

43 FR 53738, Nov. 17, 1978; 45 FR 28141, Apr. 28, 1980]

§ 73.509 Protection from interference.

(a) No application for a facility on any channel specified in § 73.501 of this chapter will be accepted if the requested facility either would cause objectionable interference within the 1 mV/m contour of any co-channel or adjacent channel station other than Class D (secondary) or, except in the case of Class D (secondary) proposals, receive interference within the proposal 1 mV/m contour.

(b) No application for use of any commercial FM channel by a Class D (secondary) station will be accepted if the requested facility would cause objectionable interference within the 1 mV/m contour of any co-channel or adjacent-channel station.

(c) No application for FM Channel 200 will be accepted if the requested facility would cause interference within the 1 mV/m contour of any co-channel Class D (secondary) station on Channel 200 or any adjacent-channel station on Channels 201, 202 and 203. The standards set forth in paragraphs (d) (1), (2) and (3) of this section shall be used to determine the existence of objectionable interference.

(d) The following standards shall be used to determine the existence of objectionable interference:

(1) The distance to the 1 mV/m contour shall be determined by the use of Figure 1 of § 73.333 (F(50,50) curve) of this chapter (see § 73.313(c)(1)).

(2) The distance to the applicable interference contour shall be determined by the use of Figure 1a of § 73.333 (F(50,10) chart) of this chapter.

(3) Objectionable interference will be considered to exist if, on the basis of the curves referred to in this subparagraph, the ratio of undesired to desired signal exceeds: 1:10 for co-channel; 1:2 for first adjacent channel (200 kHz removed); 10:1 for second adjacent channel (400 kHz removed); and 100:1 for third adjacent channel (600 kHz removed).

(e) No application for FM Channel 200 will be accepted if the requested facility would cause interference to Channel 6 operations, including TV

translators on this channel. Such objectionable interference will be considered to exist whenever the 15 dBu contour of the proposal, based on the F(50,10) curves in § 73.333 Figure 1a, would overlap the 40 dBu contour of the television station, based on the F(50,50) curves in § 73.333 Figure 1.

[43 FR 39716, Sept. 6, 1978, as amended at 47 FR 54448, Dec. 3, 1982; 48 FR 29511, June 27, 1983]

§ 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) Except as provided in § 73.504(b), no provision as to a minimum facility for an FM broadcast station shall apply to a noncommercial educational station operating on a channel specified in § 73.501(a); and no provision as to a maximum facility shall apply to a noncommercial educational station on Channels 201 to 217, inclusive. However, any application other than a Class D (secondary) station application filed pursuant to § 73.512, specifying a facility below the minimum of 100 watts effective radiated power will not be accepted for filing (see note to § 73.3573) and any application exceeding the maximum set forth in § 73.211 will not be necessarily granted; see *Notice of Inquiry* in Docket No. 14185 as concerns educational FM matters (5 FCC 2d 587, 588, fn. 2 (1966); see also 13 FCC 2d 751 (1968) and 17 FCC 2d 496 (1969) and Docket 20735 (41 FR 16973).

(b) On Channels 218, 219, and 220 specified in § 73.501, no educational station will be authorized with effec-