



# PUBLIC NOTICE

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## WIRELESS TELECOMMUNICATIONS BUREAU ACCEPTS AND APPROVES CONSENSUS ANALYTICAL METHOD FOR DETERMINING ADDITIONAL FREQUENCY COORDINATION REQUIREMENTS FOR CERTAIN PRIVATE LAND MOBILE 150-470 MHz APPLICATIONS

By this *Public Notice*, the Wireless Telecommunications Bureau (Bureau) accepts and approves the consensus analytical method for determining whether Private Land Mobile Radio (PLMR) applications “trigger” the additional frequency coordination requirements of Sections 90.35(b)(2)(iii) and 90.175(b) of the Commission’s Rules.<sup>1</sup> This consensus analytical method was recommended by the Commission’s certified frequency advisory committees (“FACs” or “coordinators”) for PLMR spectrum.

By way of background, applications for new or modified facilities on frequencies below 512 MHz shared by the former Power, Petroleum, Railroad, Manufacturers, Forest Products, Telephone Maintenance, Motor Carrier and/or Automobile Emergency Radio Services prior to the Commission’s consolidation of such services into a single Industrial/Business (I/B) Pool may be coordinated by any FCC-certified I/B Pool coordinator.<sup>2</sup> However, if the interference contour of a proposed station (19 dBu contour and 21 dBu contour for VHF and UHF, respectively) would overlap the service contour of an existing station licensed on one of these previously shared frequencies (37 dBu contour and 39 dBu contour for VHF and UHF, respectively), the written concurrence of the coordinator associated with the industry for which the existing station license was issued, or the written concurrence of the licensee of the existing station, must be obtained.<sup>3</sup> The coordinators’ engineering studies are not filed with the Commission unless specifically requested by the Commission’s staff.

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<sup>1</sup> 47 C.F.R. §§ 90.35(b)(2)(iii), 90.175(b) (2002). *See also* 1998 Biennial Regulatory Review – 47 C.F.R. Part 90 - Private Land Mobile Radio Services, WT Docket No. 98-182, Memorandum Opinion and Order and Second Report and Order, FCC 02-139 ¶ 46 (rel. May 23, 2002).

<sup>2</sup> *See id.* *See also* Letter from Robert M. Gurss, Esq., President, Land Mobile Communications Council, to Thomas J. Sugrue, Esq., Chief, Wireless Telecommunications Bureau, FCC, dated June 26, 2001, at 2 (LMCC Letter).

<sup>3</sup> *See* note 1, *supra*. *See also* LMCC Letter at 2.

The Commission required that all FCC-certified coordinators reach a consensus on (1) a common analytical method for determining co-channel contour overlap using the values provided in Section 90.35(b)(2)(iii) of the Commission's Rules, and (2) adjacent channel service/interference contour values.<sup>4</sup> On June 26, 2001, the Land Mobile Communications Council (LMCC), which includes all of the FACs as members, reported on the common analytical method for co-channel contour overlap agreed to by all the coordinators.<sup>5</sup> The LMCC also reported on the adjacent channel service/interference contour values agreed to by all the coordinators.<sup>6</sup> Accordingly, we hereby approve and accept the consensus agreement as set forth in the Attachment hereto.

For further information, contact Mr. Tom Eng of the Policy and Rules Branch, Public Safety and Private Wireless Division, Wireless Telecommunications Bureau at (202) 418-0019, TTY (202) 418-7233, [teng@fcc.gov](mailto:teng@fcc.gov).

Action by the Chief, Public Safety and Private Wireless Division, Wireless Telecommunications Bureau.

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<sup>4</sup> Replacement of Part 90 by Part 88 to Revise the Private Land Mobile Radio Services and Modify the Policies Governing Them and Examination of Exclusivity and Frequency Assignment Policies of the Private Land Mobile Services, PR Docket No. 92-235, *Fifth Memorandum Opinion and Order*, 16 FCC Rcd 416 (2000) (*Fifth MO&O*).

<sup>5</sup> LMCC Letter. The letter includes a list of specific frequencies. *See id.*, Attachment A.

