

§ 22.571

where:

d is the radial distance in kilometers

h is the radial antenna HAAT in meters

p is the radial ERP in Watts

Whenever the actual HAAT is less than 30 meters (98 feet), 30 must be used as the value for h in the above formula. The value used for p in the above formula must not be less than 27 dB less than the maximum ERP in any direction, or 0.1 Watt, whichever is more.

(h) *Assignment of mobile channels to base or fixed transmitters.* Mobile channels may be assigned to base or fixed transmitters if the following criteria are met:

(1) The paired base channel, as designated in § 22.561, is assigned to base transmitters in the same geographical area operated by the same licensee.

(2) The authorization is granted subject to the condition that no interference be caused to fixed receivers in use on or prior to the date of the grant.

§ 22.571 Responsibility for mobile stations.

Mobile stations that are subscribers in good standing to a two-way service in the Paging and Radiotelephone Service, when receiving service from that station, are considered to be operating under the authorization of that station. Licensees are responsible for exercising effective operational control over mobile stations receiving service through their stations. Mobile stations that are subscribers in good standing to a two-way service in the Paging and Radiotelephone Service, while receiving service from a different station, are considered to be operating under the authorization of such different station. The licensee of such different station is responsible, during such temporary period, for exercising effective operational control over such mobile stations as if they were subscribers to it.

§ 22.573 Use of base transmitters as repeaters.

As an additional function, base transmitters may be used as repeaters. Licensees must be able to turn the base transmitter on or off from the control point regardless of whether a subscriber-operated transmitter is transmitting.

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§ 22.575 Use of mobile channel for remote control of station functions.

Carriers may remotely control station functions (e.g. shut down or reactivate base transmitters, turn aviation obstruction warning lights on or off, etc.) using a control transmitter operating on a mobile channel, subject to the conditions in this section and in § 22.567(h).

(a) The control transmitter must be capable of overriding transmissions from subscriber-operated transmitters if necessary. Subscriber-operated transmitters must not be capable of being used to deliberately or accidentally prevent the licensee from controlling the station.

(b) The licensee must implement measures designed to prevent station functions from being controlled by persons not authorized by the licensee to control the station.

(c) The control transmitter location must be within the composite service contour of the licensee's authorized station on the paired base channel.

§ 22.579 Operation of mobile transmitters across U.S.-Canada border.

Mobile stations licensed by Canada may receive two-way service while in the United States from stations licensed under this part, after authorization has been granted by the FCC. Mobile stations that normally operate under the authority of base stations licensed under this part may receive two-way service while in Canada from stations licensed under this part or by Canada, upon authorization by Canada.

§ 22.589 One-way or two-way application requirements.

In addition to information required by subparts B and D and § 22.529, applications for authorization to operate a paging transmitter on the channels listed in § 22.531, other than applications for a paging geographic area authorization, must contain the applicable supplementary information described in this section.

(a) *Interference exhibit.* Except as provided in paragraph (b) of this section, an exhibit demonstrating compliance with § 22.567 with regard to protected transmitters is required. This exhibit must:

(1) For UHF channels, identify each protected transmitter located within 108 kilometers (67 miles) of the proposed transmitter in directions in which the distance to the interfering contour is 76.4 kilometers (47.5 miles) or less, and within 178 kilometers (111 miles) of the proposed transmitter in directions in which the distance to the interfering contour exceeds 76.4 kilometers (47.5 miles); and identify each protected Basic Exchange Telephone Radio System central office transmitter in the Rural Radiotelephone Service within 231 kilometers (144 miles),

(2) For VHF channels, identify each protected transmitter located within 135 kilometers (84 miles) of the proposed transmitter in directions in which the distance to the interfering contour is 93.3 kilometers (58 miles) or less, and within 178 kilometers (111 miles) of the proposed transmitter in directions in which the distance to the interfering contour exceeds 93.3 kilometers (58 miles).

(3) For each protected transmitter identified, show the results of distance calculations indicating that there would be no overlap of service and interfering contours, or alternatively, indicate that the licensee of or applicant for the protected transmitter and/or the applicant, as required, have agreed in writing to accept any interference resulting from operation of the proposed transmitter.

(b) *Encompassment exhibit.* An exhibit showing that the area within the interfering contour of the proposed transmitter would be totally encompassed by interfering contours of operating co-channel base transmitters controlled by the applicant is required for applications to operate a transmitter with ERP exceeding the basic power and height-power limits of § 22.565. This encompassment exhibit may substitute for the interference exhibit required in paragraph (a) of this section.

[59 FR 59507, Nov. 17, 1994, as amended at 62 FR 11636, Mar. 12, 1997]

POINT-TO-POINT OPERATION

§ 22.591 Channels for point-to-point operation.

The following channels are allocated for assignment to fixed transmitters that support other 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.

| VHF Channels | | | |
|--------------|-------|-------|-------|
| 72.02 | 72.36 | 72.80 | 75.66 |
| 72.04 | 72.38 | 72.82 | 75.68 |
| 72.06 | 72.40 | 72.84 | 75.70 |
| 72.08 | 72.42 | 72.86 | 75.72 |
| 72.10 | 72.46 | 72.88 | 75.74 |
| 72.12 | 72.50 | 72.90 | 75.76 |
| 72.14 | 72.54 | 72.92 | 75.78 |
| 72.16 | 72.58 | 72.94 | 75.80 |
| 72.18 | 72.62 | 72.96 | 75.82 |
| 72.20 | 72.64 | 72.98 | 75.84 |
| 72.22 | 72.66 | 75.42 | 75.86 |
| 72.24 | 72.68 | 75.46 | 75.88 |
| 72.26 | 72.70 | 75.50 | 75.90 |
| 72.28 | 72.72 | 75.54 | 75.92 |
| 72.30 | 72.74 | 75.58 | 75.94 |
| 72.32 | 72.76 | 75.62 | 75.96 |
| 72.34 | 72.78 | 75.64 | 75.98 |
| 72.10 | 72.46 | 72.88 | 75.74 |
| 72.12 | 72.50 | 72.90 | 75.76 |
| 72.14 | 72.54 | 72.92 | 75.78 |
| 72.16 | 72.58 | 72.94 | 75.80 |
| 72.18 | 72.62 | 72.96 | 75.82 |
| 72.20 | 72.64 | 72.98 | 75.84 |
| 72.22 | 72.66 | 75.42 | 75.86 |
| 72.24 | 72.68 | 75.46 | 75.88 |
| 72.26 | 72.70 | 75.50 | 75.90 |
| 72.28 | 72.72 | 75.54 | 75.92 |
| 72.30 | 72.74 | 75.58 | 75.94 |
| 72.32 | 72.76 | 75.62 | 75.96 |
| 72.34 | 72.78 | 75.64 | 75.98 |

UHF Channels—State of Hawaii

| | | | |
|--------------|---------|--------------|---------|
| 488.250 | 491.250 | 489.750 | 492.750 |
| 488.750 | 491.750 | 490.250 | 493.250 |
| 489.250 | 492.250 | 490.750 | 493.750 |

(a) The 72–76 MHz channels may be assigned under developmental authority pursuant to the requirements of § 22.413. The 72–76 MHz channels may also be used in point-to-multipoint configurations. The 72–76 MHz channels are also allocated for assignment in the Private Radio Services (see part 90 of this chapter).

(b) [Reserved]

(c) Channels in the frequency ranges 488.250–490.750 and 491.250–493.750 MHz may be assigned only to inter-island