

automatic character delineation when the individual control of character foreground, background and edge is not supported.

(s) *Service synchronization.* Service Input Buffers must be at least 128 bytes in size. Caption providers must keep this lower limit in mind when following Delay commands with other commands and window text. In other words, no more than 128 bytes of DTVCC commands and text should be transmitted (encoded) before a pending Delay command's delay interval expires.

(t) *Settings.* Decoders must include an option that permits a viewer to choose a setting that will display captions as intended by the caption provider (a default). Decoders must also include an option that allows a viewer's chosen settings to remain until the viewer chooses to alter these settings, including periods when the television is turned off.

[65 FR 58471, Sept. 29, 2000, as amended at 69 FR 2849, Jan. 21, 2004]

**§ 15.123 Labeling of digital cable ready products.**

(a) The requirements of this section shall apply to unidirectional digital cable products. Unidirectional digital cable products are one-way devices that accept a Point of Deployment module (POD) and which include, but are not limited to televisions, set-top-boxes and recording devices connected to digital cable systems. Unidirectional digital cable products do not include interactive two-way digital television products.

(b) A unidirectional digital cable product may not be labeled with or marketed using the term "digital cable ready," or other terminology that describes the device as "cable ready" or "cable compatible," or otherwise indicates that the device accepts a POD or conveys the impression that the device is compatible with digital cable service unless it implements at a minimum the following features:

(1) Tunes NTSC analog channels transmitted in-the-clear.

(2) Tunes digital channels that are transmitted in compliance with SCTE 40 2003 (formerly DVS 313): "Digital Cable Network Interface Standard" (in-

corporated by reference, *see* §15.38), provided, however, that with respect to Table B.11 of that standard, the phase noise requirement shall be -86 dB/Hz including both in-the-clear channels and channels that are subject to conditional access.

(3) Allows navigation of channels based on channel information (virtual channel map and source names) provided through the cable system in compliance with ANSI/SCTE 65 2002 (formerly DVS 234): "Service Information Delivered Out-of-Band for Digital Cable Television" (incorporated by reference, *see* §15.38), and/or PSIP-enabled navigation (ANSI/SCTE 54 2003 (formerly DVS 241): "Digital Video Service Multiplex and Transport System Standard for Cable Television" (incorporated by reference, *see* §15.38)).

(4) Includes the POD-Host Interface specified in SCTE 28 2003 (formerly DVS 295): "Host-POD Interface Standard" (incorporated by reference, *see* §15.38), and SCTE 41 2003 (formerly DVS 301): "POD Copy Protection System" (incorporated by reference, *see* §15.38), or implementation of a more advanced POD-Host Interface based on successor standards. Support for Internet protocol flows is not required.

(5) Responds to emergency alerts that are transmitted in compliance with ANSI/SCTE 54 2003 (formerly DVS 241): "Digital Video Service Multiplex and Transport System Standard for Cable Television" (incorporated by reference, *see* §15.38).

(6) In addition to the requirements of paragraphs (b)(1) through (5) of this section, a unidirectional digital cable television may not be labeled or marketed as digital cable ready or with other terminology as described in paragraph (b) of this section, unless it includes a DTV broadcast tuner as set forth in §15.117(i) and employs at least one specified interface in accordance with the following schedule:

(i) For 480p grade unidirectional digital cable televisions, either a DVI/HDCP, HDMI/HDCP, or 480p Y,Pb,Pr interface:

(A) Models with screen sizes 36 inches and above: 50% of a manufacturer's or importer's models manufactured or imported after July 1, 2004; 100% of such

models manufactured or imported after July 1, 2005.

(B) Models with screen sizes 32 to 35 inches: 50% of a manufacturer's or importer's models manufactured or imported after July 1, 2005; 100% of such models manufactured or imported after July 1, 2006.

(ii) For 720p/1080i grade unidirectional digital televisions, either a DVI/HDCP or HDMI/HDCP interface:

(A) Models with screen sizes 36 inches and above: 50% of a manufacturer's or importer's models manufactured or imported after July 1, 2004; 100% of such models manufactured or imported after July 1, 2005.

(B) Models with screen sizes 25 to 35 inches: 50% of a manufacturer's or importer's models manufactured or imported after July 1, 2005; 100% of such models manufactured or imported after July 1, 2006.

(C) Models with screen sizes 13 to 24 inches: 100% of a manufacturer's or importer's models manufactured or imported after July 1, 2007.

(c) Before a manufacturer's or importer's first unidirectional digital cable product may be labeled or marketed as digital cable ready or with other terminology as described in paragraph (b) of this section, the manufacturer or importer shall verify the device as follows:

(1) The manufacturer or importer shall have a sample of its first model of a unidirectional digital cable product tested to show compliance with the procedures set forth in Uni-Dir-PICS-I01-030903: "Uni-Directional Receiving Device: Conformance Checklist: PICS Proforma" (incorporated by reference, *see* §15.38) at a qualified test facility. The manufacturer or importer shall have any modifications to the product to correct failures of the procedures in Uni-Dir-PICS-I01-030903: "Uni-Directional Receiving Device: Conformance Checklist: PICS Proforma" (incorporated by reference, *see* §15.38) retested at a qualified test facility.