<sup>6</sup> *Id.* at 2.

The Frequency Advisory Committees' (FACs) consensus on a common analytical method for determining contour overlap is to be used when coordinating frequencies that, prior to consolidation into the Industrial/Business Pool, were shared by eligibles in following former, industry-specific radio services:

- Power
- Petroleum
- Railroad
- Manufacturers
- Forest Products
- Telephone Maintenance
- Motor Carrier
- Automobile Emergency

For co-channel operations, the consensus values are 37 dBu and 39 dBu for the VHF and UHF service contours (50,50), respectively; and 19 dBu and 21 dBu for the VHF and UHF interference contours (50,10), respectively.

For adjacent channel operations, the consensus relies on a de-rating factor that is applicable when a 12.5 kHz narrowband applicant seeks to use channels offset from wideband incumbents using 25 kHz bandwidth equipment. It is also applicable when a 25 kHz wideband applicant seeks to use channels offset from narrowband incumbents using 12.5 kHz equipment. Note: the consensus is **not** applicable when applicants are seeking adjacent channels offset by 7.5 kHz or 6.25 kHz. The FACs will treat such requests as co-channel operations subject to the contour values noted above.

In the VHF band, for proposed systems offset in frequency by 15 kHz, the de-rating factor is 23.2 dB. The factor is added to the co-channel interference contour value of 19 dBu, producing a 42.2 dBu (50,10) interference contour.

This results in a 37/42.2 dBu overlap criteria. In other words, if the proposed system's 42.2 dBu (50,10) interference contour overlaps an incumbent's 37 dBu (50,50) service contour, concurrence from the incumbent's coordinator, or the incumbent itself, will be sought.

In the UHF band, for proposed systems offset in frequency by 12.5 kHz, the de-rating factor is 12.5 dB. The factor is added to the co-channel interference contour value of 21 dBu, producing a 33.5 dBu (50,10) interference contour.

This results in a 39/33.5 dBu overlap criteria. In other words, if the proposed system's 33.5 dBu (50,10) interference contour overlaps an incumbent's 39 dBu (50,50) service contour, concurrence from the incumbent's coordinator, or the incumbent itself, will be sought.

**Fifth MO&O, PR Docket No. 92-235, Shared Frequency List (MHz)**

153.035	153.335	158.160	451.600
153.0425	153.3425	158.1675	451.625
153.050	153.350	158.175	451.650
153.0575	153.3575	158.1825	451.675
153.065	153.365	158.205	451.700
153.0725	153.3725	158.2125	451.750
153.080	153.380	158.220	452.325
153.0875	153.3875	158.2275	452.375
153.095	153.395	158.235	452.425
153.1025	153.4025	158.2425	452.475
153.110	153.425	158.265	452.775
153.1175	153.4325	158.2725	452.825
153.125	153.440	158.280	452.875
153.1325	153.4475	158.2875	456.175
153.140	153.455	158.295	456.225
153.1475	153.4625	158.3025	456.275
153.155	153.485	158.310	456.375
153.1625	153.4925	158.3175	456.425
153.170	153.500	158.325	456.475
153.1775	153.5075	158.3325	456.525
153.185	153.515	158.355	456.550
153.1925	153.5225	158.3625	456.575
153.200	153.545	158.370	456.600
153.2075	153.5525	158.3775	456.625
153.215	153.560	158.415	456.650
153.2225	153.5675	158.4225	456.675
153.230	153.575	158.430	456.700
153.2375	153.5825	158.4375	456.750
153.245	153.605	173.250	457.325
153.2525	153.6125	173.300	457.375
153.260	153.620	173.350	457.425
153.2675	153.6275	451.175	457.475
153.275	153.635	451.225	457.775
153.2825	153.6425	451.275	457.825
153.290	153.665	451.375	457.875
153.2975	153.6725	451.425	462.475
153.305	153.680	451.475	462.525
153.3125	153.6875	451.525	467.475
153.320	158.145	451.550	467.525
153.3275	158.1525	451.575	