate. Leased access programmers that are required to pay the full purchase price of additional equipment shall have all rights of ownership associated with the equipment under applicable state and local law.

(d) Cable operators may require reasonable security deposits or other assurances from users who are unable to prepay in full for access to leased commercial channels. Cable operators may impose reasonable insurance requirements on leased access programmers. Cable operators shall bear the burden of proof in establishing reasonableness.

(e) Cable operators may not set terms and conditions for commercial leased access use based on content, *except:*

(1) To the limited extent necessary to establish a reasonable price for the commercial use of designated channel capacity by an unaffiliated person; or

(2) To comply with 47 U.S.C. 532 (h), (j) and § 76.701.

(f)(1) A cable operator shall provide billing and collection services for commercial leased access cable programmers, unless the operator demonstrates the existence of third party billing and collection services which in terms of cost and accessibility, offer leased access programmers an alternative substantially equivalent to that offered to comparable non-leased access programmers.

(2) If an operator can make the showing required in paragraph (f)(1) of this section, it must, to the extent technically feasible make available data necessary to enable a third party to bill and collect for the leased access user.

(g) Cable operators shall not unreasonably limit the length of leased access contracts. The termination provisions of leased access contracts shall be commercially reasonable and may not allow operators to terminate leased access contracts without a reasonable basis.

(h) Cable operators may not prohibit the resale of leased access capacity to persons unaffiliated with the operator, but may provide in their leased access contracts that any sublessees will be subject to the non-price terms and conditions that apply to the initial lessee, and that, if the capacity is resold, the rate for the capacity shall be the maximum permissible rate.

[58 FR 29753, May 21, 1993, as amended at 61 FR 16401, Apr. 15, 1996; 62 FR 11381, Mar. 12, 1997]

§ 76.975 Commercial leased access dispute resolution.

(a) Any person aggrieved by the failure or refusal of a cable operator to make commercial channel capacity available in accordance with the provisions of Title VI of the Communications Act may bring an action in the district court of the United States for the Judicial district in which the cable system is located to compel that such capacity be made available.

(b)(1) Any person aggrieved by the failure or refusal of a cable operator to make commercial channel capacity available or to charge rates for such capacity in accordance with the provisions of Title VI of the Communications Act, or our implementing regulations, §§ 76.970 and 76.971, may file a petition for relief with the Commission. Persons alleging that a cable operator's leased access rate is unreasonable must receive a determination of the cable operator's maximum permitted

rate from an independent accountant prior to filing a petition for relief with the Commission.

(2) Parties to a dispute over leased access rates shall have five business days to agree on a mutually acceptable accountant from the date on which the programmer provides the cable operator with a written request for a review of its leased access rates. Parties that fail to agree on a mutually acceptable accountant within five business days of the programmer's request for a review shall each be required to select an independent accountant on the sixth business day. The two accountants selected shall have five business days to select a third independent accountant to perform the review. Operators of systems subject to small system relief shall have 14 business days to select an independent accountant when an agreement cannot be reached. For these purposes, systems subject to small system relief are systems that either:

(i) Qualify as small systems under § 76.901(c) and are owned by a small cable company as defined under § 76.901(e); or

(ii) Have been granted special relief.

(3) The final accountant's report must be completed within 60 days of the date on which the final accountant is selected to perform the review. The final accountant's report must, at a minimum, state the maximum permitted rate, and explain how it was determined without revealing proprietary information. The report must be signed, dated and certified by the accountant. The report shall be filed in the cable system's local public file.

(4) If the accountant's report indicates that the cable operator's leased access rate exceeds the maximum permitted rate by more than a *de minimis* amount, the cable operator shall be required to pay the full cost of the review. If the final accountant's report does not indicate that the cable operator's leased access rate exceeds the maximum permitted rate by more than a *de minimis* amount, each party shall be required to split the cost of the final accountant's review, and to pay its own expenses incurred in making the review.

(5) Parties may use alternative dispute resolution (ADR) processes to settle disputes that are not resolved by the final accountant's report.

(c) A petition must contain a concise statement of the facts constituting a violation of the statute or the Commission's Rules, the specific statute(s) or rule(s) violated, and certify that the petition was served on the cable operator. Where a petition is based on allegations that a cable operator's leased access rates are unreasonable, the petitioner must attach a copy of the final accountant's report. In proceedings before the Commission, there will be a rebuttable presumption that the final accountant's report is correct.

(d) Where a petition is not based on allegations that a cable operator's leased access rates are unreasonable, the petition must be filed within 60 days of the alleged violation. Where a petition is based on allegations that the cable operator's leased access rates are unreasonable, the petition must be filed within 60 days of the final accountant's report, or within 60 days of the termination of ADR proceedings. Aggrieved parties must certify that their petition was filed within 60 days of the termination of ADR proceedings in order to file a petition later than 60 days after completion of the final accountant's report. Cable operators may rebut such certifications.

(e) The cable operator or other respondent will have 30 days from the filing of the petition to file a response. If a leased access rate is disputed, the response must show that the rate charged is not higher than the maximum permitted rate for such leased access, and must be supported by the affidavit of a responsible company official. If, after a response is submitted, the staff finds a prima facie violation of our rules, the staff may require a respondent to produce additional information, or specify other procedures necessary for resolution of the proceeding.

(f) The Commission, after consideration of the pleadings, may grant the relief requested, in whole or in part, including, but not limited to ordering refunds, injunctive measures, or forfeitures pursuant 47 U.S.C. 503, denying the petition, or issuing a ruling on the petition or dispute.

(g) To be afforded relief, the petitioner must show by clear and convincing evidence that the cable operator has violated the Commission's leased access provisions in 47 U.S.C. 532 or §§ 76.970 and 76.971, or otherwise acted unreasonably or in bad faith in failing or refusing to make capacity available or to charge lawful rates for such capacity to an unaffiliated leased access programmer.

(h) During the pendency of a dispute, a party seeking to lease channel capacity for commercial purposes, shall comply with the rates, terms and conditions prescribed by the cable operator, subject to refund or other appropriate remedy.

[58 FR 29753, May 21, 1993, as amended at 62 FR 11382, Mar. 12, 1997]

§ 76.977 Minority and educational programming used in lieu of designated commercial leased access capacity.

(a) A cable operator required by this section to designate channel capacity for commercial use pursuant to 47 U.S.C. 532, may use any such channel capacity for the provision of programming from a qualified minority programming source or from any qualified educational programming sources, whether or not such source is affiliated with cable operator. The channel capacity used to provide programming from a qualified minority programming source or from any qualified educational programming source pursuant to this section may not exceed 33 percent of the channel capacity designated pursuant to 47 U.S.C. 532 and must be located on a tier with more than 50 percent subscriber penetration.

(b) For purposes of this section, a qualified minority programming source is a programming source that devotes substantially all of its programming to coverage of minority viewpoints, or to programming directed at members of minority groups, and which is over 50 percent minority-owned.

(c) For purposes of this section, a qualified educational programming source is a programming source that devotes substantially all of its programming to educational or instructional programming that promotes public understanding of mathematics, the sciences, the humanities, or the arts and has a documented annual expenditure on programming exceeding $15 million. The annual expenditure on programming means all annual costs incurred by the programming source to produce or acquire programs which are scheduled to be televised, and specifically excludes marketing, promotion, satellite transmission and operational costs, and general administrative costs.

(d) For purposes of paragraphs (b) and (c) of this section, *substantially all* means that 90% or more of the programming offered must be devoted to minority or educational purposes, as defined in paragraphs (b) and (c) of this section, respectively.

(e) For purposes of paragraph (b) of this section, ''minority'' is defined as in 47 U.S.C. 309(i)(3)(c)(ii) to include Blacks, Hispanics, American Indians, Alaska Natives, Asians and Pacific Islanders.

[58 FR 29753, May 21, 1993, as amended at 62 FR 11382, Mar. 12, 1997]

§ 76.980 Charges for customer changes.

(a) This section shall govern charges for any changes in service tiers or equipment provided to the subscriber that are initiated at the request of a subscriber after initial service installation.

(b) The charge for customer changes in service tiers effected solely by coded entry on a computer terminal or by other similarly simple methods shall be a nominal amount, not exceeding actual costs, as defined in paragraph (c) of this section.

(c) The charge for customers changes in service tiers or equipment that involve more than coded entry on a computer or other similarly simple method shall be based on actual cost. The actual cost charge shall be either the HSC, as defined in Section 76.923 of the rules, multiplied by the number of persons hours needed to implement the change, or the HSC multiplied by the average number of persons hours involved in implementing customer changes.

(d) A cable operator may establish a higher charge for changes effected solely by coded entry on a computer terminal or by other similarly simple methods, subject to approval by the franchising authority, for a subscriber changing service tiers more than two times in a twelve month period, except for such changes ordered in response to a change in price or channel line-up. If a cable system adopts such an increased charge, the cable system must notify all subscribers in writing that they may be subject to such a charge for changing service tiers more than the specified number of times in any twelve month period.

(e) Downgrade charges that are the same as, or lower than, upgrade charges are evidence of the reasonableness of such downgrade charges.

(f) For 30 days after notice of retiering or rate increases, a customer may obtain changes in service tiers at no additional charge.

§76.981 Negative option billing.

(a) A cable operator shall not charge a subscriber for any service or equipment that the subscriber has not affirmatively requested by name. A subscriber's failure to refuse a cable operator's proposal to provide such service or equipment is not an affirmative request for service or equipment. A subscriber's affirmative request for service or equipment may be made orally or in writing.

(b) The requirements of paragraph (a) of this section shall not preclude the adjustment of rates to reflect inflation, cost of living and other external costs, the addition or deletion of a specific program from a service offering, the addition or deletion of specific channels from an existing tier or service, the restructuring or division of existing tiers of service, or the adjustment of rates as a result of the addition, deletion or substitution of channels pursuant to §76.922, provided that such changes do not constitute a fundamental change in the nature of an existing service or tier of service and are otherwise consistent with applicable regulations.

(c) State and local governments may not enforce state and local consumer protection laws that conflict with or undermine paragraph (a) or (b) of this section or any other sections of this Subpart that were established pursuant to Section 3 of the 1992 Cable Act, 47 U.S.C. 543.

[59 FR 62625, Dec. 6, 1994]

§76.982 Continuation of rate agreements.

During the term of an agreement executed before July 1, 1990, by a franchising authority and a cable operator providing for the regulation of basic cable service rates, where there was not effective competition under Commission rules in effect on that date, the franchising authority may regulate basic cable rates without following section 623 of the 1992 Cable Act or §§76.910 through 76.942. A franchising authority regulating basic cable rates pursuant to such a rate agreement is not required to file for certification during the remaining term of the agreement but shall notify the Commission of its intent to continue regulating basic cable rates.

§76.983 Discrimination.

(a) No Federal agency, state, or local franchising authority may prohibit a cable operator from offering reasonable discounts to senior citizens or to economically disadvantaged groups.

(1) Such discounts must be offered equally to all subscribers in the franchise area who qualify as members of these categories, or any reasonable subcategory thereof.

(2) For purposes of this section, members of economically disadvantaged groups are those individuals who receive federal, state or local welfare assistance.

(b) Nothing herein shall preclude any Federal agency, state, or local franchising authority from requiring and regulating the reception of cable service by hearing impaired individuals.

§76.984 Geographically uniform rate structure.

(a) The rates charged by cable operators for basic service, cable programming service, and associated equipment and installation shall be provided pursuant to a rate structure that is uniform throughout each franchise area in which cable service is provided.

(b) This section does not prohibit the establishment by cable operators of reasonable categories of service and customers with separate rates and terms and conditions of service, within a franchise area. Cable operators may offer different rates to multiple dwelling units of different sizes and may set rates based on the duration of the contract, provided that the operator can demonstrate that its costs savings vary with the size of the building and the duration of the contract, and as long as the same rate is offered to buildings of the same size with contracts of similar duration.

(c) This section does not apply to:

(1) A cable operator with respect to the provision of cable service over its cable system in any geographic area in which the video programming services offered by the operator in that area are subject to effective competition, or

(2) Any video programming offered on a per channel or per program basis. Bulk discounts to multiple dwelling units shall not be subject to this section, except that a cable operator of a cable system that is not subject to effective competition may not charge predatory prices to a multiple dwelling unit. Upon a prima facie showing by a complainant that there are reasonable grounds to believe that the discounted price is predatory, the cable system shall have the burden of showing that its discounted price is not predatory.

[59 FR 17975, Apr. 15, 1994, as amended at 61 FR 18979, Apr. 30, 1996]

§ 76.985 Subscriber bill itemization.

(a) Cable operators may identify as a separate line item of each regular subscriber bill the following:

(1) The amount of the total bill assessed as a franchise fee and the identity of the franchising authority to which the fee is paid.

(2) The amount of the total bill assessed to satisfy any requirements imposed on the cable operator by the franchise agreement to support public, educational, or governmental channels or the use of such channels.

(3) The amount of any other fee, tax, assessment, or charge of any kind imposed by any governmental authority on the transaction between the operator and the subscriber. In order for a governmental fee or assessment to be separately identified under this section, it must be directly imposed by a governmental body on a transaction between a subscriber and an operator.

(b) The charge identified on the subscriber bill as the total charge for cable service should include all fees and costs itemized pursuant to this section.

(c) Local franchising authorities may adopt regulations consistent with this section.

Federal Communications Commission
Washington, D. C. 20554

Approved by OMB
3060-XXXX
Expires 00/00/00

INSTRUCTIONS FOR FCC 329
CABLE PROGRAMMING SERVICE RATE COMPLAINT FORM

1. This FCC form is to be used by subscribers, franchising authorities, and other relevant state or local government entities seeking to file a complaint with the FCC challenging the reasonableness of a cable company's rates for cable programming service or for installation or rental of equipment used to receive cable programming service.

2. The term "cable programming service" includes all video programming provided by a cable company except: (1) programming provided on the basic service tier; or (2) programming provided on a pay-per-channel or pay-per-program basis. See Question 9.

3. The "basic service tier" is the tier that includes over-the-air television broadcast signals and public, educational and governmental access channels. Under federal law, in most instances, your local franchising authority rather than the FCC regulates rates for the basic service tier or associated equipment. Therefore, if you believe that your rate for the basic service tier or associated equipment is unreasonable, you should contact your local franchising authority to determine if it is authorized to regulate basic service tier rates.

4. Under federal law, video programming provided on a pay-per-channel or pay-per-program basis (for example, a premium movie channel such as HBO or a pay-per-view sports event) is not subject to rate regulation by either the FCC or your local franchising authority.

5. If you are concerned about your rates for cable programming service or associated equipment, then you may fill out this form and submit **an original and one copy** to the FCC. The FCC will examine the reasonableness of your cable programming service rate according to a specific formula. If the rate the cable company currently is charging you for the cable programming service is greater than the rate produced by the FCC's formula, the cable company's rate will be presumed unreasonable. In these circumstances, unless the cable company can provide cost information to justify the reasonableness of its rate, the FCC may order a refund and/or a prospective rate reduction for the cable programming service at issue.

6. Please note the following time limitations for filing a complaint:

   • If you are challenging the reasonableness of a rate increase for cable programming service or associated equipment, your complaint must be actually received by the FCC within 45 days from the date you receive a bill from your cable company reflecting the rate increase. (Note: a reduction in number of channels may constitute an effective rate increase even though the existing rate for the cable programming service remains unchanged.)

   • The only exception to the 45 day time limitation concerns cable programming service and associated equipment rates in effect when the FCC's rules become effective – that is, June 21, 1993. You may challenge the reasonableness of such rates, but you must file your complaint within 180 days from June 21, 1993 – that is, by December 18, 1993.

   • After December 18, 1993, you may only file complaints about rate increases and you must follow the general 45-day filing requirement described above.

   • Late-filed complaints will be dismissed with no opportunity to refile.

7. In addition to the cable company's name and mailing address, you should provide the cable company's "FCC Community Unit Identifier." (The FCC Community Unit Identifier is a number assigned to each cable system by the FCC for administrative purposes.) Also, you must provide the name and mailing address of the local franchising authority. (The local franchising authority is the local municipal, county or other government organization that regulates cable television in your community.) FCC rules require the cable company to furnish all this information to you on your monthly bill. If this information does not appear either on the front or back of your monthly bill, contact your cable company, your local franchising authority, or your local government to obtain the necessary information before filling out this form.

8. You must indicate whether you are challenging the reasonableness of: (1) a rate concerning cable programming service or associated equipment in effect on June 21, 1993; or (2) a rate increase. Except for a limited opportunity to challenge existing rates in effect on June 21, 1993, complaints may be filed only in the event of a rate increase.

9. If you are a subscriber, you must attach two copies of your monthly cable bill reflecting the rate or rate increase about which you are complaining. If you are challenging the reasonableness of a rate concerning cable programming service or associated equipment in effect on June 21, 1993, the bill should reflect that rate. If you are challenging the reasonableness of a rate increase, the bill should reflect the increased rate. (If you are challenging the reasonableness of a rate increase and have a previous bill which reflects the rate immediately prior to the increase, please attach two copies of the previous bill – note, however, that this is optional.)

10. You must check the box stating your belief that the cable programming service rate is unreasonable. The FCC staff will apply the formula mentioned in paragraph 5 to determine whether the cable company's rate is presumed reasonable or not – you do not need to make this calculation.

11. You must fill in all information required by this form.

12. You may contact your local franchising authority for assistance in filling out this form. In addition, you may attach two copies of a statement from your local franchising authority describing its views on the reasonableness of the cable programming service rate in question. This is not a requirement. If you do attach such a statement, you should also mail a copy of it to the cable company.

13. You must sign and date this form.

14. Once you complete the form copies must be mailed, including all attachments, to the following: Original and one copy: Federal Communications Commission, Attn: Cable Programming Service Rate Complaint, Room L-16, 1919 M Street, N.W., Washington, D.C. 20554; the cable company (at the address listed on your complaint); and the local franchising authority (at the address listed on your complaint).

    Please be sure to send all copies to the correct address. If you do not, we may not be able to process your complaint.

15. **NOTE: If you do not mail a copy of this form, including all attachments, to the cable company at the same time you mail your complaint to the FCC, the cable company will not be required to respond and your complaint may be dismissed.**

16. If your complaint meets the requirements listed above, the FCC will require the cable company to respond to your complaint within thirty days and provide a justification for the reasonableness of your rate. The cable company must provide you with a copy of its response to the FCC.

17. The FCC staff will examine your complaint and the cable company's response and then rule on the reasonableness of the cable programming service rate. This ruling will be in writing, and you will receive a copy by mail. If the FCC staff determines that the rate in question in unreasonable, it may order refunds and/or prospective rate reductions. If it determines that the rate in question is reasonable, the FCC staff will deny the complaint.

FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information in this form is authorized by the Communications Act of 1934, as amended. The Commission will use the information provided in this form to determine the reasonableness of a cable company's rates. In reaching that determination, or for law enforcement purposes, it may become necessary to refer personal information contained in this form to another government agency. All information provided in this form will be available for public inspection. Your response is required to obtain the requested relief.

Public reporting burden for this collection of information is estimated to average 30 minutes, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Federal Communications Commission, Records Management Division, AMD-PRS, Washington, D. C. 20554, and to the Office of Management and Budget, Paperwork Reduction Project (3060-XXXX), Washington, D. C. 20503.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, D. ZMBER 31, 1975, 5 U.S.C. 522a(e)(3) AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 6-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

Federal Communications Commission
Washington, D. C. 20554

Approved by OMB
3060-XXXX
Expires 00/00/00

FCC 329
CABLE PROGRAMMING SERVICE RATE COMPLAINT FORM
(Carefully read instructions on reverse before filling out form)

1. Complainant's Name		
Mailing Address		
City	State	ZIP Code
Daytime Telephone No. (include area code):		

2. Local Franchising Authority's Name		
Mailing Address		
City	State	ZIP Code

3. Cable Company's Name		
Mailing Address		
City	State	ZIP Code
Cable Company's FCC Community Unit Identifier (if known):		

4. Indicate whether this is the first time you have filed a complaint with the FCC or whether you are filing a corrected complaint to cure a defect in a prior complaint. CHECK ONE.

☐ First time complaint
☐ Corrected complaint

5. If you are filing a corrected complaint to cure a defect in a prior complaint, indicate the date the prior complaint was filed with the FCC and the date you received notification from the FCC that the prior complaint was defective.

	Month	Date	Year
Date prior complaint filed:			
Date you received FCC notification that the prior complaint was defective:			

6. Indicate whether you are challenging the reasonableness of: (1) a rate concerning cable programming service or associated equipment in effect on June 21, 1993; or (2) a rate increase. (See the Instructions for different filing deadlines depending on which type of complaint you are filing.) CHECK ONE.

☐ Rate in effect on June 21, 1993
☐ Rate increase

7. If you are a subscriber challenging the reasonableness of a rate increase, indicate the date you first received a bill from the cable operator reflecting the rate increase about which you are complaining.

Month	Date	Year

8. Indicate the current monthly rate for the cable programming service or associated equipment and, if you are challenging the reasonableness of a rate increase, the most recent rate in effect immediately prior to the rate increase.

		Month	Year
Current Monthly Rate:	$		
Previous Monthly Rate:	$		

9. In the tables below, describe the cable programming service to which the complaint is addressed and, if applicable, how it has changed. If this space is insufficient, include any additional comments on a separate page attached to this form.

List channels by name included in the service:

List channels by name deleted from the service (if any):

List channels by name added to the service (if any):

10. If you are a subscriber, you must attach two copies of your current bill reflecting the rate or rate increase about which you are complaining. NOTE: Failure to attach two copies of your current bill reflecting the rate or rate increase may result in dismissal of your complaint.
I have attached two copies of my current bill. ☐ Yes ☐ No

11. Optional: If you are a subscriber challenging the reasonableness of a rate increase, attach two copies of a previous bill (if available) reflecting the rate immediately prior to the rate increase.
I have attached two copies of my previous bill. ☐ Yes ☐ No

12. I certify that I am sending a copy of this complaint, including all attachments, to the cable company and the local franchising authority at the addresses listed above via first class mail, postage prepaid, at the same time I am sending two copies of this complaint to the FCC. NOTE: Failure to satisfy this requirement may result in dismissal of your complaint. The cable company will not be required to respond unless you send a copy of the complaint to the cable company by mail.

☐ Yes ☐ No

Date sent:	Month	Date	Year

13. I believe that the cable company's rate for the cable programming service or associated equipment described above is unreasonable because it violates the FCC's rate regulations. (CHECK BOX) ☐

14. I certify that, to the best of my knowledge, the information supplied on this form is true and correct.

Signature
Date

(Note to complainant: This complaint form will be maintained in the FCC's records under the cable company's community unit number. It will not be filed under your name.)

FCC 329
June 1993

Federal Communications Commission § 76.985

Federal Communications Commission
Washington, D.C. 20554

Approved by OMB
3060-XXXX
Expires 00/00/00

INSTRUCTIONS FOR FCC 328
FRANCHISING AUTHORITY CERTIFICATION

1. The Cable Television Consumer Protection and Competition Act, enacted in October 1992, changes the manner in which cable television systems that are not subject to effective competition are regulated. In general, rates for the basic service tier (the tier required as a condition of access to all other video services and containing, among other services, local broadcast station signals and public, educational, and public access channels) and associated equipment will be subject to regulation by local or state governments ("franchising authorities"). Rates for cable programming services and associated equipment (all services except basic and pay channels) will be subject to regulation by the FCC. Rates for pay channels (channels for which there is a specific per-channel or per-program charge) are not regulated.

2. Only cable systems that are not subject to effective competition may be regulated. Effective competition means that (a) fewer than 30 percent of the households in the franchise area subscribe to the cable service of a cable system; (b) the franchise area is (i) served by at least two unaffiliated multichannel video programming distributors each of which offers comparable video programming to at least 50 percent of the households in the franchise area; and (ii) the number of households subscribing to programming services offered by multichannel video programming distributors other than the largest multichannel video programming distributor exceeds 15 percent of the households in the franchise area; or (c) a multichannel video programming distributor operated by the franchising authority for that franchise area offers video programming to at least 50 percent of the households in that franchise area.

3. In order to regulate basic service tier rates, a franchising authority must be certified by the FCC. In order to be certified, a franchising authority must complete this form. **An original and one copy of the completed form and all attachments must be returned to the FCC by registered mail, return receipt requested, to the FCC at the address on the form.**

4. A copy of the form must be served on the cable operator by first-class mail on or before the date the form is sent or delivered to the FCC.

5. The franchising authority's certification will become effective 30 days after the date stamped on the postal return receipt unless otherwise notified by the Commission by that date. The franchising authority cannot begin to regulate rates, however, until it has actually adopted the required regulations (see below) and until it has notified the cable operator that it has been certified and that it has adopted the required regulations.

6. In order to be certified, franchising authorities must answer "yes" to Questions 3, 4, and 5, which are explained as follows:

7. Question 3: The franchising authority must adopt rate regulations consistent with the Commission's regulations for basic cable service. To fulfill this requirement for certification, the franchising authority may simply adopt a regulation indicating that it will follow the regulations established by the FCC.

   The franchising authority has 120 days to adopt these regulations after the time it is certified. The franchising authority may not, however, begin to regulate cable rates until after it has adopted these regulations and until it has notified the cable operator that it has been certified and has adopted the required regulations.

8. Question 4(a): The franchising authority's "legal authority" to regulate basic service must come from state law. In some states, only the state government may regulate cable rates. In those states, the state government should file this certification. Provisions in franchise agreements that prohibit rate regulation are void, and do not prevent a franchising authority from regulating the basic service tier and associated equipment.

   Question 4(b): The franchising authority must have a sufficient number of personnel to undertake rate regulation.

   A franchise authority unable to answer "yes" to questions 4(a) or 4(b) may wish to review the FCC's Report and Order in Docket 92-266, FCC 93-177 (released May 3, 1993) for further information on the establishment of alternative federal regulatory procedures.

9. Question 5: Franchising authorities must have procedural regulations allowing for public participation in rate regulation proceedings. If a franchising authority does not have these regulations already in place, it must adopt them within 120 days of certification and before it may undertake rate regulation.

10. Question 6: Most cable systems are not subject to effective competition, as defined by the Cable Act. (The definition is included above and on the form.) The franchising authority may presume that the cable system in its jurisdiction is not subject to effective competition.

    For purposes of applying the definition of effective competition (see Item 2 above), "multichannel video programming distributors" include a cable operator, a multichannel multipoint distribution service, a direct broadcast satellite service, a television receive-only satellite program distributor, a video dialtone service, and a satellite master antenna television system. A multichannel video programming distributor's services will be deemed "offered" when they are both technically and actually available. Service is "technically available" when the multichannel distributor is physically able to deliver the service to a household wishing to subscribe, with only minimal additional investment by the distributor. A service is "actually available" if subscribers in the franchise area are reasonably aware through marketing efforts that the service is available. Subscribership of those multichannel video programming distributors offering service to at least 50 percent of the households in a franchise area will be aggregated to determine whether at least 15 percent of the households in the franchise area are served by competitors. A multichannel video programming distributor must offer at least 12 channels of programming, at least one channel of which is nonbroadcast, to be found to offer "comparable" video programming.

11. This certification form must be signed by a government official with authority to act on behalf of the franchising authority.

FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information in this form is authorized by the Communications Act of 1934, as amended. The Commission will use the information provided in this form to determine if the franchise authority should be authorized to regulate cable rates. In reaching that determination, or for law enforcement purposes, it may become necessary to refer personal information contained in this form to another government agency. All information provided in this form will be available for public inspection. Your response is required to obtain the requested authority.

Public reporting burden for this collection of information is estimated to average 30 minutes, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Federal Communications Commission, Records Management Division, AMD-PRS, Washington, D. C. 20554, and to the Office of Management and Budget, Paperwork Reduction Project (3060-XXXX), Washington, D. C. 20503.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1975, 5 U.S.C. 522a(e)(3) AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

Federal Communications Commission
Washington, D. C. 20554

FCC 328

Approved by OMB
3060-XXXX
Expires 00/00/00

CERTIFICATION OF FRANCHISING AUTHORITY TO REGULATE BASIC CABLE SERVICE RATES AND INITIAL FINDING OF LACK OF EFFECTIVE COMPETITION

1

Name of Franchising Authority		
Mailing Address		
City	State	ZIP Code
Telephone No. (include area code):		
Person to contact with respect to this form:		

2. a. Name (s) and address(es) of cable system(s) and associated FCC community unit identifiers within your jurisdiction. (Attach additional sheets if necessary.)

Cable System's Name		
Mailing Address		
City	State	ZIP Code
Cable System's FCC Community Unit Identifier:		

Cable System's Name		
Mailing Address		
City	State	ZIP Code
Cable System's FCC Community Unit Identifier:		

2. b. Name (s) of system(s) and associated community unit identifiers you claim are subject to regulation and with respect to which you are filing this certification. (Attach additional sheets if necessary.)

Name of System	Community Unit Identifier

Name of System	Community Unit Identifier

2. c. Have you served a copy of this form on all parties listed in 2.b.? ☐ Yes ☐ No

3. Will your franchising authority adopt (within 120 days of certification) and administer regulations with respect to basic cable service that are consistent with the regulations adopted by the FCC pursuant to 47 U.S.C. Section 543(b)? ☐ Yes ☐ No

4. With respect to the franchising authority's regulations referred to in Question 3,

a. Does your franchising authority have the legal authority to adopt them? ☐ Yes ☐ No

b. Does your franchising authority have the personnel to administer them? ☐ Yes ☐ No

5. Do the procedural laws and regulations applicable to rate regulation proceedings by your franchising authority provide a reasonable opportunity for consideration of the views of interested parties? ☐ Yes ☐ No

6. The Commission presumes that the cable system(s) listed in 2.b. is (are) not subject to effective competition. Based on the definition below, do you have reason to believe that this presumption is correct? ☐ Yes ☐ No

(Effective competition means that (a) fewer than 30 percent of the households in the franchise area subscribe to the cable service of a cable system; (b) the franchise area is (i) served by at least two unaffiliated multichannel video programming distributors each of which offers comparable video programming to at least 50 percent of the households in the franchise area; and (ii) the number of households subscribing to programming services offered by multichannel video programming distributors other than the largest multichannel video programming distributor exceeds 15 percent of the households in the franchise area; or (c) a multichannel video programming distributor operated by the franchising authority for that franchise area offers video programming to at least 50 percent of the households in that franchise area.)

Signature
Title
Date

Return the original and one copy of this certification form (as indicated in Instructions), along with any attachments, to:

Federal Communications Commission
Attn: Cable Franchising Authority Certifi tion
Room L-16
1919 M Street, N.W.
Washington, D. C. 20554

FCC 328
June 1993

§76.986 "A la carte" offerings.

(a) Collective offerings of unregulated per-channel or per-program (''a la carte'') video programming shall be regulated as CPSTs pursuant to §76.922. For purposes of this section, ''multiplexed'' channels shall be treated as one channel.

(b) A discounted package price offered by a cable system is not unreasonable with respect to any collective offering of channels if the component channels' collective offering also have been continuously available on the system on a per channel basis since April 1, 1993.

(c) A collective offering of per channel offerings may be treated as New Product Tier if:

(1) The collective offering meets the conditions set forth in §76.987; or

(2) The operator had reasonable grounds to believe the collective offering involving only a small number of migrated channels complied with the Commission's requirements as of the date it was first offered.

(d) In reviewing a basic service rate filing, local franchising authorities may make an initial decision addressing whether a collective offering of ''a la carte'' channels will be treated as a cable programming service tier that is an NPT under §76.987 or a CPST that is regulated under §76.922. The franchising authority must make this initial decision within the 30 day period established for review of basic cable rates and equipment costs in §76.933(a), or within the first 60 days of an extended 120 day period (if the franchise authority has requested an additional 90 days) pursuant to §76.933(b). The franchising authority shall provide notice of its decision to the cable system and shall provide public notice of its initial decision within seven days pursuant to local procedural rules for public notice. Operators or consumers may make an interlocutory appeal of the initial decision to the Commission within 14 days of the initial decision. Operators shall provide notice to franchise authorities of their decision whether or not to appeal to the Commission within this period. Consumers shall provide notice to franchise authorities of their decision to appeal to the Commission within this period.

(e) A limited initial decision under paragraph (b) of this section shall toll the time periods under §76.933 within which local authorities must decide local rate cases. The time period shall resume running seven days after the Commission decides the interlocutory appeal, or seven days following the expiration of the period in which an interlocutory appeal pursuant to paragraph (b) of this section may be filed.

(f) A local franchising authority alternatively may decide whether a collective offering of ''a la carte'' channels will be treated as an NPT as a part of its final decision setting rates for the basic service tier. That decision may then be appealed to the Commission as provided for under §76.945.

[59 FR 62625, Dec. 6, 1994]

§76.987 New product tiers.

(a) Operators may establish a category of CPSTs, referred to as ''new product tiers'' (''NPTs''), and offer these tiers to subscribers at prices they elect.

