

APPENDIX C

PROPOSED RULE MODIFICATIONS

§73.807 Minimum distance separation between stations.

Minimum separation requirements for LP100 and LP10 stations, as defined in Section 73.811 and Section 73.853 of this Part, are listed in the following subsections. An LPFM station will not be authorized unless these separations are met. Minimum distances for co-channel and first-adjacent channel are separated into two columns. The left-hand column lists the required minimum separation to protect other stations and the right-hand column lists (for informational purposes only) the minimum distance necessary for the LPFM station to receive no interference from other stations assumed to be operating at the maximum permitted facilities for the station class. For second- and third-adjacent channels and IF channels, the required minimum distance separation is sufficient to avoid interference received from other stations.

(a)(1) An LP100 station will not be authorized initially unless the minimum distance separations in the following table are met with respect to authorized FM stations, applications for new and existing FM stations filed prior to the release of the public notice announcing an LPFM window period for LP100 stations, authorized LP100 stations, LP100 station applications that were timely-filed within a previous window, and vacant FM allotments. LP100 stations are not required to protect LP10 stations. LPFM modification applications must either meet the distance separations in the following table or, if short-spaced, not lessen the spacing to subsequently authorized stations.

Station Class Protected by LP100	Co-channel Minimum Separation (km)		First-adjacent Channel Minimum Separation (km)		Second/ Third -adjacent Channel Minimum Separation (km) Required	I.F . Channel minimum separations 10.6 or 10.8 MHz
	Interference From Max. Required	For No Received Class Facility	Interference From Max. Required	For No Received Class Facility		
LP100	24	24	14	14	None	None
D	24	24	13	13	6	3
A	67	92	56	56	29	6
B1	87	119	74	74	46	9
B	112	143	97	97	67	12
C3	78	119	67	67	40	9
C2	91	143	80	84	53	12
C1	111	178	100	111	73	20
C0	122	193	111	130	84	22
C	130	203	120	142	93	28

(a)(2)*****

(b)(1) An LP10 station will not be authorized unless the minimum distance separations in the following table are met with respect to authorized FM stations, applications for new and existing FM stations filed prior to the release of the public notice announcing an LPFM window period for LP10 stations, vacant FM allotments, or LPFM stations.

Station Class Protected by LP10	Co-channel Minimum Separation (km)		First-adjacent Channel Minimum Separation (km)		Second/ Third -adjacent Channel Minimum Separation (km) Required	I.F . Channel minimum separations 10.6 or 10.8 MHz
	Interference From Max. Required	For No	Interference From Max. Required	For No		
		Received		Received		
		Class Facility		Class Facility		
LP100	16	22	10	11	None	None
LP10	13	13	8	8	None	None
D	16	21	10	11	6	2
A	59	90	53	53	29	5
B1	77	117	70	70	45	8
B	99	141	91	91	66	11
C3	69	117	64	64	39	8
C2	82	141	77	81	52	11
C1	103	175	97	108	73	18
C0	114	190	99	127	84	21
C	122	201	116	140	92	26

(b)(2) *****

(c) In addition to meeting or exceeding the minimum separations for Class LP100 and Class LP10 stations in subsections (a) and (b) of this rule section above, new LP100 and LP10 stations will not be authorized in Puerto Rico or the Virgin Islands unless the minimum distance separations in the following tables are met with respect to authorized or proposed FM stations:

(1) LP100 stations in Puerto Rico and the Virgin Islands:

Station Class Protected by LP100	Co-channel Minimum Separation (km)		First-adjacent Channel Minimum Separation (km)		Second/ Third -adjacent Channel Minimum Separation (km)	I.F . Channel minimum separations
	For No Interference From Max. Required	No Received Class Facility	For No Interference From Max. Required	No Received Class Facility		
A	80	111	70	70	42	9
B1	95	128	82	82	53	11
B	138	179	123	123	92	19

(2) LP10 stations in Puerto Rico and the Virgin Islands:

Station Class Protected by LP10	Co-channel Minimum Separation (km)		First-adjacent Channel Minimum Separation (km)		Second/ Third -adjacent Channel Minimum Separation (km)	I.F . Channel minimum separations
	For No Interference From Max. Required	No Received Class Facility	For No Interference From Max. Required	No Received Class Facility		
A	72	108	66	66	42	8
B1	84	125	78	78	53	9
B	126	177	118	118	92	18

Note: Minimum distance separations towards “grandfathered” superpowered Reserved Band stations, subsections (a), (b), and (c) above :

Full service FM stations operating within the reserved band (Channels 201-220) with facilities in excess of those permitted in § 73.211(b)(1) or § 73.211(b)(3) shall be protected by LPFM stations in accordance with the minimum distance separations for the nearest class as determined under § 73.211. For example, a Class B1 station operating with facilities that result in a 60 dBu contour that exceeds 39 kilometers but is less than 52 kilometers would be protected by the Class B minimum distance separations. Class D stations with 60 dBu contours that exceed 5 kilometers will be protected by the Class A minimum distance separations. Class B stations with 60 dBu contours that exceed 52 kilometers will be protected as Class C1 or Class C stations

depending upon the distance to the 60 dBu contour. No stations will be protected beyond Class C separations.

(d) In addition to meeting the separations in subsections (a) through (c) above, LPFM applications must meet the minimum separation requirements in the following tables with respect to authorized FM translator stations, cutoff FM translator applications, and FM translator applications filed prior to the release of the Public Notice announcing the LPFM window period:

(1) LP100 stations:

Distance to FM Translator 60 dBu Contour	Co-channel Minimum Separation (km)		First-adjacent Channel Minimum Separation (km)		Second/ Third-adjacent Channel Minimum Separation (km) Required	I.F . Channel Minimum Separation (km) 10.6 or 10.8 MHz
	For No Interference Required	No Received	For No Interference Required	No Received		
13.3 km or greater	39	67	28	35	21	5
Greater than 7.3 km, but less than 13.3 km	32	51	21	26	14	5
Less than 7.3 km	26	30	15	16	8	5

(2) LP10 stations:

Distance to FM Translator 60 dBu Contour	Co-channel Minimum Separation (km)		First-adjacent Channel Minimum Separation (km)		Second/ Third-adjacent Channel Minimum Separation (km)	I.F. Channel Minimum Separation (km) 10.6 or 10.8 MHz
	For No Interference Required	For No Interference Received	For No Interference Required	For No Interference Received	(km) Required	
13.3 km or greater	30	65	25	33	20	3
Greater than 7.3 km, but less than 13.3 km	24	49	18	23	14	3
Less than 7.3 km	18	28	12	14	8	3