

**§ 22.563**

Base	Mobile	Base	Mobile
152.51 .....	157.77	152.78 .....	158.04
152.54 .....	157.80	152.81 .....	158.07

**UHF Channels**

454.025 .....	459.025	454.350 .....	459.350
454.050 .....	459.050	454.375 .....	459.375
454.075 .....	459.075	454.400 .....	459.400
454.100 .....	459.100	454.425 .....	459.425
454.125 .....	459.125	454.450 .....	459.450
454.150 .....	459.150	454.475 .....	459.475
454.175 .....	459.175	454.500 .....	459.500
454.200 .....	459.200	454.525 .....	459.525
454.225 .....	459.225	454.550 .....	459.550
454.250 .....	459.250	454.575 .....	459.575
454.275 .....	459.275	454.600 .....	459.600
454.300 .....	459.300	454.625 .....	459.625
454.325 .....	459.325	454.650 .....	459.650

[59 FR 59507, Nov. 17, 1994; 60 FR 9889, Feb. 22, 1995, as amended at 62 FR 11636, Mar. 12, 1997]

**§ 22.563 Provision of rural radiotelephone service upon request.**

Channels in the frequency ranges 152.03–152.81, 157.77–158.67, 454.025–454.650 and 459.025–459.650 MHz, inclusive, are also allocated for assignment in the Rural Radiotelephone Service. Stations in the Paging and Radiotelephone Service that provide two-way public mobile service on these channels must also provide rural radiotelephone service upon request from a subscriber.

**§ 22.565 Transmitting power limits.**

The transmitting power of base, mobile and fixed transmitters operating on the channels listed in §22.561 must not exceed the limits in this section.

(a) *Maximum ERP.* The effective radiated power (ERP) of base and fixed transmitters must not exceed the applicable limits in this paragraph under any circumstances.

Frequency range (MHz)	Maximum ERP (watts)
152–153 .....	1400
157–159 .....	150
454–455 .....	3500
459–460 .....	150

(b) *Basic power limit.* Except as provided in paragraph (d) of this section, the ERP of base transmitters must not exceed 500 Watts.

(c) *Height-power limits.* Except as provided in paragraph (d) of this section,

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the ERP of base transmitters must not exceed the amount that would result in an average distance to the service contour of 41.6 kilometers (26 miles) for VHF channels or 30.7 kilometers (19 miles) for UHF channels. The average distance to the service contour is calculated by taking the arithmetic mean of the distances determined using the procedures specified in §22.567 for the eight cardinal radial directions, excluding cardinal radial directions for which 90% or more of the distance so calculated is over water.

(d) *Encompassed interfering contour areas.* Base transmitters are exempt from the basic power and height-power limits of this section if the area within their interfering contours is totally encompassed by the interfering contours of operating co-channel based transmitters controlled by the same licensee. For the purpose of this paragraph, operating transmitters are authorized transmitters that are providing service to subscribers.

(e) *Adjacent channel protection.* The ERP of base and fixed transmitters must not exceed 500 Watts if they transmit on channel 454.025 MHz and are located less than 7 kilometers (4.3 miles) from any Private Radio Services station receiving on adjacent channel 454.0000 MHz.

(f) *Mobile transmitters.* The transmitter output power of mobile transmitters must not exceed 60 watts.

(g) *Other transmitters.* The ERP of dispatch and auxiliary test transmitters must not exceed 100 watts.

**§ 22.567 Technical channel assignment criteria.**

The rules in this section establish technical assignment criteria for the channels listed in §22.561. The criteria in paragraphs (a) through (f) of this section permit channel assignments to be made in a manner such that reception by public mobile receivers of signals from base transmitters, within the service area of such base transmitters, is protected from interference caused by the operation of independent co-channel base and fixed transmitters in the Paging and Radiotelephone Service and central office stations, including