(2) A qualified test facility is a facility representing cable television system operators serving a majority of the cable television subscribers in the United States or an independent laboratory with personnel knowledgeable

with respect to the standards referenced in paragraph (b) of this section concerning the procedures set forth in Uni-Dir-PICS-I01-030903: "Uni-Directional Receiving Device: Conformance Checklist: PICS Proforma" (incorporated by reference, *see* §15.38).

(3) Subsequent to the testing of its initial unidirectional digital cable product model, a manufacturer or importer is not required to have other models of unidirectional digital cable products tested at a qualified test facility for compliance with the procedures of Uni-Dir-PICS-I01-030903: "Uni-Directional Receiving Device: Conformance Checklist: PICS Proforma" (incorporated by reference, *see* §15.38). However, the manufacturer or importer shall ensure that all subsequent models of unidirectional digital cable products comply with the procedures in the Uni-Dir-PICS-I01-030903: "Uni-Directional Receiving Device: Conformance Checklist: PICS Proforma" (incorporated by reference, *see* §15.38) and all other applicable rules and standards. The manufacturer or importer shall maintain records indicating such compliance in accordance with the verification procedure requirements in part 2, subpart J of this chapter. The manufacturer or importer shall further submit documentation verifying compliance with the procedures in the Uni-Dir-PICS-I01-030903: "Uni-Directional Receiving Device: Conformance Checklist: PICS Proforma" (incorporated by reference, *see* §15.38) to a facility representing cable television system operators serving a majority of the cable television subscribers in the United States.

(d) Manufacturers and importers shall provide in appropriate post-sale material that describes the features and functionality of the product, such as the owner's guide, the following language: "This digital television is capable of receiving analog basic, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming. A security card provided by your cable operator is required to view encrypted digital programming.

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Certain advanced and interactive digital cable services such as video-on-demand, a cable operator's enhanced program guide and data-enhanced television services may require the use of a set-top box. For more information call your local cable operator."

[68 FR 66733, Nov. 28, 2003]

### **§ 15.124 DTV transition notices by manufacturers of televisions and related devices.**

(a) Television receivers and related devices manufactured between April 1, 2009, and June 30, 2009, must include notices about the digital television (DTV) transition. Related devices covered by this requirement: All television broadcast receivers as defined in § 15.3(w); TV interface devices as defined in § 15.3(y); devices that record and/or display signals received from television broadcast receivers; and set-top boxes available for sale at retail that receive video programming provided by multi-channel video programming distributors.

(b) The notices required under paragraph (a) of this section must:

- (1) Be in clear and conspicuous print;
- (2) Convey at least the following information about the DTV transition:

(i) The nationwide switch to digital television broadcasting will be complete on June 12, 2009, but your local television stations may switch sooner. After the switch, analog-only television sets that receive TV programming through an antenna will need a converter box to continue to receive over-the-air TV. Watch your local stations to find out when they will turn off their analog signal and switch to digital-only broadcasting. Analog-only TVs should continue to work as before to receive low power, Class A or translator television stations and with cable and satellite TV services, gaming consoles, VCRs, DVD players, and similar products.

(ii) Information about the DTV transition is available from your local television stations, <http://www.DTV.gov>, or 1-888-CALL-FCC (TTY 1-888-TELL-FCC), and from <http://www.dtv2009.gov> or 1-888-DTV-2009 (TTY 1-877-530-2634) for information about subsidized coupons for digital-to-analog converter boxes; and

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(3) Explain clearly what effect, if any, the DTV transition will have on the use of the receiver or related device, including any limitations or requirements associated with connecting a related device to a DTV receiver.

(c) This notice requirement applies to all responsible parties, as defined in § 2.909 of this chapter.

[73 FR 28732, May 19, 2008, as amended at 74 FR 8878, Feb. 27, 2009]

### **Subpart C—Intentional Radiators**

#### **§ 15.201 Equipment authorization requirement.**

(a) Intentional radiators operated as carrier current systems, devices operated under the provisions of §§ 15.211, 15.213, and 15.221, and devices operating below 490 kHz in which all emissions are at least 40 dB below the limits in § 15.209 shall be verified pursuant to the procedures in subpart J of part 2 of this chapter prior to marketing.

(b) Except as otherwise exempted in paragraph (c) of this section and in § 15.23 of this part, all intentional radiators operating under the provisions of this part shall be certificated by the Commission pursuant to the procedures in subpart J of part 2 of this chapter prior to marketing.

(c) For devices such as perimeter protection systems which, in accordance with § 15.31(d), are required to be measured at the installation site, each application for certification must be accompanied by a statement indicating that the system has been tested at three installations and found to comply at each installation. Until such time as certification is granted, a given installation of a system that was measured for the submission for certification will be considered to be in compliance with the provisions of this chapter, including the marketing regulations in subpart I of part 2 of this chapter, if tests at that installation show the system to be in compliance with the relevant technical requirements. Similarly, where measurements must be performed on site for equipment subject to verification, a given installation that has been verified to demonstrate compliance with the applicable standards will be considered to be in compliance with the provisions of