

## Fire Radio Service Frequency Table (8000)

No. 9 Sept. 1995

**§90.21 Fire Radio Service.**

(a) *Eligibility.* Any territory, possession, state, county, city, town, or similar governmental entity, and persons or organizations charged with specific fire protection activities are eligible to hold authorizations in the Fire Radio Service to operate radio stations for transmission of communications essential to official fire activities of the licensee. Applications from persons or organizations other than governmental entities must be accompanied by a statement from the governmental entity having legal jurisdiction over the area to be served, supporting the request.

(b) *Frequencies available.* The following table indicates frequencies available for assignment to stations in the Fire Radio Service, together with the class of station(s) to which they are normally assigned and the specific assignment limitations which are explained in paragraph (c) of this section:

*Fire Radio Service Frequency Table*

Frequency or band	Class of station(s)	Limitations
Kilohertz: 1630 .....	Base or mobile .....	.....
Megahertz:		
23.42 .....	Mobile or fixed .....	I
23.44 .....	Base or mobile .....	.....
23.46 .....	Mobile .....	.....

Fire Radio Service Frequency Table—  
Continued

Frequency or band	Class of station(s)	Limitations
33.48	Base or mobile	
33.50	Mobile	
33.52	Base or mobile	
33.54	Mobile	
33.56	Base or mobile	
33.58	Mobile	
33.60	Base or mobile	
33.62	Mobile	
33.64	Base or mobile	
33.66	Mobile	
33.68	Base or mobile	
33.70	do	
33.72	do	
33.74	do	
33.76	do	
33.78	do	
33.80	do	
33.82	do	
33.84	do	
33.86	do	
33.88	do	
33.90	do	
33.92	do	
33.94	do	
33.96	do	
33.98	do	
45.88	do	2
46.06	do	
46.08	do	
46.10	do	
46.12	do	
46.14	do	
46.16	do	
46.18	do	
46.20	do	
46.22	Mobile	
46.24	do	
46.26	do	
46.28	do	
46.30	Mobile or fixed	1
46.32	Mobile	
46.34	do	
46.36	Base or mobile	
46.38	do	
46.40	do	
46.42	do	
46.44	do	
46.46	do	
46.48	do	
46.50	do	
72.00 to 75.00	Operational fixed	3
72.44	Mobile	19
72.48	Do	19
72.52	Do	19
72.56	Do	19
72.60	Do	19
75.44	Do	19
75.48	Do	19
75.52	Do	19
75.56	Do	19
75.60	Do	19
150-170	Base or mobile	16
153.77	Mobile	
153.83	Mobile	18
153.890	Mobile	
153.950	do	
154.010	do	
154.070	do	4
154.130	Base or mobile	4
154.145	do	4

Fire Radio Service Frequency Table—  
Continued

Frequency or band	Class of station(s)	Limitations
154.160	do	4
154.175	do	4
154.190	do	4
154.205	do	4
154.220	do	4
154.235	do	4
154.250	do	4
154.265	do	2, 4
154.280	do	2, 4
154.295	do	2, 4
154.310	do	4
154.325	do	4
154.340	do	4
154.355	do	4
154.370	do	4
154.385	do	4
154.400	do	4
154.415	do	4
154.430	do	4
154.445	do	4
166.250	do	5
169-172	Mobile	14
170.150	Base or mobile	5
220 to 222	Base and mobile	(17)
450-470	Fixed	6
453.000	Base or mobile	7
453.100	do	7
453.160	do	7
453.200	do	7
453.250	do	7
453.300	do	7
453.350	do	7
453.400	do	7
453.450	do	7
453.500	do	7
453.550	do	7
453.600	do	7
453.650	do	7
453.700	do	7
453.750	do	7
453.800	do	7
453.850	do	7
453.900	do	7
453.950	do	7
458.050	Mobile	7
458.100	do	7
458.150	do	7
458.200	do	7
458.250	do	7
458.300	do	7
458.350	do	7
458.400	do	7
458.450	do	7
458.500	do	7
458.550	do	7
458.600	do	7
458.650	do	7
458.700	do	7
458.750	do	7
458.800	do	7
458.850	do	7
458.900	do	7
458.950	do	7
460.525	Base or Mobile	8
460.550	do	8
460.575	do	
460.600	do	
460.625	do	
465.525	Mobile	8
465.550	do	8

Fire Radio Service Frequency Table—  
Continued

Frequency or band	Class of station(s)	Limitations
465.575	do	
465.600	do	
465.625	do	
470-512	Base or mobile	9
806-824	Mobile	110
851 to 869	Base or mobile	10
928 and above	Operational-fixed	11
929 to 930	Base only	15
1427 to 1435	Operational-fixed, base or mobile	12
2450 to 2500	Base or mobile	13
10,550 to 10,680*	do	

\*The frequencies in the band 10.55-10.68 GHz are available for Digital Termination Systems and for associated intermodal links in the Point-to-Point Microwave Radio Service. No new licenses will be issued under this subpart but current licenses will be renewed.

(c) Explanation of assignment limitations appearing in the frequency table of paragraph (b) of this section:

(1) The maximum output power of any transmitter authorized to operate on this frequency shall not exceed 10 watts.

(2) This frequency is reserved for assignment to stations in this service for intersystem operations only and these operations must be primarily base-mobile communications.

