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licensees will maintain primary status for the following technical changes:

- (1) Decreases in power;
- (2) Minor changes (increases or decreases) in antenna height;
- (3) Minor location changes (up to two seconds);
- (4) Any data correction which does not involve a change in the location of an existing facility;
- (5) Reductions in authorized bandwidth;
- (6) Minor changes (increases or decreases) in structure height;
- (7) Changes (increases or decreases) in ground elevation that do not affect centerline height;
- (8) Minor equipment changes.

(j) *Sunset*. PARS licensees will maintain primary status in the 2110–2130 MHz and 2160–2180 MHz bands unless and until an ET licensee requires use of the spectrum. ET licensees are not required to pay relocation costs after the relocation rules sunset (*i.e.*, for the 2110–2130 MHz and 2160–2180 MHz bands, ten years after the first ET license is issued in the respective band). Once the relocation rules sunset, an ET licensee may require the incumbent to cease operations, provided that the ET licensee intends to turn on a system within interference range of the incumbent, as determined by TIA TSB 10-F or any standard successor. ET licensee notification to the affected PARS licensee must be in writing and must provide the incumbent with no less than six months to vacate the spectrum. After the six-month notice period has expired, the PARS licensee must turn its license back into the Commission, unless the parties have entered into an agreement which allows the PARS licensee to continue to operate on a mutually agreed upon basis. If the parties cannot agree on a schedule or an alternative arrangement, requests for extension will be accepted and reviewed on a case-by-case basis. The Commission will grant such extensions only if the incumbent can demonstrate that:

- (1) It cannot relocate within the six-month period (*e.g.*, because no alternative spectrum or other reasonable option is available), and;
- (2) The public interest would be harmed if the incumbent is forced to terminate operations (*e.g.*, if public

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safety communications services would be disrupted).

(k) *Reimbursement and relocation expenses in the 2110–2130 MHz and 2160–2180 MHz bands*. Whenever an ET licensee in the 2110–2130 MHz and 2160–2180 MHz band relocates a paired PARS link with one path in the 2110–2130 MHz band and the paired path in the 2160–2180 MHz band, the ET license will be entitled to reimbursement pursuant to the procedures described in §§ 27.1160 through 27.1174 of this chapter.

[61 FR 29689, June 12, 1996, as amended at 70 FR 19309, Apr. 13, 2005; 71 FR 29834, May 24, 2006]

§ 22.603 488–494 MHz fixed service in Hawaii.

Before filing applications for authorization of inter-island control and/or repeater stations, applicants must coordinate the planned channel usage with existing licensees and other applicants with previously filed applications, using the procedure outlined in § 22.150. Applicants and licensees shall cooperate fully and make reasonable efforts to resolve any channel usage conflicts. In situations where technical solutions to such conflicts cannot be devised, the FCC may select a channel or channels to assign or may designate the application(s) for hearing. To be acceptable for filing, applications and major technical amendments must contain a certification that coordination has been completed and an exhibit listing the name(s) of the licensees and applicants with which the planned channel usage has been coordinated.

POINT-TO-MULTIPOINT OPERATION

§ 22.621 Channels for point-to-multipoint operation.

The following channels are allocated for assignment to transmitters utilized within point-to-multipoint systems that support transmitters that provide public mobile service. Unless otherwise indicated, all channels have a bandwidth of 20 kHz and are designated by their center frequencies in MegaHertz. No new licenses will be issued for any 900 MHz frequencies in this section. See part 101, subpart O of this chapter for treatment of incumbents and for new licensing procedures. Incumbents under

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part 22 are subject to the restrictions of part 101, subpart O of this chapter but may make permissible modifications, transfers, assignments, or renew their licenses using procedures, forms, fees, and filing requirements of part 22.

