

* * * * *

(c) * * *

(43) Licensees as of August 18, 1995 who operate systems that are 2.5 kHz removed from regularly assignable frequencies may continue to operate on a secondary, non-interference basis after August 1, 2003.

12. Section 90.69 is amended by revising the entry for 150 to 170 MHz in the frequency table in paragraph (b) and adding limitation (16) in paragraph (c) to read as follows:

§ 90.69 Film and Video Production Radio Service.

(b) * * *

Frequency or band	Class of station(s)	Limitations
* * *		
Megahertz:		
* * *		
150 to 170	Base or Mobile .	15, 16

* * * * *

(c) * * *

(16) Licensees as of August 18, 1995 who operate systems that are 2.5 kHz removed from regularly assignable frequencies may continue to operate on a secondary, non-interference basis after August 1, 2003.

13. Section 90.73 is amended by revising the entry for 150 to 170 MHz in the frequency table in paragraph (c) and adding limitation (42) in paragraph (d) to read as follows:

§ 90.73 Special Industrial Radio Service.

(c) * * *

Frequency or band	Class of station(s)	Limitations
* * *		
Megahertz:		
* * *		
150 to 170	Base or Mobile .	39, 42

* * * * *

(d) * * *

(42) Licensees as of August 18, 1995 who operate systems that are 2.5 kHz removed from regularly assignable frequencies may continue to operate on a secondary, non-interference basis after August 1, 2003.

14. Section 90.75 is amended by revising the entries for 150 to 170 MHz, 150.830 MHz, 150.920 MHz, 151.070 MHz, 151.190 MHz, 151.310 MHz, 152.480 MHz, 157.740 MHz, 460.6625 MHz, 460.6875 MHz, 460.7125 MHz, 460.7375 MHz, 460.7625 MHz, 460.7875 MHz, 460.8125 MHz, 460.8375 MHz, 460.8625 MHz, 460.8875 MHz, 462.750 MHz, 462.775 MHz, 462.800 MHz, 462.825 MHz, 462.850 MHz, 462.875 MHz, 462.900 MHz, 462.925 MHz, 462.9375 MHz, 462.94375 MHz, 463.200 MHz, 464.4875 MHz, 464.5125 MHz, 464.5375 MHz, 464.5625 MHz, 464.9875 MHz, 465.0125 MHz, 465.650 MHz, 465.6625 MHz, 465.6875 MHz, 465.7125 MHz, 465.7375 MHz, 465.7625 MHz, 465.7875 MHz, 465.8125 MHz, 465.8375 MHz, 465.8625 MHz, 465.8875 MHz, 469.4875 MHz, 469.5125 MHz, 469.5375 MHz, and 469.5625 MHz, and adding entries for 154.585 MHz and 467.9375 MHz in the table in paragraph (b) and adding limitations (53), (54), and (55) in paragraph (c) to read as follows:

§ 90.75 Business Radio Service.

* * * * *

(b) * * *

Frequency or band	Class of station(s)	Limitations
Megahertz:		
* * *		
150 to 170	Base or Mobile .	48, 54
* * *		

150.830	Base	8, 10, 12, 49, 55
* * *		
150.920	Base	8, 10, 12, 49, 55
* * *		
151.070	Base	8, 10, 12, 49, 55
* * *		
151.190	Base	8, 10, 12, 49, 55
* * *		
151.310	Base	8, 10, 12, 49, 55
* * *		
152.480	Base	10, 11, 12, 49, 55
* * *		
154.585	do	4, 13, 22, 38, 24
* * *		
157.740	Base	10, 11, 12, 49, 55
* * *		
460.6625	do	2, 15, 24, 25, 26, 53
* * *		
460.6875	do	2, 15, 24, 25, 26, 53
* * *		
460.7125	do	2, 15, 24, 25, 26, 53
* * *		
460.7375	do	2, 15, 24, 25, 26, 53
* * *		
460.7625	do	2, 15, 24, 25, 26, 53
* * *		
460.7875	do	2, 15, 24, 25, 26, 53
* * *		
460.8125	do	2, 15, 24, 25, 26, 53
* * *		
460.8375	do	2, 15, 24, 25, 26, 53
* * *		
460.8625	do	2, 15, 24, 25, 26, 53
* * *		
460.8875	do	2, 15, 24, 25, 26, 53
* * *		
462.750	Base	10, 49, 55
* * *		
462.775	Base	10, 49, 55
* * *		

