

## 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
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 interference to television reception from public mobile operations on these channels will occur.

(1) *Control transmitter locations*. Control transmitter locations must be within 80 kilometers (50 miles) of the designated locations in this paragraph.

Urban area	N. latitude	W. longitude
Boston, MA .....	42°21'24.4"	71°03'22.2"
Chicago, IL .....	41°52'28.1"	87°38'22.2"
Cleveland, OH .....	41°29'51.2"	81°41'49.5"
Dallas, TX .....	32°47'09.5"	96°47'38.0"
Detroit, MI .....	42°19'48.1"	83°02'56.7"
Houston, TX .....	29°45'26.8"	95°21'37.8"
Los Angeles, CA .....	34°03'15.0"	118°14'31.3"
Miami, FL .....	25°46'38.6"	80°11'31.2"
New York, NY .....	40°45'6.4"	73°59'37.5"
Philadelphia, PA .....	39°56'58.4"	75°09'19.6"
Pittsburgh, PA .....	40°26'19.2"	79°59'59.2"
San Francisco-Oakland, CA ..	37°46'38.7"	122°24'43.9"
Washington, DC .....	38°53'51.4"	77°00'31.9"

NOTE: Coordinates are referenced to North American Datum 1983 (NAD 83).

(2) *Protection from intermodulation interference*. Control transmitter locations must be at least 1.6 kilometers (1 mile) from the main transmitter locations of all TV stations transmitting on TV channels separated by 2, 3, 4, 5, 7, or 8 TV channels from the TV channel containing the frequencies on which the control station will transmit. This requirement is intended to reduce the likelihood of intermodulation interference.

(3) *Co-channel protection from control transmitters with high antennas*. This paragraph applies only to control transmitters that utilize an antenna height of more than 152 meters (500 feet) above average terrain. The distance between the location of such a control transmitter and the applicable protected TV station location specified