

## Federal Communications Commission

## § 1.1307

(1) Involve a site location specified under § 1.1307(a) (1)–(7), or

(2) Involve high intensity lighting under § 1.1307(a)(8).

(3) Result in human exposure to radiofrequency radiation in excess of the applicable safety standards specified in § 1.1307(b).

NOTE 1: The provisions of § 1.1307(a) of this part requiring the preparation of EAs do not encompass the mounting of antenna(s) on an existing building or antenna tower unless § 1.1307(a)(4) of this part is applicable. Such antennas are subject to § 1.1307(b) of this part and require EAs if their construction would result in human exposure to radiofrequency radiation in excess of the applicable health and safety guidelines cited in § 1.1307(b) of this part. The provisions of § 1.1307 (a) and (b) of this part do not encompass the installation of aerial wire or cable over existing aerial corridors of prior or permitted use or the underground installation of wire or cable along existing underground corridors of prior or permitted use, established by the applicant or others. The use of existing buildings, towers or corridors is an environmentally desirable alternative to the construction of new facilities and is encouraged. The provisions of § 1.1307(a) and (b) of this part do not encompass the construction of new submarine cable systems.

NOTE 2: The specific height of an antenna tower or supporting structure, as well as the specific diameter of a satellite earth station, in and of itself, will not be deemed sufficient to warrant environmental processing, see §§ 1.1307 and 1.1308.

NOTE 3: The construction of an antenna tower or supporting structure in an established "antenna farm": (i.e., an area in which similar antenna towers are clustered, whether or not such area has been officially designated as an antenna farm), will be categorically excluded unless *one or more of the antennas to be mounted on the tower or structure are subject to the provisions of § 1.1307(b) and the additional radiofrequency radiation from the antenna(s) on the new tower or structure would cause human exposure in excess of the applicable health and safety guidelines cited in § 1.1307(b).*

[51 FR 15000, Apr. 22, 1986, as amended at 51 FR 18889, May 23, 1986; 53 FR 28393, July 28, 1988; 56 FR 13414, Apr. 2, 1991; 64 FR 19061, Apr. 19, 1999]

### **§ 1.1307 Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.**

(a) Commission actions with respect to the following types of facilities may significantly affect the environment

and thus require the preparation of EAs by the applicant (see §§ 1.1308 and 1.1311) and may require further Commission environmental processing (see §§ 1.1314, 1.1315 and 1.1317):

(1) Facilities that are to be located in an officially designated wilderness area.

(2) Facilities that are to be located in an officially designated wildlife preserve.

(3) Facilities that: (i) May affect listed threatened or endangered species or designated critical habitats; or (ii) are likely to jeopardize the continued existence of any proposed endangered or threatened species or likely to result in the destruction or adverse modification of proposed critical habitats, as determined by the Secretary of the Interior pursuant to the Endangered Species Act of 1973.

NOTE: The list of endangered and threatened species is contained in 50 CFR 17.11, 17.22, 222.23(a) and 227.4. The list of designated critical habitats is contained in 50 CFR 17.95, 17.96 and part 226. To ascertain the status of proposed species and habitats, inquiries may be directed to the Regional Director of the Fish and Wildlife Service, Department of the Interior.

(4) Facilities that may affect districts, sites, buildings, structures or objects, significant in American history, architecture, archeology, engineering or culture, that are listed, or are eligible for listing, in the National Register of Historic Places. (See 16 U.S.C. 470w(5); 36 CFR 60 and 800.)

NOTE: The National Register is updated and re-published in the FEDERAL REGISTER each year in February. To ascertain whether a proposal affects a historical property of national significance, inquiries also may be made to the appropriate State Historic Preservation Officer, see 16 U.S.C. 470a(b); 36 CFR parts 63 and 800.

(5) Facilities that may affect Indian religious sites.

(6) Facilities to be located in a flood Plain (See Executive Order 11988.)

(7) Facilities whose construction will involve significant change in surface features (e.g., wetland fill, deforestation or water diversion). (In the case of wetlands on Federal property, see Executive Order 11990.)

(8) Antenna towers and/or supporting structures that are to be equipped with

high intensity white lights which are to be located in residential neighborhoods, as defined by the applicable zoning law.

(b) In addition to the actions listed in paragraph (a) of this section, Commission actions granting construction permits, licenses to transmit or renewals thereof, equipment authorizations or modifications in existing facilities, require the preparation of an Environmental Assessment (EA) if the particular facility, operation or transmitter would cause human exposure to levels of radiofrequency radiation in excess of the limits in §§1.1310 and 2.1093 of this chapter. Applications to the Commission for construction permits, licenses to transmit or renewals thereof, equipment authorizations or modifications in existing facilities must contain a statement confirming compliance with the limits unless the facility, operation, or transmitter is categorically excluded, as discussed below. Technical information showing the basis for this statement must be submitted to the Commission upon request.

