

Federal Communications Commission

§ 73.825

§ 73.812 Rounding of power and antenna heights.

(a) Effective radiated power (ERP) will be rounded to the nearest watt on LPFM authorizations.

(b) Antenna radiation center, antenna height above average terrain (HAAT), and antenna supporting structure height will all be rounded to the nearest meter on LPFM authorizations.

§ 73.813 Determination of antenna height above average terrain (HAAT).

HAAT determinations for LPFM stations will be made in accordance with the procedure detailed in § 73.313(d) of this part.

§ 73.816 Antennas.

(a) Permittees and licensees may employ nondirectional antennas with horizontal only polarization, vertical only polarization, circular polarization or elliptical polarization.

(b) Directional antennas generally will not be authorized and may not be utilized in the LPFM service, except as provided in paragraph (c) of this section.

(c)(1) Public safety and transportation permittees and licensees, eligible pursuant to § 73.853(a)(2), may utilize directional antennas in connection with the operation of a Travelers' Information Service (TIS) provided each LPFM TIS station utilizes only a single antenna with standard pattern characteristics that are predetermined by the manufacturer. Public safety and transportation permittees and licensees may not use composite antennas (*i.e.*, antennas that consist of multiple stacked and/or phased discrete transmitting antennas).

(2) LPFM permittees and licensees proposing a waiver of the second-adjacent channel spacing requirements of § 73.807 may utilize directional antennas for the sole purpose of justifying such a waiver.

(d) LPFM TIS stations will be authorized as nondirectional stations. The use of a directional antenna as provided for in paragraph (c) of this section will not be considered in the

determination of compliance with any requirements of this part.

[65 FR 67303, Nov. 9, 2000, as amended at 78 FR 2106, Jan. 9, 2013]

§ 73.825 Protection to reception of TV channel 6.

The following spacing requirements will apply to LPFM applications on Channels 201 through 220 unless the application is accompanied by a written agreement between the LPFM applicant and each affected TV Channel 6 broadcast station concurring with the proposed LPFM facilities.

(a) LPFM stations will be authorized on Channels 201 through 220 only if the pertinent minimum separation distances in the following table are met with respect to all full power TV Channel 6 stations.

FM channel number	LPFM to TV channel 6 (km)
201	140
202	138
203	137
204	136
205	135
206	133
207	133
208	133
209	133
210	133
211	133
212	132
213	132
214	132
215	131
216	131
217	131
218	131
219	130
220	130

(b) LPFM stations will be authorized on Channels 201 through 220 only if the pertinent minimum separation distances in the following table are met with respect to all low power TV, TV translator, and Class A TV stations authorized on TV Channel 6.

FM channel number	LPFM to TV channel 6 (km)
201	98
202	97
203	95
204	94
205	93
206	91
207	91
208	91
209	91
210	91
211	91