(b) In order to be eligible to offer NPTs, cable operators must meet the following conditions:

(1) Operators offering NPTs are prohibited from making fundamental changes to what they offer on their BSTs and CPSTs offerings on September 30, 1994. Operators may drop channels or move channels between BSTs and/or CPSTs or to an a la carte offering so long as the aggregation of such changes do not constitute a fundamental change in their BST or CPSTs.

(2) Operators may not drop channels that were offered on their BSTs or CPSTs on September 30, 1994 and move them to NPTs unless they wait at least two years from the date the channels were dropped from the BSTs or CPSTs. Time shifted versions, slightly altered versions or renamed versions of channels offered on BSTs and CPSTs on September 30, 1994 shall not be exempt from this restriction.

(3) Operators must market their BSTs and CPSTs so that customers should be reasonably aware that:

(i) Those tiers are being offered to the public;

(ii) The names of the channels available on those tiers; and

(iii) The price of the tiers. A subscriber may not be charged for an NPT unless the cable operator has obtained the subscriber's affirmative consent. Changes to the fundamental nature of an NPT must be approved by subscribers in accordance with § 76.981.

(4) Operators may not require the subscription to any tier, other than a BST, as a condition for subscribing to an NPT and operators may not require subscription to an NPT as a condition for subscribing to a CPST. These restrictions will not apply to cable operators prior to October 5, 2002, if such operators lack the capacity to offer BSTs and NPTs without also providing other intermediate tiers of service as provided in § 76.900(c).

(c) Operators may offer the same service on NPTs as are on one or more BSTs or CPSTs. A channel that occupied a CPST or BST part-time on September 30, 1994 also may be offered full-time on an NPT as long as it continues to be offered at least part-time on CPST or BST, under substantially the same conditions as before it was offered on the NPT. If a channel occupies a BST or CPST (regulated pursuant to § 76.922) full-time on September 30, 1994, and is subsequently reduced to part-time on the BST or CPST, that channel may not be offered on an NPT full-time. Operators that offer a channel both on an NPT and a BST or CPST will have a continuing obligation to ensure that subscribers are aware that the channels are available on the CPST or BST.

(d) Operators may temporarily place new channels on CPSTs for marketing purposes and then move them to NPTs. In order for an operator to move a channel from a CPST to an NPT pursuant to this paragraph, the channel must not have been offered on a BST or CPST prior to October 1, 1994.

(e) After initially electing to offer an NPT, a cable operator may cease to provide the NPT, upon proper notice to subscribers pursuant to § 76.964. If an operator drops an NPT and subsequently determines to reestablish that tier, at the time of the reestablishment it must comply with the conditions for offering NPTs set forth in paragraph (b) of this section.

(f) If the Commission receives a complaint about an NPT, the operator need not file the rate justification provided in § 76.956, but shall within the time period provided by that rule file documentation that the NPT meets all the conditions set forth in this section.

(g) Within 30 days of the offering of an NPT, operators shall file with the Commission, a copy of the new rate card that contains the following information on their BSTs, CPSTs and NPTs:

(1) The names of the programming services contained on each tier; and

(2) The price of each tier. Operators also must file with the Commission, copies of notifications that were sent to subscribers regarding the initial offering of NPTs. After this initial filing, cable operators must file updated rate cards and copies of customer notifications with the Commission within 30 days of rate or service changes affecting the NPT.

[59 FR 62625, Dec. 6, 1994]

EFFECTIVE DATE NOTE: At 60 FR 62625, Dec. 6, 1994, § 76.987, was revised. Paragraph (g) contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

Subpart O—Competitive Access to Cable Programming

§ 76.1000 Definitions

As used in this subpart:

(a) *Area served by cable system.* The term ''area served'' by a cable system means an area actually passed by a cable system and which can be connected for a standard connection fee.

(b) *Attributable interest.* For purposes of determining whether a party has an ''attributable interest'' as used in this subpart, the definitions contained in the notes to § 76.501 shall be used, provided, however that:

(1) The single majority shareholder provisions of Note 2(b) to § 76.501 and the limited partner insulation provisions of Note 2(g) to § 76.501 shall not apply; and

(2) The provisions of Note 2(a) to § 76.501 regarding five (5) percent interests shall include all voting or nonvoting stock or limited partnership equity interests of five (5) percent or more.

(c) *Buying groups.* The term ''buying group'' or ''agent,'' for purposes of the definition of a multichannel video programming distributor set forth in paragraph (e) of this section, means an entity representing the interests of more than one entity distributing multichannel video programming that:

(1) Agrees to be financially liable for any fees due pursuant to a satellite cable programming, or satellite broadcast programming, contract which it signs as a contracting party as a representative of its members or whose members, as contracting parties, agree to joint and several liability; and

(2) Agrees to uniform billing and standardized contract provisions for individual members; and

(3) Agrees either collectively or individually on reasonable technical quality standards for the individual members of the group.

(d) *Competing distributors.* The term ''competing,'' as used with respect to competing multichannel video programming distributors, means distributors whose actual or proposed service areas overlap.

(e) *Multichannel video programming distributor.* The term ''multichannel video programming distributor'' means an entity engaged in the business of making available for purchase, by subscribers or customers, multiple channels of video programming. Such entities include, but are not limited to, a cable operator, a multichannel multipoint distribution service, a direct broadcast satellite service, a television receive-only satellite program distributor, and a satellite master antenna television system operator, as well as buying groups or agents of all such entities.

NOTE TO PARAGRAPH (e): A video programming provider that provides more than one channel of video programming on an open video system is a multichannel video programming distributor for purposes of this subpart O and Section 76.1507.

(f) *Satellite broadcast programming.* The term ''satellite broadcast programming'' means broadcast video programming when such programming is retransmitted by satellite and the entity retransmitting such programming is not the broadcaster or an entity performing such retransmission on behalf of and with the specific consent of the broadcaster.

(g) *Satellite broadcast programming vendor.* The term ''satellite broadcast programming vendor'' means a fixed service satellite carrier that provides service pursuant to section 119 of title 17, United States Code, with respect to satellite broadcast programming.

(h) *Satellite cable programming.* The term ''satellite cable programming'' means video programming which is transmitted via satellite and which is primarily intended for direct receipt by cable operators for their retransmission to cable subscribers, except that such term does not include satellite broadcast programming.

NOTE TO PARAGRAPH (h): Satellite programming which is primarily intended for the direct receipt by open video system operators for their retransmission to open video system subscribers shall be included within the definition of satellite cable programming.

(i) *Satellite cable programming vendor.* The term ''satellite cable programming vendor'' means a person engaged in the production, creation, or wholesale distribution for sale of satellite cable programming, but does not include a satellite broadcast programming vendor.

(j) *Similarly situated.* The term ''similarly situated'' means, for the purposes of evaluating alternative programming contracts offered by a defendant programming vendor, that an alternative multichannel video programming distributor has been identified by the defendant as being more properly compared to the complainant in order to determine whether a violation of § 76.1002(b) has occurred. The analysis of whether an alternative multichannel video programming distributor is properly comparable to the complainant includes consideration of, but is not limited to, such factors as whether the alternative multichannel video programming distributor operates within a geographic region proximate to the complainant, has roughly the same number of subscribers as the complainant, and purchases a similar service as the complainant. Such alternative multichannel video programming distributor, however, must use the same distribution technology as the ''competing'' distributor with whom the complainant seeks to compare itself.

(k) *Subdistribution agreement.* The term ''subdistribution agreement'' means an arrangement by which a local cable operator is given the right by a satellite cable programming vendor or satellite broadcast programming vendor to distribute the vendor's programming to competing multichannel video programming distributors.

[58 FR 27670, May 11, 1993, as amended at 61 FR 28708, June 5, 1996]

§ 76.1001 Unfair practices generally.

No cable operator, satellite cable programming vendor in which a cable operator has an attributable interest, or satellite broadcast programming vendor shall engage in unfair methods of competition or unfair or deceptive acts or practices, the purpose or effect of which is to hinder significantly or prevent any multichannel video programming distributor from providing satellite cable programming or satellite broadcast programming to subscribers or consumers.

[58 FR 27671, May 11, 1993]

§ 76.1002 Specific unfair practices prohibited.

(a) *Undue or improper influence.* No cable operator that has an attributable interest in a satellite cable programming vendor or in a satellite broadcast programming vendor shall unduly or improperly influence the decision of such vendor to sell, or unduly or improperly influence such vendor's prices, terms and conditions for the sale of, satellite cable programming or satellite broadcast programming to any unaffiliated multichannel video programming distributor.

(b) *Discrimination in prices, terms or conditions.* No satellite cable programming vendor in which a cable operator has an attributable interest, or satellite broadcast programming vendor, shall discriminate in the prices, terms, and conditions of sale or delivery of satellite cable programming or satellite broadcast programming among or between competing cable systems, competing cable operators, or any competing multichannel video programming distributors. Nothing in this subsection, however, shall preclude:

(1) The imposition of reasonable requirements for creditworthiness, offering of service, and financial stability and standards regarding character and technical quality;

NOTE 1: Vendors are permitted to create a distinct class or classes of service in pricing based on credit considerations or financial stability, although any such distinctions must be applied for reasons for other than a multichannel video programming distributor's technology. Vendors are not permitted to manifest factors such as creditworthiness or financial stability in price differentials if such factors are already taken into account through different terms or conditions such as special credit requirements or payment guarantees.

NOTE 2: Vendors may establish price differentials based on factors related to offering of service, or difference related to the actual service exchanged between the vendor and the distributor, as manifested in standardly applied contract terms based on a distributor's particular characteristics or willingness to provide secondary services that are reflected as a discount or surcharge in the programming service's price. Such factors include, but are not limited to, penetration of programming to subscribers or to particular systems; retail price of programming to the consumer for pay services; amount and type of promotional or advertising services by a distributor; a distributor's purchase of programming in a package or a la carte; channel position; importance of location for non-volume reasons; prepayment discounts; contract duration; date of purchase, especially purchase of service at launch; meeting competition at the distributor level; and other legitimate factors as standardly applied in a technology neutral fashion.

(2) The establishment of different prices, terms, and conditions to take into account actual and reasonable differences in the cost of creation, sale, delivery, or transmission of satellite cable programming or satellite broadcast programming;

NOTE: Vendors may base price differentials, in whole or in part, on differences in the cost of delivering a programming service to particular distributors, such as differences in costs, or additional costs, incurred for advertising expenses, copyright fees, customer service, and signal security. Vendors may base price differentials on cost differences that occur within a given technology as well as between technologies. A price differential for a program service may not be based on a distributor's retail costs in delivering service to subscribers unless the program vendor can demonstrate that subscribers do not or

will not benefit from the distributor's cost savings that result from a lower programming price.

(3) The establishment of different prices, terms, and conditions which take into account economies of scale, cost savings, or other direct and legitimate economic benefits reasonably attributable to the number of subscribers served by the distributor; or

NOTE: Vendors may use volume-related justifications to establish price differentials to the extent that such justifications are made available to similarly situated distributors on a technology-neutral basis. When relying upon standardized volume-related factors that are made available to all multichannel video programming distributors using all technologies, the vendor may be required to demonstrate that such volume discounts are reasonably related to direct and legitimate economic benefits reasonably attributable to the number of subscribers served by the distributor if questions arise about the application of that discount. In such demonstrations, vendors will not be required to provide a strict cost justification for the structure of such standard volume-related factors, but may also identify non-cost economic benefits related to increased viewership.

(4) Entering into exclusive contracts in areas that are permitted under paragraphs (c)(2) and (c)(4) of this section.

(c) *Exclusive contracts and practices.*—(1) *Unserved areas.* No cable operator shall engage in any practice or activity or enter into any understanding or arrangement, including exclusive contracts, with a satellite cable programming vendor or satellite broadcast programming vendor for satellite cable programming or satellite broadcast programming that prevents a multichannel video programming distributor from obtaining such programming from any satellite cable programming vendor in which a cable operator has an attributable interest, or any satellite broadcast programming vendor in which a cable operator has an attributable interest for distribution to persons in areas not served by a cable operator as of October 5, 1992.

(2) *Served areas.* No cable operator shall enter into any exclusive contracts, or engage in any practice, activity or arrangement tantamount to an exclusive contract, for satellite cable programming or satellite broadcast programming with a satellite cable programming vendor in which a cable operator has an attributable interest or a satellite broadcast programming vendor in which a cable operator has an attributable interest, with respect to areas served by a cable operator, unless the Commission determines in accordance with paragraph (c)(4) of this section that such contract, practice, activity or arrangement is in the public interest.

(3) *Specific arrangements: Subdistribution agreements.*—(i) *Served areas.* No cable operator shall enter into any subdistribution agreement or arrangement for satellite cable programming or satellite broadcast programming with a satellite cable programming vendor in which a cable operator has an attributable interest or a satellite broadcast programming vendor in which a cable operator has an attributable interest, with respect to areas served by a cable operator, unless such agreement or arrangement complies with the limitations set forth in paragraph (c)(3)(iii) of this section.

(ii) *Limitations on subdistribution agreements in served areas.* No cable operator engaged in subdistribution of satellite cable programming or satellite broadcast programming may require a competing multichannel video programming distributor to

(A) Purchase additional or unrelated programming as a condition of such subdistribution; or

(B) Provide access to private property in exchange for access to programming. In addition, a subdistributor may not charge a competing multichannel video programming distributor more for said programming than the satellite cable programming vendor or satellite broadcast programming vendor itself would be permitted to charge. Any cable operator acting as a subdistributor of satellite cable programming or satellite broadcast programming must respond to a request for access to such programming by a competing multichannel video programming distributor within fifteen (15) days of the request. If the request is denied, the competing multichannel video programming distributor must be permitted to negotiate directly with the satellite cable programming vendor or

satellite broadcast programming vendor.

(4) *Public interest determination.* In determining whether an exclusive contract is in the public interest for purposes of paragraph (c)(2) of this section, the Commission will consider each of the following factors with respect to the effect of such contract on the distribution of video programming in areas that are served by a cable operator:

(i) The effect of such exclusive contract on the development of competition in local and national multichannel video programming distribution markets;

(ii) The effect of such exclusive contract on competition from multichannel video programming distribution technologies other than cable;

(iii) The effect of such exclusive contract on the attraction of capital investment in the production and distribution of new satellite cable programming;

(iv) The effect of such exclusive contract on diversity of programming in the multichannel video programming distribution market; and

(v) The duration of the exclusive contract.

(5) *Prior Commission approval required.* Any cable operator, satellite cable programming vendor in which a cable operator has an attributable interest, or satellite broadcast programming vendor in which a cable operator has an attributable interest seeking to enforce or enter into an exclusive contract in an area served by a cable operator must submit a ''Petition for Exclusivity'' to the Commission for approval.

(i) The petition for exclusivity shall contain those portions of the contract relevant to exclusivity, including:

(A) A description of the programming service;

(B) The extent and duration of exclusivity proposed; and

(C) Any other terms or provisions directly related to exclusivity or to any of the criteria set forth in paragraph (c)(4) of this section. The petition for exclusivity shall also include a statement setting forth the petitioner's reasons to support a finding that the contract is in the public interest, addressing each of the five factors set forth in paragraph (c)(4) of this section.

(ii) Any competing multichannel video programming distributor affected by the proposed exclusivity may file an opposition to the petition for exclusivity within thirty (30) days of the date on which the petition is placed on public notice, setting forth its reasons to support a finding that the contract is not in the public interest under the criteria set forth in paragraph (c)(4) of this section. Any such formal opposition must be served on petitioner on the same day on which it is filed with the Commission.

(iii) The petitioner may file a response within ten (10) days of receipt of any formal opposition. The Commission will then approve or deny the petition for exclusivity.

(6) *Sunset provision.* The prohibition of exclusive contracts set forth in paragraph (c)(2) of this section shall cease to be effective on October 5, 2002, unless the Commission finds, during a proceeding to be conducted during the year preceding such date, that said prohibition continues to be necessary to preserve and protect competition and diversity in the distribution of video programming.

(d) *Limitations*—(1) *Geographic limitations.* Nothing in this section shall require any person who is engaged in the national or regional distribution of video programming to make such programming available in any geographic area beyond which such programming has been authorized or licensed for distribution.

(2) *Applicability to satellite retransmissions.* Nothing in this section shall apply:

(i) To the signal of any broadcast affiliate of a national television network or other television signal that is retransmitted by satellite but that is not satellite broadcast programming; or

(ii) To any internal satellite communication of any broadcast network or cable network that is not satellite broadcast programming.

(e) *Exemptions for prior contracts.*—(1) *In general.* Nothing in this section shall affect any contract that grants exclusive distribution rights to any person with respect to satellite cable programming and that was entered into or

before June 1, 1990, except that the provisions of paragraph (c)(1) of this section shall apply for distribution to persons in areas not served by a cable operator.

(2) *Limitation on renewals.* A contract that was entered into on or before June 1, 1990, but that was renewed or extended after October 5, 1992, shall not be exempt under paragraph (e)(1) of this section.

(f) *Application to existing contracts.* All contracts, except those specified in paragraph (e) of this section, related to the provision of satellite cable programming or satellite broadcast programming to any multichannel video programming distributor must be brought into compliance with the requirements specified in this subpart no later than November 15, 1993.

[58 FR 27671, May 11, 1993, as amended at 59 FR 66259, Dec. 23, 1994]

§ 76.1003 Adjudicatory proceedings.

Any competing multichannel video programming distributor aggrieved by conduct that it alleges to constitute a violation of the regulations set forth in this subpart may commence an adjudicatory proceeding at the Commission.

(a) *Notice required.* Any aggrieved multichannel video programming distributor intending to file a complaint under this section must first notify the potential defendant cable operator, and/or the potential defendant satellite cable programming vendor or satellite broadcast programming vendor, that it intends to file a complaint with the Commission based on actions alleged to violate one or more of the provisions contained in § 76.1001 or 76.1002. The notice must be sufficiently detailed so that its recipient(s) can determine the specific nature of the potential complaint. The potential complainant must allow a minimum of ten (10) days for the potential defendant(s) to respond before filing a complaint with the Commission.

(b) *General pleading requirements.* Program access complaint proceedings are generally resolved on a written record consisting of a complaint, answer and reply, but may also include other written submissions such as briefs and written interrogatories. All written submissions, both substantive and procedural, must conform to the following standards :

(1) Pleadings must be clear, concise, and explicit. All matters concerning a claim, defense or requested remedy, should be pleaded fully and with specificity.

(2) Pleadings must contain facts which, if true, are sufficient to constitute a violation of the Act or Commission order or regulation, or a defense to such alleged violation.

(3) Facts must be supported by relevant documentation or affidavit.

(4) Legal arguments must be supported by appropriate judicial, Commission, or statutory authority.

(5) Opposing authorities must be distinguished.

(6) Copies must be provided of all non-Commission authorities relied upon which are not routinely available in national reporting systems, such as unpublished decisions or slip opinions of courts or administrative agencies.

(7) Parties are responsible for the continuing accuracy and completeness of all information and supporting authority furnished in a pending complaint proceeding. Information submitted, as well as relevant legal authorities, must be current and updated as necessary and in a timely manner at any time before a decision is rendered on the merits of the complaint.

(c) *Complaint.* (1) A program access complaint shall contain:

(i) The name of the complainant and each defendant;

(ii) The type of multichannel video programming distributor that describes complainant, the address and telephone number of the complainant, whether the defendant is a cable operator, satellite broadcast programming vendor or satellite cable programming vendor (describing each defendant), and the address and telephone number of each defendant;

(iii) The name, address and telephone number of complainant's attorney, if represented by counsel;

(iv) Citation to the section of the Communications Act and/or Commission regulation or order alleged to have been violated;

(v) A complete statement of facts, which, if proven true, would constitute such a violation;

(vi) Any evidence that supports the truth or accuracy of the alleged facts;

(vii) Evidence that supports complainant's belief that the defendant, where necessary, meets the attribution standards for application of the program access requirements;

(viii) Evidence that the complainant competes with the defendant cable operator, or with a multichannel video programming distributor that is a customer of the defendant satellite cable programming or satellite broadcast programming vendor;

(ix) In complaints alleging discrimination, documentary evidence such as a rate card or a programming contract that demonstrates a differential in price, terms or conditions between complainant and a competing multichannel video programming distributor or, if no programming contract or rate card is submitted with the complaint, an affidavit signed by an officer of complainant alleging that a differential in price, terms or conditions exits, a description of the nature and extent (if known or reasonably estimated by the complainant) of the differential, together with a statement that defendant refused to provide any further specific comparative information;

(x) If a programming contract or a rate card is submitted with the complaint in support of the alleged violation, specific references to the relevant provisions therein;

(xi) In complaints alleging exclusivity violations:

(A) The identity of both the programmer and cable operator who are parties to the alleged prohibited agreement,

(B) Evidence that complainant can or does serve the area specified in the complaint, and

(C) Evidence that the complainant has requested to purchase the relevant programming and has been refused or unanswered;

(xii) In complaints alleging a violation of § 76.1001, evidence demonstrating that the behavior complained of has harmed complainant; and

(xiii) The specific relief sought.

(2) Every complaint alleging a violation of the program access requirements shall be accompanied by a sworn affidavit signed by an authorized officer or agent of the complainant. This affidavit shall contain a statement that the affiant has read the complaint and that to the best of the affiant's knowledge, information and belief formed after reasonable inquiry it is well grounded in fact and is warranted under Commission regulations and policies or is a good faith argument for the extension, modification or reversal of such regulations or policies, and it is not interposed for any improper purpose. If the complaint is signed in violation of this rule, the Commission upon motion or its own initiative shall impose upon the complainant an appropriate sanction.

(3) The following format may be used in cases to which it is applicable, with such modifications as the circumstances may render necessary;

Before The Federal Communications Commission, Washington, DC 20554. In the matter of Complainant, v. Defendant. File No. (To be inserted by the Commission) [Insert Subject/Nature of Issue: Discrimination; Exclusivity; Undue Influence; Unfair Practice]

Program Access Complaint

To: The Commission.

The complainant (here insert full name of complainant, and if a corporation, the corporate title of such complainant).

1. (Here state the complainant's method of multichannel video program distribution; post office address, and telephone number of the complainant).

2. (Here insert the name, whether a cable operator, satellite broadcast programming vendor or satellite cable programming vendor, address and telephone number of each defendant).

3. (Here insert fully and clearly the specific act or thing complained of, together with such facts as are necessary to give full understanding of the matter, including relevant legal and documentary support).

Wherefore, complainant asks (here state specifically the relief desired).

(Date)

(Name of complainant)

(Name, address, and telephone number of attorney, if any)

(4) The complaint must be accompanied by appropriate evidence demonstrating that the required notification pursuant to paragraph (a) of this section has been made.

(d) *Answer.* (1) Any cable operator, satellite cable programming vendor or satellite broadcast programming vendor upon which a program access complaint is served under this section shall answer within thirty (30) days of service of the complaint, unless otherwise directed by the Commission.

(2) The answer shall advise the parties and the Commission fully and completely of the nature of any and all defenses, and shall respond specifically to all material allegations of the complaint. Collateral or immaterial issues shall be avoided in answers and every effort should be made to narrow the issues. Any defendant failing to file and serve an answer within the time and in the manner prescribed by these rules may be deemed in default and an order may be entered against defendant in accordance with the allegations contained in the complaint.

(3) The answer shall state concisely any and all defenses to each claim asserted and shall admit or deny the averments on which the adverse party relies. If the defendant is without knowledge or information sufficient to form a belief as to the truth of an averment, the defendant shall so state and this has the effect of a denial. When a defendant intends in good faith to deny only part of an averment, the answer shall specify so much of it as is true and shall deny only the remainder. The defendant may make its denials as specific denials of designated averments or paragraphs, or may generally deny all the averments except such designated averments or paragraphs as the defendant expressly admits. When the defendant intends to controvert all averments, the defendant may do so by general denial.

(4) Averments in a complaint are deemed to be admitted when not denied in the answer.

(5) An answer to an exclusivity complaint shall provide the defendant's reasons for refusing to sell the subject programming to the complainant. In addition, the defendant may submit to the Commission its programming contracts covering the area specified in the complaint with its answer to refute allegations concerning the existence of an impermissible exclusive contract. If there are no contracts governing the specified area, the defendant shall so certify in its answer. Any contracts submitted pursuant to this provision may be protected as proprietary pursuant to paragraph (h) of this section.

(6) An answer to a discrimination complaint shall state the reasons for any differential in prices, terms or conditions between the complainant and its competitor, and shall specify the particular justification set forth in § 76.1002(b) relied upon in support of the differential.

(i) When responding to allegations concerning price discrimination, except in cases in which the alleged price differential is *de minimis* (less than or equal to five cents per subscriber or five percent, whichever is greater), the defendant shall provide documentary evidence to support any argument that the magnitude of the differential is not discriminatory.

(ii) In cases involving a price differential of less than or equal to five cents per subscriber or five percent, whichever is greater, the answer shall identify the differential as *de minimis* and state that the defendant is therefore not required to justify the magnitude of the differential.

(iii) If the defendant believes that the complainant and its competitor are not sufficiently similar, the answer shall set forth the reasons supporting this conclusion, and the defendant may submit an alternative contract for comparison with a similarly situated multichannel video programming distributor that uses the same distribution technology as the competitor selected for comparison by the complainant. The answer shall state the defendant's reasons for any differential between the prices, terms and conditions between the complainant and such similarly situated distributor, and shall specify the particular justifications in § 76.1002(b) relied upon in support of the differential. The defendant shall also provide with its answer written documentary evidence to support its justification of the magnitude of any price differential between the complainant and such similarly situated distributor that is not *de minimus.*

(iv) Any documents or contracts submitted pursuant to this subparagraph

may be protected as proprietary pursuant to paragraph (h) of this section.

(7) An answer to a complaint alleging an unreasonable refusal to sell programming shall state the defendant's reasons for refusing to sell to the complainant, or for refusing to sell to the complainant on the same terms and conditions as complainant's competitor, and shall specify why the defendant's actions are not discriminatory.

(e) *Reply*. Within twenty (20) days after service of an answer, the complainant may file and serve a reply which shall be responsive to matters contained in the answer and shall not contain new matters. Failure to reply will not be deemed an admission of any allegations contained in the answer, except with respect to any affirmative defense set forth therein. Replies containing information claimed by defendant to be proprietary under paragraph (h) of this section shall be submitted to the Commission in confidence pursuant to the requirements of § 0.459 of this chapter and clearly marked ''Not for Public Inspection.'' An edited version removing all proprietary data shall be filed with the Commission for inclusion in the public file within five (5) days from the date the unedited reply is submitted, and shall be served on the defendant.

(f) *Motions*. Except as provided in this section, or upon a showing of extraordinary circumstances, additional motions or pleadings by any party will not be accepted.

(g) *Discovery*. (1) The Commission staff may in its discretion order discovery limited to the issues specified by the Commission. Such discovery may include answers to written interrogatories or document production.

(2) The Commission staff may in its discretion direct the parties to submit discovery proposals, together with a memorandum in support of the discovery requested. Such discovery requests may include answers to written interrogatories, document production or depositions. The Commission staff will then hold a status conference with the parties, pursuant to paragraph (j) of this section, to determine the scope of discovery. If the Commission staff determines that extensive discovery is required or that depositions are warranted, the staff will advise the parties that the proceeding will be referred to an administrative law judge in accordance with paragraph (m) of this section.

(h) *Confidentiality of proprietary information*. (1) Any materials generated or provided by a party in connection with the pre-complaint notification procedure required under § 76.1003(a) and in the course of adjudicating a program access complaint under this provision may be designated as proprietary by that party if the party believes in good faith that the materials fall within an exemption to disclosure contained in the Freedom of Information Act (FOIA), 5 U.S.C. 552(b). Any party asserting confidentiality for such materials shall so indicate by clearly marking each page, or portion thereof, for which a proprietary designation is claimed. If a proprietary designation is challenged, the party claiming confidentiality will have the burden of demonstrating, by a preponderance of the evidence, that the material designated as proprietary falls under the standards for nondisclosure enunciated in the FOIA.

(2) Except as provided in paragraph (h)(3) of this section, materials marked as proprietary may be disclosed solely to the following persons, only for use in prosecuting or defending a party to the complaint action, and only to the extent necessary to assist in the prosecution or defense of the case:

(i) Counsel of record representing the parties in the complaint action and any support personnel employed by such attorneys;

(ii) Officers or employees of the opposing party who are named by the opposing party as being directly involved in the prosecution or defense of the case;

(iii) Consultants or expert witnesses retained by the parties;

(iv) The Commission and its staff; and

(v) Court reporters and stenographers in accordance with the terms and conditions of this section.

(3) The Commission will entertain, subject to a proper showing, a party's request to further restrict access to proprietary information as specified by the party. The opposing party will have

an opportunity to respond to such requests.

(4) The persons designated in paragraphs (h) (2) and (3) of this section shall not disclose information designated as proprietary to any person who is not authorized under this section to receive such information, and shall not use the information in any activity or function other than the prosecution or defense in the case before the Commission. Each individual who is provided access to the information by the opposing party shall sign a notarized statement affirmatively stating, or shall certify under penalty of perjury, that the individual has personally reviewed the Commission's rules and understands the limitations they impose on the signing party.

(5) No copies of materials marked proprietary may be made except copies to be used by persons designated in paragraphs (h) (2) or (3) of this section. Each party shall maintain a log recording the number of copies made of all proprietary material and the persons to whom the copies have been provided.

(6) Upon termination of the complaint proceeding, including all appeals and petitions, all originals and reproductions of any proprietary materials, along with the log recording persons who received copies of such materials, shall be provided to the producing party. In addition, upon final termination of the complaint proceeding, any notes or other work product derived in whole or in part from the proprietary materials of an opposing or third party shall be destroyed.

(i) *Other required written submissions.* (1) The Commission may, in its discretion, require the parties to file briefs summarizing the facts and issues presented in the pleadings and other record evidence. These briefs shall contain the findings of fact and conclusions of law which that party is urging the Commission to adopt, with specific citations to the record, and supported by relevant authority and analysis.

(2) The Commission may require the parties to submit any additional information it deems appropriate for a full, fair, and expeditious resolution of the proceeding, including copies of all contracts and documents reflecting arrangements and understandings alleged to violate the program access requirements set forth in the Communications Act and §§ 76.1001 and 76.1002, as well as affidavits and exhibits.

(3) Any briefs submitted shall be filed concurrently by both the complainant and defendant at such time as is designated by the staff. Such briefs shall not exceed fifty (50) pages.

(4) Reply briefs may be submitted by either party within twenty (20) days from the date initial briefs are due. Reply briefs shall not exceed thirty (30) pages.

(5) Briefs containing information which is claimed by an opposing or third party to be proprietary under paragraph (h) of this section shall be submitted to the Commission in confidence pursuant to the requirements of § 0.459 of this chapter, and shall be clearly marked ''Not for Public Inspection.'' An edited version removing all proprietary data shall be filed with the Commission for inclusion in the public file within five (5) days from the date the unedited version is submitted and served on opposing parties.

(j) *Status conference.* (1) In any program access complaint proceeding, the Commission staff may in its discretion direct the attorneys and/or the parties to appear for a conference to consider:

(i) Simplification or narrowing of the issues;

(ii) The necessity for or desirability of amendments to the pleadings, additional pleadings, or other evidentiary submissions;

(iii) Obtaining admissions of fact or stipulations between the parties as to any or all of the matters in controversy;

(iv) Settlement of the matters in controversy by agreement of the parties;

(v) The necessity for and extent of discovery, including objections to interrogatories or requests for written documents;

(vi) The need and schedule for filing briefs, and the date for any further conferences; and

(vii) Such other matters that may aid in the disposition of the complaint.

(2) Any party may request that a conference be held at any time after the complaint has been filed.

(3) Conferences will be scheduled by the Commission at such time and place as it may designate, to be conducted in person or by telephone conference call.

(4) The failure of any attorney or party, following reasonable notice, to appear at a scheduled conference will be deemed a waiver and will not preclude the Commission from conferring with those parties or counsel present.

(5) During a status conference, the Commission staff may issue oral rulings pertaining to a variety of interlocutory matters relevant to the conduct of a program access complaint proceeding including, *inter alia*, procedural matters, discovery, and the submission of briefs or other evidentiary materials. These rulings will be promptly memorialized in writing and served on the parties. When such rulings require a party to take affirmative action not subject to deadlines established by another provision of this subpart, such action will be required within ten (10) days from the date of the written memorialization unless otherwise directed by the staff.

(k) *Specifications as to pleadings, briefs, and other documents; subscriptions.* (1) All papers filed in a program access compliant proceeding must be drawn in conformity with the requirements of §§ 1.49 and 1.50 of this chapter.

(2) All averments of claims or defenses in complaints and answers shall be made in numbered paragraphs. The contents of each paragraph shall be limited as far as practicable to a statement of a single set of circumstances. Each claim founded on a separate transaction or occurrence and each affirmative defense shall be separately stated to facilitate the clear presentation of the matters set forth.