(1) The appropriate exposure limits in §§1.1310 and 2.1093 of this chapter are generally applicable to all facilities, operations and transmitters regulated by the Commission. However, a determination of compliance with the exposure limits in §1.1310 or §2.1093 of this chapter (routine environmental evaluation), and preparation of an EA if the limits are exceeded, is necessary only for facilities, operations and transmit-

ters that fall into the categories listed in table 1, or those specified in paragraph (b)(2) of this section. All other facilities, operations and transmitters are categorically excluded from making such studies or preparing an EA, except as indicated in paragraphs (c) and (d) of this section. For purposes of table 1, *building-mounted antennas* means antennas mounted in or on a building structure that is occupied as a workplace or residence. The term *power* in column 2 of table 1 refers to total operating power of the transmitting operation in question in terms of effective radiated power (ERP), equivalent isotropically radiated power (EIRP), or peak envelope power (PEP), as defined in §2.1 of this chapter. For the case of the Cellular Radiotelephone Service, subpart H of part 22 of this chapter; the Personal Communications Service, part 24 of this chapter and the Specialized Mobile Radio Service, part 90 of this chapter, the phrase *total power of all channels* in column 2 of table 1 means the sum of the ERP or EIRP of all co-located simultaneously operating transmitters owned and operated by a single licensee. When applying the criteria of table 1, radiation in all directions should be considered. For the case of transmitting facilities using sectorized transmitting antennas, applicants and licensees should apply the criteria to all transmitting channels in a given sector, noting that for a highly directional antenna there is relatively little contribution to ERP or EIRP summation for other directions.

TABLE 1—TRANSMITTERS, FACILITIES AND OPERATIONS SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION

| Service (title 47 CFR rule part)  | Evaluation required if   |
|---|--|
| Experimental Radio Services (part 5) .....<br>Multipoint Distribution Service (subpart K of part 21). | Power > 100 W ERP (164 W EIRP)<br><i>Non-building-mounted antennas</i> : height above ground level to lowest point of antenna < 10 m and power > 1640 W EIRP<br><i>Building-mounted antennas</i> : power > 1640 W EIRP<br>MDS licensees are required to attach a label to subscriber transceiver or transverter antennas that:<br>(1) provides adequate notice regarding potential radiofrequency safety hazards, e.g., information regarding the safe minimum separation distance required between users and transceiver antennas; and<br>(2) references the applicable FCC-adopted limits for radiofrequency exposure specified in § 1.1310. |
| Paging and Radiotelephone Service (subpart E of part 22).   | <i>Non-building-mounted antennas</i> : height above ground level to lowest point of antenna < 10 m and power > 1000 W ERP (1640 W EIRP)<br><i>Building-mounted antennas</i> : power > 1000 W ERP (1640 W EIRP)   |

TABLE 1—TRANSMITTERS, FACILITIES AND OPERATIONS SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION—Continued

