

Federal Communications Commission

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the EIRP must be reduced in accordance with the equation set forth below.

Frequency band (MHz)	Minimum path length (km)
Below 1,990	n/a
1,990–7,125	17
12,200–13,250	5
Above 17,700	n/a

(b) For paths shorter than those specified in the Table, the EIRP shall not exceed the value derived from the following equation.

$$\text{EIRP} = \text{MAXEIRP} - 40 \log(A/B) \text{ dBW}$$

Where:

EIRP = The new maximum EIRP (equivalent isotropically radiated power) in dBW.

MAXEIRP = Maximum EIRP as set forth in the Table in § 74.636 of this part.

A = Minimum path length from the Table above for the frequency band in kilometers.

B = The actual path length in kilometers.

NOTE 1 TO PARAGRAPH (b): For transmitters using Automatic Transmitter Power Control, EIRP corresponds to the maximum transmitter power available, not the coordinated transmit power or the nominal transmit power.

NOTE 2 TO PARAGRAPH (b): Stations licensed based on an application filed before April 16, 2003, in the 2450–2483.5 MHz band, for EIRP values exceeding those specified above, may continue to operate indefinitely in accordance with the terms of their current authorizations, subject to periodic renewal.

(c) Upon an appropriate technical showing, applicants and licensees unable to meet the minimum path length requirement may be granted an exception to these requirements.

NOTE: Links authorized prior to April 1, 1987, are excluded from this requirement, except that, effective April 1, 1992, the Commission will require compliance with the criteria where an existing link would otherwise preclude establishment of a new link.

[52 FR 7143, Mar. 9, 1987, as amended at 68 FR 12771, Mar. 17, 2003]

§ 74.651 Equipment changes.

(a) Modifications may be made to an existing authorization in accordance with §§ 1.929 and 1.947 of this chapter.

(b) Multiplexing equipment may be installed on any licensed TV broadcast STL, TV relay or translator relay sta-

tion without authority from the Commission.

(c) Permissible changes in equipment operating in the bands 18.3–18.58 GHz and 19.26–19.3 GHz. Notwithstanding other provisions of this section, licensees of stations that remain co-primary under the provisions of § 74.602(g) 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.

[28 FR 13718, Dec. 14, 1963, as amended at 38 FR 6827, Mar. 13, 1973; 47 FR 55938, Dec. 14, 1982; 49 FR 7131, Feb. 27, 1984; 58 FR 19776, Apr. 16, 1993; 61 FR 4368, Feb. 6, 1996; 63 FR 36605, July 7, 1998; 65 FR 54173, Sept. 7, 2000; 68 FR 12771, Mar. 17, 2003; 68 FR 16967, Apr. 8, 2003]

§ 74.655 Authorization of equipment.

(a) Except as provided in paragraph (b) of this section, all transmitting equipment first marketed for use under this subpart or placed into service after October 1, 1981, must be authorized under the certification or verification procedure, as detailed in paragraph (f) of this section. Equipment which is used at a station licensed prior to October 1, 1985, which has not been authorized as detailed in paragraph (f) of this section, may continue to be used by the licensee or its successors or assignees, provided that if operation of such equipment causes harmful interference due to its failure to comply with the technical standards set forth in this subpart, the FCC may, at its discretion, require the licensee to take such corrective action as is necessary to eliminate the interference. However, such equipment may not be further marketed or reused under part 74 after October 1, 1985.

(b) Certification or verification is not required for transmitters used in conjunction with TV pickup stations operating with a peak output power not greater than 250 mW. Pickup stations operating in excess of 250 mW licensed pursuant to applications accepted for filing prior to October 1, 1980 may continue operation subject to periodic renewal. If operation of such equipment causes harmful interference the FCC may, at its discretion, require the licensee to take such corrective action

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as is necessary to eliminate the interference.

(c) The license of a TV auxiliary station may replace transmitting equipment with authorized equipment, as detailed under paragraph (f) of this section, without prior FCC approval, provided the proposed changes will not depart from any of the terms of the station or system authorization or the Commission's technical rules governing this service, and also provided that any changes made to authorized transmitting equipment is in compliance with the provisions of part 2 of the FCC rules concerning modifications to authorized equipment.

(d) Any manufacturer of a transmitter to be used in this service may authorize the equipment under the certification or verification procedure, as appropriate, following the procedures set forth in subpart J of part 2 of the FCC rules.

(e) An applicant for a TV broadcast auxiliary station may also authorize an individual transmitter, as specified in paragraph (f) of this section, by following the procedures set forth in subpart J of part 2 of the FCC rules and regulations.

(f) Transmitters designed to be used exclusively for a TV STL station, a TV intercity relay station, a TV translator relay station, or a TV microwave booster station, shall be authorized under verification. All other transmitters will be authorized under the certification procedure.

[63 FR 36605, July 7, 1998, as amended at 68 FR 12772, Mar. 17, 2003]

§ 74.661 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 (%)
2,025 to 2,110	¹ 0.005
2,450 to 2,483.5	² 0.001
6,425 to 6,525	0.005
6,875 to 7,125	¹ 0.005
12,700 to 13,250	¹ 0.005
17,700 to 18,820	0.003
18,920 to 19,700	0.003

¹Television translator relay stations shall maintain a frequency tolerance of 0.002%.

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²Stations licensed pursuant to an application filed before March 17, 2005, for tolerance values exceeding those specified above, may continue to operate indefinitely in accordance with the terms of their current authorizations, subject to periodic renewal. Existing equipment and equipment of product lines in production before April 16, 2003, authorized via certification or verification before March 17, 2005, for tolerance values exceeding those specified above, may continue to be manufactured and/or marketed, but may not be authorized for use under station license except at stations licensed pursuant to an application filed before March 17, 2005. Any non-conforming equipment authorized under a station license, and replaced on or after March 17, 2005, must be replaced by conforming equipment.

[52 FR 7143, Mar. 9, 1987, as amended at 68 FR 12772, Mar. 17, 2003]

§ 74.662 Frequency monitors and measurements.

The licensee of a television broadcast auxiliary station must provide means for measuring the operating frequency in order to ensure that the emissions are confined to the authorized channel.

[48 FR 38482, Aug. 24, 1983]

§ 74.663 Modulation limits.

If amplitude modulation is employed, negative modulation peaks shall not exceed 100%.

[45 FR 78694, Nov. 26, 1980]

§ 74.664 Posting of station license.

(a) The station license and any other instrument of authorization or individual order concerning the construction of the equipment or manner of operation of the station shall be posted in the room in which the transmitter is located.

(b) Posting of the station license and any other instruments of authorization shall be done by affixing the license to the wall at the posting location, or by enclosing it in a binder or folder which is retained at the posting location so that the document will be readily available and easily accessible.

[28 FR 13718, Dec. 14, 1963, as amended at 48 FR 24385, June 1, 1983; 49 FR 29070, July 18, 1984; 50 FR 40015, Oct. 1, 1985]

§ 74.682 Station identification.

(a) Each television broadcast auxiliary station operating with a transmitter output power of 1 watt or more must, when actually transmitting programs, transmit station identification at the beginning and end of each period of operation, and hourly, as close to the hour as feasible, at a natural break