Public Mobile Pool
(25 kHz bandwidth)

928.8625	.....	959.8625		928.9375	.....	959.9375
928.8875	.....	959.8875		928.9625	.....	959.9625
928.9125	.....	959.9125		928.9875	.....	959.9875

(12.5 kHz bandwidth)

928.85625	....	959.85625		928.93125	....	959.93125
928.86875	....	959.86875		928.94375	....	959.94375
928.88125	....	959.88125		928.95625	....	959.95625
928.89375	....	959.89375		928.96875	....	959.96875
928.90625	....	959.90625		928.98125	....	959.98125
928.91875	....	959.91875		928.99375	....	959.99375

Private Radio General Access Pool
(25 kHz bandwidth)

956.2625	.....	956.3125		956.3625	.....	956.4125
956.2875	.....	956.3375		956.3875	.....	956.4375
928.0125	.....	952.0125		928.1875	.....	952.1875
928.0375	.....	952.0375		928.2125	.....	952.2125
928.0625	.....	952.0625		928.2375	.....	952.2375
928.0875	.....	952.0875		928.2625	.....	952.2625
928.1125	.....	952.1125		928.2875	.....	952.2875
928.1375	.....	952.1375		928.3125	.....	952.3125
928.1625	.....	952.1625		928.3375	.....	952.3375

(12.5 kHz bandwidth)

956.25625	....	956.30625		956.35625	....	956.40625
956.26875	....	956.31875		956.36875	....	956.41875
956.28125	....	956.33125		956.38125	....	956.43125
956.29375	....	956.34375		956.39375	....	956.44375
928.00625	....	952.00625		928.18125	....	952.18125
928.01875	....	952.01875		928.19375	....	952.19375
928.03125	....	952.03125		928.20625	....	952.20625
928.04375	....	952.04375		928.21875	....	952.21875
928.05625	....	952.05625		928.23125	....	952.23125
928.06875	....	952.06875		928.24375	....	952.24375
928.08125	....	952.08125		928.25625	....	952.25625
928.09375	....	952.09375		928.26875	....	952.26875
928.10625	....	952.10625		928.28125	....	952.28125
928.11875	....	952.11875		928.29375	....	952.29375
928.13125	....	952.13125		928.30625	....	952.30625
928.14375	....	952.14375		928.31875	....	952.31875
928.15625	....	952.15625		928.33125	....	952.33125
928.16875	....	952.16875		928.34375	....	952.34375

Private Radio Power Pool
(25 kHz bandwidth)

928.3625	.....	952.3625		928.6125	.....	952.6125
928.3875	.....	952.3875		928.6375	.....	952.6375
928.4125	.....	952.4125		928.6625	.....	952.6625
928.4375	.....	952.4375		928.6875	.....	952.6875
928.4625	.....	952.4625		928.7125	.....	952.7125
928.4875	.....	952.4875		928.7375	.....	952.7375
928.5125	.....	952.5125		928.7625	.....	952.7625
928.5375	.....	952.5375		928.7875	.....	952.7875
928.5625	.....	952.5625		928.8125	.....	952.8125
928.5875	.....	952.5875		928.8375	.....	952.8375

(12.5 kHz bandwidth)

928.35625	....	952.35625		928.60625	....	952.60625
928.36875	....	952.36875		928.61875	....	952.61875
928.38125	....	952.38125		928.63125	....	952.63125
928.39375	....	952.39375		928.64375	....	952.64375
928.40625	....	952.40625		928.65625	....	952.65625
928.41875	....	952.41875		928.66875	....	952.66875
928.43125	....	952.43125		928.68125	....	952.68125
928.44375	....	952.44375		928.69375	....	952.69375
928.45625	....	952.45625		928.70625	....	952.70625

928.46875	....	952.46875		928.71875	....	952.71875
928.48125	....	952.48125		928.73125	....	952.73125
928.49375	....	952.49375		928.74375	....	952.74375
928.50625	....	952.50625		928.75625	....	952.75625
928.51875	....	952.51875		928.76875	....	952.76875
928.53125	....	952.53125		928.78125	....	952.78125
928.54375	....	952.54375		928.79375	....	952.79375
928.55625	....	952.55625		928.80625	....	952.80625
928.56875	....	952.56875		928.81875	....	952.81875
928.58125	....	952.58125		928.83125	....	952.83125
928.59375	....	952.59375		928.84375	....	952.84375

Public, Private, Government Shared Pool
(12.5 kHz bandwidth)