462.800	Base	10, 49, 55
* * *		
462.825	Base	10, 49, 55
* * *		
462.850	Base	10, 49, 55
* * *		
462.875	Base	10, 49, 55
* * *		
462.900	Base	10, 49, 55
* * *		
462.925	Base	10, 49, 55
462.9375	Mobile	52
462.94375	Base or mobile	46
463.200	do	1, 2, 26
* * *		
464.4875	do	1, 2, 24, 26, 29
* * *		
464.5125	do	1, 2, 24, 26, 29
* * *		
464.5375	do	1, 2, 24, 26, 29
* * *		
464.5625	do	1, 2, 24, 26, 29
* * *		
464.9875	Mobile	52
* * *		
465.0125	Mobile	52
* * *		
465.650	do	2, 4, 25, 26, 31
* * *		
465.6625	do	2, 4, 24, 25, 26, 31, 53
* * *		
465.6875	do	2, 4, 24, 25, 26, 31, 53
* * *		
465.7125	do	2, 4, 24, 25, 26, 31, 53
* * *		
465.7375	do	2, 4, 24, 25, 26, 31, 53
* * *		
465.7625	do	2, 4, 24, 25, 26, 31, 53
* * *		
465.7875	do	2, 4, 24, 25, 26, 31, 53

* * *

465.8125	..... do	..... 2, 4, 24, 25, 26, 31, 53
* * *		
465.8375	..... do	..... 2, 4, 24, 25, 26, 31, 53
* * *		
465.8625	..... do	..... 2, 4, 24, 25, 26, 31, 53
* * *		
465.8875	..... do	..... 2, 4, 24, 25, 26, 31, 53
* * *		
466.0125	..... do	..... 1, 2, 24, 28, 39, 53
* * *		
467.9375	..... do	..... 24, 52
* * *		
469.4875	..... do	..... 1, 2, 24, 26
* * *		
469.5125	..... do	..... 1, 2, 24, 26
* * *		
469.5375	..... do	..... 1, 2, 24, 26
* * *		
469.5625	..... do	..... 1, 2, 24, 26

* * * * *

(c) * * *

(53) This frequency may be used on a secondary, non-interference basis by a hospital or health care institution holding a license to operate a radio station under this part to operate a medical radio telemetry device with an output power not to exceed 20 milliwatts without specific authorization from the Commission.

(54) Licensees as of August 18, 1995 who operate systems that are 2.5 kHz removed from regularly assignable frequencies may continue to operate on a secondary, non-interference basis after August 1, 2003.

(55) One-way paging transmitters on this frequency may operate with an output power of 350 watts.

15. Section 90.79 is amended by revising the entry for 150 to 170 MHz in the frequency table in paragraph (c) and adding limitation (32) in paragraph (d) to read as follows:

§ 90.79 Manufacturers Radio Service.

(c) * * *

Frequency or band	Class of station(s)	Limitations
* * *		
Megahertz:		
* * *		
150 to 170	Base or Mobile .	30, 32
* * * * *		

(d) * * *

(32) Licensees as of August 18, 1995 who operate systems that are 2.5 kHz removed from regularly assignable frequencies may continue to operate on a secondary, non-interference basis after August 1, 2003.

16. Section 90.81 is amended by revising the entry for 150 to 170 MHz in the frequency table in paragraph (c) and adding limitation (19) in paragraph (d) to read as follows:

§ 90.81 Telephone Maintenance Radio Service.