(3) The original of all pleadings and submissions by any party shall be signed by that party, or by the party's attorney. Complaints must be signed by the complainant. The signing party shall state his or her address and telephone number and the date on which the document was signed. Copies should be conformed to the original. Except when otherwise specifically provided by rule or statute, pleadings need not be verified. The signature of an attorney or party shall be a certificate that the attorney or party has read the pleading, motion, or other paper; that to the best of his or her knowledge, information and belief formed after reasonable inquiry, it is well grounded in fact and is warranted by existing law or a good faith argument for the extension, modification or reversal of existing law; and that it is not interposed for any improper purpose. If any pleading or other submission is signed in violation of this provision, the Commission shall upon motion or upon its own initiative impose upon the party an appropriate sanction. Where the pleading or submission is signed by counsel, the provisions of §§ 1.52 and 1.24 of this chapter shall also apply.

(l) *Copies; service.* (1) The complainant shall file an original plus three copies of the complaint with the Commission. However, if the complaint is addressed against multiple defendants, complainant shall provide three additional copies of the complaint for each additional defendant.

(2) An original plus two copies shall be filed of all pleadings and documents other than the complaint.

(3) The complainant shall serve the compliant on each defendant at the same time that it is filed at the Commission.

(4) All subsequent pleadings and briefs, as well as all letters, documents or other written submissions, shall be served by the filing party on all other parties to the proceeding, together with proof of such service in accordance with the requirements of § 1.47 of this chapter.

(5) The parties to any program access compliant proceeding brought pursuant to this section may be required to file additional copies of any or all papers filed in the proceeding.

(m) *Referral to administrative law judge.* (1) After reviewing the complaint, answer and reply, and at any stage of the proceeding thereafter, the Commission staff may, in its discretion, designate any program access compliant proceeding for an adjudicatory hearing before an administrative law judge.

(2) Before designation for hearing, the staff shall notify, either orally or in writing, the parties to the proceeding of its intent to so designate, and

the parties shall be given a period of ten (10) days to elect to resolve the dispute through alternative dispute resolution procedures, or to proceed with an adjudicatory hearing. Such election shall be submitted in writing to the Commission.

(3) Unless otherwise directed by the Commission, or upon motion by the Mass Media Bureau Chief, the Mass Media Bureau Chief shall not be deemed to be a party to a program access compliant proceeding designated for a hearing before an administrative law judge pursuant to this paragraph.

(n) *Petitions for reconsideration.* Petitions for reconsideration of interlocutory actions by the Commission's staff or by an administrative law judge will not be entertained. Petitions for reconsideration of a decision on the merits made by the Commission's staff should be filed in accordance with §§ 1.104–1.106 of this chapter.

(o) *Interlocutory review.* (1) Except as provided below, no party may seek review of interlocutory rulings until a decision on the merits has been issued by the staff or administrative law judge.

(2) Rulings listed in this paragraph are reviewable as a matter of right. An application for review of such ruling may not be deferred and raised as an exception to a decision on the merits.

(i) If the staff's ruling denies or terminates the right of any person to participate as a party to the proceeding, such person, as a matter of right, may file an application for review of that ruling.

(ii) If the staff's ruling requires production of documents or other written evidence, over objection based on a claim of privilege, the ruling on the claim of privilege is reviewable as a matter of right.

(iii) If the staff's ruling denies a motion to disqualify a staff person from participating in the proceeding, the ruling is reviewable as a matter of right.

(p) *Expedited review.* (1) Any party to a program access complaint proceeding aggrieved by any decision on the merits issued by the staff pursuant to delegated authority may file an application for review by the Commission in accordance with § 1.115 of this chapter.

(2) Any party to a program access complaint proceeding aggrieved by any decision on the merits by an administrative law judge may file an appeal of the decision directly with the Commission, in accordance with § 1.276(a) and §§ 1.277(a)–(c) of this chapter, except that unless a stay is granted by the Commission, the decision by the administrative law judge will become effective upon release and will remain in effect pending appeal.

(q) *Frivolous complaints.* It shall be unlawful for any party to file a frivolous complaint with the Commission alleging any violation of this subpart. Any violation of this paragraph shall constitute an abuse of process subject to appropriate sanctions.

(r) *Statute of limitations.* Any complaint filed pursuant to this subsection must be filed within one year of the date on which one of the following events occurs:

(1) The satellite cable programming or satellite broadcast programming vendor enters into a contract with the complainant that the complainant alleges to violate one or more of the rules contained in this subpart; or

(2) The satellite cable programming or satellite broadcast programming vendor offers to sell programming to the complainant pursuant to terms that the complainant alleges to violate one or more of the rules contained in this subpart; or

(3) The complainant has notified a cable operator, or a satellite cable programming vendor or a satellite broadcast programming vendor that it intends to file a complaint with the Commission based on a request to purchase or negotiate to purchase satellite cable programming or satellite broadcast programming, or a request to amend an existing contract pertaining to such programming pursuant to § 76.1002(f) that has been denied or unacknowledged, allegedly in violation of one or more of the rules contained in this subpart.

(s) *Remedies for violations*—(1) *Remedies authorized.* Upon completion of such adjudicatory proceeding, the Commission shall order appropriate remedies, including, if necessary, the establishment of prices, terms, and conditions for the sale of programming

to the aggrieved multichannel video programming distributor. Such order shall set forth a timetable for compliance, and shall become effective upon release.

(2) *Additional sanctions.* The remedies provided in paragraph (s)(1) of this section are in addition to and not in lieu of the sanctions available under title V or any other provision of the Communications Act.

[58 FR 27673, May 11, 1993, as amended at 59 FR 66258, Dec. 23, 1994]

§ 76.1004 Applicability of program access rules to common carriers and affiliates.

(a) Any provision that applies to a cable operator under §§ 76.1000 through 76.1003 shall also apply to a common carrier or its affiliate that provides video programming by any means directly to subscribers. Any such provision that applies to a satellite cable programming vendor in which a cable operator has an attributable interest shall apply to any satellite cable programming vendor in which such common carrier has an attributable interest. For the purposes of this section, two or fewer common officers or directors shall not by itself establish an attributable interest by a common carrier in a satellite cable programming vendor (or its parent company).

(b) Sections 76.1002(c)(1) through (3) shall be applied to a common carrier or its affiliate that provides video programming by any means directly to subscribers in such a way that such common carrier or its affiliate shall be generally restricted from entering into an exclusive arrangement for satellite cable programming or satellite broadcast programming with a satellite cable programming vendor in which a common carrier or its affiliate has an attributable interest or a satellite broadcast programming vendor in which a common carrier or its affiliate has an attributable interest, unless the arrangement pertains to an area served by a cable system as of October 5, 1992, and the Commission determines in accordance with Section § 76.1002(c)(4) that such arrangment is in the public interest.

[61 FR 18980, Apr. 30, 1996, as amended at 61 FR 28708, June 5, 1996]

§§ 76.1005—76.1010 [Reserved]

Subpart P [Reserved]

Subpart Q—Regulation of Carriage Agreements

SOURCE: 58 FR 60395, Nov. 16, 1993, unless otherwise noted.

§ 76.1300 Definitions.

As used in this subpart:

(a) *Affiliated.* For purposes of determining whether a video programming vendor is ''affiliated'' with a multichannel video programming distributor, as used in this subpart, the definitions for ''attributable interest'' contained in the notes to § 76.501 shall be used, provided, however that:

(1) The single majority shareholder provisions of Note 2(b) to § 76.501 and the limited partner insulation provisions of Note 2(g) to § 76.501 shall not apply; and

(2) The provisions of Note 2(a) to § 76.501 regarding five (5) percent interests shall include all voting or nonvoting stock or limited partnership equity interests of five (5) percent or more.

(b) *Buying groups.* The term ''buying group'' or ''agent,'' for purposes of the definition of a multichannel video programming distributor set forth in paragraph (e) of this section, means an entity representing the interests of more than one entity distributing multichannel video programming that:

(1) Agrees to be financially liable for any fees due pursuant to a satellite cable programming, or satellite broadcast programming, contract which it signs as a contracting party as a representative of its members or whose members, as contracting parties, agree to joint and several liability; and

(2) Agrees to uniform billing and standardized contract provisions for individual members; and

(3) Agrees either collectively or individually on reasonable technical quality standards for the individual members of the group.

(c) *Multichannel video programming distributor.* The term ''multichannel video programming distributor'' means an entity engaged in the business of

making available for purchase, by subscribers or customers, multiple channels of video programming. Such entities include, but are not limited to, a cable operator, a multichannel multipoint distribution service, a direct broadcast satellite service, a television receive-only satellite program distributor, and a satellite master antenna television system operator, as well as buying groups or agents of all such entities.

(d) *Video programming vendor.* The term ''video programming vendor'' means a person engaged in the production, creation, or wholesale distribution of video programming for sale.

§ 76.1301 Prohibited practices.

(a) *Financial interest.* No cable operator or other multichannel video programming distributor shall require a financial interest in any program service as a condition for carriage on one or more of such operator's/provider's systems.

(b) *Exclusive rights.* No cable operator or other multichannel video programming distributor shall coerce any video programming vendor to provide, or retaliate against such a vendor for failing to provide, exclusive rights against any other multichannel video programming distributor as a condition for carriage on a system.

(c) *Discrimination.* No multichannel video programming distributor shall engage in conduct the effect of which is to unreasonably restrain the ability of an unaffiliated video programming vendor to compete fairly by discriminating in video programming distribution on the basis of affiliation or non-affiliation of vendors in the selection, terms, or conditions for carriage of video programming provided by such vendors.

§ 76.1302 Adjudicatory proceedings.

Any video programming vendor or multichannel video programming distributor aggrieved by conduct that it alleges to constitute a violation of the regulations set forth in this subpart may commence an adjudicatory proceeding at the Commission.

(a) *Notice required.* Any aggrieved video programming vendor or multichannel video programming distributor intending to file a complaint under this section must first notify the defendant multichannel video programming distributor that it intends to file a complaint with the Commission based on actions alleged to violate one or more of the provisions contained in § 76.1301. The notice must be sufficiently detailed so that its recipient(s) can determine the specific nature of the potential complaint. The potential complainant must allow a minimum of ten (10) days for the potential defendant(s) to respond before filing a complaint with the Commission.

(b) *General pleading requirements.* Carriage agreement complaint proceedings are generally resolved on a written record consisting of a complaint, answer and reply, but may also include other written submissions such as briefs and written interrogatories. All written submissions, both substantive and procedural, must conform to the following standards:

(1) Pleadings must be clear, concise, and explicit. All matters concerning a claim, defense or requested remedy should be pleaded fully and with specificity.

(2) Pleadings must contain facts which, if true, are sufficient to constitute a violation of the Act or Commission order or regulation, or a defense to such alleged violation.

(3) Facts must be supported by relevant documentation or affidavit.

(4) Legal arguments must be supported by appropriate judicial, Commission, or statutory authority.

(5) Opposing authorities must be distinguished.

(6) Copies must be provided of all non-Commission authorities relied upon which are not routinely available in national reporting systems, such as unpublished decisions or slip opinions of courts or administrative agencies.

(7) Parties are responsible for the continuing accuracy and completeness of all information and supporting authority furnished in a pending complaint proceeding. Information submitted, as well as relevant legal authorities, must be current and updated as necessary and in a timely manner at any time before a decision is rendered on the merits of the complaint.

(c) *Complaint.*

(1) A carriage agreement complaint shall contain:

(i) The name of the complainant and defendant;

(ii) The address and telephone number of the complainant, the type of multichannel video programming distributor that describes the defendant, and the address and telephone number of the defendant;

(iii) The name, address and telephone number of complainant's attorney, if represented by counsel;

(iv) Citation to the section of the Communications Act and/or Commission regulation or order alleged to have been violated;

(v) A complete statement of facts, which, if proven true, would constitute such a violation;

(vi) Any evidence that supports the truth or accuracy of the alleged facts, including, when relevant, any written carriage agreement between the complainant and the defendant, with proprietary information redacted;

(vii) Evidence that supports complainant's belief that the defendant, where necessary, meets the attribution standards for application of the carriage agreement regulations;

(viii) For complaints alleging a violation of § 76.1301(c), evidence that supports complainant's claim that the effect of the conduct complained of is to unreasonably restrain the ability of the complainant to compete fairly;

(ix) The specific relief sought, and the rationale and any evidence in support of the relief sought.

(2) Every complaint alleging a violation of the carriage agreement requirements shall be accompanied by a sworn affidavit signed by an authorized officer or agent of the complainant. This affidavit shall contain a statement that the affiant has read the complaint and that to the best of the affiant's knowledge, information and belief formed after reasonable inquiry it is well grounded in fact and is warranted under Commission regulations and policies or is a good faith argument for the extension, modification or reversal of such regulations or policies, and it is not interposed for any improper purpose. If the complaint is signed in violation of this rule, the Commission upon motion or its own initiative shall impose upon the complainant an appropriate sanction.

(3) The following format may be used in cases to which it is applicable, with such modifications as the circumstances may render necessary:

Before the Federal Communications Commission, Washington, DC 20554

In the matter of Complainant, v. Defendant.

File No. (To be inserted by the Commission) [Insert Subject/Nature of Violation]

Carriage Agreement Complaint

To: The Commission.

The complainant (here insert full name of complainant, and if a corporation, the corporate title of such complainant).

1. (Here state the complainant's post office address and telephone number.)

2. (Here insert the name, defendant's method of multichannel video distribution, address and telephone number of defendant.)

3. (Here insert fully and clearly the specific act or thing complained of, together with such facts as are necessary to give full understanding of the matter, including relevant legal and documentary support.)

Wherefore, complainant asks (here state specifically the relief desired, including rationale and relevant legal and documentary support for such relief).

(Date)

(Name of complainant)

(Name, address, and telephone number of attorney, if any)

(4) The complaint must be accompanied by appropriate evidence demonstrating that the required notification pursuant to paragraph (a) of this section has been made.

(d) *Answer.*

(1) Any multichannel video programming distributor upon which a carriage agreement complaint is served under this section shall answer within thirty (30) days of service of the complaint, unless otherwise directed by the Commission.

(2) The answer shall advise the parties and the Commission fully and completely of the nature of any and all defenses, and shall respond specifically to all material allegations of the complaint. Collateral or immaterial issues shall be avoided in answers and every effort should be made to narrow the issues. Any defendant failing to file and serve an answer within the time and in the manner prescribed by these rules may be deemed in default and an order

may be entered against defendant in accordance with the allegations contained in the complaint.

(3) The answer shall state concisely any and all defenses to each claim asserted and shall admit or deny the averments on which the adverse party relies. If the defendant is without knowledge or information sufficient to form a belief as to the truth of an averment, the defendant shall so state and this has the effect of a denial. When a defendant intends in good faith to deny only part of an averment, the answer shall specify so much of it as is true and shall deny only the remainder. The defendant may make its denials as specific denials of designated averments or paragraphs, or may generally deny all the averments except such designated averments or paragraphs as the defendant expressly admits. When the defendant intends to controvert all averments, the defendant may do so by general denial.

(4) Averments in a complaint are deemed to be admitted when not denied in the answer.

(5) The answer shall also address the relief requested in the complaint, including legal and documentary support for such response, and may include an alternative relief proposal without prejudice to any denials or defenses raised.

(e) *Reply*. Within twenty (20) days after service of an answer, the complainant may file and serve a reply which shall be responsive to matters contained in the answer and shall not contain new matters. Failure to reply will not be deemed an admission of any allegations contained in the answer, except with respect to any affirmative defenses set forth therein.

(f) *Motions.* Except as provided in this section, or upon a showing of extraordinary circumstances, additional motions or pleadings by any party will not be accepted.

(g) *Discovery*.

(1) The Commission staff may in its discretion order discovery limited to the issues specified by the Commission. Such discovery may include answers to written interrogatories or document production.

(2) The Commission staff may in its discretion hold a status conference with the parties, pursuant to paragraph (j) of this section, to determine the scope of discovery.

(3) If the Commission staff determines that extensive discovery is required or that resolution of the complaint will require resolution of disputed facts, the staff will advise the parties that the proceeding will be referred to an administrative law judge in accordance with paragraph (m) of this section.

(h) *Confidentiality of proprietary information*.

(1) Any materials generated or provided by a party in the course of adjudicating a carriage agreement complaint under this subpart may be designated as proprietary by that party if the party believes in good faith that the materials fall within an exemption to disclosure contained in the Freedom of Information Act (FOIA), 5 U.S.C. 552(b). Any party asserting confidentiality for such materials shall so indicate by clearly marking each page, or portion thereof, for which a proprietary designation is claimed. If a proprietary designation is challenged, the party claiming confidentiality will have the burden of demonstrating, by a preponderance of the evidence, that the material designated as proprietary falls under the standards for nondisclosure enunciated in the FOIA.

(2) Materials marked as proprietary may be disclosed solely to the following persons, only for use in prosecuting or defending a party to the complaint action, and only to the extent necessary to assist in the prosecution or defense of the case:

(i) Counsel of record representing the parties in the complaint action and any support personnel employed by such attorneys;

(ii) Officers or employees of the opposing party who are named by the opposing party as being directly involved in the prosecution or defense of the case;

(iii) Consultants or expert witnesses retained by the parties;

(iv) The Commission and its staff; and

(v) Court reporters and stenographers in accordance with the terms and conditions of this section. These individuals shall not disclose information designated as proprietary to any person who is not authorized under this section to receive such information, and shall not use the information in any activity or function other than the prosecution or defense in the case before the Commission. Each individual who is provided access to the information by the opposing party shall sign a notarized statement affirmatively stating, or shall certify under penalty of perjury, that the individual has personally reviewed the Commission's rules and understands the limitations they impose on the signing party.

(3) No copies of materials marked proprietary may be made except copies to be used by persons designated in paragraph (h)(2) of this section. Each party shall maintain a log recording the number of copies made of all proprietary material and the persons to whom the copies have been provided.

(4) Upon termination of the complaint proceeding, including all appeals and petitions, all originals and reproductions of any proprietary materials, along with the log recording persons who received copies of such materials, shall be provided to the producing party. In addition, upon final termination of the complaint proceeding, any notes or other work product derived in whole or in part from the proprietary materials of an opposing or third party shall be destroyed

(i) *Other required written submissions.*

(1) The Commission may, in its discretion, require the parties to file briefs summarizing the facts and issues presented in the pleadings and other record evidence. These briefs shall contain the findings of fact and conclusions of law which that party is urging the Commission to adopt, with specific citations to the record, and supported by relevant authority and analysis.

(2) The Commission may require the parties to submit any additional information it deems appropriate for a full, fair, and expeditious resolution of the proceeding, including copies of all contracts and documents reflecting arrangements and understandings alleged to violate the carriage agreement requirements set forth in the Communications Act and § 76.1301, as well as affidavits and exhibits.

(3) Any briefs submitted shall be filed concurrently by both the complainant and defendant at such time as is designated by the staff. Such briefs shall not exceed fifty (50) pages.

(4) Reply briefs may be submitted by either party within twenty (20) days from the date initial briefs are due. Reply briefs shall not exceed thirty (30) pages.

(5) Briefs containing information which is claimed by an opposing or third party to be proprietary under paragraph (h) of this section shall be submitted to the Commission in confidence pursuant to the requirements of § 0.459 of this chapter, and shall be clearly marked ''Not for Public Inspection.'' An edited version removing all proprietary data shall be filed with the Commission for inclusion in the public file within five (5) days from the date the unedited version is submitted and served on opposing parties.

(j) *Status conference.*

(1) In any carriage agreement complaint proceeding, the Commission staff may in its discretion direct the attorneys and/or the parties to appear for a conference to consider:

(i) Simplification or narrowing of the issues;

(ii) The necessity for or desirability of amendments to the pleadings, additional pleadings, or other evidentiary submissions;

(iii) Obtaining admissions of fact or stipulations between the parties as to any or all of the matters in controversy;

(iv) Settlement of the matters in controversy by agreement of the parties;

(v) The necessity for and extent of discovery, including objections to interrogatories or requests for written documents;

(vi) The need and schedule for filing briefs, and the date for any further conferences; and

(vii) Such other matters that may aid in the disposition of the complaint.

(2) Any party may request that a conference be held at any time after the complaint has been filed.

(3) Conferences will be scheduled by the Commission at such time and place as it may designate, to be conducted in person or by telephone conference call.

(4) The failure of any attorney or party, following reasonable notice, to appear at a scheduled conference will be deemed a waiver and will not preclude the Commission from conferring with those parties or counsel present.

(5) During a status conference, the Commission staff may issue oral rulings pertaining to a variety of interlocutory matters relevant to the conduct of a carriage agreement complaint proceeding including, inter alia, procedural matters, discovery, and the submission of briefs or other evidentiary materials. These rulings will be promptly memorialized in writing and served on the parties. When such rulings require a party to take affirmative action not subject to deadlines established by another provision of this subpart, such action will be required within ten (10) days from the date of the written memorialization unless otherwise directed by the staff.

(k) *Specifications as to pleadings, briefs, and other documents; subscriptions.*

(1) All papers filed in a carriage agreement complaint proceeding must be drawn in conformity with the requirements of §§ 1.49 and 1.50 of this chapter.

(2) All averments of claims or defenses in complaints and answers shall be made in numbered paragraphs. The contents of each paragraph shall be limited as far as practicable to a statement of a single set of circumstances. Each claim founded on a separate transaction or occurrence and each affirmative defense shall be separately stated to facilitate the clear presentation of the matters set forth.

(3) The original of all pleadings and submissions by any party shall be signed by that party, or by the party's attorney. Complaints must be signed by the complainant. The signing party shall state his or her address and telephone number and the date on which the document was signed. Copies should be conformed to the original. Except when otherwise specifically provided by rule or statute, pleadings need not be verified. The signature of an attorney or party shall be a certification that the attorney or party has read the pleading, motion, or other paper; that to the best of his or her knowledge, information and belief formed after reasonable inquiry, it is well grounded in fact and is warranted by existing law or a good faith argument for the extension, modification or reversal of existing law; and that it is not interposed for any improper purpose. If any pleading or other submission is signed in violation of this provision, the Commission shall upon motion or upon its own initiative impose upon the party an appropriate sanction. Where the pleading or submission is signed by counsel, the provisions of §§ 1.52 and 1.24 of this chapter shall also apply

(l) *Copies; service.*

(1) The complainant shall file an original plus three copies of the complaint with the Commission.

(2) An original plus two copies shall be filed of all pleadings and documents other than the complaint.

(3) The complainant shall serve the complaint on each defendant at the same time that it is filed at the Commission.

(4) All subsequent pleadings and briefs, as well as all letters, documents or other written submissions, shall be served by the filing party on all other parties to the proceeding, together with proof of such service in accordance with the requirements of § 1.47 of this chapter.

(5) The parties to any carriage agreement complaint proceeding brought pursuant to this section may be required to file additional copies of any or all papers filed in the proceeding.

(m) *Referral to administrative law judge.*

(1) After reviewing the complaint, answer and reply, and at any stage of the proceeding thereafter, the Commission staff may, in its discretion, designate any carriage agreement complaint proceeding for an adjudicatory hearing before an administrative law judge.

(2) Before designation for hearing, the staff shall notify, either orally or in writing, the parties to the proceeding of its intent to so designate, and the parties shall be given a period of

ten (10) days to elect to resolve the dispute resolution procedures, or to proceed with an adjudicatory hearing. Such election shall be submitted in writing to the Commission.

(3) Unless otherwise directed by the Commission, or upon motion by the Mass Media Bureau Chief, the Mass Media Bureau Chief shall not be deemed to be a party to a carriage agreement complaint proceeding designated for a hearing before an administrative law judge pursuant to this paragraph (m).

(n) *Petitions for reconsideration.* Petitions for reconsideration of interlocutory actions by the Commission's staff or by an administrative law judge will not be entertained. Petitions for reconsideration of a decision on the merits made by the Commission's staff should be filed in accordance with §§ 1.104 through 1.106 of this chapter.

(o) *Interlocutory review.*

(1) Except as provided in paragraph (o)(2) of this section, no party may seek review of interlocutory rulings until a decision on the merits has been issued by the staff or administrative law judge.

(2) Rulings listed in this paragraph are reviewable as a matter of right. An application for review of such ruling may not be deferred and raised as an exception to a decision on the merits.

(i) If the staff's ruling denies or terminates the right of any person to participate as a party to the proceeding, such person, as a matter of right, may file an application for review of that ruling.

(ii) If the staff's ruling requires production of documents or other written evidence, over objection based on a claim of privilege, the ruling on the claim of privilege is reviewable as a matter of right.

(iii) If the staff's ruling denies a motion to disqualify a staff person from participating in the proceeding, the ruling is reviewable as a matter of right.

(p) *Expedited review.*

(1) Any party to a carriage agreement complaint proceeding aggrieved by any decision on the merits issued by the staff pursuant to delegated authority may file an application for review by the Commission in accordance with § 1.115 of this chapter.

(2) Any party to a carriage agreement complaint proceeding aggrieved by any decision on the merits by an administrative judge may file an appeal of the decision directly with the Commission in accordance with § 1.276(a) and §§ 1.277 (a) through (c) of this chapter, except that unless a stay is granted by the Commission, the decision by the administrative law judge will become effective upon release and will remain in effect pending appeal.

(q) *Frivolous complaints.* It shall be unlawful for any party to file a frivolous complaint with the Commission alleging any violation of this subpart. Any violation of this paragraph shall constitute an abuse of process subject to appropriate sanctions.

(r) *Statute of limitations.* Any complaint filed pursuant to this paragraph must be filed within one year of the date on which one of the following events occurs:

(1) The multichannel video programming distributor enters into a contract with a video programming vendor that a party alleges to violate one or more of the rules contained in this section; or

(2) The multichannel video programming distributor offers to carry the video programming vendor's programming pursuant to terms that a party alleges to violate one or more of the rules contained in this section; or

(3) A party has notified a multichannel video programming distributor that it intends to file a complaint with the Commission based on violations of one or more of the rules contained in this section.

(s) *Remedies for violations.*

(1) *Remedies authorized.* Upon completion of such adjudicatory proceeding, the Commission shall order appropriate remedies, including, if necessary, mandatory carriage of a video programming vendor's programming on defendant's video distribution system, or the establishment of prices, terms, and conditions for the carriage of a video programming vendor's programming. Such order shall set forth a timetable for compliance, and shall become effective upon release, unless any order of mandatory carriage would require the

defendant multichannel video programming distributor to delete existing programming from its system to accommodate carriage of a video programming vendor's programming. In such instances, if the defendant seeks review of the staff or administrative law judge decision, the order for carriage of a video programming vendor's programming will not become effective unless and until the decision of the staff or administrative law judge is upheld by the Commission. If the Commission upholds the remedy ordered by the staff or administrative law judge in its entirety, the defendant will be required to carry the video programming vendor's programming for an additional period of time equal to the time elapsed between the staff or administrative law judge decision and the Commission's ruling, on the terms and conditions approved by the Commission.

(2) *Additional sanctions.* The remedies provided in paragraph (s)(1) of this section are in addition to and not in lieu of the sanctions available under title V or any other provision of the Communications Act.

[58 FR 60395, Nov. 16, 1993, as amended at 59 FR 43777, Aug. 25, 1994]

§§ 76.1303—76.1305 [Reserved]

Subpart R—Telecommunications Act Implementation

SOURCE: 61 FR 18980, Apr. 30, 1996, unless otherwise noted.

§ 76.1400 Purpose.

The rules and regulations set forth in this subpart provide procedures for administering certain aspects of cable regulation. These rules and regulations provide guidance for operators, subscribers and franchise authorities with respect to matters that are subject to immediate implementation under governing statutes but require specific regulatory procedures or definitions.

§ 76.1401 Effective competition and local exchange carriers.

(a) As used in § 76.905(b)(4), the term ''comparable'' programming means access to at least 12 channels of programming, at least some of which are local television broadcasting signals.

(b) As used in § 76.905(b)(4), the term ''affiliate'' means a person that (directly or indirectly) owns or controls, is owned or controlled by, or is under common ownership or control with another person. For purposes of the section, the term ''own'' means to own an equity interest (or the equivalent thereof) of more than 10 percent.

(c) An operator meeting the relevant criteria under § 76.905(b)(4), may, at any time, file a petition for a determination of effective competition with the Commission. The petition should set forth information supporting a determination that effective competition exists as defined in § 76.905(d)(4).

(d) Upon filing of a petition described in paragraph (c) of this section with the Commission, the operator filing the petition shall provide a copy of the petition to the local franchise authority. The Commission will issue a public notice of the petition's filing to allow interested parties to respond. The Commission may then issue an order granting or denying the petition. The Commission may issue an order directing one or more persons to produce information relevant to the petition's disposition.

§ 76.1402 CPST rate complaints.

(a) A local franchise authority may file rate complaints with the Commission within 180 days of the effective date of a rate increase on the cable operator's cable programming services tier if within 90 days of that increase the local franchise authority receives more than one subscriber complaint concerning the increase.

(b) Before filing a rate complaint with the Commission, the local franchise authority must first give the cable operator written notice, including a draft FCC Form 329, of the local franchise authority's intent to file the complaint. The local franchise authority must give an operator a minimum of 30 days to file with the local franchise authority the relevant FCC forms that must be filed to justify a rate increase or, where appropriate, certification that the operator is not subject to rate regulation. The operator must file a complete response with the local

franchise authority within the time period specified by the local franchise authority. The local franchise authority shall file with the Commission the complaint and the operator's response to the Complaint. If the operator's response to the complaint asserts that the operator is exempt from rate regulation, the operator's response can be filed with the local franchise authority without filing specific FCC Forms.

§ 76.1403 Small cable operators.

(a) Effective February 8, 1996, a small cable operator is exempt from rate regulation on its cable programming services tier, or on its basic service tier if that tier was the only service tier subject to rate regulation as of December 31, 1994, in any franchise area in which that operator services 50,000 or fewer subscribers.

(b) A small cable operator is an operator who, directly or through an affiliate, serves in the aggregate fewer than 617,000 subscribers in the United States and whose annual revenues, when combined with the total annual revenues of all of its affiliates, do not exceed $250 million in the aggregate.

(c) As used in this section, an operator shall be deemed affiliated with another entity if that entity holds a 20 percent or greater equity interest, passive or active, in the operator or exercises de jure or de facto control over the operator.

(d) Procedures. (1) If a small cable operator has only a single tier that is subject to regulation, the operator, at any time, may certify in writing to its local franchise authority that it meets all criteria necessary to qualify as a small operator. Upon request of the local franchising authority, the operator shall identify in writing all of its affiliates that provide cable service, the total subscriber base of itself and each affiliate, and the aggregate gross revenues of its cable and non-cable affiliates. Within 90 days of receiving the original certification, the local franchising authority shall determine whether the operator qualifies for deregulation and shall notify the operator in writing of its decision, although this 90-day period shall be tolled for so long as it takes the operator to respond to a proper request for information by the local franchising authority. If the local franchising authority finds that the operator does not qualify for deregulation, its notice shall state the grounds for that decision. The operator may appeal the local franchising authority's decision to the Commission within 30 days.

(2) Once the operator has certified its eligibility for deregulation on the basic service tier, the local franchising authority shall not prohibit the operator from taking a rate increase and shall not order the operator to make any refunds unless and until the local franchising authority has rejected the certification in a final order that is no longer subject to appeal or that the Commission has affirmed. The operator shall be liable for refunds for revenues gained (beyond revenues that could be gained under regulation) as a result of any rate increase taken during the period in which it claimed to be deregulated, plus interest, in the event the operator is later found not to be deregulated. The one-year limitation on refund liability will not be applicable during that period to ensure that the filing of an invalid small operator certification does not reduce any refund liability that the operator would otherwise incur.

(3) Within 30 days of being served with a local franchising authority's notice that the local franchising authority intends to file a cable programming services tier rate complaint, an operator may certify to the local franchising authority that it meets the criteria for qualification as a small cable operator. This certification shall be filed in accordance with the cable programming services rate complaint procedure set forth in § 76.1402. Absent a cable programming services rate complaint, the operator need not file for small cable operator certification in order to treat its cable programming services tier as deregulated.

(4) If a pending CPST rate complaint was filed with the Commission before April 30, 1996 the operator should file its certification of small cable operator status directly with the Commission within 15 days of that date.

§ 76.1404 Use of cable facilities by local exchange carriers.

For purposes of § 76.505(d)(2), the Commission will determine whether use of a cable operator's facilities by a local exchange carrier is reasonably limited in scope and duration according to the following procedures:

(a) Within 10 days of final execution of a contract permitting a local exchange carrier to use that part of the transmission facilities of a cable system extending from the last multi-user terminal to the premises of the end use, the parties shall submit a copy of such contract, along with an explanation of how such contract is reasonably limited in scope and duration, to the Commission for review. The parties shall serve a copy of this submission on the local franchising authority, along with a notice of the local franchising authority's right to file comments with the Commission consistent with § 76.7.