| Service (title 47 CFR rule part)  | Evaluation required if   |
|---|--|
| Cellular Radiotelephone Service (subpart H of part 22).   | <i>Non-building-mounted antennas:</i> height above ground level to lowest point of antenna < 10 m <i>and</i> total power of all channels > 1000 W ERP (1640 W EIRP)<br><i>Building-mounted antennas:</i> total power of all channels > 1000 W ERP (1640 W EIRP)  |
| Personal Communications Services (part 24) ...  | (1) Narrowband PCS (subpart D): <i>non-building-mounted antennas:</i> height above ground level to lowest point of antenna < 10 m <i>and</i> total power of all channels > 1000 W ERP (1640 W EIRP)<br><i>Building-mounted antennas:</i> total power of all channels > 1000 W ERP (1640 W EIRP)<br>(2) Broadband PCS (subpart E): <i>non-building-mounted antennas:</i> height above ground level to lowest point of antenna < 10 m <i>and</i> total power of all channels > 2000 W ERP (3280 W EIRP)<br><i>Building-mounted antennas:</i> total power of all channels > 2000 W ERP (3280 W EIRP)  |
| Satellite Communications (part 25) .....  | All included.  |
| General Wireless Communications Service (part 26).  | Total power of all channels > 1640 W EIRP  |
| Wireless Communications Service (part 27) .....   | Total power of all channels > 1640 W EIRP  |
| Radio Broadcast Services (part 73) .....  | All included   |
| Experimental, auxiliary, and special broadcast and other program distributional services (part 74). | Subparts A, G, L: power > 100 W ERP<br>Subpart I: <i>non-building-mounted antennas:</i> height above ground level to lowest point of antenna < 10 m <i>and</i> power > 1640 W EIRP<br><i>Building-mounted antennas:</i> power > 1640 W EIRP<br>ITFS licensees are required to attach a label to subscriber transceiver or transverter antennas that:<br>(1) provides adequate notice regarding potential radiofrequency safety hazards, e.g., information regarding the safe minimum separation distance required between users and transceiver antennas; and<br>(2) references the applicable FCC-adopted limits for radiofrequency exposure specified in § 1.1310.                               |
| Stations in the Maritime Services (part 80) .....   | Ship earth stations only   |
| Private Land Mobile Radio Services Paging Operations (part 90).                                     | <i>Non-building-mounted antennas:</i> height above ground level to lowest point of antenna < 10 m <i>and</i> power > 1000 W ERP (1640 W EIRP)<br><i>Building-mounted antennas:</i> power > 1000 W ERP (1640 W EIRP)  |
| Private Land Mobile Radio Services Specialized Mobile Radio (part 90).                              | <i>Non-building-mounted antennas:</i> height above ground level to lowest point of antenna < 10 m <i>and</i> total power of all channels > 1000 W ERP (1640 W EIRP)<br><i>Building-mounted antennas:</i>   |
| Amateur Radio Service (part 97) .....   | Total power of all channels > 1000 W ERP (1640 W EIRP)   |
| Local Multipoint Distribution Service (subpart L of part 101).                                      | Transmitter output power > levels specified in § 97.13(c)(1) of this chapter<br><i>Non-building-mounted antennas:</i> height above ground level to lowest point of antenna < 10 m <i>and</i> power > 1640 W EIRP<br><i>Building-mounted antennas:</i> power > 1640 W EIRP<br>LMDS licensees are required to attach a label to subscriber transceiver antennas that:<br>(1) provides adequate notice regarding potential radiofrequency safety hazards, e.g., information regarding the safe minimum separation distance required between users and transceiver antennas; and<br>(2) references the applicable FCC-adopted limits for radiofrequency exposure specified in § 1.1310 of this chapter |

(2) Mobile and portable transmitting devices that operate in the Cellular Radiotelephone Service, the Personal Communications Services (PCS), the Satellite Communications Services, the General Wireless Communications Service, the Wireless Communications Service, the Maritime Services (ship earth stations only) and the Specialized Mobile Radio Service authorized under Subpart H of parts 22, 24, 25, 26, 27, 80, and 90 of this chapter are subject

to routine environmental evaluation for RF exposure prior to equipment authorization or use, as specified in §§ 2.1091 and 2.1093 of this chapter. Unlicensed PCS, unlicensed NII and millimeter wave devices are also subject to routine environmental evaluation for RF exposure prior to equipment authorization or use, as specified in §§ 15.253(f), 15.255(g), 15.319(i), and

15.407(f) of this chapter. Portable transmitting equipment for use in the Wireless Medical Telemetry Service (WMTS) is subject to routine environmental evaluation as specified in §§ 2.1093 and 95.1125 of this chapter. Equipment authorized for use in the Medical Implant Communications Service (MICS) as a medical implant transmitter (as defined in Appendix 1 to Subpart E of part 95 of this chapter) is subject to routine environmental evaluation for RF exposure prior to equipment authorization, as specified in § 2.1093 of this chapter by finite difference time domain computational modeling or laboratory measurement techniques. Where a showing is based on computational modeling, the Commission retains the discretion to request that specific absorption rate measurement data be submitted. All other mobile, portable, and unlicensed transmitting devices are categorically excluded from routine environmental evaluation for RF exposure under §§ 2.1091, 2.1093 of this chapter except as specified in paragraphs (c) and (d) of this section.

(3) In general, when the guidelines specified in § 1.1310 are exceeded in an accessible area due to the emissions from multiple fixed transmitters, actions necessary to bring the area into compliance are the shared responsibility of all licensees whose transmitters produce, at the area in question, power density levels that exceed 5% of the power density exposure limit applicable to their particular transmitter or field strength levels that, when squared, exceed 5% of the square of the electric or magnetic field strength limit applicable to their particular transmitter. Owners of transmitter sites are expected to allow applicants and licensees to take reasonable steps to comply with the requirements contained in § 1.1307(b) and, where feasible, should encourage co-location of transmitters and common solutions for controlling access to areas where the RF exposure limits contained in § 1.1310 might be exceeded.