(c) * * *

Frequency or band	Class of station(s)	Limitations
* * *		
Megahertz:		
* * *		
150 to 170	Base or Mobile .	17, 19

* * * * *

(d) * * *

(19) Licensees as of August 18, 1995 who operate systems that are 2.5 kHz removed from regularly assignable frequencies may continue to operate on a secondary, non-interference basis after August 1, 2003.

17. Section 90.89 is amended by revising the entry for 150 to 170 MHz in the frequency table in paragraph (b) and adding limitation (27) in paragraph (c) to read as follows:

§ 90.89 Motor Carrier Radio Service.

(b) * * *

Frequency or band	Class of station(s)	Limitations
* * *		
Megahertz:		
* * *		
150 to 170	Base or Mobile .	24, 27

* * * * *

(c) * * *

(27) Licensees as of August 18, 1995 who operate systems that are 2.5 kHz removed from regularly assignable frequencies may continue to operate on a secondary, non-interference basis after August 1, 2003.

18. Section 90.91 is amended by revising the entry for 150 to 170 MHz in the frequency table in paragraph (b) and adding limitation (25) in paragraph (c) to read as follows:

§ 90.91 Railroad Radio Service.

(b) * * *

Frequency or band	Class of station(s)	Limitations
* * *		
Megahertz:		
* * *		
150 to 170	Base or Mobile .	23, 25
* * * * *		

(c) * * *

(25) Licensees as of August 18, 1995 who operate systems that are 2.5 kHz removed from regularly assignable frequencies may continue to operate on a secondary, non-interference basis after August 1, 2003.

19. Section 90.93 is amended by revising the entry for 150 to 170 MHz in the frequency table in paragraph (b) and adding limitation (20) in paragraph (c) to read as follows:

§ 90.93 Taxicab Radio Service.

(b) * * *

Frequency or band	Class of station(s)	Limitations
* * *		
Megahertz:		
* * *		
150 to 170	Base or Mobile .	18, 20
* * * * *		

(c) * * *

(20) Licensees as of August 18, 1995 who operate systems that are 2.5 kHz removed from regularly assignable frequencies may continue to operate on a secondary, non-interference basis after August 1, 2003.

20. Section 90.95 is amended by revising the entry for 150 to 170 MHz in the frequency table in paragraph (c) and adding limitation (24) in paragraph (d) to read as follows:

§ 90.95 Automobile Emergency Radio Service.

(c) * * *

Frequency or band	Class of station(s)	Limitations
* * *		
Megahertz:		
* * *		
150 to 170	Base or Mobile .	21, 24
* * * * *		

(d) * * *

(24) Licensees as of August 18, 1995 who operate systems that are 2.5 kHz removed from regularly assignable frequencies may continue to operate on a secondary, non-interference basis after August 1, 2003.

21. Section 90.135 is amended by revising paragraphs (a)(2), redesignating existing paragraph (b)(5) as (b)(6), adding a new paragraph (b)(5), revising the first and last sentences in paragraph (d) and revising the first sentence in paragraph (e) to read as follows:

§ 90.135 Modification of license.

(a) * * *

(2) Change in the type of emission, except under the conditions specified in paragraph (b)(5) of this Section.

* * * * *

(b) * * *

(5) Change in the type of emission when:

(i) Operation is in the 150-174 MHz or 421-512 MHz bands; and

(ii) The modification will be for a narrower emission than specified in the current authorization.

* * * * *

(d) In case of a change listed in paragraph (b)(1), (b)(2), or (b)(5) of this section, the licensee must notify the Commission immediately. * * * Licensees whose licenses are due for renewal and who have received the renewal Form 574-R in the mail from the Commission must use the appropriate boxes on that form to notify the Commission of a change listed in paragraph (b)(1), (b)(2), or (b)(5) of this section.

(e) In the case of a change listed in paragraphs (b)(3), (b)(4), and (b)(6) of this section, the licensee must notify the Commission within 30 days of the change. * * *

* * * * *

22. Section 90.173 is amended by revising paragraph (a) to read as follows:

§ 90.173 Policies governing the assignment of frequencies.