(b) Based on the record before it, the Commission shall determine whether the local exchange carrier's use of that part of the transmission facilities of a cable system extending from the last multi-use terminal to the premises of the end user is reasonably limited in scope and duration. In making this determination, the Commission will evaluate whether the proposed joint use of cable facilities promotes competition in both services and facilities, and encourages long-term investment in telecommunications infrastructure.

Subpart S—Open Video Systems

SOURCE: 61 FR 28708, June 5, 1996, unless otherwise noted.

§ 76.1500 Definitions.

(a) *Open video system.* A facility consisting of a set of transmission paths and associated signal generation, reception, and control equipment that is designed to provide cable service which includes video programming and which is provided to multiple subscribers within a community, provided that the Commission has certified that such system complies with this part.

(b) *Open video system operator* (''operator''). Any person or group of persons who provides cable service over an open video system and directly or through one or more affiliates owns a significant interest in such open video system, or otherwise controls or is responsible for the management and operation of such an open video system.

(c) *Video programming provider.* Any person or group of persons who has the right under the copyright laws to select and contract for carriage of specific video programming on an open video system.

(d) *Activated channels.* This term shall have the same meaning as provided in the cable television rules, 47 CFR 76.5(nn).

(e) *Shared channel.* Any channel that carries video programming that is selected by more than one video programming provider and offered to subscribers.

(f) *Cable service.* This term shall have the same meaning as provided in the cable television rules, 47 CFR 76.5(ff).

(g) *Affiliate.* For purposes of determining whether a party is an ''affiliate'' as used in this subpart, the definitions contained in the notes to § 76.501 shall be used, provided, however that:

(1) The single majority shareholder provisions of Note 2(b) to § 76.501 and the limited partner insulation provisions of Note 2(g) to § 76.501 shall not apply; and

(2) The provisions of Note 2(a) to § 76.501 regarding five (5) percent interests shall include all voting or nonvoting stock or limited partnership equity interests of five (5) percent or more.

(h) *Other terms.* Unless otherwise expressly stated, words not defined in this part shall be given their meaning as used in Title 47 of the United States Code, as amended, and, if not defined therein, their meaning as used in Part 47 of the Code of Federal Regulations.

[61 FR 28708, June 5, 1996, as amended at 61 FR 43175, Aug. 21, 1996]

EFFECTIVE DATE NOTE: At 61 FR 43175, Aug. 21, 1996, in § 76.1500, paragraph (g) was redesignated as (h); a new paragraph (g) was added. This amendment contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

§ 76.1501 Qualifications to be an open video system operator.

Any person may obtain a certification to operate an open video system pursuant to Section 653(a)(1) of the Communications Act, 47 U.S.C. 573(a)(1), except that an operator of a cable system, regardless of any other service that the cable operator may provide, may not obtain such a certification within its cable service area unless it is subject to ''effective competition,'' as defined in Section 623(l)(1) of the Communications Act, 47 U.S.C. 543(l)(1). A cable operator that is not subject to effective competition within its cable service area may file a petition with the Commission, seeking a finding that particular circumstances exist that make it consistent with the public interest, convenience, and necessity to allow the operator to convert its cable system to an open video system. Nothing herein shall be construed to affect the terms of any franchising agreement or other contractual agreement.

NOTE: § 76.1501: An example of a circumstance in which the public interest, convenience and necessity would be served by permitting a cable operator not subject to effective competition to become an open video system operator within its cable service area is where the entry of a facilities-based competitor into its cable service area would likely be infeasible.

§ 76.1502 Certification.

(a) An operator of an open video system must certify to the Commission that it will comply with the Commission's regulations in 47 CFR 76.1503, 76.1504, 76.1506(m), 76.1508, 76.1509, and 76.1513. If construction of new physical plant is required, the Commission must approve such certification prior to the commencement of construction. If no new construction is required, the Commission must approve such certification prior to the commencement of service at such a point in time that would allow the applicant sufficient time to comply with the Commission's notification requirements.

(b) Certifications must be verified by an officer or director of the applicant, stating that, to the best of his or her information and belief, the representations made therein are accurate.

(c) Certifications must be filed on FCC Form 1275 and must include:

(1) The applicant's name, address and telephone number;

(2) A statement of ownership, including all affiliated entities;

(3) If the applicant is a cable operator applying for certification in its cable franchise area, a statement that the applicant is qualified to operate an open video system under Section 76.1501.

(4) A statement that the applicant agrees to comply and to remain in compliance with each of the Commission's regulations in §§ 76.1503, 76.1504, 76.1506(m), 76.1508, 76.1509, and 76.1513;

(5) If the applicant is required under 47 CFR 64.903(a) of this chapter to file a cost allocation manual, a statement that the applicant will file changes to its manual at least 60 days before the commencement of service;

(6) A list of the names of the anticipated local communities to be served upon completion of the system;

(7) The anticipated amount and type (i.e., analog or digital) of capacity (for switched digital systems, the anticipated number of available channel input ports); and

(8) A statement that the applicant will comply with the Commission's notice and enrollment requirements for unaffiliated video programming providers.

(d) Parties are required to attach a cover sheet to the filing indicating that the submission is an open video system certification application. The only wording on this cover sheet shall be ''Open Video System Certification Application'' and ''Attention: Cable Services Bureau.'' This wording shall be located in the center of the page and should be in letters at least ½ inch in size. Parties shall also include the words ''open video systems'' on their mailing envelope.

(e)(1) Comments or oppositions to a certification must be filed within five calendar days of the Commission's receipt of the certification and must be served on the party that filed the certification. If, after making the necessary calculations, the due date for filing comments falls on a holiday, comments shall be filed on the next business day before noon, unless the

nearest business day precedes the fifth calendar day following a filing, in which case the comments will be due on the preceding business day. For example, if the fifth day falls on a Saturday, then the filing would be due on that preceding Friday. However, if the fifth day falls on Sunday, then the filing will be due on the next day, Monday, before noon (or Tuesday, before noon if the Monday is a holiday).

(2) Parties wishing to respond to a FCC Form 1275 filing must submit comments or oppositions with the Office of the Secretary and the Bureau Chief, Cable Services Bureau. Comments will not be considered properly filed unless filed with both of these Offices. Parties are required to attach a cover sheet to the filing indicating that the submission is a pleading related to an open video system application, the only wording on this cover sheet shall be ''Open Video System Certification Application Comments.'' This wording shall be located in the center of the page and should be in letters at least ½ inch in size. Parties shall also include the words ''open video systems'' on their mailing envelopes.

(f) If the Commission does not disapprove the certification application within ten days after receipt of an applicant's request, the certification application will be deemed approved. If disapproved, the applicant may file a revised certification or refile its original submission with a statement addressing the issues in dispute. Such refilings must be served on any objecting party or parties and on all local communities in which the applicant intends to operate. The Commission will consider any revised or refiled FCC Form 1275 to be a new proceeding and any party who filed comments regarding the original FCC Form 1275 will have to refile their original comments if they think such comments should be considered in the subsequent proceeding.

[61 FR 28708, June 5, 1996, as amended at 61 FR 43175, Aug. 21, 1996; 62 FR 26238, May 13, 1997]

§ 76.1503 Carriage of video programming providers on open video systems.

(a) *Non-discrimination principle.* Except as otherwise permitted in applicable law or in this part, an operator of an open video system shall not discriminate among video programming providers with regard to carriage on its open video system, and its rates, terms and conditions for such carriage shall be just and reasonable and not unjustly or unreasonably discriminatory.

(b) *Demand for carriage.* An operator of an open video system shall solicit and determine the level of demand for carriage on the system among potential video programming providers in a non-discriminatory manner.

(1) *Notification.* An open video system operator shall file with the Secretary of the Federal Communications Commission a ''Notice of Intent'' to establish an open video system, which the Commission will release in a Public Notice. Parties are required to attach a cover sheet to the filing indicating that the submission is an Open Video System Notice of Intent. The only wording on this cover sheet shall be ''Open Video System Notice of Intent'' and ''Attention: Cable Services Bureau.'' This wording shall be located in the center of the page and should be in letters at least ½ inch in size. Parties shall also include the words ''open video systems'' on their mailing envelopes. Parties must submit copies of the Notice of Intent with the Office of the Secretary and the Bureau Chief, Cable Services Bureau. The Notice of Intent shall include the following information:

(i) A heading clearly indicating that the document is a Notice of Intent to establish an open video system;

(ii) The name, address and telephone number of the open video system operator;

(iii) A description of the system's projected service area;

(iv) A description of the system's projected channel capacity, in terms of analog, digital and other type(s) of capacity upon activation of the system;

(v) A description of the steps a potential video programming provider must

follow to seek carriage on the open video system, including the name, address and telephone number of a person to contact for further information;

(vi) The starting and ending dates of the initial enrollment period for video programming providers;

(vii) The process for allocating the system's channel capacity, in the event that demand for carriage on the system exceeds the system's capacity; and

(viii) A certification that the operator has complied with all relevant notification requirements under the Commission's open video system regulations concerning must-carry and retransmission consent (§ 76.1506), including a list of all local commercial and non-commercial television stations served, and a certificate of service showing that the Notice of Intent has been served on all local cable franchising authorities entitled to establish requirements concerning the designation of channels for public, educational and governmental use.

(2) *Information.* An open video system operator shall provide the following information to a video programming provider within five business days of receiving a written request from the provider, unless otherwise included in the Notice of Intent:

(i) The projected activation date of the open video system. If a system is to be activated in stages, the operator should describe the respective stages and the projected dates on which each stage will be activated;

(ii) A preliminary carriage rate estimate;

(iii) The information a video programming provider will be required to provide to qualify as a video programming provider, e.g., creditworthiness;

(iv) Technical information that is reasonably necessary for potential video programming providers to assess whether to seek capacity on the open video system, including what type of customer premises equipment subscribers will need to receive service;

(v) Any transmission or reception equipment needed by a video programming provider to interface successfully with the open video system; and

(vi) The equipment available to facilitate the carriage of unaffiliated video programming and the electronic form(s) that will be accepted for processing and subsequent transmission through the system.

(3) *Qualifications of video programming providers.* An open video system operator may impose reasonable, non-discriminatory requirements to assure that a potential video programming provider is qualified to obtain capacity on the open video system.

(c) *One-third limit.* If carriage demand by video programming providers exceeds the activated channel capacity of the open video system, the operator of the open video system and its affiliated video programming providers may not select the video programming services for carriage on more than one-third of the activated channel capacity on such system.

(1) *Measuring capacity.* For purposes of this section:

(i) If an open video system carries both analog and digital signals, an open video system operator shall measure analog and digital activated channel capacity independently;

(ii) Channels that an open video system is required to carry pursuant to the Commission's regulations concerning public, educational and governmental channels and must-carry channels shall be included in ''activated channel capacity'' for purposes of calculating the one-third of such capacity on which the open video system operator and its affiliates are allowed to select the video programming for carriage. Such channels shall not be included in the one-third of capacity on which the open video system operator is permitted to select programming where demand for carriage exceeds system capacity;

(iii) Channels that an open video system operator carries pursuant to the Commission's regulations concerning retransmission consent shall be included in ''activated channel capacity'' for purposes of calculating the one-third of such capacity on which the open video system operator and its affiliates are allowed to select the video programming for carriage. Such channels shall be included in the one-third of capacity on which the open video system operator is permitted to select programming, where demand for carriage exceeds system capacity, to the

extent that the channels are carried as part of the programming service of the operator or its affiliate, subject to paragraph (c)(1)(iv); and

(iv) Any channel on which shared programming is carried shall be included in ''activated channel capacity'' for purposes of calculating the one-third of such capacity on which the open video system operator and its affiliates are allowed to select the video programming for carriage. Such channels shall be included in the one-third of capacity on which the open video system operator is permitted to select programming, where demand for carriage exceeds system capacity, to the extent the open video system operator or its affiliate is one of the video programming providers sharing such channel.

NOTE TO PARAGRAPH (c)(1)(iv): For example, if the open video system operator and two unaffiliated video programming providers each carry a programming service that is placed on a shared channel, the shared channel shall count as 0.33 channels against the one-third amount of capacity allocable to the open video system operator, where demand for carriage exceeds system capacity.

(2) *Allocating capacity*. An operator of an open video system shall allocate activated channel capacity through a fair, open and non-discriminatory process; the process must be insulated from any bias of the open video system operator and verifiable.

(i) If an open video system carries both analog and digital signals, an open video system operator shall treat analog and digital capacity separately in allocating system capacity.

(ii) *Subsequent changes in capacity or demand*. An open video system operator must allocate open capacity, if any, at least once every three years, beginning three years from the date of service commencement. Open capacity shall be allocated in accordance with this section. Open capacity shall include all capacity that becomes available during the course of the three-year period, as well as capacity in excess of one-third of the system's activated channel capacity on which the operator of the open video system or its affiliate selects programming. An operator shall maintain a file of qualified video programming providers who have requested carriage or additional carriage since the previous allocation of capacity. Information regarding how a video programming provider should apply for carriage must be made available upon request.

NOTE 1 TO PARAGRAPH (c)(2)(ii): An open video system operator will not be required to comply with the regulations contained in this section if there is no open capacity to be allocated at the end of the three year period.

NOTE 2 TO PARAGRAPH (c)(2)(ii): An open video system operator shall be required to accommodate changes in obligations concerning public, educational or governmental channels or must-carry channels in accordance with Sections 611, 614 and 615 of the Communications Act and the regulations contained in this part.

(iii) *Channel sharing*. An open video system operator may carry on only one channel any video programming service that is offered by more than one video programming provider (including the operator's video programming affiliate), provided that subscribers have ready and immediate access to any such programming service. Nothing in this section shall be construed to impair the rights of programming services.

NOTE 1 TO PARAGRAPH (c)(2)(iii): An open video system operator may implement channel sharing only after it becomes apparent that one or more video programming services will be offered by multiple video programming providers. An open video system operator may not select, in advance of any duplication among video programming providers, which programming services shall be placed on shared channels.

NOTE 2 TO PARAGRAPH (c)(2)(iii): Each video programming provider offering a programming service that is carried on a shared channel must have the contractual permission of the video programming service to offer the service to subscribers. The placement of a programming service on a shared channel, however, is not subject to the approval of the video programming service or vendor.

NOTE 3 TO PARAGRAPH (c)(2)(iii): Ready and immediate access in this context means that the channel sharing is ''transparent'' to subscribers.

(iv) *Open video system operator discretion*. Notwithstanding the foregoing, an operator of an open video system may:

(A) Require video programming providers to request and obtain system capacity in increments of no less than one full-time channel; however, an operator of an open video system may not require video programming providers

to obtain capacity in increments of more than one full-time channel;

(B) Limit video programming providers from selecting the programming on more capacity than the amount of capacity on which the system operator and its affiliates are selecting the programming for carriage; and

(v) Notwithstanding the general prohibition on an open video system operator's discrimination among video programming providers contained in paragraph (a) of this section, a competing, in-region cable operator or its affiliate(s) that offers cable service to subscribers located in the service area of an open video system shall not be entitled to obtain capacity on such an open video system, except:

(A) Where the operator of an open video system determines that granting access to the competing, in-region cable operator is in its interests; or

(B) Where a showing is made that facilities-based competition will not be significantly impeded.

NOTE TO PARAGRAPH (c)(2)(v)(B): The Commission finds that facilities-based competition will not be significantly impeded, for example, where:

(1) The competing, in-region cable operator and affiliated systems offer service to less than 20% of the households passed by the open video system; and

(2) The competing, in-region cable operator and affiliated systems provide cable service to a total of less than 17,000 subscribers within the open video system's service area.

(3) Nothing in this paragraph shall be construed to limit the number of channels that the open video system operator and its affiliates, or another video programming provider, may offer to provide directly to subscribers. Co-packaging is permissible among video programming providers, but may not be a condition of carriage. Video programming providers may freely elect whether to enter into co-packaging arrangements.

NOTE TO PARAGRAPH (c)(3): Any video programming provider on an open video system may co-package video programming that is selected by itself, an affiliated video programming provider and/or unaffiliated video programming providers on the system.

[61 FR 28708, June 5, 1996, as amended at 61 FR 43176, Aug. 21, 1996; 62 FR 26239, May 13, 1997]

§ 76.1504 Rates, terms and conditions for carriage on open video systems.

(a) *Reasonable rate principle.* An open video system operator shall set rates, terms, and conditions for carriage that are just and reasonable, and are not unjustly or unreasonably discriminatory.

(b) *Differences in rates. (1) An open video system operator may charge different rates to different classes of video programming providers, provided that the bases for such differences are not unjust or unreasonably discriminatory.*

(2) An open video system operator shall not impose different rates, terms, or conditions based on the content of the programming to be offered by any unaffiliated video programming provider.

(c) *Just and reasonable rate presumption.* A strong presumption will apply that carriage rates are just and reasonable for open video system operators where at least one unaffiliated video programming provider, or unaffiliated programming providers as a group, occupy capacity equal to the lesser of one-third of the system capacity or that occupied by the open video system operator and its affiliates, and where any rate complained of is no higher than the average of the rates paid by unaffiliated programmers receiving carriage from the open video system operator.

(d) *Examination of rates.* Complaints regarding rates shall be limited to video programming providers that have sought carriage on the open video system. If a video programming provider files a complaint against an open video system operator meeting the above just and reasonable rate presumption, the burden of proof will rest with the complainant. If a complaint is filed against an open video system operator that does not meet the just and reasonable rate presumption, the open video system operator will bear the burden of proof to demonstrate, using the principles set forth below, that the carriage rates subject to the complaint are just and reasonable.

(e) *Determining just and reasonable rates subject to complaints pursuant to the imputed rate approach or other market based approach.* Carriage rates subject to complaint shall be found just

and reasonable if one of the two following tests are met:

(1) The imputed rate will reflect what the open video system operator, or its affiliate, ''pays'' for carriage of its own programming. Use of this approach is appropriate in circumstances where the pricing is applicable to a new market entrant (the open video system operator) that will face competition from an existing incumbent provider (the incumbent cable operator), as opposed to circumstances where the pricing is used to establish a rate for an essential input service that is charged to a competing new entrant by an incumbent provider. With respect to new market entrants, an efficient component pricing model will produce rates that encourage market entry. If the carriage rate to an unaffiliated program provider surpasses what an operator earns from carrying its own programming, the rate can be presumed to exceed a just and reasonable level. An open video system operator's price to its subscribers will be determined by several separate costs components. One general category are those costs related to the creative development and production of programming. A second category are costs associated with packaging various programs for the open video system operator's offering. A third category related to the infrastructure or engineering costs identified with building and maintaining the open video system. Contained in each is a profit allowance attributed to the economic value of each component. When an open video system operator provides only carriage through its infrastructure, however, the programming and packaging flows from the independent program provider, who bears the cost. The open video system operator avoids programming and packaging costs, including profits. These avoided costs should not be reflected in the price charged an independent program provider for carriage. The imputed rate also seeks to recognize the loss of subscribers to the open video system operator's programming package resulting from carrying competing programming.

NOTE TO PARAGRAPH (e)(1): Examples of specific ''avoided costs'' include:

(1) All amounts paid to studios, syndicators, networks or others, including but not limited to payments for programming and all related rights;

(2) Packaging, including marketing and other fees;

(3) Talent fees; and

(4) A reasonable overhead allowance for affiliated video service support.

(2) An open video system operator can demonstrate that its carriage service rates are just and reasonable through other market based approaches.

[61 FR 28708, June 5, 1996, as amended at 61 FR 43176, Aug. 21, 1996]

EFFECTIVE DATE NOTE: At 61 FR 43176, Aug. 21, 1996, in § 76.1504, paragraph (e) was revised. This amendment contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

§ 76.1505 Public, educational and governmental access.

(a) An open video system operator shall be subject to public, educational and governmental access requirements for every cable franchise area with which its system overlaps.

(b) An open video system operator must ensure that all subscribers receive any public, educational and governmental access channels within the subscribers' franchise area.

(c) An open video system operator may negotiate with the local cable franchising authority of the jurisdiction(s) which the open video system serves to establish the open video system operator's obligations with respect to public, educational and governmental access channel capacity, services, facilities and equipment. These negotiations may include the local cable operator if the local franchising authority, the open video system operator and the cable operator so desire.

(d) If an open video system operator and a local franchising authority are unable to reach an agreement regarding the open video system operator's obligations with respect to public, educational and governmental access channel capacity, services, facilities and equipment within the local franchising authority's jurisdiction:

(1) The open video system operator must satisfy the same public, educational and governmental access obligations as the local cable operator by providing the same amount of channel capacity for public, educational and governmental access and by matching the local cable operator's annual financial contributions towards public, educational and governmental access services, facilities and equipment that are actually used for public, educational and governmental access services, facilities and equipment. For in-kind contributions (e.g., cameras, production studios), the open video system operator may satisfy its statutory obligation by negotiating mutually agreeable terms with the local cable operator, so that public, educational and governmental access services to the community is improved or increased. If such terms cannot be agreed upon, the open video system operator must pay the local franchising authority the monetary equivalent of the local cable operator's depreciated in-kind contribution, or, in the case of facilities, the annual amortization value. Any matching contributions provided by the open video system operator must be used to fund activities arising under Section 611 of the Communications Act.

(2) The local franchising authority shall impose the same rules and procedures on an open video system operator as it imposes on the local cable operator with regard to the open video system operator's use of channel capacity designated for public, educational and governmental access use when such capacity is not being used for such purposes.

(3) The local cable operator is required to permit the open video system operator to connect with its public, educational and governmental access channel feeds. The open video system operator and the cable operator may decide how to accomplish this connection, taking into consideration the exact physical and technical circumstances of the cable and open video systems involved. If the cable and open video system operator cannot agree on how to accomplish the connection, the local franchising authority may decide. The local franchising authority may require that the connection occur on government property or on public rights of way.

(4) The costs of connection to the cable operator's public, educational and governmental access channel feed shall be borne by the open video system operator. Such costs shall be counted towards the open video system operator's matching financial contributions set forth in paragraph (d)(4) of this section.

(5) The local franchising authority may not impose public, educational and governmental access obligations on the open video system operator that would exceed those imposed on the local cable operator.

(6) Where there is no existing local cable operator, the open video system operator must make a reasonable amount of channel capacity available for public, educational and governmental use, as well as provide reasonable support for services, facilities and equipment relating to such public, educational and governmental use. If a franchise agreement previously existed in that franchise area, the local franchising authority may elect either to impose the previously existing public, educational and governmental access obligations or determine the open video system operator's public, educational and governmental access obligations by comparison to the franchise agreement for the nearest operating cable system that has a commitment to provide public, educational and governmental access and that serves a franchise area with a similar population size. The local franchising authority shall be permitted to make a similar election every 15 years thereafter. Absent a previous franchise agreement, the open video system operator shall be required to provide channel capacity, services, facilities and equipment relating to public, educational and governmental access equivalent to that prescribed in the franchise agreement(s) for the nearest operating cable system with a commitment to provide public, educational and governmental access and that serves a franchise area with a similar population size.

NOTE TO PARAGRAPH (d)(6): This paragraph shall apply, for example, if a cable operator

converts its cable system to an open video system under § 76.1501.

(7) The open video system operator must adjust its system(s) to comply with new public, educational and governmental access obligations imposed by a cable franchise renewal; provided, however, that an open video system operator will not be required to displace other programmers using its open video system to accommodate public, educational and governmental access channels. The open video system operator shall comply with such public, educational and governmental access obligations whenever additional capacity is or becomes available, whether it is due to increased channel capacity or decreased demand for channel capacity.

(8) The open video system operator and/or the local franchising authority may file a complaint with the Commission, pursuant to our dispute resolution procedures set forth in § 76.1514, if the open video system operator and the local franchising authority cannot agree as to the application of the Commission's rules regarding the open video system operator's public, educational and governmental access obligations under paragraph (d) of this section.

(e) If an open video system operator maintains an institutional network, as defined in Section 611(f) of the Communications Act, the local franchising authority may require that educational and governmental access channels be designated on that institutional network to the extent such channels are designated on the institutional network of the local cable operator.

(f) An open video system operator shall not exercise any editorial control over any public, educational, or governmental use of channel capacity provided pursuant to this subsection, provided, however, that any open video system operator may prohibit the use on its system of any channel capacity of any public, educational, or governmental facility for any programming which contains nudity, obscene material, indecent material as defined in § 76.701(g), or material soliciting or promoting unlawful conduct. For purposes of this section, ''material soliciting or promoting unlawful conduct'' shall mean material that is otherwise proscribed by law. An open video system operator may require any access user, or access manager or administrator agreeing to assume the responsibility of certifying, to certify that its programming does not contain any of the materials described above and that reasonable efforts will be used to ensure that live programming does not contain such material.

[61 FR 28708, June 5, 1996, as amended at 61 FR 43176, Aug. 21, 1996]

EFFECTIVE DATE NOTE: At 61 FR 43176, Aug. 21, 1996, in § 76.1505, paragraphs (d)(1), (4), (6) and (8) were revised. This amendment contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

§ 76.1506 Carriage of television broadcast signals.

(a) The provisions of Subpart D shall apply to open video systems in accordance with the provisions contained in this subpart.

(b) For the purposes of this Subpart S, television stations are significantly viewed when they are viewed in households that do not receive television signals from multichannel video programming distributors as follows:

(1) For a full or partial network station—a share of viewing hours of at least 3 percent (total week hours), and a net weekly circulation of at least 25 percent; and

(2) For an independent station—a share of viewing hours of at least 2 percent (total week hours), and a net weekly circulation of at least 5 percent. See § 76.1506(c).

NOTE TO PARAGRAPH (b): As used in this paragraph, ''share of viewing hours'' means the total hours that households that do not receive television signals from multichannel video programming distributors viewed the subject station during the week, expressed as a percentage of the total hours these households viewed all stations during the period, and ''net weekly circulation'' means the number of households that do not receive television signals from multichannel video programming distributors that viewed the station for 5 minutes or more during the entire week, expressed as a percentage of the total households that do not receive television signals from multichannel video programming distributors in the survey area.

(c) *Significantly viewed signals; method to be followed for special showings.* Any provision of § 76.54 that refers to a ''cable television community'' or ''cable community or communities'' shall apply to an open video system community or communities. Any provision of § 76.54 that refers to ''noncable television homes'' shall apply to households that do not receive television signals from multichannel video programming distributors. Any provision of § 76.54 that refers to a ''cable television system'' shall apply to an open video system.

(d) *Definitions applicable to the must-carry rules.* Section 76.55 shall apply to all open video systems in accordance with the provisions contained in this section. Any provision of § 76.55 that refers to a ''cable system'' shall apply to an open video system. Any provision of § 76.55 that refers to a ''cable operator'' shall apply to an open video system operator. Any provision of § 76.55 that refers to the ''principal headend'' of a cable system as defined in § 76.5(pp) shall apply to the equivalent of the principal headend of an open video system. Any provision of § 76.55 that refers to a ''franchise area'' shall apply to the service area of an open video system. The provisions of § 76.55 that permit cable operators to refuse carriage of signals considered distant signals for copyright purposes shall not apply to open video system operators. If an open video system operator cannot limit its distribution of must-carry signals to the local service area of broadcast stations as used in 17 U.S.C. 111(d), it will be liable for any increase in copyright fees assessed for distant signal carriage under 17 U.S.C. 111.

(e) *Signal carriage obligations.* Any provision of § 76.56 that refers to a ''cable television system'' or ''cable system'' shall apply to an open video system. Any provision of § 76.56 that refers to a ''cable operator'' shall apply to an open video system operator. Section 76.56(d)(2) shall apply to open video systems as follows: An open video system operator shall make available to every subscriber of the open video system all qualified local commercial television stations and all qualified non-commercial educational television stations carried in fulfillment of its carriage obligations under this section.

(f) *Channel positioning.* Open video system operators shall comply with the provisions of § 76.57 to the closest extent possible. Any provision of § 76.57 that refers to a ''cable operator'' shall apply to an open video system operator. Any provision of § 76.57 that refers to a ''cable system'' shall apply to an open video system, except the references to ''cable system'' in § 76.57(d) which shall apply to an open video system operator.

(g) *Notification.* Any provision of § 76.58 that refers to a ''cable operator'' shall apply to an open video system operator. Any provision of § 76.58 that refers to a ''cable system'' shall apply to an open video system. Any provision of § 76.58 that refers to a ''principal headend'' shall apply to the equivalent of the principal headend for an open video system.

(h) *Modification of television markets.* Any provision of § 76.59 that refers to a ''cable system'' shall apply to an open video system. Any provision of § 76.59 that refers to a ''cable operator'' shall apply to an open video system operator.

(i) *Compensation for carriage.* Any provision of § 76.60 that refers to a ''cable operator'' shall apply to an open video system operator. Any provision of § 76.60 that refers to a ''cable system'' shall apply to an open video system. Any provision of § 76.60 that refers to a ''principal headend'' shall apply to the equivalent of the principal headend for an open video system.

(j) *Disputes concerning carriage.* Any provision of § 76.61 that refers to a ''cable operator'' shall apply to an open video system operator. Any provision of § 76.61 that refers to a ''cable system'' shall apply to an open video system. Any provision of § 76.61 that refers to a ''principal headend'' shall apply to the equivalent of the principal headend for an open video system.

(k) *Manner of carriage.* Any provision of § 76.62 that refers to a ''cable operator'' shall apply to an open video system operator.

(l) *Retransmission consent.* Section 76.64 shall apply to open video systems in accordance with the provisions contained in this paragraph.

(1) Any provision of § 76.64 that refers to a ''cable system'' shall apply to an open video system. Any provision of § 76.64 that refers to a ''cable operator'' shall apply to an open video system operator.

(2) Must-carry/retransmission consent election notifications shall be sent to the open video system operator. An open video system operator shall make all must-carry/retransmission consent election notifications received available to the appropriate programming providers on its system.

(3) Television broadcast stations are required to make the same election for open video systems and cable systems serving the same geographic area, unless the overlapping open video system is unable to deliver appropriate signals in conformance with the broadcast station's elections for all cable systems serving the same geographic area.

(4) An open video system commencing new operations shall notify all local commercial and noncommercial broadcast stations as required under paragraph (l) of this section on or before the date on which it files with the Commission its Notice of Intent to establish an open video system.

(m) *Sports broadcast.* Section 76.67 shall apply to open video systems in accordance with the provisions contained in this paragraph.

(1) Any provisions of § 76.67 that refers to a ''community unit'' shall apply to an open video system or that portion of an open video system that operates or will operate within a separate and distinct community or municipal entity (including unincorporated communities within unincorporated areas and including single, discrete unincorporated areas).

(2) Notification of programming to be deleted pursuant to this section shall be served on the open video system operator. The open video system operator shall make all notifications immediately available to the appropriate video programming providers on its open video system. Operators may effect the deletion of signals for which they have received deletion notices unless they receive notice within a reasonable time from the appropriate programming provider that the rights claimed are invalid. The open video system operator shall not delete signals for which it has received notice from the programming provider that the rights claimed are invalid. An open video system operator shall be subject to sanctions for any violation of this subpart. An open video system operator may require indemnification as a condition of carriage for any sanctions it may incur in reliance on a programmer's claim that certain exclusive or non-duplication rights are invalid.

(n) *Exemption from input selector switch rules.* Any provision of § 76.70 that refers to a ''cable system'' or ''cable systems'' shall apply to an open video system or open video systems.

(o) *Special relief and must-carry complaint procedures.* The procedures set forth in § 76.7 shall apply to special relief and must-carry complaints relating to open video systems, and not the procedures set forth in § 76.1514 (Dispute resolution). Any provision of § 76.7 that refers to a ''cable television system operator'' or ''cable operator'' shall apply to an open video system operator. Any provision of § 76.7 that refers to a ''cable television system'' shall apply to an open video system. Any provision of § 76.7 that refers to a ''system community unit'' shall apply to an open video system or that portion of an open video system that operates or will operate within a separate and distinct community or municipal entity (including unincorporated communities within unincorporated areas and including single, discrete unincorporated areas).

[61 FR 28708, June 5, 1996, as amended at 61 FR 43177, Aug. 21, 1996]

EFFECTIVE DATE NOTE: At 61 FR 43177, Aug. 21, 1996, in § 76.1506, paragraphs (d), (l)(3) and (m)(2) were revised. This amendment contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

§ 76.1507 Competitive access to satellite cable programming.

(a) Any provision that applies to a cable operator under §§ 76.1000 through 76.1003 shall also apply to an operator of an open video system and its affiliate which provides video programming on its open video system, except as limited by paragraph (a) (1)–(3) of this

section. Any such provision that applies to a satellite cable programming vendor in which a cable operator has an attributable interest shall also apply to any satellite cable programming vendor in which an open video system operator has an attributable interest, except as limited by paragraph (a) (1)–(3) of this section.

(1) Section 76.1002(c)(1) shall only restrict the conduct of an open video system operator, its affiliate that provides video programming on its open video system and a satellite cable programming vendor in which an open video system operator has an attributable interest, as follows: No open video system operator or its affiliate that provides video programming on its open video system shall engage in any practice or activity or enter into any understanding or arrangement, including exclusive contracts, with a satellite cable programming vendor or satellite broadcast programming vendor for satellite cable programming or satellite broadcast programming that prevents a multichannel video programming distributor from obtaining such programming from any satellite cable programming vendor in which an open video system operator has an attributable interest, or any satellite broadcasting vendor in which an open video system operator has an attributable interest for distribution to person in areas not served by a cable operator as of October 5, 1992.