(3) The frequencies available for use at operational fixed stations in the band 72-76 MHz are listed in §90.257(a)(1). These frequencies are shared with other services and are available only in accordance with the provisions of §90.257.

(4) This frequency is not available for assignment to stations in this service in Puerto Rico or the Virgin Islands.

(5) This frequency may be assigned to stations in the Fire Radio Service, only at points within 240 km. (150 mi.) of New York, NY.

(6) The requirements for secondary fixed use of frequencies in this band are set forth in §90.251.

(7) This frequency is available in this service on a shared basis with all other Public-Safety Radio Services.

(8) This frequency is shared with the Police and Special Emergency Radio Services.

(9) Subpart L contains rules for assignment of frequencies in the 470-512 MHz band.

(10) Subpart S contains rules for assignment of frequencies in the 806-824 MHz and 851-869 MHz bands.

(11) Assignment of frequencies above 928 MHz for operational-fixed stations is governed by part 94 of this chapter.

(12) This frequency band is available to stations in this service subject to the provisions of §90.259.

(13) Available only on a shared basis with stations in other services, and subject to no protection from interference due to the operation of industrial, scientific, or medical (ISM) devices. In the 2483.5-2500 MHz band, no applications for new stations or modification to existing stations to increase the number of transmitters will be accepted. Existing licensees as of July 25, 1985, or on a subsequent date following as a result of submitting an application for license on or before July 25, 1985, are grandfathered and their operation is co-primary with the Radiodetermination Satellite Service.

(14) Frequencies in this band will be assigned for low power wireless microphones in accordance with the provisions of §90.265.

(15) Frequencies in this band are available only for one-way paging operations in accordance with §90.494.

(16) Rules concerning the use of this band for narrowband operations are set forth in §90.271.

(17) Subpart T contains rules for assignment of frequencies in the 220-222 MHz band.

(18) The maximum output power of any transmitter authorized to operate on this frequency shall not exceed 100 watts. Stations authorized prior to July 15, 1992 for fixed operations will be permitted to continue such operations, but at a maximum transmitter power output of 10 watts.

(19) This frequency is available to the Fire Radio Service for fire call box operations on a shared basis in the Manufacturers, Forest Products, Special Industrial, Railroad, and Fire Radio Services and interservice coordination is required. All communications on this frequency must be conducted with persons or organizations charged with specific fire protection responsibility. All operations on this frequency are subject to the provisions of §90.257(b).

(d) *Additional frequencies available.* In addition to the frequencies shown in the frequency table of this section, the

following frequencies are available in this service. (See also §90.253.)

(1) Substitution of frequencies available below 25 MHz may be made in accordance with the provisions of §90.263.

(2) [Reserved]

(3) Frequencies in the band 73.0-74.6 MHz may be assigned to stations authorized their use on or before December 1, 1961, but no new stations will be authorized in this band, nor will expansion of existing systems be permitted. (See also §90.257.)

(4) The frequency bands 31.99 to 32.00 MHz, 33.00 to 33.01 MHz, 33.99 to 34.00 MHz, 37.93 to 38.00 MHz, 39.00 to 39.01 MHz, 39.99 to 40.00 MHz and 42.00 to 42.01 MHz, are available for assignment for developmental operation subject to the provisions of subpart Q.

(5) Frequencies in the 421-430 MHz band are available in the Detroit, Cleveland, and Buffalo areas in accordance with the rules in §§90.273 through 90.281.

(e) *Limitation on number of frequencies assignable.* Normally only two frequencies or pairs of frequencies in the paired frequency mode of operation, will be assigned for mobile service operations by a single applicant in a given area. The assignment of an additional frequency or pair of frequencies will be made only upon a satisfactory showing of need, except that:

(1) Additional frequencies above 25 MHz may be assigned in connection with the operation of mobile repeaters in accordance with §90.247, notwithstanding this limitation.

(2) The assignment of an additional frequency or frequencies may be authorized notwithstanding this limitation for common, intra-county, intra-fire-district, or intrastate fire coordination operations. The frequency or frequencies requested must be in accordance with a frequency utilization plan, for the area involved, on file with the Commission.

(3) Frequencies in the 25-50 MHz, 150-170 MHz, and 450-512 MHz bands, and the frequency bands 903-904 MHz, 904-912 MHz, 918-926 MHz, and 926-927 MHz may be assigned for the operation of Automatic Vehicle Monitoring (AVM) systems in accordance with §90.239, notwithstanding this limitation.

(4) A licensee of a radio station in this service may operate radio units for the purpose of determining distance, direction, speed, or position by means of a radiolocation device on any frequency available for radiolocation purposes without specific authorization from the Commission, provided type accepted equipment or equipment authorized pursuant to §90.203(b) (4) and (5) is used and all other rule requirements are satisfied.

(Secs. 4, 303, 307, 48 Stat., as amended, 1066, 1082, 1083; 47 U.S.C. 154, 303, 307; sec. 4(l) and 308(r), Communications Act of 1934, as amended, §§0.131 and 0.131 of the Commission's Rules and 5 U.S.C. 553 (b)(3)(B) and (d)(3))

(43 FR 54791, Nov. 22, 1978)

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting §90.23, see the List of CFR Sections Affected in the Finding Aids section of this volume.

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