(a) The frequencies which ordinarily may be assigned to stations in the services governed by this part are listed in subparts B, C, D, E, and F of this part. Frequencies other than those listed in subparts B, C, D, and E may be assigned in the 150-174 MHz, 421-430 MHz, 450-470 MHz, and 470-512 MHz bands, provided such applications are accompanied by a showing of frequency coordination in accordance with the requirements of Section 90.175 of this Part. Except as otherwise specifically provided in this Part, frequencies assigned to land mobile stations are available on a shared basis only and will not be assigned for the exclusive use of any licensee.

* * * * *

23. Section 90.203 is amended by revising paragraph (j) to read as follows:

§ 90.203 Type acceptance.

* * * * *

(j) Except where otherwise specifically provided for, transmitters operating on frequencies in the 150-174 MHz and 421-512 MHz bands must comply with the following.

(1) Applications for type acceptance received prior to **[30 days after publication in the Federal Register]**, will be granted for equipment with channel bandwidths up to 25 kHz.

(2) Applications for type acceptance received on or after **[30 days after publication in the Federal Register]** will only be granted for equipment with the following channel bandwidths:

(i) 12.5 kHz or less for single bandwidth mode equipment or multi-bandwidth mode equipment with a maximum channel bandwidth of 12.5 kHz.

(ii) 25 kHz for multi-bandwidth mode equipment with a maximum channel bandwidth of 25 kHz if it is capable of operating on channels of 12.5 kHz or less.

(iii) 25 kHz if the equipment meets the efficiency standard of paragraph (j)(3) of this section.

(3) Applications for Part 90 type acceptance of transmitters designed to operate on frequencies in the 150-174 MHz and /or 421-512 MHz bands, received on or after **[30 days after publication in the Federal Register]**, must include a certification that the equipment meets a spectrum efficiency standard of one voice channel per 12.5 kHz of channel bandwidth. Additionally, if the equipment is capable of transmitting data, has transmitter output power greater than 500 mW, and has a channel bandwidth of 6.25 kHz or more, the equipment must be capable of supporting a minimum data rate of 4800 bits per second per 6.25 kHz of channel bandwidth.

(4) Applications for type acceptance received on or after January 1, 2005, except for hand-held transmitters with an output power of two watts or less, type acceptance will only be granted for equipment with the following channel bandwidths:

(i) 6.25 kHz or less for single bandwidth mode equipment.

(ii) 12.5 kHz for multi-bandwidth mode equipment with a maximum channel bandwidth of 12.5 kHz if it is capable of operating on channels of 6.25 kHz or less.

(iii) 25 kHz for multi-bandwidth mode equipment with a maximum channel bandwidth of 25 kHz if it is capable of operating on channels of 6.25 kHz or less.

(iv) Up to 25 kHz if the equipment meets the efficiency standard of paragraph (j)(5) of this section.

(5) Applications for Part 90 type acceptance of transmitters designed to operate on frequencies in the 150-174 MHz and/or 421-512 MHz bands, received on or after January 1, 2005, must include a certification that the equipment meets a spectrum efficiency standard of one voice channel per 6.25 kHz of channel bandwidth. Additionally, if the equipment is capable of transmitting data, has transmitter output power greater than 500 mW, and has a channel bandwidth of 6.25 kHz or more, the equipment must be capable of supporting a minimum data rate of 4800 bits per second per 6.25 kHz of channel bandwidth.

(6) Modification and permissive changes to type acceptance grants.

(i) The Commission's Equipment Authorization Division will not allow adding a multi-mode or narrowband operation capability to single bandwidth mode transmitters, except under the following conditions:

(A) Transmitters that have the inherent capability for multi-mode or narrowband operation allowed in paragraphs (j)(2) and (j)(4) of this section, may have their grant of Type Acceptance modified (reissued) upon demonstrating that the original unit complies with the technical requirements for operation.

(B) New FCC Identifiers will be required to identify equipment that needs to be modified to comply with the requirements of paragraphs (j)(2) and (j)(4) of this section.

(ii) All other applications for modification or permissive changes will be subject to the Rules of Part 2 of this chapter.