(2) Section 76.1002(c)(2) shall only restrict the conduct of an open video system operator, its affiliate that provides video programming on its open video system and a satellite cable programming vendor in which an open video system operator has an attributable interest, as follows: No open video system operator or its affiliate that provides video programming on its open video system shall enter into any exclusive contracts, or engage in any practice, activity or arrangement tantamount to an exclusive contract, for satellite cable programming or satellite broadcast programming with a satellite cable programming vendor in which an open video system operator has an attributable interest or a satellite broadcast programming vendor, unless the Commission determines in accordance with § 76.1002(c)(4) that such a contract, practice, activity or arrangement is in the public interest.

(3) Section 76.1002(c)(3) (i) through (ii) shall only restrict the conduct of an open video system operator, its affiliate that provides video programming on its open video system and a satellite cable programming vendor in which an open video system operator has an attributable interest, as follows:

(i) *Unserved areas.* No open video system operator shall enter into any subdistribution agreement or arrangement for satellite cable programming or satellite broadcast programming with a satellite cable programming vendor in which an open video system operator has an attributable interest or a satellite broadcast programming vendor in which an open video system operator has an attributable interest for distribution to persons in areas not served by a cable operator as of October 5, 1992.

(ii) *Served areas.* No open video system operator shall enter into any subdistribution agreement or arrangement for satellite cable programming or satellite broadcast programming with a satellite cable programming vendor in which an open video system operator has an attributable interest or a satellite broadcast programming vendor in which an open video system operator has an attributable interest, with respect to areas served by a cable operator, unless such agreement or arrangement complies with the limitations set forth in § 76.1002(c)(3)(iii).

(b) No open video system programming provider in which a cable operator has an attributable interest shall:

(1) engage in any practice or activity or enter into any understanding or arrangement, including exclusive contracts, with a satellite cable programming vendor or satellite broadcast programming vendor for satellite cable programming or satellite broadcast programming that prevents a multichannel video programming distributor from obtaining such programming from any satellite cable programming vendor in which a cable operator has an attributable interest, or any satellite broadcasting vendor in which a cable operator has an attributable interest for distribution to person in areas not

served by a cable operator as of October 5, 1992.

(2) enter into any exclusive contracts, or engage in any practice, activity or arrangement tantamount to an exclusive contract, for satellite cable programming or satellite broadcast programming with a satellite cable programming vendor in which a cable operator has an attributable interest or a satellite broadcast programming vendor, unless the Commission determines in accordance with Section 76.1002(c)(4) that such a contract, practice, activity or arrangement is in the public interest.

§ 76.1508 Network non-duplication.

(a) Sections 76.92 through 76.97 shall apply to open video systems in accordance with the provisions contained in this section.

(b) Any provision of § 76.92 that refers to a ''cable community unit'' or ''community unit'' shall apply to an open video system or that portion of an open video system that operates or will operate within a separate and distinct community or municipal entity (including unincorporated communities within unincorporated areas and including single, discrete unincorporated areas). Any provision of § 76.92 that refers to a ''cable television community'' shall apply to an open video system community. Any provision of § 76.92 that refers to a ''cable television system's mandatory signal carriage obligations'' shall apply to an open video system's mandatory signal carriage obligations.

(c) Any provision of § 76.94 that refers to a ''cable system operator'' or ''cable television system operator'' shall apply to an open video system operator. Any provision of § 76.94 that refers to a ''cable system'' or ''cable television system'' shall apply to an open video system except § 76.94 (e) and (f) which shall apply to an open video system operator. Open video system operators shall make all notifications and information regarding the exercise of network non-duplication rights immediately available to all appropriate video programming provider on the system. An open video system operator shall not be subject to sanctions for any violation of these rules by an unaffiliated program supplier if the operator provided proper notices to the program supplier and subsequently took prompt steps to stop the distribution of the infringing program once it was notified of a violation.

(d) Any provision of § 76.95 that refers to a ''cable system'' or a ''cable community unit'' shall apply to an open video system or that portion of an open video system that operates or will operate within a separate and distinct community or municipal entity (including unincorporated communities within unincorporated areas and including single, discrete unincorporated areas).

§ 76.1509 Syndicated program exclusivity.

(a) Sections 76.151 through 76.163 shall apply to open video systems in accordance with the provisions contained in this section.

(b) Any provision of § 76.151 that refers to a ''cable community unit'' shall apply to an open video system.

(c) Any provision of § 76.155 that refers to a ''cable system operator'' or ''cable television system operator'' shall apply to an open video system operator. Any provision of § 76.155 that refers to a ''cable system'' or ''cable television system'' shall apply to an open video system except § 76.155(c) which shall apply to an open video system operator. Open video system operators shall make all notifications and information regarding exercise of syndicated program exclusivity rights immediately available to all appropriate video programming provider on the system. An open video system operator shall not be subject to sanctions for any violation of these rules by an unaffiliated program supplier if the operator provided proper notices to the program supplier and subsequently took prompt steps to stop the distribution of the infringing program once it was notified of a violation.

(d) Any provision of § 76.156 that refers to a ''cable community'' shall apply to an open video system community. Any provision of § 76.156 that refers to a ''cable community unit'' or ''community unit'' shall apply to an open video system or that portion of an open video system that operates or will

operate within a separate and distinct community or municipal entity (including unincorporated communities within unincorporated areas and including single, discrete unincorporated areas). Any provision of §§ 76.156 through 76.158, and 76.163 that refers to a ''cable system'' shall apply to an open video system.

(e) Any provision of § 76.159 that refers to ''cable television'' or a ''cable system'' shall apply to an open video system.

(f) Any provision of § 76.161 that refers to a ''community unit'' shall apply to an open video system or that portion of an open video system that is affected by this rule.

§ 76.1510 Application of certain Title VI provisions.

The following sections within Part 76 shall also apply to open video systems: §§ 76.71, 76.73, 76.75, 76.77 and 76.79 (Equal Employment Opportunity Requirements); §§ 76.503 and 76.504 (ownership restrictions); § 76.981 (negative option billing); and §§ 76,1300, 76.1301 and 76.1302 (regulation of carriage agreements); provided, however, that these sections shall apply to open video systems only to the extent that they do not conflict with this subpart S. Section 631 of the Communications Act (subscriber privacy) shall also apply to open video systems.

§ 76.1511 Fees.

An open video system operator may be subject to the payment of fees on the gross revenues of the operator for the provision of cable service imposed by a local franchising authority or other governmental entity, in lieu of the franchise fees permitted under Section 622 of the Communications Act. Local governments shall have the authority to assess and receive the gross revenue fee. Gross revenues under this paragraph means all gross revenues received by an open video system operator or its affiliates, including all revenues received from subscribers and all carriage revenues received from unaffiliated video programming providers. In addition gross revenues under this paragraph includes any advertising revenues received by an open video system operator or its affiliates in connection with the provision of video programming, where such revenues are included in the calculation of the incumbent cable operator's cable franchise fee. Gross revenues does not include revenues collected by unaffiliated video programming providers, such as subscriber or advertising revenues. Any gross revenues fee that the open video system operator or its affiliate collects from subscribers or video programming providers shall be excluded from gross revenues. An operator of an open video system or any programming provider may designate that portion of a subscriber's bill attributable to the fee as a separate item on the bill. An operator of an open video system may recover the gross revenue fee from programming providers on a proportional basis as an element of the carriage rate.

[61 FR 43177, Aug. 21, 1996]

EFFECTIVE DATE NOTE: At 61 FR 43177, Aug. 21, 1996, § 76.1511 was revised. This section contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

§ 76.1512 Programming information.

(a) An open video system operator shall not unreasonably discriminate in favor of itself or its affiliates with regard to material or information (including advertising) provided by the operator to subscribers for the purpose of selecting programming on the open video system, or in the way such material or information is provided to subscribers.

NOTE TO PARAGRAPH (a): ''Material or information'' as used in paragraph (a) of this section means material or information that a subscriber uses to actively select programming at the point of program selection.

(b) In accordance with paragraph (a) of this section:

(1) An open video system operator shall not discriminate in favor of itself or its affiliate on any navigational device, guide or menu;

(2) An open video system operator shall not omit television broadcast stations or other unaffiliated video programming services carried on the open video system from any navigational device, guide (electronic or paper) or menu;

(3) An open video system operator shall not restrict a video programming provider's ability to use part of the provider's channel capacity to provide an individualized guide or menu to the provider's subscribers;

(4) Where an open video system operator provides no navigational device, guide or menu, its affiliate's navigational device, guide or menu shall be subject to the requirements of Section 653(b)(1)(E) of the Communications Act;

(5) An open video system operator may permit video programming providers, including its affiliate, to develop and use their own navigational devices. If an open video system operator permits video programming providers, including its affiliate, to develop and use their own navigational devices, the operator must create an electronic menu or guide that all video programming providers must carry containing a nondiscriminatory listing of programming providers or programming services available on the system and informing the viewer how to obtain additional information on each of the services listed;

(6) An open video system operator must grant access, for programming providers that do not wish to use their own navigational device, to the navigational device used by the open video system operator or its affiliate; and

(7) If an operator provides an electronic guide or menu that complies with paragraph (b)(5) of this section, its programming affiliate may create its own menu or guide without being subject to the requirements of Section 653(b)(1)(E) of the Communications Act.

(c) An open video system operator shall ensure that video programming providers or copyright holders (or both) are able to suitably and uniquely identify their programming services to subscribers.

(d) An open video system operator shall transmit programming identification without change or alteration if such identification is transmitted as part of the programming signal.

[61 FR 28708, June 5, 1996, as amended at 61 FR 43177, Aug. 21, 1996]

EFFECTIVE DATE NOTE: At 61 FR 43177, Aug. 21, 1996, in § 76.1512, paragraphs (b), (c) and (d) were revised. This amendment contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

§ 76.1513 Dispute resolution.

(a) *Complaints.* Any party aggrieved by conduct that it alleges to constitute a violation of the regulations set forth in this part or in Section 653 of the Communications Act (47 U.S.C. 573) may commence an adjudicatory proceeding at the Commission. The Commission shall resolve any such dispute within 180 days after the filing of a complaint.

(b) *Alternate dispute resolution.* An open video system operator may not provide in its carriage contracts with programming providers that any dispute must be submitted to arbitration, mediation, or any other alternative method for dispute resolution prior to submission of a complaint to the Commission.

(c) *Notice required prior to filing of complaint.* Any aggrieved party intending to file a complaint under this section must first notify the potential defendant open video system operator that it intends to file a complaint with the Commission based on actions alleged to violate one or more of the provisions contained in this part or in Section 653 of the Communications Act. The notice must be in writing and must be sufficiently detailed so that its recipient(s) can determine the specific nature of the potential complaint. The potential complainant must allow a minimum of ten (10) days for the potential defendant(s) to respond before filing a complaint with the Commission.

(d) *General pleading requirements.* Complaint proceedings under this part are generally resolved on a written record consisting of a complaint, answer, and reply, but may also include other written submissions such as briefs and written interrogatories. All written submissions, both substantive and procedural, must conform to the following standard:

(1) Pleadings must be clear, concise, and explicit. All matters concerning a claim, defense or requested remedy, should be pleaded fully and with specificity;

(2) Pleadings must contain facts which, if true, are sufficient to constitute a violation of the Communications Act or of a Commission regulation or order, or a defense to such alleged violation;

(3) Facts must be supported by relevant documentation or affidavit;

(4) Legal arguments must be supported by appropriate judicial, Commission, or statutory authority;

(5) Opposing authorities must be distinguished;

(6) Copies must be provided of all non-Commission authorities relied upon which are not routinely available in national reporting systems, such as unpublished decisions or slip opinions of courts or administrative agencies; and

(7) Parties are responsible for the continuing accuracy and completeness of all information and supporting authority furnished in a pending complaint proceeding. Information submitted, as well as relevant legal authorities, must be current and updated as necessary and in a timely manner at any time before a decision is rendered on the merits of the complaint.

(8) Parties are required to submit the complaint and materials related to these proceedings simultaneously to the Office of the Secretary and the Bureau Chief, Cable Services Bureau.

(9) Pleadings must include a cover sheet indicating that the submission is either an Open Video System Channel Carriage Complaint or related pleading. In either case, the only wording on this cover sheet shall be ''Open Video System Channel Carriage Dispute Resolution'' and ''Attention: Cable Services Bureau.'' This wording shall be located in the center of the page and should be in letters at least ½ in size. Parties shall also include the words ''open video systems'' on their mailing envelopes.

(e) *Complaint.* (1) A complaint filed under this part shall contain:

(i) The name of the complainant and each defendant;

(ii) The type of entity that describes complainant (e.g., individual, private association, partnership, or corporation), the address and telephone number of the complainant, and the address and telephone number of each defendant;

(iii) The name, address and telephone number of complainant's attorney, if complainant is represented by counsel;

(iv) Citation to the section of the Communications Act and/or the Commission regulation or order alleged to have been violated;

(v) A complete statement of facts, which, if proven true, would constitute such a violation;

(vi) Any evidence that supports the truth or accuracy of the alleged facts;

(vii) Evidence that the open video system operator's conduct at issue violated a section of the Communications Act and/or Commission regulation or order.

(viii) If discrimination in rates, terms, and conditions of carriage is alleged, documentary evidence shall be submitted such as a preliminary carriage rate estimate or a programming contract that demonstrates a differential in price, terms or conditions between complainant and a competing video programming provider or, if no programming contract or preliminary carriage rate estimate is submitted with the complaint, an affidavit signed by an officer of complainant alleging that a differential in price, terms or conditions exists, a description of the nature and extent (if known or reasonably estimated by the complainant) of the differential, together with a statement that defendant refused to provide any further specific comparative information;

NOTE TO PARAGRAPH (e)(1)(viii): Upon request by a complainant, the preliminary carriage rate estimate shall include a calculation of the average of the carriage rates paid by the unaffiliated video programming providers receiving carriage from the open video system operator, including the information needed for any weighting of the individual carriage rates that the operator has included in the average rate.

(ix) If a programming contract or a preliminary carriage rate estimate is submitted with the complaint in support of the alleged violation, specific references to the relevant provisions therein; and

(x) The specific relief sought.

(2) Every complaint alleging a violation of the open video system requirements shall be accompanied by a sworn

affidavit signed by an authorized officer or agent of the complainant. This affidavit shall contain a statement that the affiant has read the complaint and that to the best of the affiant's knowledge, information, and belief formed after reasonable inquiry, it is well grounded in fact and is warranted under Commission regulations and policies, or is a good faith argument for the extension, modification or reversal of such regulations or policies, and it is not interposed for any improper purpose. If the complaint is signed in violation of this rule, the Commission upon motion or its own initiative, shall impose upon the complainant an appropriate sanction.

(3) The following format may be used in cases to which it is applicable, with such modifications as the circumstances may render necessary:

Before The Federal Communications Commission, Washington, D.C. 20554

In the Matter of Complainant

File No. (To be inserted by the Commission) v. Defendant.

[Insert Subject or Nature of Issue: Unjust or Unreasonable Discrimination in Rates, Terms, and Conditions; Discriminatory Denial of Carriage]

Open Video System Complaint

To: The Commission.

The complainant (here insert full name of complainant and type of entity of such complainant):

1. (Here state the complainant's post office address and telephone number).

2. (Here insert the name, address and telephone number of each defendant).

3. (Here insert fully and clearly the specific act or thing complained of, together with such facts as are necessary to give full understanding of the matter, including relevant legal and documentary support).

Wherefore, complainant asks (here state specifically the relief desired).

(Date) _____

(Name of complainant) _____

_____

(Name, address, and telephone number of attorney, if any)

(4) The complaint must be accompanied by appropriate evidence demonstrating that the required notification pursuant to paragraph (c) of this section has been made.

(f) *Answer.* (1) Any open video system operator upon which a complaint is served under this section shall answer within thirty (30) days of service of the complaint, unless otherwise directed by the Commission.

(2) The answer shall advise the parties and the Commission fully and completely of the nature of any and all defenses, and shall respond specifically to all material allegations of the complaint. Collateral or immaterial issues shall be avoided in answers and every effort should be made to narrow the issues. Any defendant failing to file and serve an answer within the time and in the manner prescribed by these rules may be deemed in default and an order may be entered against defendant in accordance with the allegations contained in the complaint.

(3) The answer shall state concisely any and all defenses to each claim asserted and shall admit or deny the averments on which the adverse party relies. If the defendant is without knowledge or information sufficient to form a belief as to the truth of an averment, the defendant shall so state and this has the effect of a denial. When a defendant intends in good faith to deny only part of an averment, the answer shall specify so much of it as is true and shall deny only the remainder. The defendant may make its denials as specific denials of designated averments or paragraphs, or may generally deny all the averments except such designated averments or paragraphs as the defendant expressly admits. When the defendant intends to controvert all averments, the defendant may do so by general denial.

(4) Averments in a complaint are deemed to be admitted when not denied in the answer.

(5) An answer to a discrimination complaint shall state the reasons for any differential in prices, terms or conditions between the complainant and its competitor, and shall specify the particular justification relied upon in support of the differential. Any documents or contracts submitted pursuant to this paragraph (f)(5) may be protected as proprietary pursuant to paragraph (j) of this section.

(g) *Reply.* Within twenty (20) days after service of an answer, the complainant may file and serve a reply which shall be responsive to matters contained in the answer and shall not contain new matters. Failure to reply

will not be deemed an admission of any allegations contained in the answer, except with respect to any affirmative defense set forth therein. Replies containing information claimed by defendant to be proprietary under paragraph (j) of this section shall be submitted to the Commission in confidence pursuant to the requirements of § 0.459 of this chapter and clearly marked ''Not for Public Inspection.'' An edited version removing all proprietary data shall be filed with the Commission for inclusion in the public file within five (5) days from the date the unedited reply is submitted, and shall be served on the defendant.

(h) *Motions.* Except as provided in this section, or upon a showing of extraordinary circumstances, additional motions or pleadings by any party will not be accepted.

(i) *Discovery.* (1) The Commission staff may in its discretion order discovery limited to the issues specified by the Commission. Such discovery may include answers to written interrogatories or document production.

(2) The Commission staff may in its discretion direct the parties to submit discovery proposals, together with a memorandum in support of the discovery requested. Such discovery requests may include answers to written interrogatories, document production or depositions. The Commission staff will then hold a status conference with the parties, pursuant to paragraph (l) of this section, to determine the scope of discovery. If the Commission staff determines that extensive discovery is required or that depositions are warranted, the staff will advise the parties that the proceeding will be referred to an administrative law judge in accordance with paragraph (o) of this section.

(j) *Confidentiality of proprietary information.* (1) Any materials generated or provided by a party in connection with the pre-complaint notification procedure required under paragraph (c) of this section and in the course of adjudicating a complaint under this provision may be designated as proprietary by that party if the party believes in good faith that the materials fall within an exemption to disclosure contained in the Freedom of Information Act (FOIA), 5 U.S.C. 552(b). Any party asserting confidentiality for such materials shall so indicate by clearly marking each page, or portion thereof, for which a proprietary designation is claimed. If a proprietary designation is challenged, the party claiming confidentiality will have the burden of demonstrating, by a preponderance of the evidence, that the material designated as proprietary falls under the standards for nondisclosure enunciated in the FOIA.

(2) Materials marked as proprietary may be disclosed solely to the following persons, only for use in prosecuting or defending a party to the complaint action, and only to the extent necessary to assist in the prosecution or defense of the case:

(i) Counsel of record representing the parties in the complaint action and any support personnel employed by such attorneys;

(ii) Officers or employees of the opposing party who are named by the opposing party as being directly involved in the prosecution or defense of the case;

(iii) Consultants or expert witnesses retained by the parties;

(iv) The Commission and its staff; and

(v) Court reporters and stenographers in accordance with the terms and conditions of this section.

(3) The persons designated in paragraph (j)(2) of this section shall not disclose information designated as proprietary to any person who is not authorized under this section to receive such information, and shall not use the information in any activity or function other than the prosecution or defense in the case before the Commission. Each individual who is provided access to the information by the opposing party shall sign a notarized statement affirmatively stating, or shall certify under penalty of perjury, that the individual has personally reviewed the Commission's rules and understands the limitations they impose on the signing party.

(4) No copies of materials marked proprietary may be made except copies to be used by persons designated in paragraph (j)(2) of this section. Each party shall maintain a log recording

the number of copies made of all proprietary material and the persons to whom the copies have been provided.

(5) Upon termination of the complaint proceeding, including all appeals and petitions, all originals and reproductions of any proprietary materials, along with the log recording persons who received copies of such materials, shall be provided to the producing party. In addition, upon final termination of the complaint proceeding, any notes or other work product derived in whole or in part from the proprietary materials of an opposing or third party shall be destroyed.

(k) *Other required written submissions.* (1) The Commission may, in its discretion, require the parties to file briefs summarizing the facts and issues presented in the pleadings and other record evidence. These briefs shall contain the findings of fact and conclusions of law which that party is urging the Commission to adopt, with specific citations to the record, and supported by relevant authority and analysis.

(2) The Commission may require the parties to submit any additional information it deems appropriate for a full, fair, and expeditious resolution of the proceeding, including copies of all contracts and documents reflecting arrangements and understandings alleged to violate the requirements set forth in the Communications Act and in this part, as well as affidavits and exhibits.

(3) Any briefs submitted shall be filed concurrently by both the complainant and defendant at such time as is designated by the staff. Such briefs shall not exceed fifty (50) pages.

(4) Reply briefs may be submitted by either party within twenty (20) days from the date initial briefs are due. Reply briefs shall not exceed thirty (30) pages.

(5) Briefs containing information which is claimed by an opposing or third party to be proprietary under paragraph (j) of this section shall be submitted to the Commission in confidence pursuant to the requirements of § 0.459 of this chapter, and shall be clearly marked ''Not for Public Inspection.'' An edited version removing all proprietary data shall be filed with the Commission for inclusion in the public file within five (5) days from the date the unedited version is submitted and served on opposing parties.

(l) *Status conference.* (1) In any complaint proceeding under this part, the Commission staff may in its discretion direct the attorneys and/or the parties to appear for a conference to consider:

(i) Simplification or narrowing of the issues;

(ii) The necessity for or desirability of amendments to the pleadings, additional pleadings, or other evidentiary submissions;

(iii) Obtaining admissions of fact or stipulations between the parties as to any or all of the matters in controversy;

(iv) Settlement of the matters in controversy by agreement of the parties;

(v) The necessity for and extent of discovery, including objections to interrogatories or requests for written documents;

(vi) The need and schedule for filing briefs, and the date for any further conferences; and

(vii) Such other matters that may aid in the disposition of the complaint.

(2) Any party may request that a conference be held at any time after the complaint has been filed.

(3) Conferences will be scheduled by the Commission at such time and place as it may designate, to be conducted in person or by telephone conference call.

(4) The failure of any attorney or party, following reasonable notice, to appear at a scheduled conference will be deemed a waiver and will not preclude the Commission from conferring with those parties or counsel present.

(5) During a status conference, the Commission staff may issue oral rulings pertaining to a variety of interlocutory matters relevant to the conduct of the complaint proceeding including, *inter alia,* procedural matters, discovery, and the submission of briefs or other evidentiary materials. These rulings will be promptly memorialized in writing and served on the parties. When such rulings require a party to take affirmative action not subject to deadlines established by another provision of this part, such action will be required within ten (10) days from the date of the written memorialization unless otherwise directed by the staff.

(m) *Specifications as to pleadings, briefs, and other documents; subscriptions.* (1) All papers filed in a complaint proceeding under this part must be drawn in conformity with the requirements of Sections 1.49 and 1.50 of this chapter.

(2) All averments of claims or defenses in complaints and answers shall be made in numbered paragraphs. The contents of each paragraph shall be limited as far as practicable to a statement of a single set of circumstances. Each claim founded on a separate transaction or occurrence and each affirmative defense shall be separately stated to facilitate the clear presentation of the matters set forth.

(3) The original of all pleadings and submissions by any party shall be signed by that party, or by the party's attorney. Complaints must be signed by the complainant. The signing party shall state his or her address and telephone number and the date on which the document was signed. Copies should be conformed to the original. Except when otherwise specifically provided by rule or statute, pleadings need not be verified. The signature of an attorney or party shall be a certificate that the attorney or party has read the pleading, motion, or other paper; that to the best of his or her knowledge, information and belief formed after reasonable inquiry, it is well grounded in fact and is warranted by existing law or a good faith argument for the extension, modification or reversal of existing law; and that it is not interposed for any improper purpose. If any pleading or other submission is signed in violation of this provision, the Commission shall upon motion or upon its own initiative impose upon the party an appropriate sanction. Where the pleading or submission is signed by counsel, the provisions of Sections 1.52 and 1.24 of this chapter shall also apply.

(n) *Copies; service.* (1) The complainant shall file an original plus three copies of the complaint with the Commission. However, if the complaint is addressed against multiple defendants, complainant shall provide three additional copies of the complaint for each additional defendant.

(2) An original plus two copies shall be filed of all pleadings and documents other than the complaint.

(3) The complainant shall serve the complaint on each defendant at the same time that it is filed at the Commission.

(4) All subsequent pleadings and briefs, as well as all letters, documents or other written submissions, shall be served by the filing party on all other parties to the proceeding, together with proof of such service in accordance with the requirements of § 1.47 of this chapter.

(5) The parties to any complaint proceeding brought pursuant to this section may be required to file additional copies of any or all papers filed in the proceeding.

(o) *Referral to administrative law judge.* (1) After reviewing the complaint, answer and reply, and at any stage of the proceeding thereafter, the Commission staff may, in its discretion, designate any complaint proceeding for an adjudicatory hearing before an administrative law judge.

(2) Before designation for hearing, the staff shall notify, either orally or in writing, the parties to the proceeding of its intent to so designate, and the parties shall be given a period of ten (10) days to elect to resolve the dispute through alternative dispute resolution procedures, or to proceed with an adjudicatory hearing. Such election shall be submitted in writing to the Commission.

(3) Unless otherwise directed by the Commission, or upon motion by the Cable Services Bureau Chief, the Cable Services Bureau Chief shall not be deemed to be a party to a complaint proceeding designated for a hearing before an administrative law judge pursuant to this paragraph.

(p) *Petitions for reconsideration.* Petitions for reconsideration of interlocutory actions by the Commission's staff or by an administrative law judge will not be entertained. Petitions for reconsideration of a decision on the merits made by the Commission's staff should be filed in accordance with §§ 1.104 through 1.106 of this chapter.

(q) *Interlocutory review.* Except as provided below, no party may seek review

of interlocutory rulings until a decision on the merits has been issued by the staff or administrative law judge.

(2) Rulings listed in this paragraph are reviewable as a matter of right. An application for review of such ruling may not be deferred and raised as an exception to a decision on the merits:

(i) If the staff's ruling denies or terminates the right of any person to participate as a party to the proceeding, such person, as a matter of right, may file an application for review of that ruling:

(ii) If the staff's ruling requires production of documents or other written evidence, over objection based on a claim of privilege, the ruling on the claim of privilege is reviewable as a matter of right; and/or

(iii) If the staff's ruling denies a motion to disqualify a staff person from participating in the proceeding, the ruling is reviewable as a matter of right.

(r) *Expedited review.* (1) Any party to a complaint proceeding under this part aggrieved by any decision on the merits issued by the staff pursuant to delegated authority may file an application for review by the Commission in accordance with Section 1.115 of this chapter.

(2) Any party to a complaint proceeding aggrieved by any decision on the merits by an administrative law judge may file an appeal of the decision directly with the Commission, in accordance with §1.276(a) and §§1.277 (a) through (c) of this chapter, except that unless a stay is granted by the Commission, the decision by the administrative law judge will become effective upon release and will remain in effect pending appeal.

(s) *Frivolous complaints.* It shall be unlawful for any party to file a frivolous complaint with the Commission alleging any violation of this part. Any violation of this paragraph shall constitute an abuse of process subject to appropriate sanctions.

(t) *Statute of limitations.* Any complaint filed pursuant to this subsection must be filed within one year of the date on which the following acts or conduct occur which form the basis of the complaint:

(1) The open video system operator enters into a contract with the complainant that the complainant alleges to violate one or more of the rules contained in this part; or

(2) The open video system operator offers to carry programming for the complainant pursuant to terms that the complainant alleges to violate one or more of the rules contained in this part; or

(3) The complainant has notified an open video system operator that it intends to file a complaint with the Commission based on a request for such operator to carry the complainant's programming on its open video system that has been denied or unacknowledged, allegedly in violation of one or more of the rules contained in this part.

(u) *Remedies for violations.* (1) Remedies authorized. Upon completion of such adjudicatory proceeding, the Commission shall order appropriate remedies, including, if necessary, the requiring carriage, awarding damages to any person denied carriage, or any combination of such sanctions. Such order shall set forth a timetable for compliance, and shall become effective upon release.

(2) Additional sanctions. The remedies provided in paragraph (u)(1) of this section are in addition to and not in lieu of the sanctions available under Title VI or any other provision of the Communications Act.

[61 FR 28708, June 5, 1996, as amended at 61 FR 43178, Aug. 21, 1996; 62 FR 26239, May 13, 1997]

§ 76.1514 Bundling of video and local exchange services.

An open video system operator may offer video and local exchange services for sale in a single package at a single price, *provided that:*

(a) the open video system operator, where it is the incumbent local exchange carrier, may not require that a subscriber purchase its video service in order to receive local exchange service; and

(b) Any local exchange carrier offering such a package must impute the

unbundled tariff rate for the regulated service.

[61 FR 28708, June 5, 1996, as amended at 61 FR 43178, Aug. 21, 1996]

EFFECTIVE DATE NOTE: At 61 FR 43178, Aug. 21, 1996, in §76.1514, paragraph (b) was revised. This amendment contains information collection and recordkeeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

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[50 FR 38536, Sept. 23, 1985; 50 FR 39114, Sept. 27, 1985, as amended at 51 FR 34622, Sept. 30, 1986; 52 FR 37316, Oct. 6, 1987]

PART 78—CABLE TELEVISION RELAY SERVICE

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AUTHORITY: Secs. 2, 3, 4, 301, 303, 307, 308, 309, 48 Stat., as amended, 1064, 1065, 1066, 1081, 1082, 1083, 1084, 1085; 47 U.S.C. 152, 153, 154, 301, 303, 307, 308, 309.

SOURCE: 37 FR 3292, Feb. 12, 1972, unless otherwise noted.

Subpart A—General

§ 78.1 Purpose.

The rules and regulations set forth in this part provide for the licensing and operation of fixed or mobile cable television relay service stations (CARS) used for the transmission of television and related audio signals, signals of standard and FM broadcast stations, signals of instructional television fixed stations, and cablecasting from the point of reception to a terminal point from which the signals are distributed to the public by cable. In addition CARS stations may be used to transmit television and related audio signals to TV translator and low power TV stations.

[43 FR 1952, Jan. 13, 1978, as amended at 47 FR 21503, May 18, 1982]

§ 78.3 Other pertinent rules.

Other pertinent provisions of the Commission's rules and regulations relating to the cable television relay service (CARS) are included in the following parts of this chapter:

Part 0—Commission Organization.
Part 1—Practice and Procedure.
Part 2—Frequency Allocations and Radio Treaty Matters; General Rules and Regulations.
Part 17—Construction Marking and Lighting of Antenna Structures.
Part 21—Domestic Public Fixed Radio Services.
Part 74—Experimental, Auxiliary, and Special Broadcast, and Other Program Distribution Services.
Part 76—Cable Television Service.

[55 FR 46014, Oct. 31, 1990]

§ 78.5 Definitions.

For purposes of this part, the following definitions are applicable. For other definitions, see part 76 (Cable Television Service) of this chapter.

(a) *Cable television relay service* (*CARS*) *station*. A fixed or mobile station used for the transmission of television and related audio signals, signals of standard and FM broadcast stations, signals of instructional television fixed stations, and cablecasting from the point of reception to a terminal point from the point of reception to a terminal point from which the signals are distributed to the public.

NOTE: Except where the rules contained in this part make separate provision, the term ''Cable Television Relay service'' or ''CARS'' includes the term ''Local Distribution Service'' or ''LDS,'' the term ''Cable Television Relay service Studio to Headend Link'' or ''SHL,'' and the term ''Cable Television Relay PICKUP,'' as defined in paragraphs (b), (c), and (d) of this section.

(b) *Local distribution service* (*LDS*) *station*. A fixed CARS station used within a cable television system or systems for the transmission of television signals and related audio signals, signals of standard and FM broadcast stations, signals of instructional television fixed stations, and cablecasting from a local transmission point to one or more receiving points, from which the communications are distributed to the public. LDS stations may also engage in repeatered operation.