(i) Applicants for proposed (not otherwise excluded) transmitters, facilities or modifications that would cause non-compliance with the limits specified in § 1.1310 at an accessible area previously in compliance must submit an

EA if emissions from the applicant's transmitter or facility would result, at the area in question, in a power density that exceeds 5% of the power density exposure limit applicable to that transmitter or facility or in a field strength that, when squared, exceeds 5% of the square of the electric or magnetic field strength limit applicable to that transmitter or facility.

(ii) Renewal applicants whose (not otherwise excluded) transmitters or facilities contribute to the field strength or power density at an accessible area not in compliance with the limits specified in § 1.1310 must submit an EA if emissions from the applicant's transmitter or facility results, at the area in question, in a power density that exceeds 5% of the power density exposure limit applicable to that transmitter or facility or in a field strength that, when squared, exceeds 5% of the square of the electric or magnetic field strength limit applicable to that transmitter or facility.

(4) *Transition Provisions.* Applications filed with the Commission prior to October 15, 1997 (or January 1, 1998, for the Amateur Radio Service only), for construction permits, licenses to transmit or renewals thereof, modifications in existing facilities or other authorizations or renewals thereof require the preparation of an Environmental Assessment if the particular facility, operation or transmitter would cause human exposure to levels of radio-frequency radiation that are in excess of the requirements contained in paragraphs (b)(4)(i) through (b)(4)(iii) of this section. In accordance with § 1.1312, if no new application or Commission action is required for a licensee to construct a new facility or physically modify an existing facility, e.g., geographic area licensees, and construction begins on or after October 15, 1997, the licensee will be required to prepare an Environmental Assessment if construction or modification of the facility would not comply with the provisions of paragraph (b)(1) of this section. These transition provisions do not apply to applications for equipment authorization or use for mobile, portable and unlicensed devices as specified in paragraph (b)(2) of this section.

(i) For facilities and operations licensed or authorized under parts 5, 21 (subpart K), 25, 73, 74 (subparts A, G, I, and L), and 80 of this chapter, the "Radio Frequency Protection Guides" recommended in "American National Standard Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 300 kHz to 100 GHz", (ANSI C95.1-1982), issued by the American National Standards Institute (ANSI) and copyright 1982 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York shall apply. With respect to subpart K of part 21 and subpart I of part 74 of this chapter, these requirements apply only to multipoint distribution service and instructional television fixed service stations transmitting with an equivalent isotropically radiated power (EIRP) in excess of 200 watts. With respect to subpart L of part 74 of this chapter, these requirements apply only to FM booster and translator stations transmitting with an effective radiated power (ERP) in excess of 100 watts. With respect to part 80 of this chapter, these requirements apply only to ship earth stations.

(ii) For facilities and operations licensed or authorized under part 24 of this chapter, licensees and manufacturers are required to ensure that their facilities and equipment comply with IEEE C95.1-1991 (ANSI/IEEE C95.1-1992), "Safety Levels With Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz." Measurement methods are specified in IEEE C95.3-1991, "Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields—RF and Microwave." Copies of these standards are available from IEEE Standards Board, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331. Telephone: 1-800-678-4333. The limits for both "controlled" and "uncontrolled" environments, as defined by IEEE C95.1-1991, will apply to all PCS base and mobile stations, as appropriate.

(iii) Applications for all other types of facilities and operations are categorically excluded from routine RF radiation evaluation except as provided

in paragraphs (c) and (d) of this section.

(5) *Existing transmitting facilities, devices and operations:* All existing transmitting facilities, operations and devices regulated by the Commission must be in compliance with the requirements of paragraphs (b)(1) through (b)(3) of this section by September 1, 2000, or, if not in compliance, file an Environmental Assessment as specified in §1.1311.

(c) If an interested person alleges that a particular action, otherwise categorically excluded, will have a significant environmental effect, the person shall submit to the Bureau responsible for processing that action a written petition setting forth in detail the reasons justifying or circumstances necessitating environmental consideration in the decision-making process. (See §1.1313). The Bureau shall review the petition and consider the environmental concerns that have been raised. If the Bureau determines that the action may have a significant environmental impact, the Bureau will require the applicant to prepare an EA (see §§1.1308 and 1.1311), which will serve as the basis for the determination to proceed with or terminate environmental processing.

(d) If the Bureau responsible for processing a particular action, otherwise categorically excluded, determines that the proposal may have a significant environmental impact, the Bureau, on its own motion, shall require the applicant to submit an EA. The Bureau will review and consider the EA as in paragraph (c) of this section.