(7) Transmitters designed for one-way paging operations will be type accepted with a 25 kHz channel bandwidth and are exempt from the spectrum efficiency requirements of paragraphs (j)(3) and (j)(5) of this section.

(8) The Commission's Equipment Authorization Division may, on a case by case basis, grant type acceptance to equipment with slower data rates than specified in paragraphs

(j)(3) and (j)(5) of this section, provided that a technical analysis is submitted with the application which describes why the slower data rate will provide more spectral efficiency than the standard data rate.

(9) Transmitters used for stolen vehicle recovery on 173.075 MHz must comply with the requirements of Section 90.19(f)(7) of this part.

24. Section 90.205 is amended by revising paragraphs (d)(2) and (g)(2), the last sentence in paragraph (d)(3), and the last sentence in paragraph (g)(3), and adding a new paragraph (n) to read as follows:

§ 90.205 Power and antenna height limits.

* * * * *

(d) * * *

(2) Applications for stations where special circumstances exist that make it necessary to deviate from the ERP and antenna heights in Table 1 will be submitted to the frequency coordinator accompanied by a technical analysis, based upon generally accepted engineering practices and standards, that demonstrates that the requested station parameters will not produce a signal strength in excess of 37 dBu at any point along the edge of the requested service area. The coordinator may then recommend any ERP appropriate to meet this condition.

(3) * * * For base stations with service areas greater than 80 km, all operations 80 km or less from the base station will be on a primary basis and all operations outside of 80 km from the base station will be on a secondary basis and will be entitled to no protection from primary operations.

* * * * *

(g) * * *

(2) Applications for stations where special circumstances exist that make it necessary to deviate from the ERP and antenna heights in Table 2 will be submitted to the frequency coordinator accompanied by a technical analysis, based upon generally accepted engineering practices and standards, that demonstrates that the requested station parameters will not produce a signal strength in excess of 39 dBu at any point along the edge of the requested

service area. The coordinator may then recommend any ERP appropriate to meet this condition.

(3) * * * For base stations with service areas greater than 80 km, all operations 80 km or less from the base station will be on a primary basis and all operations outside of 80 km from the base station will be on a secondary basis and will be entitled to no protection from primary operations.

* * * * *

(n) The output power shall not exceed by more than 20 percent either the output power shown in the Radio Equipment List [available in accordance with § 90.203(a)(1)] for transmitters included in this list or when not so listed, the manufacturer's rated output power for the particular transmitter specifically listed on the authorization.

25. Section 90.207 is amended by revising the introductory text of paragraph (a) and adding the symbol W to the list in paragraphs (a)(1) and (a)(3) to read as follows:

§ 90.207 Types of emissions.

* * * * *

(a) *Most common emission symbols.* For a complete listing of emission symbols allowable under this Part, see § 2.201 of this chapter.

(1) * * *

W - Cases not covered above, in which an emission consists of the main carrier modulated, either simultaneously or in a pre-established sequence, in a combination of two or more of the following modes: amplitude, angle, pulse.

* * * * *

(3) * * *

W - Combination of the above.

* * * * *

26. Section 90.211 is amended by revising paragraph (a) to read as follows:

§ 90.211 Modulation requirements.

* * * * *

(a) Transmitters utilizing **analog emissions** that are equipped with an audio low-pass filter must meet the emission limitations specified in § 90.210. Testing must be in accordance with the rules specified in Part 2 of this chapter.

* * * * *

27. Section 90.213 is amended by revising the entries for 150-174 MHz, 421-512 MHz, 806-821 MHz, 821-824 MHz, and 896-901 MHz, revising footnotes 6, 7, and 8, and adding footnote 14 to the table of paragraph (a) to read as follows:

§ 90.213 Frequency stability.