(c) *Cable Television Relay Service Studio to Headend Link* (*SHL*) *station*. A fixed CARS station used for the transmission of television program material and related communications from a cable television studio to the headend of a cable television system.

(d) *Cable Television Relay Service PICKUP station*. A land mobile CARS station used for the transmission of television signals and related communications from the scenes of events occurring at points removed from cable television studios to cable television studios or headends.

(e) *Remote control operation*. Operation of a station by a qualified operator on duty at a control position from which the transmitter is not visible but which control position is equipped with suitable control and telemetering circuits so that the essential functions that could be performed at the transmitter can also be performed from the control point.

(f) *Attended operation.* Operation of a station by a qualified operator on duty at the place where the transmitting apparatus is located with the transmitter in plain view of the operator.

(g) *Unattended operation.* Operation of a station by automatic means whereby the transmitter is turned on and off and performs its functions without attention by a qualified operator.

(h) *Authorized bandwidth.* The maximum bandwidth authorized to be used by a station as specified in the station license. (See §§2.202 and 78.104.)

(i) *Cable network-entity.* A cable network-entity is an organization which produces programs available for simultaneous transmission by cable systems serving a combined total of at least 5,000,000 subscribers and having distribution facilities or circuits available to such affiliated stations or cable systems.

(j) *Other eligible system.* A system comprised of microwave radio channels in the Multipoint Distribution Service and Multichannel Multipoint Distribution Services (as defined in §21.2 of this chapter, and, on a part-time basis, in the Instructional Television Fixed Service (as defined in §74.901 of this chapter) that delivers multichannel television service over the air to subscribers.

[37 FR 3292, Feb. 12, 1972, as amended at 38 FR 16647, June 25, 1973; 39 FR 26025, July 16, 1974; 43 FR 1953, Jan. 13, 1978; 52 FR 7143, Mar. 9, 1987; 55 FR 46015, Oct. 31, 1990]

Subpart B—Applications and Licenses

§78.11 Permissible service.

(a) CARS stations are authorized to relay TV broadcast and low power TV and related audio signals, the signals of AM and FM broadcast stations, signals of instructional TV fixed stations, and cablecasting intended for use by one or more cable television systems or other eligible systems. LDS stations are authorized to relay television broadcast and related audio signals, the signals of AM and FM broadcast stations, signals of instructional television fixed stations, cablecasting, and such other communications as may be authorized by the Commission. Relaying includes retransmission of signals by intermediate relay stations in the system. CARS licensees may interconnect their facilities with those of other CARS, common carrier, or television auxiliary licensees, and may also retransmit the signals of such CARS, common carrier, or television auxiliary stations, provided that the program material retransmitted meets the requirements of this paragraph.

(b) The transmitter of a CARS station using FM transmission may be multiplexed to provide additional communication channels for the transmission of standard and FM broadcast station programs and operational communications directly related to the technical operation of the relay system (including voice communications, telemetry signals, alerting signals, fault reporting signals, and control signals). A CARS station will be authorized only where the principal use is the transmission of television broadcast program material or cablecasting: *Provided, however,* That this requirement shall not apply to LDS stations.

(c) CARS station licenses may be issued to cable television owners or operators or other eligible system owners or operators, and to cooperative enterprises owned by cable television owners or operators or other eligible system owners or operators. Television translator licensees may be members of such cooperative enterprises.

(d) CARS systems shall supply program material to cable television systems, other eligible systems, and translator stations only in the following circumstances.

(1) Where the licensee of the CARS station or system is owner or operator of the cable television systems or other eligible systems supplied with program material; or

(2) Where the licensee of the CARS station or system supplies program material to cable television systems, other eligible systems, or television translator stations either without charge or on a non-profit, cost-sharing basis pursuant to a written contract between the parties involved which provides that the CARS licensee shall have exclusive control over the operation of the CARS stations licensed to him and that contributions to capital and operating expenses are accepted

only on a cost-sharing, nonprofit basis, prorated on an equitable basis among all cable television systems or other eligible systems being supplied with program material in whole or in part. Charges for the programming material are not subject to this restriction and cable network-entities may fully charge for their services. Records showing the cost of the service and its nonprofit, cost-sharing nature shall be maintained by the CARS licensee and held available for inspection by the Commission.

(e) The license of a CARS pickup station authorizes the transmission of program material, and related communications necessary to the accomplishment of such transmission, from the scenes of events occurring in places other than a cable television studio or the studio of another eligible system, to the studio, headend, or transmitter of its associated cable television system or other eligible system, or to such other cable television or other eligible systems as are carrying the same program material. CARS pickup stations may be used to provide temporary CARS studio-to-headend links, studio-to-transmitter links, or CARS circuits consistent with this part without further authority of the Commission: *Provided, however,* That prior Commission authority shall be obtained if the transmitting antenna to be installed will increase the height of any natural formation or manmade structure by more than 6.1 meters (20 feet) and will be in existence for a period of more than 2 consecutive days: *And provided, further,* That if the transmitting equipment is to be operated for more than 1 day outside of the area to which the CARS station has been licensed, the Commission, the Engineer in charge of the district in which the station is licensed to operate, and the Engineer in charge of the district in which the equipment will be temporarily operated shall be notified at least 1 day prior to such operation. If the decision to continue operation for more than 1 day is not made until the operation has begun, notice shall be given to the Commission and the relevant Engineers in charge within 1 day after such decision. In all instances, the Commission and the relevant Engineers in charge shall be notified when the transmitting equipment has been returned to its licensed area.

(f) A cable network-entity may use CARS stations to transmit their own television program materials to cable television systems, other eligible systems, other cable network-entities, broadcast stations, and broadcast network-entities: *Provided, however,* That the bands 1990–2110 MHz, 6425–6526 MHz and 6875–7125 MHz may be used by cable network-entities only for CARS pickup stations.

(g) The provisions of paragraph (d) of this section and § 78.13 of this part shall not apply to a licensee who has been licensed in the CARS service pursuant to § 21.709 of this chapter, except that paragraph (d) of this section shall apply with respect to facilities added or cable television and other eligible systems first served after February 1, 1966.

[37 FR 3292, Feb. 12, 1972, as amended at 37 FR 15926, Aug. 8, 1972; 43 FR 1953, Jan. 13, 1978; 43 FR 25127, June 9, 1978; 44 FR 32382, June 6, 1979; 47 FR 21503, May 18, 1982; 50 FR 23421, June 4, 1985; 52 FR 7144, Mar. 9, 1987; 55 FR 46015, Oct. 31, 1990; 58 FR 44952, Aug. 25, 1993]

§ 78.13 Eligibility for license.

A license for CARS station will be issued only:

(a) To the owner or one who is responsible for the management and operation of a cable television system,

(b) To a cooperative enterprise wholly owned by cable television owners or operators, or

(c) A cable network-entity upon showing that the applicant is qualified under the Communications Act of 1934, that frequencies are available for the proposed operation, and that the public interest, convenience, and necessity will be served by a grant thereof.

(d) Licensees and conditional licensees of channels in the Multipoint Distribution Service and Multichannel Multipoint Distribution Service as defined in § 21.2 of this chapter, or entities that hold an executed lease agreement with an MDS or MMDS licensee or conditional licensee or with an Instructional Television Fixed Service licensee or permittee.

(e) Licensees, construction permittees, and applicants of channels in the Instructional Television Fixed Service (ITFS) as defined in §74.901 if:

(1) The station is authorized or the application proposes authorization as a point-to-point operation; and

(2) Grant of a CARS license would allow displacement of any E or F channel of the ITFS point-to-point operation by a Multipoint Distribution Service (MDS) or Multichannel Multipoint Distribution Service (MMDS) applicant, conditional licensee, or licensee.

[52 FR 7144, Mar. 9, 1987, as amended at 55 FR 46015, Oct. 31, 1990; 56 FR 57601, Nov. 13, 1991]

§78.15 Contents of applications.

(a) Applications for authorization in the Cable Television Relay Service shall be submitted on FCC Form 327, and shall contain the information requested therein. Applications requiring fees as set forth at part 1, subpart G of this chapter must be filed in accordance with §0.401(b) of the rules.

(b) An application for a CARS studio to headend link or LDS station license shall contain a statement that the applicant has investigated the possibility of using cable rather than microwave and the reasons why it was decided to use microwave rather than cable.

NOTE: Each applicant filing pursuant to §78.15 is responsible for the continuing accuracy and completeness of all information in such applications. The provisions of §1.65 are wholly applicable to applications pursuant to §78.15, as well as to amendments filed pursuant to §78.17, and objections filed pursuant to §78.22, except that where the specific provisins of §§78.15, 78.17, 78.22 conflict with the provisions of §1.65, the specific provisions are controlling, e.g., where requirements for service on specified parties of certain information may vary.

(c) CARS applicants must follow the procedures prescribed in subpart 1 of part 1 of this chapter (§§1.1301 through 1.1319) regarding the filing of environmental assessments unless Commission action authorizing construction of a CARS station would be categorically excluded from the environmental processing requirements under §1.1306 of this chapter.

[41 FR 3719, Jan. 23, 1976, as amended at 41 FR 32429, Aug. 3, 1976; 42 FR 61864, Dec. 7, 1977; 50 FR 23421, June 4, 1985; 52 FR 10231, Mar. 31, 1987; 55 FR 20398, May 16, 1990]

§78.16 Who may sign applications.

(a) Applications, amendments thereto, and related statements of fact required by the Commission shall be personally signed by the applicant, if the applicant is an individual; by one of the partners, if the applicant is a partnership; by an officer, if the applicant is a corporation; or by a member who is an officer, if the applicant is an unincorporated association. Applications, amendments, and related statements of fact filed on behalf of government entities shall be signed by such duly elected or appointed officials as may be competent to do so under the laws of the applicable jurisdiction.

(b) Applications, amendments thereto, and related statements of fact required by the Commission may be signed by the applicant's attorney in case of the applicant's physical disability or of his absence from the United States. The attorney shall in that event separately set forth the reasons why the application is not signed by the applicant. In addition, if any matter is stated on the basis of the attorney's belief only (rather than his knowledge), he shall separately set forth his reasons for believing that such statements are true.

(c) Only the original of applications, amendments, or related statements of fact need be signed; copies may be conformed.

(d) Applications, amendments, and related statements of fact need not be submitted under oath. Willful false statements made therein, however, are punishable by fine and imprisonment, United States Code, title 18, section 1001, and by appropriate administrative sanctions, including revocation of station license pursuant to section 312(a)(1) of the Communications Act of 1934, as amended.

[37 FR 15926, Aug. 8, 1972]

§ 78.17 Amendment of applications.

Any application may be amended as a matter of right prior to the adoption date of any final action taken by the Commission with respect to the application, merely by filing the appropriate number of copies of the amendment in question duly executed in accordance with § 78.16. If a petition to deny has been filed, the amendment shall be served on the petitioner.

[37 FR 15926, Aug. 8, 1972]

§ 78.18 Frequency assignments.

(a) The Cable Television Relay Service is assigned the band of frequencies from 12.70 to 13.20 GHz. This band is shared with the Fixed-Satellite Service (earth-to-space) from 12.70 to 12.75 GHz and Television Auxiliary Broadcast Stations from 12.70 to 13.20 GHz. The following channels may be assigned to CARS stations for the propagation of radio waves with the indicated polarization:

(1) For CARS stations using FM transmission:

GROUP A CHANNELS

Designation	Channel boundaries (GHz)
A01 [1]	12.700–12.725
A02 [1]	12.725–12.750
A03 [1]	12.750–12.775
A04 [1]	12.775–12.800
A05 [1]	12.800–12.825
A06 [1]	12.825–12.850
A07 [1]	12.850–12.875
A08 [1]	12.875–12.900
A09 [1]	12.900–12.925
A10 [1]	12.925–12.950
A11 [1]	12.950–12.975
A12 [1]	12.975–13.000
A13 [1]	13.000–13.025
A14 [1]	13.025–13.050
A15 [1]	13.050–13.075
A16 [1]	13.075–13.100
A17 [1]	13.100–13.125
A18 [1]	13.125–13.150
A19 [1]	[2] 13.150–13.175
A20 [1]	[2] 13.170–13.200

[1] Appropriate polarization designation:

H=Horizontally polarized propagated radio wave.

V=Vertically polarized propagated radio wave.

R=Right-handed (clockwise) elliptically polarized propagated radio wave.

L=Left-handed (counter-clockwise) elliptically polarized propagated radio wave.

[2] See paragraph (l) of this section.

NOTE: Polarization designations shall be in accordance with IEEE standard 100–1972 as amended.

GROUP B CHANNELS

Designation	Channel boundaries (GHz)
B01 [1]	12.7125–12.7375
B02 [1]	12.7375–12.7625
B03 [1]	12.7625–12.7875
B04 [1]	12.7875–12.8125
B05 [1]	12.8125–12.8375
B06 [1]	12.8375–12.8625
B07 [1]	12.8625–12.8875
B08 [1]	12.8875–12.9125
B09 [1]	12.9125–12.9375
B10 [1]	12.9375–12.9625
B11 [1]	12.9625–12.9875
B12 [1]	12.9875–13.0125
B13 [1]	13.0125–13.0375
B14 [1]	13.0375–13.0625
B15 [1]	13.0625–13.0875
B16 [1]	13.0875–13.1125
B17 [1]	13.1125–13.1375
B18 [1]	[2] 13.1375–13.1625
B19 [1]	[2] 13.1625–13.1875

[1] See footnote 1 following GROUP A CHANNELS.

[2] See paragraph (l) of this section.

NOTE: Polarization designations shall be in accordance with IEEE standard 100–1972 as amended.

(2) CARS stations using vestigal sideband AM transmission and FM transmission requiring a necessary bandwidth of no more than 6 MHz.

GROUP C CHANNELS

Designation	Channel boundaries (GHz)
C01 [1]	12.7005–12.7065
C02 [1]	12.7065–12.7125
C03 [1]	12.7125–12.7185
C04 [1]	[2] 12.7185–12.7225
C05 [1]	12.7225–12.7285
C06 [1]	12.7285–12.7345
C07 [1]	12.7345–12.7405
C08 [1]	12.7405–12.7465

GROUP C CHANNELS—Continued

Designation	Channel boundaries (GHz)
C09 [1]	12.7465–12.7525
C10 [1]	[2] 12.7525–12.7545
C11 [1]	12.7545–12.7605
C12 [1]	12.7605–12.7665
C13 [1]	12.7665–12.7725
C14 [1]	12.7725–12.7785
C15 [1]	12.7785–12.7845
C16 [1]	12.7845–12.7905
C17 [1]	12.7905–12.7965
C18 [1]	12.7965–12.8025
C19 [1]	12.8025–12.8085
C20 [1]	12.8085–12.8145
C21 [1]	12.8145–12.8205
C22 [1]	12.8205–12.8265
C23 [1]	12.8265–12.8325
C24 [1]	12.8325–12.8385
C25 [1]	12.8385–12.8445
C26 [1]	12.8445–12.8505
C27 [1]	12.8505–12.8565
C28 [1]	12.8565–12.8625
C29 [1]	12.8625–12.8685
C30 [1]	12.8685–12.8745
C31 [1]	12.8745–12.8805
C32 [1]	12.8805–12.8865
C33 [1]	12.8865–12.8925
C34 [1]	12.8925–12.8985
C35 [1]	12.8985–12.9045
C36 [1]	12.9045–12.9105
C37 [1]	12.9105–12.9165
C38 [1]	12.9165–12.9225
C39 [1]	12.9225–12.9285
C40 [1]	12.9285–12.9345
C41 [1]	12.9345–12.9405
C42 [1]	12.9405–12.9465

[1] See footnote 1 following GROUP A CHANNELS.
[2] For transmission of pilot subcarriers or other authorized narrow band signals.

GROUP D CHANNELS

Designation	Channel boundaries (GHz)
D01 [1]	12.7597–12.7657
D02 [1]	12.7657–12.7717
D03 [1]	12.7717–12.7777
D04 [1]	[2] 12.7777–12.7817
D05 [1]	12.7817–12.7877
D06 [1]	12.7877–12.7937
D07 [1]	12.7937–12.7997
D08 [1]	12.7997–12.8057
D09 [1]	12.8057–12.8117
D10 [1]	[2] 12.8117–12.8137
D11 [1]	12.8137–12.8197
D12 [1]	12.8197–12.8257
D13 [1]	12.8257–12.8317
D14 [1]	12.8317–12.8377
D15 [1]	12.8377–12.8437
D16 [1]	12.8437–12.8497
D17 [1]	12.8497–12.8557
D18 [1]	12.8557–12.8617
D19 [1]	12.8617–12.8677
D20 [1]	12.8677–12.8737
D21 [1]	12.8737–12.8797
D22 [1]	12.9797–12.8857
D23 [1]	12.8857–12.8917
D24 [1]	12.8917–12.8977
D25 [1]	12.8977–12.9037
D26 [1]	12.9037–12.9097
D27 [1]	12.9097–12.9157
D28 [1]	12.9157–12.9217
D29 [1]	12.9217–12.9277
D30 [1]	12.9277–12.9337
D31 [1]	12.9337–12.9397
D32 [1]	12.9397–12.9457
D33 [1]	12.9457–12.9517
D34 [1]	12.9517–12.9577
D35 [1]	12.9577–12.9637

GROUP D CHANNELS—Continued

Designation	Channel boundaries (GHz)
D36 [1]	12.9637–12.9697
D37 [1]	12.9697–12.9757
D38 [1]	12.9757–12.9817
D39 [1]	12.9817–12.9877
D40 [1]	12.9877–12.9937
D41 [1]	12.9937–12.9997
D42 [1]	12.9997–13.0057

[1] See footnote 1 following GROUP A CHANNELS.
[2] See footnote 2 following GROUP C CHANNELS.

GROUP E CHANNELS

Designation	Channel boundaries (GHz)
E01 [1]	12.9525–12.9585
E02 [1]	12.9585–12.9645
E03 [1]	12.9645–12.9705
E04 [1]	[2] 12.9705–12.9745
E05 [1]	12.9745–12.9805
E06 [1]	12.9805–12.9865
E07 [1]	12.9865–12.9925
E08 [1]	12.9925–12.9985
E09 [1]	12.9985–13.0045
E10 [1]	[2] 13.0045–13.0065
E11 [1]	13.0065–13.0125
E12 [1]	13.0125–13.0185
E13 [1]	13.0185–13.0245
E14 [1]	13.0245–13.0305
E15 [1]	13.0305–13.0365
E16 [1]	13.0365–13.0425
E17 [1]	13.0425–13.0485
E18 [1]	13.0485–13.0545
E19 [1]	13.0545–13.0605
E20 [1]	13.0605–13.0665
E21 [1]	13.0665–13.0725
E22 [1]	13.0725–13.0785
E23 [1]	13.0785–13.0845
E24 [1]	13.0845–13.0905

GROUP E CHANNELS—Continued

Designation	Channel boundaries (GHz)
E25 [1]	13.0905–13.0965
E26 [1]	13.0965–13.1025
E27 [1]	13.1025–13.1085
E28 [1]	13.1085–13.1145
E29 [1]	13.1145–13.1205
E30 [1]	13.1205–13.1265
E31 [1]	13.1265–13.1325
E32 [1]	13.1325–13.1385
E33 [1]	13.1385–13.1445
E34 [1]	[3] 13.1445–13.1505
E35 [1]	[3] 13.1505–13.1565
E36 [1]	[3] 13.1565–13.1625
E37 [1]	[3] 13.1625–13.1685
E38 [1]	[3] 13.1685–13.1745
E39 [1]	[3] 13.1745–13.1805
E40 [1]	[3] 13.1805–13.1865
E41 [1]	[3] 13.1865–13.1925
E42 [1]	[3] 13.1925–13.1985

[1] See footnote 1 following GROUP A CHANNELS.
[2] See footnote 2 following GROUP C CHANNELS.
[3] See paragraph (l) of this section.

GROUP F CHANNELS

Designation	Channel boundaries (GHz)
F01 [1]	13.0125–13.0185
F02 [1]	13.0185–13.0245
F03 [1]	13.0245–13.0305
F04 [1]	[2] 13.0305–13.0345
F05 [1]	13.0345–13.0405
F06 [1]	13.0405–13.0465
F07 [1]	13.0465–13.0525
F08 [1]	13.0525–13.0585
F09 [1]	13.0585–13.0645
F10 [1]	[2] 13.0645–13.0665
F11 [1]	[2] 13.0665–13.0725
F12 [1]	13.0725–13.0785
F13 [1]	13.0785–13.0845

GROUP F CHANNELS—Continued

Designation	Channel boundaries (GHz)
F14 [1]	13.0845–13.0905
F15 [1]	13.0905–13.0965
F16 [1]	13.0965–13.1025
F17 [1]	13.1025–13.1085
F18 [1]	13.1085–13.1145
F19 [1]	13.1145–13.1205
F20 [1]	13.1205–13.1265
F21 [1]	13.1265–13.1325
F22 [1]	13.1325–13.1385
F23 [1]	13.1385–13.1445
F24 [1]	[3] 13.1445–13.1505
F25 [1]	[3] 13.1505–13.1565
F26 [1]	[3] 13.1565–13.1625
F27 [1]	[3] 13.1625–13.1685
F28 [1]	[3] 13.1685–13.1745
F29 [1]	[3] 13.1745–13.1805
F30 [1]	[3] 13.1805–13.1865
F31 [1]	[3] 13.1865–13.1925
F32 [1]	[3] 13.1925–13.1985

[1] See footnote 1 following GROUP A CHANNELS.
[2] See footnote 2 following GROUP C CHANNELS.
[3] See paragraph (l) of this section.

(3) For CARS stations using AM and FM transmission requiring a necessary bandwidth of no more than 12.5 MHz.

GROUP K CHANNEL

Designation	Channel boundaries (GHz)
K01 [1]	12.7000–12.7125
K02 [1]	12.7125–12.7250
K03 [1]	12.7250–12.7375
K04 [1]	12.7375–12.7500
K05 [1]	12.7500–12.7625
K06 [1]	12.7625–12.7750
K07 [1]	12.7750–12.7875
K08 [1]	12.7875–12.8000
K09 [1]	12.8000–12.8125

GROUP K CHANNEL—Continued

Designation	Channel boundaries (GHz)
K10 [1]	12.8125–12.8250
K11 [1]	12.8250–12.8375
K12 [1]	12.8375–12.8500
K13 [1]	12.8500–12.8625
K14 [1]	12.8625–12.8750
K15 [1]	12.8750–12.8875
K16 [1]	12.8875–12.9000
K17 [1]	12.9000–12.9125
K18 [1]	12.9125–12.9250
K19 [1]	12.9250–12.9375
K20 [1]	12.9375–12.9500
K21 [1]	12.9500–12.9625
K22 [1]	12.9625–12.9750
K23 [1]	12.9750–12.9875
K24 [1]	12.9875–13.0000
K25 [1]	13.0000–13.0125
K26 [1]	13.0125–13.0250
K27 [1]	13.0250–13.0375
K28 [1]	13.0375–13.0500
K29 [1]	13.0500–13.0625
K30 [1]	13.0625–13.0750
K31 [1]	13.0750–13.0875
K32 [1]	13.0875–13.1000
K33 [1]	13.1000–13.1125
K34 [1]	13.1125–13.1250
K35 [1]	13.1250–13.1375
K36 [1]	13.1375–13.1500
K37 [1 2]	13.1500–13.1625
K38 [1 2]	13.1625–13.1750
K39 [1 2]	13.1750–13.1875
K40 [1 2]	13.1875–13.2000

[1] See footnote 1 following GROUP A CHANNELS.
[2] See paragraph (l) of this section.

(4) The Cable Television Relay Service is also assigned the following frequencies in the 17,700 to 19,700 MHz band. These frequencies are co-equally shared with stations in fixed service

under Parts 21, 74 and 94 of the Commission's Rules. Applicants may use either a two-way link or one or both frequencies of a frequency pair for a one-way link and shall coordinate proposed operations pursuant to procedures required in § 21.100(d). These bands may be used for analog or digital modulation.

(i) 2 MHz maximum authorized bandwidth channel:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
18141.0	n/a

(ii) 6 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
216 MHz Separation	
18145.0	n/a
18151.0	18367.0
18157.0	18373.0
18163.0	18379.0
18169.0	18385.0
18175.0	18391.0
18181.0	18397.0
18187.0	18403.0
18193.0	18409.0
18199.0	18415.0
18205.0	18421.0
18211.0	18427.0
18217.0	18433.0
18223.0	18439.0
18229.0	18445.0
18235.0	18451.0
18241.0	18457.0
18247.0	18463.0
18253.0	18469.0
18259.0	18475.0
18265.0	18481.0
18271.0	18487.0
18277.0	18493.0
18283.0	18499.0
18289.0	18505.0
18295.0	18511.0
18301.0	18517.0
18307.0	18523.0
18313.0	18529.0
18319.0	18535.0
18325.0	18541.0
18331.0	18547.0
18337.0	18553.0
18343.0	18559.0
18349.0	18565.0
18355.0	18571.0
18361.0	18577.0

(iii) 10 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
1560 MHz Separation	
17705.0	19265.0
17715.0	19275.0
17725.0	19285.0
17735.0	19295.0
17745.0	19305.0
17755.0	19315.0
17765.0	19325.0
17775.0	19335.0
17785.0	19345.0
17795.0	19355.0
17805.0	19365.0
17815.0	19375.0
17825.0	19385.0
17835.0	19395.0
17845.0	19405.0
17855.0	19415.0
17865.0	19425.0
17875.0	19435.0
17885.0	19445.0
17895.0	19455.0
17905.0	19465.0
17915.0	19475.0
17925.0	19485.0
17935.0	19495.0
17945.0	19505.0
17955.0	19515.0
17965.0	19525.0
17975.0	19535.0
17985.0	19545.0
17995.0	19555.0
18005.0	19565.0
18015.0	19575.0
18025.0	19585.0
18035.0	19595.0
18045.0	19605.0
18055.0	19615.0
18065.0	19625.0
18075.0	19635.0
18085.0	19645.0
18095.0	19655.0
18105.0	19665.0
18115.0	19675.0
18125.0	19685.0
18135.0	19695.0

(iv) 20 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
1560 MHz Separation	
17710.0	19270.0
17730.0	19290.0
17750.0	19310.0
17770.0	19330.0
17790.0	19350.0
17810.0	19370.0
17830.0	19390.0
17850.0	19410.0
17870.0	19430.0
17890.0	19450.0
17910.0	19470.0
17930.0	19490.0
17950.0	19510.0
17970.0	19530.0
17990.0	19550.0

Transmit (receive) (MHz)	Receive (transmit) (MHz)
18010.0	19570.0
18030.0	19590.0
18050.0	19610.0
18070.0	19630.0
18090.0	19650.0
18110.0	19670.0
18130.0	19690.0

(v) 40 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
1560 MHz Separation	
17720.0	19280.0
17760.0	19320.0
17800.0	19360.0
17840.0	19400.0
17880.0	19440.0
17920.0	19480.0
17960.0	19520.0
18000.0	19560.0
18040.0	19600.0
18080.0	19640.0
18120.0	19680.0

(vi) 80 MHz maximum authorized bandwidth channels:

Transmit (receive) (MHz)	Receive (transmit) (MHz)
1560 MHz Separation	
17740.0	19300.0
17820.0	19380.0
17900.0	19460.0
17980.0	19540.0
18060.0	19620.0

(5) *6425 to 6525 MHz-Mobile Only*. Paired and unpaired operations permitted. Use of this spectrum for direct delivery of video programs to the general public or multi-channel cable distribution is not permitted. This band is co-equally shared with mobile stations licensed pursuant to parts 21, 74 and 94 of the Commission's Rules. The following channels plans apply.

(i) 1 MHz maximum authorized bandwidth channels.

Transmit (or receive) (MHz)	Receive (or transmit) (MHz)
6425.5	6475.5
6450.5	6500.5

(ii) 8 MHz maximum authorized bandwidth channels.

Transmit (or receive) (MHz)	Receive (or transmit) (MHz)
6430.0	6480.0
6438.0	6488.0
6446.0	6596.0
6455.0	6505.0
6463.0	6513.0
6471.0	6521.0

(iii) 25 MHz maximum authorized bandwidth channels.

Transmit (or receive) (MHz)	Receive (or transmit) (MHz)
6437.5	6487.5
6462.5	6512.5

(6) *1990–2110 MHz—Mobile only*. Use of this spectrum for direct delivery of video programs to the general public or multi-channel cable distribution is not permitted. This band is co-equally shared with stations licensed pursuant to parts 21 and 74 of the Commission's Rules. (Common carriers may use this band pursuant to provisions of § 21.801(b).) The following channeling plan applies subject to the provisions of § 74.604.

Frequency Band (MHz)

1990–2008
2008–2025
2025–2042
2042–2059
2059–2076
2076–2093
2093–2110

(7) *6875–7125 MHz—Mobile only*. Use of this spectrum for direct delivery of video programs to the general public or multi-channel cable distribution is not permitted. This band is co-equally shared with stations licensed pursuant to parts 21 and 74 of the Commission's Rules. (Common carriers may use this band pursuant to provisions of § 21.801(b).) The following channeling plan applies subject to the provisions of § 74.604.

Frequency Band (MHz)

6875—6900
6900—6925
6925—6950
6950—6975
6975—7000
7000—7025
7025—7050
7050—7075
7075—7100
7100—7125

(b) Television Auxiliary Broadcast Service stations may be assigned channels in the band 12.70–13.20 GHz subject to the condition that no harmful interference is caused to fixed CARS stations authorized at the time of such grants. Translator Relay stations are assigned on a secondary basis. New CARS stations shall not cause harmful interference to television STL and intercity relay stations authorized at the time of such grants. Television pickup stations and CARS pickup stations will be assigned channels in the band on a co-equal basis subject to the conditions that they accept interference from and cause no interference to existing or subsequently authorized television STL, television intercity relay, or fixed CARS stations. Channels in the 13.150–13.200 GHz band will be assigned exclusively to television pickup and CARS pickup stations on a co-equal basis. A cable television system operator will normally be limited in any one area to the assignment of not more than three channels for CARS pickup use: *Provided, however,* That additional channels may be assigned upon a satisfactory showing that additional channels are necessary and are available.

(c) An application for a CARS station shall be specific with regard to the channel or channels requested. Channels shall be identified by the appropriate designations set forth in paragraph (a) of this section.

(d) For CARS Fixed stations using FM transmission with an authorized bandwidth per channel of 25 MHz, to conserve spectrum applicants are encouraged to use alternate A and B channels such that adjacent R.F. carriers are spaced 12.5 MHz. As example, a fixed station in the CARS, relaying several channels, would use A01, B01, A02, B02, A03, etc.

(e) For CARS stations using vestigial sideband AM transmissions, channels from only the Groups C, D, E or F and those frequencies listed in paragraph (a)(4)(ii) of this section normally will be assigned a station, although upon adequate showing variations in the use of channels in Groups C, D, E or F and those frequencies listed in paragraph (a)(4)(ii) of this section may be authorized on a case-by-case basis in order to avoid potential interference or to permit a more efficient use. In situations where the number or the arrangement of channels available in these groups is not adequate, or in order to avoid potential interference, or in order to achieve the required VHF channelization arrangement on the cable television system or for repeated operations, or for two way transmission, or upon the showing of other good cause, the use of channels in the Groups C, D, E or F and those frequencies listed in paragraph (a)(4)(ii) of this section may be authorized. Applicants are encouraged to apply for adjacent channels within each group of channels, except that different channel arrangements may be authorized when required to conform to the required channelization arrangement at VHF on the cable television system, when it is necessary to transmit non-adjacent off-the-air channels or signals intended to fill non-adjacent slots in the spectrum, or to avoid potential interference, or upon other showing of good cause.

(f) For vestigial sideband AM transmission, the assigned visual carrier frequency for each channel listed in Groups C, D, E or F and those frequencies listed in paragraph (a)(4)(ii) of this section shall be 1.25 MHz above the lower channel-edge frequency. The center frequency for the accompanying FM aural carrier in each channel shall be 4.5 MHz above the corresponding visual carrier frequency.

(g) For CARS stations using double sideband AM transmission or FM transmission with authorized bandwidth of no more than 12.5 MHz, Group K channels normally will be assigned to a station, although upon adequate showing variations in the use of channels in Group K may be authorized on a case-by-case basis in order to avoid potential interference or to permit a more efficient use.

(h) For double sideband AM transmission, the assigned carrier frequency for each channel listed in Group K shall be 6.25 MHz above the lower boundary frequency for each channel, and the sideband frequencies corresponding to the carrier frequency of the accompanying FM aural signal shall be 4.5 MHz above and below the visual carrier frequency.

(i) All stations shall employ no more than a 12.5 MHz authorized bandwidth per channel except in any one or more of the following circumstances:

(1) The station is a CARS pickup station;

(2) The transmission path is more than 16.1 km (10 miles) in length;

(3) The station was authorized or an application was on file therefor prior to July 26, 1973.

(4) Other good cause has been shown that use of a bandwidth of 12.5 MHz or less per channel would be inefficient, impractical, or otherwise contrary to the public interest.

