

§78.111

this section may be made at the discretion of the licensee, provided that the Engineer in Charge of the radio district in which the station is located and the Commission in Washington, DC, are notified in writing upon the completion of such changes and provided further, that the changes are appropriately reflected in the next application for renewal of licenses of the station.

(c) Any application proposing a change in the height of the antenna structure or its location shall include the Antenna Structure Registration Number (FCC Form 854R) of the structure upon which it proposes to locate its antenna. In the event the antenna structure does not have a Registration Number, the owner of the antenna structure shall file an FCC Form 854 ("Application for Antenna Structure Registration") in accordance with part 17 of this chapter or the applicant shall provide a detailed explanation as to why registration and clearance are not required.

(d) *Permissible changes in equipment operating in the band 19.26-19.3 GHz.* Notwithstanding other provisions of this section, licensees of stations that remain co-primary under the provisions of §78.18(a)(4) may not make modifications to their systems that increase interference to satellite earth stations, or result in a facility that would be more costly to relocate.

[37 FR 3292, Feb. 12, 1972, as amended at 38 FR 6827, Mar. 3, 1973; 41 FR 29696, July 19, 1976; 61 FR 4368, Feb. 6, 1996; 65 FR 54173, Sept. 7, 2000]

EFFECTIVE DATE NOTE: At 65 FR 54173, Sept. 7, 2000, §78.109, was amended by adding paragraph (d), effective Oct. 10, 2000.

§78.111 Frequency tolerance.

Stations in this service shall maintain the carrier frequency of each authorized transmitter to within the following percentage of the assigned frequency.

Frequency band (MHz)	Frequency tolerance	
	Fixed (percent)	Mobile (percent)
1,990 to 2,110	0.005	0.005
6,425 to 6,525	0.005	0.005
6,875 to 7,125	0.005	0.005
12,700 to 13,250 ¹	0.005	0.005
17,700 to 18,820	0.003	0.003
18,820 to 18,920	0.001	0.001

47 CFR Ch. I (10-1-00 Edition)

Frequency band (MHz)	Frequency tolerance	
	Fixed (percent)	Mobile (percent)
18,920 to 19,700	0.003	0.003
31,000 to 31,300	0.05	0.05

¹ Stations that employing vestigial sideband AM transmissions shall maintain their operating frequency within 0.0005% the visual carrier, and the aural carrier shall be 4.5 MHz± 1 kHz above the visual carrier frequency.

[52 FR 7145, Mar. 9, 1987]

§78.113 Frequency monitors and measurements.

(a) The licensee of each CARS station shall employ a suitable procedure to determine that the carrier frequency of each transmitter is maintained within the tolerance prescribed in §78.111 at all times. The determination shall be made, and the results thereof entered in the station records: when a transmitter is initially installed; when any change is made in a transmitter which may affect the carrier frequency or the stability thereof; or in any case at intervals not exceeding one year.

(b) The choice of apparatus to measure the operating frequency is left to the discretion of the licensee. However, failure of the apparatus to detect departures of the operating frequency in excess of the prescribed tolerance will not be deemed an acceptable excuse for the violation.

[37 FR 3292, Feb. 12, 1972, as amended at 41 FR 29696, July 19, 1976; 50 FR 23422, June 4, 1985]

§78.115 Modulation limits.

(a) If amplitude modulation is employed, negative modulation peaks shall not exceed 100 percent modulation.

[37 FR 3292, Feb. 12, 1972, as amended at 45 FR 78696, Nov. 26, 1980]

ALPHABETICAL INDEX—PART 78

A

Antenna systems	78.105
Applications—	
Acceptance of; public notice	78.20
Amendments of	78.17
Contents of	78.15
Dismissal of	78.21
Objections to	78.22
Signing of	78.16
Assignment or transfer of control	78.35
Authority, Temporary	78.33
Authorized bandwidth	78.104