(a) * * *

Minimum Frequency Stability
parts per million (ppm)

Frequency range (MHz)	Fixed and base stations	Mobile stations	
		Over 2 watts output power	2 watts or less output power
* * * * *	* * * * *	* * * * *	* * * * *
150 - 174	5 ^{5, 11}	5 ⁶	50 ^{4, 6}
* * * * *	* * * * *	* * * * *	* * * * *
421 - 512	2.5 ^{7, 11, 14}	5 ⁸	5 ⁸
806 - 821	1.5 ¹⁴	2.5	2.5
821 - 824	1.0 ¹⁴	1.5	1.5
* * * * *	* * * * *	* * * * *	* * * * *
896 - 901	0.1 ¹⁴	1.5	1.5
* * * * *	* * * * *	* * * * *	* * * * *

* * * * *

- ⁴ Stations operating in the 154.45 to 154.49 MHz or the 173.2 to 173.4 MHz bands must have a frequency stability of 5 ppm.
- ⁵ In the 150-174 MHz band, fixed and base stations with a 12.5 kHz channel bandwidth must have a frequency stability of 2.5 ppm. Fixed and base stations with a 6.25 kHz channel bandwidth must have a frequency stability of 1.0 ppm.
- ⁶ In the 150-174 MHz band, mobile stations designed to operate with a 12.5 kHz channel bandwidth or designed to operate on a frequency specifically designated for itinerant use or designed for low-power operation of two watts or less, must have a frequency stability of 5.0 ppm. Mobile stations designed to operate with a 6.25 kHz channel bandwidth must have a frequency stability of 2.0 ppm.
- ⁷ In the 421-512 MHz band, fixed and base stations with a 12.5 kHz channel bandwidth must have a frequency stability of 1.5 ppm. Fixed and base stations with a 6.25 kHz channel bandwidth must have a frequency stability of 0.5 ppm.
- ⁸ In the 421-512 MHz band, mobile stations designed to operate with a 12.5 kHz channel bandwidth must have a frequency stability of 2.5 ppm. Mobile stations designed to operate with a 6.25 kHz channel bandwidth must have a frequency stability of 1.0 ppm.

* * * * *

- ¹¹ Paging transmitters operating on paging-only frequencies must operate with frequency stability of 5 ppm in the 150-174 MHz band and 2.5 ppm in the 421-512 MHz band.

* * * * *

- ¹⁴ Control stations may operate with the frequency tolerance specified for associated mobile frequencies.

* * * * *

28. Section 90.214 is revised to read as follows:

§ 90.214 Transient Frequency Behavior.

Transmitters designed to operate in the 150-174 MHz and 421-512 MHz frequency bands must maintain transient frequencies within the maximum frequency difference limits during the time intervals indicated:

Transient Frequency Behavior For Equipment Designed To Operate on 25 kHz Channels			
Time Intervals ^{1, 2}	Maximum Frequency Difference ³	All Equipment	
		150 to 174 MHz	421 to 512 MHz
t_1 ⁴	± 25.0 kHz	5.0 ms	10.0 ms
t_2	± 12.5 kHz	20.0 ms	25.0 ms
t_3 ⁴	± 25.0 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior For Equipment Designed To Operate on 12.5 kHz Channels			
Time Intervals ^{1, 2}	Maximum Frequency Difference ³	All Equipment	
		150 to 174 MHz	421 to 512 MHz
t_1 ⁴	± 12.5 kHz	5.0 ms	10.0 ms
t_2	± 6.25 kHz	20.0 ms	25.0 ms
t_3 ⁴	± 12.5 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior For Equipment Designed To Operate on 6.25 kHz Channels			
Time Intervals ^{1, 2}	Maximum Frequency Difference ³	All Equipment	
		150 to 174 MHz	421 to 512 MHz
t_1 ⁴	± 6.25 kHz	5.0 ms	10.0 ms
t_2	± 3.125 kHz	20.0 ms	25.0 ms
t_3 ⁴	± 6.25 kHz	5.0 ms	10.0 ms

¹ t_{on} is the instant when a 1 kHz test signal is completely suppressed, including any capture time due to phasing.

t_1 is the time period immediately following t_{on} .

t_2 is the time period immediately following t_1 .

t_3 is the time period from the instant when the transmitter is turned off until t_{off} .

t_{off} is the instant when the 1 kHz test signal starts to rise.