932.00625	....	941.00625		932.25625	....	941.25625
932.01875	....	941.01875		932.26875	....	941.26875
932.03125	....	941.03125		932.28125	....	941.28125
932.04375	....	941.04375		932.29375	....	941.29375
932.05625	....	941.05625		932.30625	....	941.30625
932.06875	....	941.06875		932.31875	....	941.31875
932.08125	....	941.08125		932.33125	....	941.33125
932.09375	....	941.09375		932.34375	....	941.34375
932.10625	....	941.10625		932.35625	....	941.35625
932.11875	....	941.11875		932.36875	....	941.36875
932.13125	....	941.13125		932.38125	....	941.38125
932.14375	....	941.14375		932.39375	....	941.39375
932.15625	....	941.15625		932.40625	....	941.40625
932.16875	....	941.16875		932.41875	....	941.41875
932.18125	....	941.18125		932.43125	....	941.43125
932.19375	....	941.19375		932.44375	....	941.44375
932.20625	....	941.20625		932.45625	....	941.45625
932.21875	....	941.21875		932.46875	....	941.46875
932.23125	....	941.23125		932.48125	....	941.48125
932.24375	....	941.24375		932.49375	....	941.49375

UHF Channels in Specified Urban Areas
Boston

470.0125	.....	473.0125		482.0125	.....	485.0125
470.0375	.....	473.0375		482.0375	.....	485.0375
470.0625	.....	473.0625		482.0625	.....	485.0625
470.0875	.....	473.0875		482.0875	.....	485.0875
470.1125	.....	473.1125		482.1125	.....	485.1125
470.1375	.....	473.1375		482.1375	.....	485.1375
470.1625	.....	473.1625		482.1625	.....	485.1625
470.1875	.....	473.1875		482.1875	.....	485.1875
470.2125	.....	473.2125		482.2125	.....	485.2125
470.2375	.....	473.2375		482.2375	.....	485.2375
470.2625	.....	473.2625		482.2625	.....	485.2625
470.2875	.....	473.2875		482.2875	.....	485.2875

Chicago, Cleveland

470.0125	.....	473.0125		476.0125	.....	479.0125
470.0375	.....	473.0375		476.0375	.....	479.0375
470.0625	.....	473.0625		476.0625	.....	479.0625
470.0875	.....	473.0875		476.0875	.....	479.0875
470.1125	.....	473.1125		476.1125	.....	479.1125
470.1375	.....	473.1375		476.1375	.....	479.1375
470.1625	.....	473.1625		476.1625	.....	479.1625
470.1875	.....	473.1875		476.1875	.....	479.1875
470.2125	.....	473.2125		476.2125	.....	479.2125
470.2375	.....	473.2375		476.2375	.....	479.2375
470.2625	.....	473.2625		476.2625	.....	479.2625
470.2875	.....	473.2875		476.2875	.....	479.2875

New York-Northeastern New Jersey

470.0125	.....	470.1625		476.0125	.....	476.1625
470.0375	.....	470.1875		476.0375	.....	476.1875
470.0625	.....	470.2125		476.0625	.....	476.2125
470.0875	.....	470.2375		476.0875	.....	476.2375
470.1125	.....	470.2625		476.1125	.....	476.2625
470.1375	.....	470.2875		476.1375	.....	476.2875

Dallas-Forth Worth

482.0125	.....	482.1625		485.0125	.....	485.1625
482.0375	.....	482.1875		485.0375	.....	485.1875
482.0625		482.2125		485.0625		485.2125
482.0875		482.2375		485.0875		485.2375
482.1125		482.2625		485.1125		485.2625

