§ 27.20 Digital television transition education reports.

(a) The requirements of this section shall apply only with regard to WCS license authorizations in Block A in the 698–704 MHz and 728–734 MHz bands, Block B in the 704–710 MHz and 734–740 MHz bands, Block E in the 722–728 MHz band, and Block C, C1 or C2 in the 746–757 MHz and 776–787 MHz bands.

(b) By the tenth day of the first calendar quarter after the initial grant of a WCS license authorization subject to the requirements of this section—and on a quarterly basis thereafter as specified in paragraph (c) of this section—the licensee holding such authorization must file a report with the Commission indicating whether, in the previous quarter, it has taken any outreach efforts to educate consumers about the transition from analog broadcast television service to digital broadcast television service (DTV) and, if so, what specific efforts were undertaken. Thus, for example, if the license authorization is granted during the April-June quarter of 2008, the licensee must file its first report by July 10, 2008. Each quarterly report, either paper or electronic, must be filed with the Commission in Docket Number 07–148. If the quarterly report is a paper filing, the cover sheet must clearly state ''Report,'' whereas if the report is filed electronically using the Commission's Electronic Comment File System (ECFS), the ''Document Type'' on the cover sheet should indicate ''REPORT.''

(c) The reporting requirements under this section cover the remaining period of the DTV transition. Accordingly, once the licensee files its quarterly report covering the second quarter of 2009, the requirements of this section terminate.

[73 FR 15448, Mar. 24, 2008, as amended at 74 FR 8878, Feb. 27, 2009; 79 FR 597, Jan. 6, 2014]

Subpart C—Technical Standards

§ 27.50   Power limits and duty cycle.

(a) The following power limits and related requirements apply to stations transmitting in the 2305–2320 MHz band or the 2345–2360 MHz band.

(1) *Base and fixed stations.* (i) For base and fixed stations transmitting in the 2305–2315 MHz band or the 2350–2360 MHz band:

(A) The average equivalent isotropically radiated power (EIRP) must not exceed 2,000 watts within any 5 megahertz of authorized bandwidth and must not exceed 400 watts within any 1 megahertz of authorized bandwidth.

(B) The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

(ii) For base and fixed stations transmitting in the 2315–2320 MHz band or the 2345–2350 MHz band, the peak EIRP must not exceed 2,000 watts.

(2) *Fixed customer premises equipment stations.* For fixed customer premises equipment (CPE) stations transmitting in the 2305–2320 MHz band or in the 2345–2360 MHz band, the peak EIRP must not exceed 20 watts within any 5 megahertz of authorized bandwidth. Fixed CPE stations transmitting in the 2305–2320 MHz band or in the 2345–2360 MHz band must employ automatic transmit power control when operating so the stations operate with the minimum power necessary for successful communications. The use of outdoor antennas for CPE stations or outdoor CPE station installations operating with 2 watts per 5 megahertz or less average EIRP using the stepped emissions mask prescribed in § 27.53(a)(3) is prohibited except if professionally installed in locations removed by 20 meters from roadways or in locations where it can be shown that the ground power level of -44 dBm in the A or B blocks or -55 dBm in the C or D blocks will not be exceeded at the nearest road location. The use of outdoor antennas for fixed CPE stations operating with 2 watts per 5 megahertz or less average EIRP and the emissions mask