

(4) When subjected to variations in ambient temperature between 0 and 40 degrees Centigrade and variations in power main voltage between 85% and 115% of the rated power supply voltage, the frequency stability of the local oscillator in the RF channel upconverter shall be maintained within 10 kHz of the nominal value; and

(5) The transmitter shall be equipped with suitable meters and jacks so that appropriate voltage and current measurements may be made while the transmitter is in operation.

(c) The following additional requirements apply to digital heterodyne translators:

(1) The maximum rated power output (digital average power over a 6 MHz channel) shall not exceed 30 watts for transmitters operating on channels 14-69 and 3 watts for transmitters operating on channels 2-13; and

(2) The transmitter shall contain circuits which will maintain the digital average power output constant within 1 dB when the strength of the input signal is varied over a range of 30 dB.

(d) Certification will be granted only upon a satisfactory showing that the transmitter is capable of meeting the requirements of paragraph (b) of this section, pursuant to the procedures described in § 74.750(e).

[69 FR 69336, Nov. 29, 2004]

**§ 74.796 Modification of digital transmission systems and analog transmission systems for digital operation.**

(a) The provisions of § 74.751 shall apply to the modification of digital low power TV and TV translator transmission systems and the modification of existing analog transmission systems for digital operation.

(b) The following additional provisions shall apply to the modification of existing analog transmissions systems for digital operation, including installation of manufacturers' certificated equipment ("field modification kits") and custom modifications.

(1) The modifications and related performance-testing shall be undertaken by a person or persons qualified to perform such work.

(2) The final amplifier stage of an analog transmitter modified for digital

operation shall not have an "average digital power" output greater than 25 percent of its previous NTSC peak sync power output, unless the amplifier has been specifically refitted or replaced to operate at a higher power.

(3) Analog heterodyne translators, when modified for digital operation, will produce a power output (digital average power over the 6 MHz channel) not exceeding 30 watts for transmitters operating on channels 14-69 and 3 watts for transmitters operating on channels 2-13.

(4) After completion of the modification, suitable tests and measurements shall be made to demonstrate compliance with the applicable requirements in this section including those in § 74.795. Upon installation of a field modification kit, the transmitter shall be performance-tested in accordance with the manufacturer's instructions.

(5) The station licensee shall notify the Commission upon completion of the transmitter modifications. In the case of custom modifications (those not related to installation of manufacturer-supplied and FCC-certificated equipment), the licensee shall certify compliance with all applicable transmission system requirements.

(6) The licensee shall maintain with the station's records for a period of not less than two years the following information and make this information to the Commission upon request:

(i) A description of the modifications performed and performance tests or, in the case of installation of a manufacturer-supplied modification kit, a description of the nature of the modifications, installation and test instructions and other material provided by the manufacturer;

(ii) Results of performance-tests and measurements on the modified transmitter; and

(iii) Copies of related correspondence with the Commission.

(c) In connection with the on-channel conversion of existing analog transmitters for digital operation, a limited allowance is made for transmitters with final amplifiers that do not meet the attenuation of the Simple emission

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mask at the channel edges. Station licensees may obtain equivalent compliance with this attenuation requirement in the following manner:

(1) Measure the level of attenuation of emissions below the average digital power output at the channel edges in a 500 kHz bandwidth; measurements made over a different measurement bandwidth should be corrected to the equivalent attenuation level for a 500 kHz bandwidth using the formula given in § 74.794;

(2) Calculate the difference in dB between the 46 dB channel-edge attenuation requirement of the Simple mask;

(3) Subtract the value determined in the previous step from the authorized effective radiated power (“ERP”) of the analog station being converted to digital operation. Then subtract an additional 6 dB to account for the approximate difference between analog peak and digital average power. For this purpose, the ERP must be expressed in decibels above one kilowatt:  $ERP(dBk) = 10 \log ERP(kW)$ ;

(4) Convert the ERP calculated in the previous step to units of kilowatts; and

(5) The ERP value determined through the above procedure will produce equivalent compliance with the attenuation requirement of the simple emission mask at the channel edges and should be specified as the digital ERP in the minor change application for an on-channel digital conversion. The transmitter may not be operated to produce a higher digital ERP than this value.

[69 FR 69336, Nov. 29, 2004]

### § 74.797 Biennial Ownership Reports.

The Ownership Report for Commercial Broadcast Stations (FCC Form 2100, Schedule 323) must be electronically filed by December 1 in all odd-numbered years by each licensee of a low power television station or other Respondent (as defined in § 73.3615(a) of this chapter). A licensee or other Respondent with a current and unamended biennial ownership report (*i.e.*, a report that was filed pursuant to this subsection) on file with the Commission that is still accurate and which was filed using the version of FCC Form 2100, Schedule 323 that is current on October 1 of the year in

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which its biennial ownership report is due may electronically validate and re-submit its previously filed biennial ownership report. The information provided on each ownership report shall be current as of October 1 of the year in which the ownership report is filed. For information on filing requirements, filers should refer to § 73.3615(a) of this chapter.

[81 FR 19460, Apr. 4, 2016]

EFFECTIVE DATE NOTE: At 81 FR 19460, Apr. 4, 2016, § 74.797 was revised. This section contains information collection and record-keeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

### § 74.798 Digital television transition notices by broadcasters.

(a) Each low power television, TV translator and Class A television station licensee or permittee must air an educational campaign about the transition from analog broadcasting to digital television (DTV).

(b) Stations that have already terminated analog service and begun operating in digital prior to effective date of this rule shall not be subject to this requirement.

(c) Stations with the technical ability to locally-originate programming must air viewer notifications at a time when the highest number of viewers is watching. Stations have the discretion as to the form of these notifications.

(d) Stations that lack the technical ability to locally-originate programming, or find that airing of viewer notifications would pose some sort of a hardship, may notify their viewers by some other reasonable means, *e.g.* publication of a notification in a local newspaper. Stations have discretion as to the format and time-frame of such local notification.

[76 FR 44829, July 27, 2011]

## Subpart H—Low Power Auxiliary Stations

### § 74.800 Low power television and TV translator channel sharing.

(a) *Channel sharing generally.* (1) Subject to the provisions of this section, low power television and TV translator