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stations authorized under the provisions of this subpart must be certificated upon the request of any manufacturer of transmitters in accordance with this section and subpart J of part 2 of this chapter. In addition, FM translator and booster stations may use FM broadcast transmitting apparatus verified or approved under the provisions of part 73 of this chapter.

- (b) Transmitting antennas, antennas used to receive signals to be rebroadcast, and transmission lines are not subject to the requirement for certification
- (c) The following requirements must be met before translator, booster or exciter equipment will be certificated in accordance with this section:
- (1) Radio frequency harmonics and spurious emissions must conform with the specifications of §74.1236 of this part.
- (2) The local oscillator or oscillators, including those in an exciter employed to provide a locally generated and modulated input signal to a translator or booster, when subjected to variations in ambient temperature between minus 30 degrees and plus 50 degrees centigrade, and in primary supply voltage between 85 percent and 115 percent of the rated value, shall be sufficiently stable to maintain the output center frequency within plus or minus 0.005 percent of the operating frequency and to enable conformance with the specifications of §74.1261 of this part.
- (3) The apparatus shall contain automatic circuits to maintain the power output in conformance with §74.1235(e) of this part. If provision is included for adjusting the power output, then the normal operating constants shall be specified for operation at both the rated power output and the minimum power output at which the apparatus is designed to operate. The apparatus shall be equipped with suitable meters or meter jacks so that the operating constants can be measured while the apparatus is in operation.
- (4) Apparatus rated for transmitter power output of more than 1 watt shall be equipped with automatic circuits to place it in a nonradiating condition when no input signal is being received in conformance with §74.1263(b) of this part and to transmit the call sign in

conformance with 74.1283(c)(2) of this part.

(5) For exciters, automatic means shall be provided for limiting the level of the audio frequency voltage applied to the modulator to ensure that a frequency swing in excess of 75 kHz will not occur under any condition of the modulation.

[55 FR 50698, Dec. 10, 1990, as amended at 63 FR 36606, July 7, 1998]

§ 74.1251 Technical and equipment modifications.

- (a) No change, either mechanical or electrical, except as provided in part 2 of this chapter, may be made in FM translator or booster apparatus which has been certificated by the Commission without prior authority of the Commission.
- (b) Formal application on FCC Form 349 is required of all permittees and licensees for any of the following changes:
- (1) Replacement of the transmitter as a whole, except replacement with a transmitter of identical power rating which has been certificated by the FCC for use by FM translator or FM booster stations, or any change which could result in the electrical characteristics or performance of the station. Upon the installation or modification of the transmitting equipment for which prior FCC authority is not required under the provisions of this paragraph, the licensee shall place in the station records a certification that the new installation complies in all respects with the technical requirements of this part and the terms of the station authorization.
- (2) A change in the transmitting antenna system, including the direction of radiation or directive antenna pattern.
- (3) Any change in the overall height of the antenna structure except where notice to the Federal Aviation Administration is specifically not required under §17.14(b) of this chapter.
- (4) Any change in the location of the translator or booster except a move within the same building or upon the same pole or tower.
- (5) Any horizontal change in the location of the antenna structure which would (i) be in excess of 152.4 meters

(500 feet), or (ii) would require notice to the Federal Aviation Administration pursuant to §17.7 of the FCC's rules.

- (6) Any change in the output frequency of a translator.
- (7) Any increase of authorized effective radiated power. FM translator and booster stations may decrease ERP on a modification of license application provided that exhibits are included to demonstrate that the following requirements are met:
- (i) The license application may not propose to eliminate the authorized horizontally polarized ERP, if a horizontally polarized ERP is currently authorized;
- (ii) The installed height of the antenna radiation center is not increased by more than two meters nor decreased by more than four meters from the authorized height for the antenna radiation center; and
- (iii) The station is not presently authorized with separate horizontal and vertical antennas mounted at different heights. Use of separate horizontal and vertical antennas requires a construction permit before implementation or changes.
 - (8) Any change in area being served.
- (c) Changes in the primary FM station being retransmitted must be submitted to the FCC in writing.
- (d) Any application proposing a change in the height of the antenna structure or its location must also include the Antenna Structure Registration Number (FCC Form 854R) of the antenna structure upon which it proposes to locate its antenna. In the event the antenna structure does not have a Registration Number, either the antenna structure owner shall file FCC Form 854 ("Application for Antenna Structure Registration") in accordance with part 17 of this chapter or the applicant shall provide a detailed explanation why registration and clearance are not required.

[35 FR 15388, Oct. 2, 1970, as amended at 45 FR 26068, Apr. 17, 1980; 47 FR 24580, June 7, 1982; 50 FR 3525, Jan. 25, 1985; 50 FR 23710, June 5, 1985; 55 FR 50698, Dec. 10, 1990; 61 FR 4368, Feb. 6, 1996; 63 FR 33879, June 22, 1998; 63 FR 36606, July 7, 1998; 65 FR 79780, Dec. 20, 20001

§74.1261 Frequency tolerance.

- (a) The licensee of an FM translator or booster station with an authorized transmitter power output of 10 watts or less shall maintain the center frequency at the output of the translator within 0.01 percent of its assigned frequency
- (b) The licensee of an FM translator or booster station with an authorized transmitter power output greater than 10 watts shall maintain the center frequency at the output of the translator or booster station in compliance with the requirement of §73.1545(b)(1) of this chapter.

[55 FR 50699, Dec. 10, 1990]

§ 74.1262 Frequency monitors and measurements.

- (a) The licensee of a station authorized under this subpart is not required to provide means for measuring the operating frequency of the transmitter. However, only equipment having the required stability will be approved for use by an FM translator or booster.
- (b) In the event that a station authorized under this subpart is found to be operating beyond the frequency tolerance prescribed in §74.1261, the licensee shall promptly suspend operation of the station and shall not resume operation until the station has been restored to its assigned frequency. Adjustment of the frequency determining circuits of an FM translator or booster shall be made by a qualified person in accordance with §74.1250(g).

§74.1263 Time of operation.

- (a) The licensee of an FM translator or booster station is not required to adhere to any regular schedule of operation. However, the licensee of an FM translator or booster station is expected to provide a dependable service to the extent that such is within its control and to avoid unwarranted interruptions to the service provided.
- (b) An FM booster or FM translator station rebroadcasting the signal of an AM or FM primary station shall not be permitted to radiate during extended periods when signals of the primary station are not being retransmitted. Notwithstanding the foregoing, FM translators rebroadcasting Class D AM