(e) No State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the regulations contained in this chapter concerning the environmental effects of such emissions. For purposes of this paragraph:

(1) The term *personal wireless service* means commercial mobile services, unlicensed wireless services, and common carrier wireless exchange access services;

§ 1.1308

(2) The term *personal wireless service facilities* means facilities for the provision of personal wireless services;

(3) The term *unlicensed wireless services* means the offering of telecommunications services using duly authorized devices which do not require individual licenses, but does not mean the provision of direct-to-home satellite services; and

(4) The term *direct-to-home satellite services* means the distribution or broadcasting of programming or services by satellite directly to the subscriber's premises without the use of ground receiving or distribution equipment, except at the subscriber's premises or in the uplink process to the satellite.

[51 FR 15000, Apr. 22, 1986, as amended at 52 FR 13241, Apr. 22, 1987; 53 FR 28224, July 27, 1988; 53 FR 28393, July 28, 1988; 54 FR 30548, July 21, 1989; 55 FR 2381, Jan. 24, 1990; 55 FR 50692, Dec. 10, 1990; 61 FR 41014, Aug. 7, 1996; 62 FR 3240, Jan. 22, 1997; 62 FR 9654, Mar. 3, 1997; 62 FR 23162, Apr. 29, 1997; 62 FR 47965, Sept. 12, 1997; 62 FR 61448, Nov. 18, 1997; 63 FR 65099, Nov. 25, 1998; 65 FR 44001, July 17, 2000]

EFFECTIVE DATE NOTE: At 65 FR 44001, July 17, 2000, §1.1307 was amended by revising paragraph (b)(2), effective Oct. 16, 2000. For the convenience of the user, the superseded text is set forth as follows:

§ 1.1307 **Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.**

\* \* \* \* \*

(b) \* \* \*

(2) Mobile and portable transmitting devices that operate in the Cellular Radiotelephone Service, the Personal Communications Services (PCS), the Satellite Communications Services, the General Wireless Communications Service, the Wireless Communications Service, the Maritime Services (ship earth stations only) and the Specialized Mobile Radio Service authorized under Subpart H of parts 22, 24, 25, 26, 27, 80, and 90 of this chapter are subject to routine environmental evaluation for RF exposure prior to equipment authorization or use, as specified in §§2.1091 and 2.1093 of this chapter. Unlicensed PCS, unlicensed NII and millimeter wave devices are also subject to routine environmental evaluation for RF exposure prior to equipment authorization or use, as specified in §§15.253(f), 15.255(g), 15.319(i), and 15.407(f) of this chapter. Equipment authorized for use in the Medical Implant Communications Service (MICS) as a medical im-

plant transmitter (as defined in Appendix 1 to Subpart E of Part 95 of this chapter) is subject to routine environmental evaluation for RF exposure prior to equipment authorization, as specified in §2.1093 of this chapter by finite difference time domain computational modeling or laboratory measurement techniques. Where a showing is based on computational modeling, the Commission retains the discretion to request that specific absorption rate measurement data be submitted. All other mobile, portable, and unlicensed transmitting devices are categorically excluded from routine environmental evaluation for RF exposure under §§2.1091, 2.1093 of this chapter except as specified in paragraphs (c) and (d) of this section.

\* \* \* \* \*

§ 1.1308 **Consideration of environmental assessments (EAs); findings of no significant impact.**

(a) Applicants shall prepare EAs for actions that may have a significant environmental impact (see §1.1307). An EA is described in detail in §1.1311 of this part of the Commission rules.

(b) The EA is a document which shall explain the environmental consequences of the proposal and set forth sufficient analysis for the Bureau or the Commission to reach a determination that the proposal will or will not have a significant environmental effect. To assist in making that determination, the Bureau or the Commission may request further information from the applicant, interested persons, and agencies and authorities which have jurisdiction by law or which have relevant expertise.

NOTE: With respect to actions specified under §1.1307 (a)(3) and (a)(4), the Commission shall solicit and consider the comments of the Department of Interior, and the State Historic Preservation Officer and the Advisory Council on Historic Preservation, respectively, in accordance with their established procedures. See Interagency Cooperation—Endangered Species Act of 1973, as amended, 50 CFR part 402; Protection of Historic and Cultural Properties, 36 CFR part 800. In addition, when an action interferes with or adversely affects an American Indian tribe's religious site, the Commission shall solicit the views of that American Indian tribe. See §1.1307(a)(5).

(c) If the Bureau or the Commission determines, based on an independent review of the EA and any applicable mandatory consultation requirements