(j) Should any conflict arise among applications for stations in this band, priority will be based on the filing date of an application completed in accordance with the instructions thereon.

(k) Applicants for Group K channels shall apply for adjacent channels and the requested channels shall overlap the least possible number of Group A channels, except that different channel arrangements may be authorized upon an adequate showing that the foregoing arrangement cannot be used or would be contrary to the public interest, or in order to avoid potential interference or to permit a more efficient use.

(l) The band 13.15–13.20 GHz is reserved exclusively for the assignment of CARS Pickup and Television Pickup stations on a co-equal basis within a 50 km radius of each of the 100 television markets delineated in §76.51. Fixed Television Auxiliary stations licensed pursuant to applications accepted for filing before September 1, 1979, may continue operation on channels in the 13.15–13.20 GHz band, subject to periodic license renewals.

[37 FR 3292, Feb. 12, 1972. Redesignated at 37 FR 15926, Aug. 8, 1972.]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting §78.18, see the List of CFR Sections Affected in the Finding Aids section of this volume.

§78.19 Interference.

(a) Applications for CARS stations shall endeavor to select an assignable frequency or frequencies which will be least likely to result in interference to other licensees in the same area since the FCC itself does not undertake frequency coordination.

(b) Applicants for CARS stations shall take full advantage of all known techniques, such as the geometric arrangement of transmitters and receivers, the use of minimum power required to provide the needed service, and the use of highly directive transmitting and receiving antenna systems, to prevent interference to the reception of television STL, television intercity relay, and other CARS stations.

(c) *Radio Astronomy and Radio Research Installations.* In order to minimize harmful interference at the National Radio Astronomy Observatory site located at Green Bank, Pocahontas County, W. Va., and at the Naval Radio Research Observatory at Sugar Grove, Pendleton County, W.Va., an applicant for authority to construct a CARS station, except a CARS pickup station, or for authority to make changes in the frequency, power, antenna height, or antenna directivity of an existing station within the area bounded by 39°15′ N. on the north, 78°30′ W. on the east, 37°30′ N. on the south and 80°30′ W. on the west shall, at the time of filing such application with the Commission, simultaneously notify the Director, National Radio Astronomy Observatory, Post Office Box No. 2, Green Bank, WV 24944, in writing, of the technical particulars of the proposed station. Such notification shall include the geographical coordinates of the antenna, antenna height, antenna directivity if any, proposed frequency, type of emission, and power. In addition, the applicant shall indicate in his application to the Commission the date notification was made to the Observatory. After receipt of such application, the Commission will allow a period of 20 days for comments or objections in response to the notifications indicated. If an objection to the proposed operation is received during the 20-day period from the National Radio Astronomy Observatory for itself or on behalf of the Naval Radio Research Observatory, the Commission will consider all aspects of the problem and take whatever action is deemed appropriate.

(d) Protection for Table Mountain Radio Receiving Zone, Boulder County, Colorado: Applicants for a station authorization to operate in the vicinity

of Boulder County, Colorado under this part are advised to give due consideration, prior to filing applications, to the need to protect the Table Mountain Radio Receiving Zone from harmful interference. These are the research laboratories of the Department of Commerce, Boulder County, Colorado. To prevent degradation of the present ambient radio signal level at the site, the Department of Commerce seeks to ensure that the field strengths of any radiated signals (excluding reflected signals) received on this 1800 acre site (in the vicinity of coordinates 40°07′50″N Latitude, 105°14′40″W Longitude) resulting from new assignments (other than mobile stations) or from the modification or relocation of existing facilities do not exceed the following values:

Frequency range	In authorized bandwidth of service	
	Field strength (mV/m)	Power flux density [1] (dBW/m^2)
Below 540 kHz	10	−65.8
540 to 1600 kHz	20	−59.8
1.6 to 470 MHz	10	[2] −65.8
470 to 890 MHz	30	[2] −56.2
Above 890 MHz	1	[2] −85.8

[1] Equivalent values of power flux density are caculated assuming free space characteristic impedance of 376.7=120π ohms.

[2] Space stations shall conform to the power flux density limits at the earth's surface specified in appropriate parts of the FCC rules, but in no case should exceed the above levels in any 4 kHz band for all angles of arrival.

(1) Advance consultation is recomended particularly for those applicants who have no reliable data which indicates whether the field strength or power flux density figures in the above table would be exceeded by their proposed radio facilities (except mobile stations). In such instances, the following is a suggested guide for determining whether coordination is recommended:

(i) All stations within 2.4 km (1.5 statute miles);

(ii) Stations within 4.8 km (3 statute miles) with 50 watts or more effective radiated power (ERP) in the primary plane of polarization in the azimuthal direction of the Table Mountain Radio Receiving Zone;

(iii) Stations within 16 km (10 statute miles) with 1 kW or more ERP in the primary plane of polarization in the azimuthal direction of the Table Mountain Radio Receiving Zone;

(iv) Stations within 80 km (50 statute miles) with 25 kW or more ERP in the primary plane of polarization in the azimuthal direction of the Table Mountain Radio Receiving Zone.

(2) Applicants concerned are urged to communicate with the Radio Frequency Management Coordinator, Department of Commerce, Research Support Services, NOAA R/E5X2, Boulder Laboratories, Boulder, CO 80303; telephone (303) 497–6548, in advance of filing their applications with the Commission.

(3) The Commission will not screen applications to determine whether advance consultation has taken place. However, applicants are advised that such consultation can avoid objections from the Department of Commerce or proceedings to modify any authorization which may be granted which, in fact, delivers a signal at the site in excess of the field strength specified herein.

(e) Protection for Federal Communications Commission monitoring stations:

(1) Applicants in the vicinity of an FCC monitoring station for a radio station authorization to operate new transmitting facilities or changed transmitting facilities which would increase the field strength produced over the monitoring station over that previously authorized are advised to give consideration, prior to filing applications, to the possible need to protect the FCC stations from harmful interference. Geographical coordinates of the facilities which require protection are listed in §0.121(c) of the Commission's Rules. Applications for stations (except mobile stations) which will produce on any frequency a direct wave fundamental field strength of *greater than 10 mV/m* in the authorized bandwidth of service (−65.8 dBW/m^2 power flux density assuming a free space characteristic impedance of 120 ohms) at the referenced coordinates, may be examined to determine extent of possible interference. Depending on the theoretical field strength value and existing root-sum-square or other ambient radio field signal levels at the indicated coordinates, a clause protecting the monitoring station may be added to the station authorization.

(2) In the event that calculated value of expected field exceeds 10 mV/m (-65.8 dBW/m^2) at the reference coordinates, or if there is any question whether field strength levels might exceed the threshold value, advance consultation with the FCC to discuss any protection necessary should be considered. Prospective applicants may communicate with: Chief, Compliance and Information Bureau, Federal Communications Commission, Washington, D.C. 20554, Telephone (202) 632–6980.

(3) Advance consultation is suggested particularly for those applicants who have no reliable data which indicates whether the field strength or power flux density figure indicated would be exceeded by their proposed radio facilities (except mobile stations). In such instances, the following is a suggested guide for determining whether an applicant should coordinate:

(i) All stations within 2.4 kilometers (1.5 statute miles);

(ii) Stations within 4.8 kilometers (3 statute miles) with 50 watts or more average effective radiated power (ERP) in the primary plane of polarization in the azimuthal direction of the Monitoring Stations.

(iii) Stations within 16 kilometers (10 statute miles) with 1 kW or more average ERP in the primary plane of polarization in the azimuthal direction of the Monitoring Station;

(iv) Stations within 80 kilometers (50 statute miles) with 25 kW or more average ERP in the primary plane of polarization in the azimuthal direction of the Monitoring Station;

(4) Advance coordination for stations operating above 1000 MHz is recommended only where the proposed station is in the vicinity of a monitoring station designated as a satellite monitoring facility in section 0.121(c) of the Commission's Rules and also meets the criteria outlined in paragraphs (f)(2) and (3) of this section.

(5) The Commission will not screen applications to determine whether advance consultation has taken place. However, applicants are advised that such consultation can avoid objections from the Federal Communications Commission or modification of any authorization which will cause harmful interference.

[37 FR 3292, Feb. 12, 1972, as amended at 37 FR 15926, Aug. 8, 1972; 37 FR 26733, Dec. 15, 1972; 38 FR 1920, Jan. 19, 1973; 42 FR 33037, June 29, 1977; 44 FR 77167, Dec. 31, 1979; 45 FR 78694, Nov. 26, 1980; 50 FR 32418, Aug. 12, 1985; 50 FR 40863, Oct. 7, 1985; 50 FR 45406, Oct. 31, 1985; 58 FR 44952, Aug. 25, 1993; 61 FR 8478, Mar. 5, 1996]

§78.20 Acceptance of applications; public notice.

(a) Applications which are tendered for filing in Washington, DC, are dated upon receipt and then forwarded to the Mass Media Bureau where an administrative examination is made to ascertain whether the applications are complete. Applications found to be complete or substantially complete, are accepted for filing and are given a file number. In case of minor defects as to completeness, the applicant will be required to supply the missing information. Applications which are not substantially complete will be returned to the applicant. Applications requiring fees as set forth at Part 1, Subpart G of this chapter must be filed in accordance with §0.401(b) of the rules.

(b) Acceptance of an application for filing means only that it has been the subject of a preliminary review by the Commission's administrative staff as to completeness. Applications which are determined to be clearly not in accordance with the Commission's rules or other requirements, unless accompanied by an appropriate request for waiver, will be considered defective and will not be accepted for filing, or if inadvertently accepted for filing, will be dismissed. Requests for waiver shall show the nature of the waiver or exception desired and shall set forth the reasons in support thereof.

(c) The Commission will give public notice of all applications and major amendments thereto which have been accepted for filing. No application shall be acted on less than thirty (30) days from the date of public notice.

[37 FR 15926, Aug. 8, 1972, as amended at 52 FR 10231, Mar. 31, 1987]

§78.21 Dismissal of applications.

(a) Any application may, on request of the applicant, be dismissed without

prejudice as a matter of right prior to the adoption date of any final action taken by the Commission with respect to the application. An applicant's request for the return of an application will be regarded as a request for dismissal.

(b) Failure to prosecute an application, or failure to respond to official correspondence or request for additional information, will be cause for dismissal. Such dismissal will be without prejudice if it occurs prior to the adoption date of any final action taken by the Commission with respect to the application.

[37 FR 15927, Aug. 8, 1972]

§ 78.22 Objections to applications.

(a) Any party in interest may file a petition to deny any application (whether as originally filed or as amended) no later than thirty (30) days after issuance of a public notice of the acceptance for filing of any such application or amendment thereto. Petitions to deny shall contain specific allegations of fact sufficient to show that the petitioner is a party in interest and that a grant of the application would be prima facie inconsistent with the public interest, convenience, and necessity. Such allegations of fact shall, except for those of which official notice may be taken, be supported by affidavit of a person or persons with personal knowledge thereof.

(b) The applicant may file an opposition to any petition to deny, and the petitioner may file a reply to such opposition (see §1.45 of this chapter), in which allegations of fact or denials thereof shall be supported by affidavit of a person or persons with personal knowledge thereof.

(c) Notwithstanding the provisions of paragraph (a) of this section, before Commission action on any application for an instrument of authorization, any person may file informal objections to the grant. Such objections may be submitted in letter form (without extra copies) and shall be signed by the objector. The limitation on pleadings and time for filing pleadings provided for in §1.45 of this chapter shall not be applicable to any objections duly filed pursuant to this paragraph.

[37 FR 15927, Aug. 8, 1972, as amended at 50 FR 23421, June 4, 1985]

§ 78.23 Equipment tests.

(a) Following the grant of a CARS license, the licensee, during the process of construction of the station, may, without further authority from the Commission, conduct equipment tests for the purpose of such adjustments and measurements as may be necessary to assure compliance with the terms of the authorization, the technical provisions of the application therefore, the rules and regulations, and the applicable engineering standards.

(b) The Commission may notify the licensee to conduct no tests or may cancel, suspend, or change the date for the beginning of equipment tests as and when such action may appear to be in the public interest, convenience, and necessity.

(c) The test authorized in this section shall be conducted only as a necessary part of construction.

[50 FR 23421, June 4, 1985]

§ 78.27 License conditions.

(a) Authorizations (including initial grants, modifications, assignments or transfers of control, and renewals) in the Cable Television Relay Service to serve cable television systems and other eligible systems, shall contain the condition that cable television systems shall operate in compliance with the provisions of part 76 (Cable Television Service) of this chapter and that other eligible systems shall operate in compliance with the provisions of part 21 and part 74 of this chapter.

(b) CARS stations licensed under this subpart are required to commence operation within one year of the date of the license grant.

(1) The licensee of a CARS station shall notify the Commission in writing when the station commences operation. Such noitification shall be submitted on or before the last day of the authorized one year construction period; otherwise, the station license shall be automatically forfeited.

(2) CARS licensees needing additional time to complete construction of the

station and commence operation shall request an extension of time 30 days before the expiration of the one year construction period. Exceptions to the 30-day advance filing requirement may be granted where unanticipated delays occur.

[50 FR 23421, June 4, 1985, as amended at 55 FR 46015, Oct. 31, 1990]

§78.29 License period.

Licenses for CARS stations will be issued for a period not to exceed five (5) years. On and after February 1, 1966, licenses for CARS stations ordinarily will be issued for a period expiring on February 1, 1971, and, when regularly renewed, at 5-year intervals thereafter. When a license is granted subsequent to the last renewal date for CARS stations, the license will be issued only for the unexpired period of the current license term of such stations. The license renewal date applicable to CARS stations may be varied as necessary to permit the orderly processing of renewal applications, and individual station licenses may be granted or renwed for a shorter period of time than that generally prescribed for CARS stations, if the Commission finds that the public interest, convenience, and necessity would be served by such action.

§78.31 Temporary extension of license.

Where there is pending before the Commission any application, investigation, or proceeding which, after hearing, might lead to or make necessary the modification of, revocation of or the refusal to renew an existing cable television relay station license, the Commission will grant a temporary extension of such license: *Provided, however,* That no such temporary extension shall be construed as a finding by the Commission that the operation of any CARS station thereunder will serve the public interest, convenience, and necessity beyond the express terms of such temporary extension of license: *And provided, further,* That such temporary extension of license will in nowise affect or limit the action of the Commission with respect to any pending application or proceeding.

§78.33 Special temporary authority.

(a) Notwithstanding the requirements of §§78.15 and 78.20, in circumstances requiring immediate or temporary use of facilities, a request may be made for special temporary authority to install and operate new equipment or to operate licensed equipment in a manner different from that authorized in a station license. Any such request may be in letter form, and shall be submitted in duplicate: *Provided, however,* That in cases of emergency involving danger to life or property or due to damage to equipment, such request may be made by telephone or telegraph with the understanding that a written request shall be submitted within ten (10) days thereafter.

(b) Special temporary authority may also be requested to conduct a field survey to determine necessary data in connection with the preparation of a formal application for installation of a radio system under this part. Such authority may be granted to equipment suppliers and others who are not operators of cable television systems or other eligible systems, as well as to cable operators or other eligible system operators, to conduct equipment, program, service, and path tests.

(c) Any request for special temporary authority shall be clear and complete within itself as to the authority requested. In addition, such requests shall contain the following information:

(1) Name, address, and citizenship of applicant;

(2) Grounds for special action, including a description of any emergency or damage to equipment;

(3) Type of operation to be conducted;

(4) Purpose of operation;

(5) Time and date of proposed operation;

(6) Class of station and nature of service;

(7) Location of station;

(8) Equipment to be used, specifying manufacturer, model number, and number of units;

(9) Frequency or frequencies desired, consistent with §78.18: *Provided, however,* That in the case of events of widespread interest and importance that cannot be transmitted successfully on these frequencies, frequencies assigned

to other services may be requested on a showing that operation thereon will not cause interference to established stations: *And provided, further,* That in no case will a cable television relay service operation be authorized on frequencies employed for the safety of life and property;

(10) Plate power input to final radio frequency stage;

(11) Type of emission;

(12) Description of antenna to be used, including height. In the event that the proposed antenna installations will increase the height of any natural formation, or existing man-made structure, by more than 6.1 meters (20 feet), a vertical plan sketch showing the height of the structures proposed to be erected, the height above ground of any existing structure, the elevation of the site above mean sea level, and the geographic coordinates of the proposed sites shall be submitted with the application.

(d) Except in emergencies involving safety of life or property or due to damage to equipment, a request for special temporary authority shall be filed at least ten (10) days prior to the date of proposed operation, or shall be accompanied by a statement of reasons for the delay in submitting such request.

(e) If the Commission finds that special temporary authority is in the public interest, it may grant such authority for a period not exceeding ninety (90) days, and, on a like finding, may extend such authority for one additional period not to exceed ninety (90) days.

[37 FR 15927, Aug. 8, 1972, as amended at 55 FR 46015, Oct. 31, 1990; 58 FR 44952, Aug. 25, 1993]

§ 78.35 Assignment or transfer of control.

(a) No assignment of the license of a cable television relay station or transfer of control of a CARS licensee shall occur without prior FCC authorization.

(b) If an assignment or transfer of control does not involve a substantial change of interests, the provisions of §§ 78.20(c) and 78.22, concerning public notice and objections, shall be waived.

(c) Licensees of CARS stations are not required to submit applications for assignment or transfer of control or otherwise notify the FCC in cases where the change in ownership does not affect the identity or controlling interest of the licensee.

[37 FR 15927, Aug. 8, 1972, as amended at 50 FR 23421, June 4, 1985]

§ 78.36 Frequency coordination.

(a) *12.7–13.25 GHz.* Coordination of fixed and mobile assignments will be in accordance with the procedures set forth below.

(1) Before filing an application for new or modified facilities under this part the applicant must perform a frequency engineering analysis to ensure that the proposed facilities will not cause interference to existing or previously applied for stations in this band of a magnitude greater than that specified below.

(2) The general criteria for determining allowable adjacent or co-channel interference protection to be afforded, regardless of system length or type of modulation, multiplexing or frequency band shall be such that the interfering signal shall not produce more than 1.0 dB degradation of the practical threshold of the protected receiver. The degradation is determined by calculating the ratio in dB between the desired carrier signal and undesired interfering signal (C/I ratio) appearing at the input to the receiver under investigation (the victim receiver). The development of the C/I ratios from the criteria for maximum allowable interference level per exposure and the methods used to perform path calculations shall follow generally acceptable good engineering practices. Procedures as may be developed by the Electronics Industries Association (EIA), the Institute of Electrical and Electronics Engineers, Inc. (IEEE), the American National Standards Institute (ANSI) or any other recognized authority will be acceptable to the Commission.

(3) Where the development of the carrier to interference ratio (C/I) is not covered by generally acceptable procedures or where the applicant does not wish to develop the carrier to interference ratio, the applicant shall employ the following C/I protection ratios:

(i) Co-channel interference: For both sideband and carrier-beat, (applicable to all bands) the previously authorized system shall be afforded a carrier to interfering signal protection ratio of at least 90 dB.

(ii) Adjacent channel interference: The existing or previously authorized system shall be afforded a carrier to interfering signal protection ratio of at least 56 dB.

(b) *6425–6525 MHz and 17.7–19.7 GHz.* Coordination of fixed and mobile assignments will be in accordances with the procedure established in §21.100(d), *except* that the prior coordination process for mobile (temporary fixed) assignments may be completed orally and the period allowed for response to a coordination notification may be less than 30 days if the parties agree.

[48 FR 50736, Nov. 3, 1983, as amended at 52 FR 7144, Mar. 9, 1987]

Subpart C—General Operating Requirements

§78.51 Remote control operation.

(a) A CARS station may be operated by remote control: *Provided,* That such operation is conducted in accordance with the conditions listed below: *And provided further,* That the Commission, in Washington, DC, is notified at least 10 days prior to the beginning of such operation and that such notification is accompanied by a detailed description showing the manner of compliance with the following conditions:

(1) The transmitter and associated control system shall be installed and protected in a manner designed to prevent tampering or operation by unauthorized persons.

(2) An operator shall be on duty at the remote control position and in actual charge thereof at all times when the station is in operation.

(3) Facilities shall be provided at the control position which will permit the operator to turn the transmitter on and off at will. The control position shall also be equipped with suitable devices for observing the overall characteristics of the transmissions and a carrier operated device which will give a continuous visual indication whenever the transmitting antenna is radiating a signal. The transmitting apparatus shall be inspected as often as may be necessary to insure proper operation.

(4) The control circuits shall be so designed and installed that short circuits, open circuits, other line faults, or any other cause which would result in loss of control of the transmitter will automatically cause the transmitter to cease radiating.

(b) An application for authority to construct a new station or to make changes in the facilities of an existing station and which proposes operation by remote control shall include an adequate showing of the manner of compliance with the requirements of this section.

(c) The Commission may notify the licensee not to commence remote control operation, or to cancel, suspend, or change the date of the beginning of such operation as and when such action may appear to be in the public interest, convenience, or necessity.

[37 FR 3292, Feb. 12, 1972, as amended at 41 FR 29695, July 19, 1976; 49 FR 20671, May 16, 1984; 50 FR 23421, June 4, 1985]

§78.53 Unattended operation.

(a) A CARS station may be operated unattended: *Provided,* That such operation is conducted in accordance with the conditions listed below: *And provided further,* That the Commission, in Washington, DC, is notified at least 10 days prior to the beginning of unattended operation if such operation is not indicated on the station authorization.

(1) The transmitter and associated control circuits shall be installed and protected in a manner designed to prevent tampering or operation by unauthorized persons.

(2) If the transmitting apparatus is located at a site which is not readily accessible at all hours and in all seasons, means shall be provided for turning the transmitter on and off at will from a location which can be reached promptly at all hours and in all seasons.

(3) Personnel responsible for the maintenance of the station shall be available on call at a location which will assure expeditious performance of

such technical servicing and maintenance as may be necessary whenever the station is operating. In lieu thereof, arrangements may be made to have a person or persons available at all times when the transmitter is operating, to turn the transmitter off in the event that it is operating improperly. The transmitter may not be restored to operation until the malfunction has been corrected by a technically qualified person.

(4) The station licensee shall be responsible for the proper operation of the station at all times and is expected to provide for observations, servicing and maintenance as often as may be necessary to ensure proper operation. All adjustments or tests during or coincident with the installation, servicing, or maintenance of the station which may affect its operation shall be performed by or under the immediate supervision of a technically qualified person.

(b) The Commission may notify the licensee not to commence unattended operation, or to cancel, suspend, or change the date of the beginning of such operation as and when such action may appear to be in the public interest, convenience, or necessity.

(Secs. 1, 2, 301, 307, 48 Stat., as amended 1064, 1081, 1083; (47 U.S.C. 151, 152, 301, 307))

[37 FR 3292, Feb. 12, 1972, as amended at 41 FR 29695, July 19, 1976; 42 FR 61864, Dec. 7, 1977; 43 FR 4617, Feb. 3, 1978; 43 FR 25127, June 9, 1978; 49 FR 20671, May 16, 1984; 50 FR 23422, June 4, 1985; 50 FR 32418, Aug. 12, 1985]

§ 78.55 Time of operation.

A CARS station is not expected to adhere to any prescribed schedule of operation. Continous radiation of the carrier without modulation is permitted provided harmful interference is not caused to other authorized stations.

[43 FR 25127, June 9, 1978]

§ 78.57 Station inspection.

The station and all records required to be kept by the licensee shall be made available for inspection upon request by any authorized representative of the Commission.

§ 78.59 Posting of station and operator licenses.

(a) The station license and any other instrument of authorization or individual order concerning the construction or the equipment or manner of operation shall be posted at the place where the transmitter is located, so that all terms thereof are visible except as otherwise provided in paragraphs (b) and (c) of this section.

(b) In cases where the transmitter is operated by remote control, the documents referred to in paragraph (a) of this section shall be posted in the manner described at the control point of the transmitter.

(c) In cases where the transmitter is operated unattended, the name of the licensee and the call sign of the unattended station shall be displayed at the transmitter site on the structure supporting the transmitting antenna, so as to be visible to a person standing on the ground at the transmitter site. The display shall be prepared so as to withstand normal weathering for a reasonable period of time and shall be maintained in a legible condition at all times by the licensee. The station license and other documents referred to in paragraph (a) of this section shall be kept at the nearest attended station or, in cases where the licensee of the unattended station does not operate attended stations, at the point of destination of the signals relayed by the unattended station.

[37 FR 3292, Feb. 12, 1972, as amended at 49 FR 20671, May 16, 1984]

§ 78.61 Operator requirements.

(a) Except in cases where a CARS station is operated unattended in accordance with § 78.53 or except as provided in other paragraphs of this section, a person shall be on duty at the place where the transmitting apparatus is located, in plain view and in actual charge of its operation or at a remote control point established pursuant to the provision of § 78.51, at all times when the station is in operation. Control and monitoring equipment at a remote control point shall be readily accessible and clearly visible to the operator at that position.

(b) Any transmitter tests, adjustments, or repairs during or coincident with the installation, servicing, operation or maintenance of a CARS station which may affect the proper operation of such station shall be made by or under the immediate supervision and responsibility of a person responsible for proper functioning of the station equipment.

(c) The operator on duty and in charge of a CARS station may, at the discretion of the licensee, be employed for other duties or for the operation of another station or stations in accordance with the rules governing such stations. However, such duties shall in no way impair or impede the required supervision of the CARS station.

(d) CARS stations operating with nominal transmitter power of 250 milliwatts or less may be operated by any person whom the licensee shall designate. Pursuant to this provision, the designated person shall perform as the licensee's agent and proper operation of the station shall remain the licensee's responsibility.

(e) Mobile CARS stations operating with nominal transmitter power in excess of 250 milliwatts may be operated by any person whom the licensee shall designate: Provided that a person is on duty at a receiving end of the circuit to supervise operation and to immediately institute measures sufficient to assure prompt correction of any condition of improper operation that may be observed.

(Secs. 1, 2, 301, 307, 48 Stat., as amended, 1064, 1081, 1083; (47 U.S.C. 151, 152, 301, 307))

[43 FR 4617, Feb. 3, 1978, as amended at 49 FR 20671, May 16, 1984; 50 FR 32418, Aug. 12, 1985]

§78.63 Antenna structure marking and lighting.

The owner of each antenna structure is responsible for ensuring that the structure, if required, is painted and/or illuminated in accordance with part 17 of this chapter. In the event of default by the owner, each licensee shall be responsible for ensuring that the structure complies with applicable painting and lighting requirements.

[61 FR 4368, Feb. 6, 1996]

§78.65 Additional orders.

In case the rules of this part do not cover all phases of operation with respect to external effects, the Commission may make supplemental or additional orders in each case as may be deemed necessary.

§78.67 Copies of rules.

The licensee of a CARS station shall have a current copy of this part 78, and, in cases where aeronautical obstruction marking of antennas is required, part 17 of this chapter shall be available for use by the operator in charge. Both the licensee and the operator or operators responsible for the proper operation of the station are expected to be familiar with the rules governing CARS stations. Copies of the Commission's rules may be obtained from the Superintendent of Documents, Government Printing Office, Washington, DC 20402, at nominal cost.

§78.69 Station records.

Each licensee of a CARS station shall maintain records showing the following:

(a) For all attended or remotely controlled stations, the date and time of the beginning and end of each period of transmission of each channel;

(b) For all stations, the date and time of any unscheduled interruptions to the transmissions of the station, the duration of such interruptions, and the causes thereof;

(c) For all stations, the results and dates of the frequency measurements made pursuant to §78.113 and the name of the person or persons making the measurements;

(d) For all stations, when service or maintenance duties are performed, which may affect a station's proper operation, the responsible operator shall sign and date an entry in the station's records, giving:

(1) Pertinent details of all transmitter adjustments performed by the operator or under the operator's supervision.

(e) When a station in this service has an antenna structure which is required to be illuminated, appropriate entries shall be made as follows:

(1) The time the tower lights are turned on and off each day, if manually controlled.

(2) The time the daily check of proper operation of the tower lights was made, if an automatic alarm system is not employed.

(3) In the event of any observed or otherwise known failure of a tower light:

(i) Nature of such failure.

(ii) Date and time the failure was observed or otherwise noted.

(iii) Date, time, and nature of the adjustments, repairs, or replacements made.

(iv) Identification of Flight Service Station (Federal Aviation Administration) notified of the failure of any code or rotating beacon light not corrected within 30 minutes, and the date and time such notice was given.

(v) Date and time notice was given to the Flight Service Station (Federal Aviation Administration) that the required illumination was resumed.

(4) Upon completion of the 3-month periodic inspection required by § 78.63(c):

(i) The date of the inspection and the condition of all tower lights and associated tower lighting control devices, indicators, and alarm systems.

(ii) Any adjustments, replacements, or repairs made to insure compliance with the lighting requirements and the date such adjustments, replacements, or repairs were made.

(f) For all stations, station record entries shall be made in an orderly and legible manner by the person or persons competent to do so, having actual knowledge of the facts required, who shall sign the station record when starting duty and again when going off duty.

(g) For all stations, no station record or portion thereof shall be erased, obliterated, or willfully destroyed within the period of retention required by rule. Any necessary correction may be made only by the person who made the original entry who shall strike out the erroneous portion, initial the correction made, and show the date the correction was made.

(h) For all stations, station records shall be retained for a period of not less than 2 years. The Commission reserves the right to order retention of station records for a longer period of time. In cases where the licensee or permittee has notice of any claim or complaint, the station record shall be retained until such claim or complaint has been fully satisfied or until the same has been barred by statute limiting the time for filing of suits upon such claims.

[41 FR 29695, July 19, 1976, as amended at 49 FR 20672, May 16, 1984; 50 FR 23422, June 4, 1985]

§ 78.75 Equal employment opportunities.

See Subpart E, Part 76 of this chapter.

[51 FR 9966, Mar. 24, 1986]

Subpart D—Technical Regulations

§ 78.101 Power limitations.

(a) On any authorized frequency, the average power delivered to an antenna shall be the minimum amount of power necessary to carry out the communications desired. In no event shall the average transmitter power or equivalent isotropically radiated power (EIRP) exceed the values specified below.

Frequency band (MHz)	Maximum allowable transmitter power		Maximum allowable EIRP	
	Fixed (W)	Mobile (W)	Fixed (dBW)	Mobile (dBW)
1,990 to 2,110	.....	20.0	.....	.....
6,425 to 6,525	.....	20.0	.....	+35
6,875 to 7,125	.....	20.0	.....	+35
12,700 to 13,250	5.0	1.5	+55	+45
17,700 to 18,600	10.0	.....	+55	.....
18,600 to 18,800	[1]10.0	.....	+35	.....
18,800 to 19,700	10.0	.....	+55	.....
31,000 to 31,300	0.05	0.05	.....	.....

[1] The power delivered to the antenna is limited to −3 dBW.

(b) LDS stations shall use for the visual signal-vestigial sideband AM transmission. When vestigial sideband AM transmission is used the peak power of the visual signal on all channels shall be maintained within 2 dB of equality. The mean power of the aural signal on each channel shall not exceed a level of 7 dB below the peak power of the visual signal.

[45 FR 78694, Nov. 26, 1980, as amended at 52 FR 7144, Mar. 9, 1987]

§ 78.103 Emissions and emission limitations.

(a) A CARS station may be authorized to employ any type of emission, for which there are technical standards incorporated in Subpart D of this part, suitable for the simultaneous transmission of visual and aural television signals.

(b) Any emission appearing on a frequency outside of the channel authorized for a transmitter shall be attenuated below the power of the emission in accordance with the following schedule:

(1) For stations using FM or double sideband AM transmission:

(i) On any frequency above the upper channel limit or below the lower channel limit by between zero and 50 percent of the authorized channel width: At least 25 decibels below the mean power of the emission;

(ii) On any frequency above the upper channel limit or below the lower channel limit by more than 50 percent and up to 150 percent of the authorized channel width: At least 35 decibels below the mean power of the emission; and

(iii) On any frequency above the upper channel limit or below the lower channel limit by more than 150 percent of the authorized channel width: At least 43+10 $\log_{10}$ (power in watts) decibels below the mean power of the emission.

(2) For CARS stations using vestigial sideband AM transmission: At least 50 decibels below the peak power of the emission.

(c) For operation in the 17.7.7–19.7 GHz band:

The mean power of any emission shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

(1) When using frequency modulation:

(i) On any frequency removed from the assigned (center) frequency by more than 50% up to and including 100% of the authorized bandwidth: At least 25 dB;

(ii) On any frequency removed from the assigned (center) frequency by more than 100% up to and including 250% of the authorized bandwidth: At least 35 dB;

(iii) On any frequency removed from the assigned (center) frequency by more than 250% of the authorized bandwidth: At least 43+10 log 10 (mean output power in watts) dB, or 80 dB, whichever is the lesser attenuation.

