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.

§ 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 stereophonic subcarriers are not precluded.

(4) Double sideband, suppressed-carrier, amplitude modulation of the

§ 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.
F(30,30) FM CHANNELS

Transmitting Antenna Height in Meters

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
§ 73.333

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FM CHANNELS

ESTIMATED FIELD STRENGTH EXCEED AT 90 PERCENT OF THE POTENTIAL RECEIVER LOCATIONS FOR AT LEAST 10 PERCENT OF THE TIME AT A RECEIVING ANTENNA HEIGHT OF 9 METERS.
FIGURE 2

STANDARD PRE-EMPHASIS CURVE;
- TIME CONSTANT 75 MICROSECONDS
  (SOLID LINE)
FREQUENCY RESPONSE LIMITS (DEC. 6.63)
SHOWN BY USE OF SOLID AND DASHED LINES
EFFECTIVE DATE NOTE: At 42 FR 25736, May 19, 1977, in §73.333, the effective date of Figures 4 and 5 was stayed indefinitely.

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