² During the time from the end of t_2 to the beginning of t_3 , the frequency difference must not exceed the limits specified in § 90.213.

³ Difference between the actual transmitter frequency and the assigned transmitter frequency.

⁴ If the transmitter carrier output power rating is 6 watts or less, the frequency difference during this time period may exceed the maximum frequency difference for this time period.

29. Section 90.217 is amended by revising the introductory text and the first sentence in paragraph (a) to read as follows:

§ 90.217 Exemption from technical standards.

Except as noted herein, transmitters used at stations licensed in the Business Radio Service and at stations licensed in the 150-174 MHz and 421-512 MHz bands in any Radio Service listed in Subparts B, C, D, and E of this Part which have an output power not exceeding 120 milliwatts are exempt from the technical requirements set out in this subpart, but must instead comply with the following:

(a) For equipment designed to operate with a 25 kHz channel bandwidth, * * *

* * * * *

30. Section 90.267 is amended by removing paragraph (b).

31. Section 90.283 is amended by revising the table in paragraph (a), revising paragraph (c) and adding paragraph (g) to read as follows:

§ 90.283 Inter-service sharing of maritime frequencies in the 156-162 MHz band.

(a) * * *

Frequency (MHz)	
Mobile Station Transmit	Base Station Transmit
157.200	161.800
157.20625 ¹	161.80625 ¹
157.2125 ²	161.8125 ²
157.21875 ¹	161.81875 ¹
157.225	161.825
157.23125 ¹	161.83125 ¹
157.2375 ²	161.8375 ²
157.24375 ¹	161.84375 ¹
157.250	161.850
157.25625 ¹	161.85625 ¹
157.2625 ²	161.8625 ²
157.26875 ¹	161.86875 ¹
157.275	161.875
157.28125 ¹	161.88125 ¹

Mobile Station Transmit	Base Station Transmit
157.2875 ²	161.8875 ²
157.29375 ¹	161.89375 ¹
157.300	161.900
157.30625 ¹	161.90625 ¹
157.3125 ²	161.9125 ²
157.31875 ¹	161.91875 ¹
157.325	161.925
157.33125 ¹	161.93125 ¹
157.3375 ²	161.9375 ²
157.34375 ¹	161.94375 ¹
157.350	161.950
157.35625 ¹	161.95625 ¹
157.3625 ²	161.9625 ²
157.36875 ¹	161.96875 ¹
157.375	161.975
157.38125 ¹	161.98125 ¹
157.3875 ²	161.9875 ²
157.39375 ¹	161.99375 ¹
157.400	162.000

¹ This frequency will be assigned with an authorized bandwidth not to exceed 6 kHz.

² This frequency will be assigned with an authorized bandwidth not to exceed 11.25 kHz

* * * * *

(c) Station power, as measured at the output terminals of the transmitter, must not exceed 50 watts for base stations and 20 watts for mobile stations, except in accordance with the provisions of paragraph (g) of this section. Antenna height (HAAT) must not exceed 122 meters (400 feet) for base stations and 4.5 meters (15 feet) for mobile stations, except in accordance with paragraph (g) of this section. Such base and mobile stations must not be operated on board aircraft in flight.

* * * * *

(g) Applicants seeking to be licensed for stations exceeding the power/antenna height limits of the table in paragraph (d) of this section are required to secure a waiver and must submit with the application, an interference analysis, based upon any of the generally-accepted terrain-based propagation models, that shows that co-channel protected entities, described in paragraph (d) of this section, would receive the same or greater interference protection than provided in the table.

32. Section 90.311 is amended by revising the introductory text in paragraph (b) to read as follows.

§ 90.311 Frequencies.

* * * * *

(b) Miami, FL, Dallas, TX, and Houston, TX urbanized areas. Only the first and last assignable frequencies are shown. Assignable frequencies will occur in increments of 6.25 kHz. Frequencies listed in paragraph (a)(3) of this section will only be assigned with a maximum authorized bandwidth of 6 kHz.

* * * * *