(2) When using digital modulation:

(i) In any 1 MHz band, the center frequency of which is removed from the assigned frequency by more than 50% up to and including 250% of the authorized bandwidth: As specified by the following equation but in no event less than 11 dB.

$$A=11+0.4\,(P-50)+10\log_{10} B$$

where:

A=Attenuation (in dB) below the mean output power level.

P=Percent removed from the carrier frequency.

B=Authorized bandwidth in MHz.

[Attenuation greater than 56 decibels is not required.]

(ii) In any 4 kHz band, the center frequency of which is removed from the assigned frequency by more than 250% of the authorized bandwidth: At least 43=10 $\log_{10}$ (mean output power in watts) dB, or 80 dB, whichever is the lesser attenuation.

(3) Amplitude Modulation:

For vestigial sideband AM video: On any frequency removed from the center frequency of the authorized band by more than 50%: at least 50 dB below peak power of the emission.

(d) In the event that interference to other stations is caused by emissions outside the authorized channel, the Commission may require greater attenuation than that specified in paragraph (b) of this section.

(e) The maximum bandwidth that will be authorized per frequency assignment is set out in the table that follows. Regardless of the maximum

authorized bandwidth specified for each frequency band, the Commission reserves the right to issue a license for less than the maximum bandwidth if it appears that a bandwidth less than the maximum would be sufficient to support an applicant's intended communications.

Frequency band (MHz)	Maximum authorized bandwidth (MHz)
1,990 to 2,110	17 or 18.
6,425 to 6,525	8 or 25.
6,875 to 7,125	25.
12,700 to 13,250	25.
17,700 to 19,700	80.
31,000 to 31,300	25 or 50.

[37 FR 3292, Feb. 12, 1972, as amended at 37 FR 15927, Aug. 8, 1972; 38 FR 16648, June 25, 1973; 39 FR 26025, July 16, 1974; 48 FR 50736, Nov. 3, 1983; 49 FR 37779, Sept. 26, 1984; 52 FR 7145, Mar. 9, 1987]

§ 78.104 Authorized bandwidth and emission designator.

(a) The authorized bandwidth permitted to be used by a CARS station and specified in the station license shall be the occupied or necessary bandwidth, whichever is greater, except when otherwise authorized by the Commission in accordance with paragraph (b) of this section.

(b) As an exception to the provision of paragraph (a) of this section, the Commission may approve requests to base the authorized bandwidth for the station on the lesser of the occupied or necessary bandwidth where a persuasive showing is made that:

(1) The frequency stability of the transmitting equipment to be used will permit compliance with § 78.103(b)(1) and, additionally, will permit 99 percent of the total radiated power to be kept within the frequency limits of the assigned channel.

(c) The emission designator shall be specified in terms of the necessary bandwidth. (See § 2.201(a) of this chapter.)

[39 FR 26025, July 16, 1974, as amended at 45 FR 78694, Nov. 26, 1980]

§ 78.105 Antenna systems.

(a) For fixed stations operating in the 12.7–13.2 and 17.7–19.07 GHz bands, and for fixed and mobile stations operating in the 31.0–31.3 GHz bands, the following standards apply:

(1) Fixed CARS stations shall use directional antennas that meet the performance standards indicated in the following table.

(i) Stations must employ an antenna that meets the performance standards for Category B. In areas subject to frequency congestion, where proposed facilities would be precluded by continued use of a Category B antenna, a Category A antenna must be employed. The Commission may require the use of a high performance antenna where interference problems can be resolved by the use of such antennas.

(ii) Upon adequate showing of need to serve a larger sector, or more than a single sector, greater beamwidth or multiple antennas may be authorized. Applicants shall request and authorization for stations in this service will specify the polarization of each transmitted signal.

(iii) Licensees shall comply with the antenna standards table shown in this paragraph in the following manner:

(A) With either the maximum beamwidth to 3 dB points requirement or with the minimum antenna gain requirement; and

(B) With the minimum radiation suppression to angle requirement.

ANTENNA STANDARDS

Frequency (MHz)	Category	Maximum beamwidth to 3 dB points [1] (included angle in degrees)	Minimum antenna gain (dbi)	Minimum radiation suppression to angle in degrees from centerline of main beam in decibels						
				5° to 10°	10° to 15°	15° to 20°	20° to 30°	30° to 100°	100° to 140°	140° to 180°
12,700 to 13,250	A	1.0	n/a	23	28	35	39	41	42	50
	B	2.0	n/a	20	25	28	30	32	37	47
17,700 to 19,700	A	2.2	38	25	29	33	36	42	55	55
	B	2.2	38	20	24	28	32	35	36	36
31,000 to 31,300 [2]	n/a	[3] 4.0	38	n/a	n/a	n/a	n/a	n/a	n/a	n/a

ANTENNA STANDARDS—Continued

Frequency (MHz)	Category	Maximum beamwidth to 3 dB points [1] (included angle in degrees)	Minimum antenna gain (dbi)	Minimum radiation suppression to angle in degrees from centerline of main beam in decibels						
				5° to 10°	10° to 15°	15° to 20°	20° to 30°	30° to 100°	100° to 140°	140° to 180°
38,600 to 40,000	A	2.2	38	25	29	33	36	42	55	55
	B	2.2	38	20	24	28	32	35	36	36

[1] If a licensee chooses to show compliance using maximum beamwidth to 3 dB points, the beamwidth limit shall apply in both the azimuth and the elevation planes.
[2] Mobile, except aeronautical, mobile, stations need not comply with these standards.
[3] The minimum front-to-back ratio shall be 38 dBi.

(2) New periscope antenna systems will be authorized upon a certification that the radiation, in a horizontal plane, from an illuminating antenna and reflector combination meets or exceeds the antenna standards of this section. This provision similarly applies to passive repeaters employed to redirect or repeat the signal from a station's directional antenna system.

(3) The choice of receiving antennas is left to the discretion of the licensee. However, licensees will not be protected from interference which results from the use of antennas with poorer performance than defined in paragraph (a) of this section.

(4) The transmitting antenna system of stations employing maximum equivalent isotropically radiated power exceeding +45 dBW in the frequency band between 12.70 and 12.75 GHz shall be oriented so that the direction of maximum radiation of any antenna shall be at least 1.5° away from the geostationary satellite orbit, taking into account the effect of atmospheric refractions.[1]

(5) Pickup stations are not subject to the performance standards herein stated. The provisions of this paragraph are effective for all new applications accepted for filing after October 1, 1981.

(b) Any fixed station licensed pursuant to an application accepted for filing prior to October 1, 1981, may continue to use its existing antenna system, subject to periodic renewal until April 1, 1992, After April 1, 1992, all licensees are to use antenna systems in conformance with the standards of this section. TV auxiliary broadcast stations are considered to be located in an area subject to frequency congestion and must employ a Category A antenna when:

(1) A showing by an applicant of a new CAR service or TV auxiliary broadcast, which shares the 12.7–13.20 GHz band with CARS, indicates that use of a category B antenna limits a proposed project because of interference, and

(2) That use of a category A antenna will remedy the interference thus allowing the project to be realized.

(c) As an exception to the provisions of this section, the FCC may approve requests for use of periscope antenna systems where a persuasive showing is made that no frequency conflicts exist in the area of proposed use. Such approvals shall be conditioned to require conversion to a standard antenna as required in paragraph (a) of this section when an applicant of a new TV auxiliary broadcast or Cable Television Relay station indicates that the use of the existing antenna system will cause interference and the use of a category A or B antenna will remedy the interference.

(d) As a further exception to the provision of paragraph (a) of this section the Commission may approve antenna

[1] See Chapter I, Article 1, Section III of the (International) Radio Regulations (Geneva, 1959), as amended, for Technical Characteristics Terms and Definitions. Additional information and methods for calculating azimuths to be avoided may be found in the following: Report 393, International Radio Consultative Committee (C.C.I.R.); ''Geostationary Orbit Avoidance Computer Program,'' Reort CC–7220, Federal Communications Commission, available from the National Technical Information Service, Springfield, VA 22151, in printed form (PB–211 500) or source card deck (PB–211 501).

systems not conforming to the technical standards where a persuasive showing is made that:

(1) Indicates in detail why an antenna system complying with the requirements of paragraph (a) of this section cannot be installed, and

(2) Includes a statement indicating that frequency coordination as required in § 78.18a was accomplished.

[45 FR 78694, Nov. 26, 1980, as amended at 49 FR 37779, Sept. 26, 1984; 50 FR 7343, Feb. 22, 1985; 51 FR 19841, June 3, 1986; 56 FR 50664, Oct. 8, 1991; 62 FR 4923, Feb. 3, 1997]

§ 78.106 Interferences to geostationary-satellites.

These limitations are necessary to minimize the probability of harmful interference to reception in the bands 2655–2690 MHz, 5850–7075 MHz, and 12.7–13.25 GHz on board geostationary space stations in the fixed-satellite service (part 25). Facilities authorized prior to July 1, 1978 which exceed the power levels in paragraphs (a) and (b) of this section are permitted to operate indefinitely, provided that the operation of such facilities does not result in harmful interference to reception in these band on board geostationary space stations.

(a) *2655 to 2690 MHz and 5850 to 7075 MHz.* No directional transmitting antenna utilized by a fixed station operating in these bands shall be aimed within 2 degrees of the geostationary-satellite orbit, taking into account atmospheric refraction. However, exception may be made in unusual circumstances upon a showing that there is no reasonable alternative to the transmission path proposed. If there is no evidence that such exception would cause possible harmful interference to an authorized satellite system, said transmission path may be authorized on waiver basis where the maximum value of the equivalent isotropically radiated power (EIRP) does not exceed:

(1) +47 dBW for any antenna beam directed within 0.5 degrees of the stationary satellite orbit or

(2) +47 to +55 dBW, on a linear decibel scale (8 dB per degree) for any antenna beam directed between 0.5 degrees and 1.5 degrees of the stationary orbit.

(b) *12.7–13.25 GHz.* No directional transmitting antenna utilized by a fixed station operating in this band shall be aimed within 1.5 degrees of the geostationary-satellite orbit, taking into account atmospheric refraction. However, exception may be made in unusual circumstances upon a showing that there is no reasonable alternative to the transmission path proposed. If there is no evidence that such exception would cause possible harmful interference to an authorized satellite system, said transmission path may be authorized on waiver basis where the maximum value of the equivalent isotropically radiated power (EIRP) does not exceed +45 dBW for any antenna beam directed within 1.5 degrees of the stationary satellite orbit.

(c) Methods for calculating the azimuths to be avoided may be found in: CCIR Report No. 393 (Green Books), New Delhi, 1970; in ''Radio-Relay Antenna Pointing for controlled Interference With Geostationary-Satellites'' by C.W. Lundgren and A.S. May, *Bell System Technical Journal,* Vol. 48, No. 10, pp. 3387–3422, December 1969; and in ''Geostationary Orbit Avoidance Computer Program'' by Richard G. Gould, Common Carrier Bureau Report CC–7201, FCC, Washington, DC, 1972. This latter report is available through the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22151, in printed form (PB–211 500) or source card deck (PB–211 501).

[52 FR 7145, Mar. 9, 1987]

§ 78.107 Equipment and installation.

(a) From time to time the Commission publishes a revised list of type approved, type accepted and certain notified equipment entitled ''Radio Equipment List''. Copies of this list are available for inspection at the Commission's office in Washington, DC and at each of its field offices.

(b) Applications for new cable television relay stations, other than fixed stations, will not be accepted unless the equipment specified therein has been type accepted. In the case of fixed stations, the equipment must be either type accepted or notified for use pursuant to the provisions of this subpart. As of March 5, 1984, transmitters designed to be used exclusively with fixed

stations shall be approved under notification (see §2.904(d) of this chapter). Transmitters designed for use in the 31.0 to 31.3 GHz band shall be authorized under the notification procedure.

(1) All transmitters first licensed or marketed shall comply with technical standards of this subpart. This paragraph (b)(1) of this section is effective October 1, 1981.

(2) Neither type acceptance nor notification is required for the following transmitters:

(i) Those which have an output power not greater than 250 mW and which are used in a CARS pickup station operating in the 12.7–13.2 GHz band; and

(ii) Those used under a developmental authorization.

(c) Cable television relay station transmitting equipment authorized to be used pursuant to an application accepted for filing prior to October 1, 1981, may continue to be used, provided, that if operation of such equipment causes harmful interference due to its failure to comply with the technical standards set forth in this subpart the Commission may, at its discretion, require the licensee to take such corrective action as is necessary to eliminate the interference.

(d) The installation of a CARS station shall be made by or under the immediate supervision of a qualified engineer. Any tests or adjustments requiring the radiation of signals and which could result in improper operation shall be conducted by or under the immediate supervision of a person with required knowledge and skill to perform such tasks.

(e) Simple repairs such as the replacement of tubes, fuses, or other plug-in components which require no particular skill may be made by an unskilled person. Repairs requiring replacement of attached components or the adjustment of critical circuits or corroborative measurements shall be made only by a person with required knowledge and skill to perform such tasks.

[37 FR 3292, Feb. 12, 1972, as amended at 45 FR 78695, Nov. 26, 1980; 49 FR 4001, Feb. 1, 1984; 49 FR 20672, May 16, 1984; 50 FR 7343, Feb. 22, 1985]

§ 78.108 Minimum path lengths for fixed links.

(a) The distance between end points of a fixed link must equal or exceed the value set forth in the table below or the EIRP must be reduced in accordance with the equation set forth below.

Frequency band (MHz)	Minimum path length (km)
12,200 to 13,250	5
Above 17,700	N/A

(b) For paths shorter than those specified in the Table, the EIRP shall not exceed the value derived from the following equation.

EIRP=30–20 log [A/B], dBW

Where:

EIRP=equivalent isotropic radiated power in dBW.
A=Minimum path length from the Table for the frequency band in kilometers.
B=The actual path length in kilometers.

(c) Upon an appropriate technical showing, applicants and licensees unable to meet the minimum path length requirement may be granted an exception to these requirements.

NOTE: Links authorized prior to April 1, 1987, are excluded from this requirement, except that, effective April 1, 1992, the Commission will require compliance with the criteria where an existing link would otherwise preclude establishment of a new link.

[52 FR 7145, Mar. 9, 1987]

§ 78.109 Equipment changes.

(a) Formal application is required for any of the following changes:

(1) Any increase in emission bandwidth beyond that authorized;

(2) Any change in the transmitting antenna system of a station, other than a CARS pickup station, including the direction of the main radiation lobe, directive pattern, antenna gain or transmission line;

(3) Any horizontal change in the location of the antenna, other than a CARS pickup station, transmitter.

(4) Any change in the type of modulation;

(5) Any change in the location of a station transmitter, other than a CARS pickup station transmitter, except a move within the same building or upon the tower or mast or a change

in the area of operation of a CARS pickup station.

(6) Any change in frequency assignment, including polarization;

(7) Any change in authorized operating power.

(b) Other equipment changes not specifically referred to in paragraph (a) of this section may be made at the discretion of the licensee, provided that the Engineer in Charge of the radio district in which the station is located and the Commission in Washington, DC, are notified in writing upon the completion of such changes and provided further, that the changes are appropriately reflected in the next application for renewal of licenses of the station.

(c) Any application proposing a change in the height of the antenna structure or its location shall include the Antenna Structure Registration Number (FCC Form 854R) of the structure upon which it proposes to locate its antenna. In the event the antenna structure does not have a Registration Number, the owner of the antenna structure shall file an FCC Form 854 (''Application for Antenna Structure Registration'') in accordance with part 17 of this chapter or the applicant shall provide a detailed explanation as to why registration and clearance are not required.

[37 FR 3292, Feb. 12, 1972, as amended at 38 FR 6827, Mar. 3, 1973; 41 FR 29696, July 19, 1976; 61 FR 4368, Feb. 6, 1996]

§ 78.111 Frequency tolerance.

Stations in this service shall maintain the carrier frequency of each authorized transmitter to within the following percentage of the assigned frequency.

Frequency band (MHz)	Frequency tolerance	
	Fixed (percent)	Mobile (percent)
1,990 to 2,110	.....	0.005
6,425 to 6,525	.....	0.005
6,875 to 7,125	.....	0.005
12,700 to 13,250 [1]	0.005	0.005
17,700 to 18,820	0.003	.....
18,820 to 18,920	0.001	.....
18,920 to 19,700	0.003	.....
31,000 to 31,300	0.05	0.05

[1] Stations that employing vestigal sideband AM transmissions shall maintain their operating frequency within 0.0005% the visual carrier, and the aural carrier shall be 4.5 MHz± 1 kHz above the visual carrier frequency.

[52 FR 7145, Mar. 9, 1987]

§ 78.113 Frequency monitors and measurements.

(a) The licensee of each CARS station shall employ a suitable procedure to determine that the carrier frequency of each transmitter is maintained within the tolerance prescribed in § 78.111 at all times. The determination shall be made, and the results thereof entered in the station records: when a transmitter is initially installed; when any change is made in a transmitter which may affect the carrier frequency or the stability thereof; or in any case at intervals not exceeding one year.

(b) The choice of apparatus to measure the operating frequency is left to the discretion of the licensee. However, failure of the apparatus to detect departures of the operating frequency in excess of the prescribed tolerance will not be deemed an acceptable excuse for the violation.

[37 FR 3292, Feb. 12, 1972, as amended at 41 FR 29696, July 19, 1976; 50 FR 23422, June 4, 1985]

§ 78.115 Modulation limits.

(a) If amplitude modulation is employed, negative modulation peaks shall not exceed 100 percent modulation.

[37 FR 3292, Feb. 12, 1972, as amended at 45 FR 78696, Nov. 26, 1980]

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[50 FR 38537, Sept. 23, 1985]

PART 79—CLOSED CAPTIONING OF VIDEO PROGRAMMING

AUTHORITY: 47 U.S.C. 613.

SOURCE: 62 FR 48493, Sept. 16, 1997, unless otherwise noted.

EFFECTIVE DATE NOTE: At 62 FR 48493, Sept. 16, 1997, part 79 was added, effective Jan. 1, 1998.

§ 79.1 Closed captioning of video programming.

(a) *Definitions.* For purposes of this section the following definitions shall apply:

(1) *Video programming.* Programming provided by, or generally considered comparable to programming provided by, a television broadcast station that is distributed and exhibited for residential use. Video programming includes advertisements of more than five minutes in duration but does not include advertisements of five minutes' duration or less.

(2) *Video programming distributor.* Any television broadcast station licensed by the Commission and any multichannel video programming distributor as defined in § 76.1000(e) of this chapter, and any other distributor of video programming for residential reception that delivers such programming directly to the home and is subject to the

jurisdiction of the Commission. An entity contracting for program distribution over a video programming distributor that is itself exempt from captioning that programming pursuant to paragraph (e)(9) of this section shall itself be treated as a video programming distributor for purposes of this section To the extent such video programming is not otherwise exempt from captioning, the entity that contracts for its distribution shall be required to comply with the closed captioning requirements of this section.

(3) *Video programming provider.* Any video programming distributor and any other entity that provides video programming that is intended for distribution to residential households including, but not limited to broadcast or nonbroadcast television network and the owners of such programming.

(4) *Closed captioning.* The visual display of the audio portion of video programming contained in line 21 of the vertical blanking interval (VBI) pursuant to the technical specifications set forth in § 15.119 of this chapter or the equivalent thereof.

(5) *New programming.* Video programming that is first published or exhibited on or after January 1, 1998.

(6) *Pre-rule programming.* (i) Video programming that was first published or exhibited before January 1, 1998.

(ii) Video programming first published or exhibited for display on television receivers equipped for display of digital transmissions or formatted for such transmission and exhibition prior to the date on which such television receivers must, by Commission rule, be equipped with built-in decoder circuitry designed to display closed-captioned digital television transmissions.

(7) *Nonexempt programming.* Video programming that is not exempt under paragraph (d) of this section and, accordingly, is subject to closed captioning requirements set forth in this section.

(b) *Requirements for closed captioning of video programming*—(1) *Requirements for new programming.* Video programming distributors must provide closed captioning for nonexempt video programming that is being distributed and exhibited on each channel during each calendar quarter in accordance with the following requirements:

(i) Between January 1, 2000, and December 31, 2001, video programming distributors shall provide at least 450 hours of captioned video programming, or if the video programming distributor provides less than 450 hours of new nonexempt video programming, then 95 percent of its new nonexempt video programming must be provided with captions;

(ii) Between January 1, 2002, and December 31, 2003, video programming distributors shall provide at least 900 hours of captioned video programming, or if the video programming distributor provides less than 900 hours of new nonexempt video programming, then 95 percent of its new nonexempt video programming must be provided with captions;

(iii) Between January 1, 2004, and December 31, 2005, video programming distributors shall provide at least an average of 1350 hours of captioned video programming, or if the video programming distributor provides less than 1350 hours of new nonexempt video programming, then 95 percent of its new nonexempt video programming must be provided with captions; and

(iv) As of January 1, 2006, and thereafter, 95 percent of the programming distributor's new nonexempt video programming must be provided with captions.

(2) *Requirements for pre-rule programming.* As of January 1, 2008, and thereafter, 75 percent of the programming distributor's pre-rule nonexempt video programming being distributed and exhibited on each channel during each calendar quarter must be provided with closed captioning.

(3) Video programming distributors shall continue to provide captioned video programming at substantially the same level as the average level of captioning that they provided during the first 6 months of 1997 even if that amount of captioning exceeds the requirements otherwise set forth in this section.

(c) *Obligation to pass through captions of already captioned programs.* All video programming distributors shall deliver all programming received from the video programming owner or other

origination source containing closed captioning to receiving television households with the original closed captioning data intact in a format that can be recovered and displayed by decoders meeting the standards of § 15.119 of this chapter unless such programming is recaptioned or the captions are reformatted by the programming distributor.

(d) *Exempt programs and providers.* For purposes of determining compliance with this section, any video programming or video programming provider that meets one or more of the following criteria shall be exempt to the extent specified in this paragraph.

(1) *Programming subject to contractual captioning restrictions.* Video programming that is subject to a contract in effect on or before February 8, 1996, but not any extension or renewal of such contract, for which an obligation to provide closed captioning would constitute a breach of contract.

(2) *Video programming or video programming provider for which the captioning requirement has been waived.* Any video programming or video programming provider for which the Commission has determined that a requirement for closed captioning imposes an undue burden on the basis of a petition for exemption filed in accordance with the procedures specified in paragraph (f) of this section.

(3) *Non-english language programming.* All programming for which the audio is in a language other than English, except that scripted programming that can be captioned using the ''electronic news room'' technique is not exempt.

(4) *Primarily textual programming.* Video programming or portions of video programming for which the content of the soundtrack is displayed visually through text or graphics (e.g., program schedule channels or community bulletin boards).

(5) *Programming distributed in the late night hours.* Programming that is being distributed to residential households between 2 a.m. and 6 a.m. local time. Video programming distributors providing a channel that consists of a service that is distributed and exhibited for viewing in more than a single time zone shall be exempt from closed captioning that service for any continuous 4 hour time period they may select, commencing not earlier than 12 a.m. local time and ending not later than 7 a.m. local time in any location where that service is intended for viewing. This exemption is to be determined based on the primary reception locations and remains applicable even if the transmission is accessible and distributed or exhibited in other time zones on a secondary basis. Video programming distributors providing service outside of the 48 contiguous states may treat as exempt programming that is exempt under this paragraph when distributed in the contiguous states.

(6) *Interstitials, promotional announcements and public service announcements.* Interstitial material, promotional announcements, and public service announcements that are 10 minutes or less in duration.

(7) *ITFS programming.* Video programming produced for the instructional television fixed service (ITFS).

(8) *Locally produced and distributed non-news programming with limited repeat value.* Programming that is locally produced by the video programming distributor, has no repeat value, is of local public interest, is not news programming, and for which the ''electronic news room'' technique of captioning is unavailable.

(9) *Programming on new networks.* Programming on a video programming network for the first four years after it begins operation.

(10) *Primarily non-vocal musical programming.* Programming that consists primarily of non-vocal music.

(11) *Captioning expense in excess of 2 percent of gross revenues.* No video programming provider shall be required to expend any money to caption any video programming if such expenditure would exceed 2 percent of the gross revenues received from that channel during the previous calendar year.

(12) *Channels producing revenues of under $3,000,000.* No video programming provider shall be required to expend any money to caption any channel of video programming producing annual gross revenues of less than $3,000,000 during the previous calendar year other than the obligation to pass through video programming already

captioned when received pursuant to paragraph (c) of this section.

(e) *Responsibility for and determination of compliance.* (1) Compliance shall be calculated on a per channel, calendar quarter basis;

(2) Open captioning or subtitles in the language of the target audience may be used in lieu of closed captioning;

(3) Live programming or repeats of programming originally transmitted live that are captioned using the so-called ''electronic news room'' technique will be considered captioned. The live portions of noncommercial broadcasters' fundraising activities that use automated software to create a continuous captioned message will be considered captioned;

(4) Compliance will be required with respect to the type of video programming generally distributed to residential households. Programming produced solely for closed circuit or private distribution is not covered by these rules;

(5) Video programming that is exempt pursuant to paragraph (d) of this section that contains captions, except video programming exempt pursuant to paragraph (d)(5) of this section (late night hours exemption), can count towards the compliance with the requirements for new programming prior to January 1, 2006. Video programming that is exempt pursuant to paragraph (d) of this section that contains captions, except that video programming exempt pursuant to paragraph (d)(5) of this section (late night hours exemption), can count towards compliance with the requirements for pre-rule programming.

(6) For purposes of paragraph (d)(11) of this section, captioning expenses include direct expenditures for captioning as well as allowable costs specifically allocated by a programming supplier through the price of the video programming to that video programming provider. To be an allowable allocated cost, a programming supplier may not allocate more than 100 percent of the costs of captioning to individual video programming providers. A programming supplier may allocate the captioning costs only once and may use any commercially reasonable allocation method;

(7) For purposes of paragraphs (d)(11) and (d)(12) of this section, annual gross revenues shall be calculated for each channel individually based on revenues received in the preceding calendar year from all sources related to the programming on that channel. Revenue for channels shared between network and local programming shall be separately calculated for network and for non-network programming, with neither the network nor the local video programming provider being required to spend more than 2 percent of its revenues for captioning. Thus, for example, compliance with respect to a network service distributed by a multichannel video service distributor, such as a cable operator, would be calculated based on the revenues received by the network itself (as would the related captioning expenditure). For local service providers such as broadcasters, advertising revenues from station-controlled inventory would be included. For cable operators providing local origination programming, the annual gross revenues received for each channel will be used to determine compliance. Evidence of compliance could include certification from the network supplier that the requirements of the test had been met. Multichannel video programming distributors, in calculating non-network revenues for a channel offered to subscribers as part of a multichannel package or tier, will not include a pro rata share of subscriber revenues, but will include all other revenues from the channel, including advertising and ancillary revenues. Revenues for channels supported by direct sales of products will include only the revenues from the product sales activity (*e.g.*, sales commissions) and not the revenues from the actual products offered to subscribers. Evidence of compliance could include certification from the network supplier that the requirements of this test have been met.

(8) If two or more networks (or sources of programming) share a single channel, that channel shall be considered to be in compliance if each of the sources of video programming are in compliance where they are carried on a full time basis;

(9) Video programming distributors shall not be required to provide closed captioning for video programming that is by law not subject to their editorial control, including but not limited to the signals of television broadcast stations distributed pursuant to sections 614 and 615 of the Communications Act or pursuant to the compulsory copyright licensing provisions of sections 111 and 119 of the Copyright Act (Title 17 U.S.C. 111 and 119); programming involving candidates for public office covered by sections 315 and 312 of the Communications Act and associated policies; commercial leased access, public access, governmental and educational access programming carried pursuant to sections 611 and 612 of the Communications Act; video programming distributed by direct broadcast satellite (DBS) services in compliance with the noncommercial programming requirement pursuant to section 335(b)(3) of the Communications Act to the extent such video programming is exempt from the editorial control of the video programming provider; and video programming distributed by a common carrier or that is distributed on an open video system pursuant to section 653 of the Communications Act by an entity other than the open video system operator. To the extent such video programming is not otherwise exempt from captioning, the entity that contracts for its distribution shall be required to comply with the closed captioning requirements of this section.

(f) *Procedures for exemptions based on undue burden.* (1) A video programming provider, video programming producer or video programming owner may petition the Commission for a full or partial exemption from the closed captioning requirements. Exemptions may be granted, in whole or in part, for a channel of video programming, a category or type of video programming, an individual video service, a specific video program or a video programming provider upon a finding that the closed captioning requirements will result in an undue burden.

(2) A petition for an exemption must be supported by sufficient evidence to demonstrate that compliance with the requirements to closed caption video programming would cause an undue burden. The term ''undue burden'' means significant difficulty or expense. Factors to be considered when determining whether the requirements for closed captioning impose an undue burden include:

(i) The nature and cost of the closed captions for the programming;

(ii) The impact on the operation of the provider or program owner;

(iii) The financial resources of the provider or program owner; and

(iv) The type of operations of the provider or program owner.

(3) In addition to these factors, the petition shall describe any other factors the petitioner deems relevant to the Commission's final determination and any available alternatives that might constitute a reasonable substitute for the closed captioning requirements including, but not limited to, text or graphic display of the content of the audio portion of the programming. Undue burden shall be evaluated with regard to the individual outlet.

(4) An original and two (2) copies of a petition requesting an exemption based on the undue burden standard, and all subsequent pleadings, shall be filed in accordance with §0.401(a) of this chapter.

(5) The Commission will place the petition on public notice.

(6) Any interested person may file comments or oppositions to the petition within 30 days of the public notice of the petition. Within 20 days of the close of the comment period, the petitioner may reply to any comments or oppositions filed.

(7) Comments or oppositions to the petition shall be served on the petitioner and shall include a certification that the petitioner was served with a copy. Replies to comments or oppositions shall be served on the commenting or opposing party and shall include a certification that the commenter was served with a copy.

(8) Upon a showing of good cause, the Commission may lengthen or shorten any comment period and waive or establish other procedural requirements.

(9) All petitions and responsive pleadings shall contain a detailed, full showing, supported by affidavit, of any facts or considerations relied on.

(10) The Commission may deny or approve, in whole or in part, a petition for an undue burden exemption from the closed captioning requirements.

(11) During the pendency of an undue burden determination, the video programming subject to the request for exemption shall be considered exempt from the closed captioning requirements.

(g) *Complaint procedures.* (1) No complaint concerning an alleged violation of the closed captioning requirements of this section shall be filed with the Commission unless such complaint is first sent to the video programming distributor responsible for delivery and exhibition of the video programming. A complaint must be in writing, must state with specificity the alleged Commission rule violated and must include some evidence of the alleged rule violation. In the case of an alleged violation by a television broadcast station or other programming for which the video programming distributor is exempt from closed captioning responsibility pursuant to paragraph (e)(9) of this section, the complaint shall be sent directly to the station or owner of the programming. A video programming distributor receiving a complaint regarding such programming must forward the complaint within seven days of receipt to the programmer or send written instructions to the complainant on how to refile with the programmer.

(2) A complaint will not be considered if it is filed with the video programming distributor later than the end of the calendar quarter following the calendar quarter in which the alleged violation has occurred.

(3) The video programming distributor must respond in writing to a complaint no later than 45 days after the end of the calendar quarter in which the violation is alleged to have occurred or 45 days after receipt of a written complaint, whichever is later.

(4) If a video programming distributor fails to respond to a complaint or a dispute remains following the initial complaint resolution procedures, a complaint may be filed with the Commission within 30 days after the time allotted for the video programming distributor to respond has ended. An original and two (2) copies of the complaint, and all subsequent pleadings shall be filed in accordance with § 0.401(a) of this chapter. The complaint shall include evidence that demonstrates the alleged violation of the closed captioning requirements of this section and shall certify that a copy of the complaint and the supporting evidence was first directed to the video programming distributor. A copy of the complaint and any supporting documentation must be served on the video programming distributor.

(5) The video programming distributor shall have 15 days to respond to the complaint. In response to a complaint, a video programming distributor is obligated to provide the Commission with sufficient records and documentation to demonstrate that it is in compliance with the Commission's rules. The response to the complaint shall be served on the complainant.

(6) Certifications from programming suppliers, including programming producers, programming owners, networks, syndicators and other distributors, may be relied on to demonstrate compliance. Distributors will not be held responsible for situations where a program source falsely certifies that programming delivered to the distributor meets our captioning requirements if the distributor is unaware that the certification is false. Video programming providers may rely on the accuracy of certifications. Appropriate action may be taken with respect to deliberate falsifications.

(7) The Commission will review the complaint, including all supporting evidence, and determine whether a violation has occurred. The Commission shall, as needed, request additional information from the video programming provider.

(8) If the Commission finds that a violation has occurred, penalties may be imposed, including a requirement that the video programming distributor deliver video programming containing closed captioning in an amount exceeding that specified in paragraph (b) of this section in a future time period.

(h) *Private rights of action prohibited.* Nothing in this section shall be construed to authorize any private right of action to enforce any requirement of

this section. The Commission shall have exclusive jurisdiction with respect to any complaint under this section.