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482.1375	482.2875	485.1375	485.2875
Detroit			
476.0125	479.0125	482.0125	485.0125
476.0375	479.0375	482.0375	485.0375
476.0625	479.0625	482.0625	485.0625
476.0875	479.0875	482.0875	485.0875
476.1125	479.1125	482.1125	485.1125
476.1375	479.1375	482.1375	485.1375
476.1625	479.1625	482.1625	485.1625
476.1875	479.1875	482.1875	485.1875
476.2125	479.2125	482.2125	485.2125
476.2375	479.2375	482.2375	485.2375
476.2625	479.2625	482.2625	485.2625
476.2875	479.2875	482.2875	485.2875
Houston			
488.1625	491.1625	488.2375	491.2375
488.1875	491.1875	488.2625	491.2625
488.2125	491.2125	488.2875	491.2875
Los Angeles			
470.0125	473.0125	506.0625	509.0625
470.0375	473.0375	506.0875	509.0875
506.0125	509.0125	506.1125	509.1125
506.0375	509.0375		
Miami			
470.0125	470.1625	473.0125	473.1625
470.0375	470.1875	473.0375	473.1875
470.0625	470.2125	473.0625	473.2125
470.0875	470.2375	473.0875	473.2375
470.1125	470.2625	473.1125	473.2625
470.1375	470.2875	473.1375	473.2875
Philadelphia			
500.0125	503.0125	506.0125	509.0125
500.0375	503.0375	506.0375	509.0375
500.0625	503.0625	506.0625	509.0625
500.0875	503.0875	506.0875	509.0875
500.1125	503.1125	506.1125	509.1125
500.1375	503.1375	506.1375	509.1375
500.1625	503.1625	506.1625	509.1625
500.1875	503.1875	506.1875	509.1875
500.2125	503.2125	506.2125	509.2125
500.2375	503.2375	506.2375	509.2375
500.2625	503.2625	506.2625	509.2625
500.2875	503.2875	506.2875	509.2875
Pittsburgh			
470.0125	470.1625	473.0125	473.1625
470.0375	470.1875	473.0375	473.1875
470.0625	470.2125	473.0625	473.2125
470.0875	470.2375	473.0875	473.2375
470.1125	470.2625	473.1125	473.2625
470.1375	470.2875	473.1375	473.2875
San Francisco			
482.0125	485.0125	488.0125	491.0125
482.0375	485.0375	488.0375	491.0375
482.0625	485.0625	488.0625	491.0625
482.0875	485.0875	488.0875	491.0875
482.1125	485.1125	488.1125	491.1125
482.1375	485.1375	488.1375	491.1375
482.1625	485.1625	488.1625	491.1625
482.1875	485.1875	488.1875	491.1875
482.2125	485.2125	488.2125	491.2125
482.2375	485.2375	488.2375	491.2375
482.2625	485.2625	488.2625	491.2625
482.2875	485.2875	488.2875	491.2875
Washington, DC			
488.0125	491.0125	494.0125	497.0125
488.0375	491.0375	494.0375	497.0375
488.0625	491.0625	494.0625	497.0625
488.0875	491.0875	494.0875	497.0875
488.1125	491.1125	494.1125	497.1125
488.1375	491.1375	494.1375	497.1375
488.1625	491.1625	494.1625	497.1625
488.1875	491.1875	494.1875	497.1875

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488.2125	491.2125	494.2125	497.2125
488.2375	491.2375	494.2375	497.2375
488.2625	491.2625	494.2625	497.2625
488.2875	491.2875	494.2875	497.2875

[59 FR 59507, Nov. 17, 1994; 60 FR 9890, Feb. 22, 1995, as amended at 61 FR 54099, Oct. 17, 1996; 65 FR 17448, Apr. 3, 2000]

§ 22.623 System configuration.

This section requires a minimum configuration for point-to-multipoint systems using the channels listed in § 22.621.

(a) *928–960 MHz*. The channels may be assigned, individually or paired, only to fixed transmitters in a system that controls at least four public mobile base transmitters that transmit on the same channel. If a 932–933 MHz channel and a 941–942 MHz channel are assigned as a pair, the 941–942 MHz channel must be assigned only to control transmitters; the 932–933 MHz channel may be assigned to control or fixed relay transmitters.

(b) *470–512 MHz*. These channels may be assigned only individually (unpaired), to control transmitters that directly control at least four public mobile base transmitters that transmit on the same channel. Fixed relay transmitters are not authorized.

(c) *Selection and assignment*. The FCC selects and assigns a channel when granting applications for authorization to operate a new station to transmit in the 470–512, 932–933 and 941–942 MHz frequency ranges. Applicants having a preference may request the assignment of a specific channel or channel pair, but the FCC may in some cases be unable to satisfy such requests.

§ 22.625 Transmitter locations.

This section governs where point-to-multipoint transmitters on the channels listed in § 22.621 may be located.

(a) *928–960 MHz*. In this frequency range, the required minimum distance separation between co-channel fixed transmitters is 113 kilometers (70 miles).

(b) *470–512 MHz*. The purpose of the rule in paragraph (b)(1) of this section is to define the areas in which the 470–512 MHz channels are allocated for public mobile use. The purpose of the rules in paragraphs (b)(2) and (b)(3) of this section is to reduce the likelihood that