

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 cable 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. If the model fails to comply, 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,” September 3, 2003 (incorporated by reference, see § 15.38) retested at a qualified test facility and the product must comply with Uni-Dir-PICS-I01-030903: “Uni-Directional Receiving Device: Conformance Checklist: PICS Proforma,” September 3, 2003 (incorporated by reference, see § 15.38) in

accordance with the test procedures set forth in Uni-Dir-ATP-I02-040225: “Uni-Directional Receiving Device, Acceptance Test Plan,” February 25, 2004 (incorporated by reference, see § 15.38) or with M-UDCP-PICS-I04-080225, “Uni-Directional Cable Product Supporting M-Card: Multiple Profiles; Conformance Checklist: PICS,” February 25, 2008 (incorporated by reference, see § 15.38) in accordance with the test procedures set forth in TP-ATP-M-UDCP-I05-20080304, “Uni-Directional Digital Cable Products Supporting M-Card; M-UDCP Device Acceptance Test Plan,” March 4, 2008 (incorporated by reference, see § 15.38) before the product or any related model may be labeled or marketed. If the manufacturer or importer's first unidirectional digital cable product is not a television, then that manufacturer or importer's first model of a unidirectional digital cable product which is a television shall be tested pursuant to this subsection as though it were the first unidirectional digital cable product. A qualified test facility may only require compliance with the procedures set forth in Uni-Dir-PICS-I01-030903: Uni-Directional Receiving Device: Conformance Checklist: PICS Proforma, September 3, 2003 (incorporated by reference, see § 15.38). Compliance testing beyond those procedures shall be at the discretion of the manufacturer or importer.

(2) A qualified test facility is a testing laboratory representing cable television system operators serving a majority of the cable television subscribers in the United States or an appropriately qualified independent laboratory with adequate equipment and competent personnel knowledgeable with respect to Uni-Dir-PICS-I01-030903: “Uni-Directional Receiving Device: Conformance Checklist: PICS Proforma,” September 03, 2003 (incorporated by reference, see § 15.38); Uni-Dir-ATP-I02-040225: “Uni-Directional Receiving Device, Acceptance Test Plan,” February 25, 2004 (incorporated by reference, see § 15.38); M-UDCP-PICS-I04-080225, “Uni-Directional Cable Product Supporting M-Card: Multiple Profiles; Conformance Checklist: PICS,” February 25, 2008 (incorporated by reference, see § 15.38); and TP-ATP-M-UDCP-I05-20080304, “Uni-

Directional Digital Cable Products Supporting M-Card; M-UDCP Device Acceptance Test Plan,” March 4, 2008 (incorporated by reference, see §15.38). For any independent testing laboratory to be qualified hereunder such laboratory must ensure that all its decisions are impartial and have a documented structure which safeguards impartiality of the operations of the testing laboratory. In addition, any independent testing laboratory qualified hereunder must not supply or design products of the type it tests, nor provide any other products or services that could compromise confidentiality, objectivity or impartiality of the testing laboratory’s testing process and decisions.

(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,” September 03, 2003 (incorporated by reference, see §15.38) unless the first model tested was not a television, in which event the first television shall be tested as provided in §15.123(c)(1). 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,” September 03, 2003 (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,” September 03, 2003 (incorporated by reference, see §15.38) to the qualified test facility.

(4) Unidirectional digital cable product models must be tested for compli-

ance with Uni-Dir-PICS-I01-030903: “Uni-Directional Receiving Device: Conformance Checklist: PICS Proforma,” September 3, 2003 (incorporated by reference, see §15.38) in accordance with Uni-Dir-ATP-I02-040225: “Uni-Directional Receiving Device Acceptance Test Plan,” February 25, 2004, (incorporated by reference, see §15.38) or an equivalent test procedure that produces identical pass/fail test results. In the event of any dispute over the applicable results under an equivalent test procedure, the results under Uni-Dir-ATP-I02-040225: “Uni-Directional Receiving Device Acceptance Test Plan,” February 25, 2004 (incorporated by reference, see §15.38) shall govern.

(5) This paragraph applies to unidirectional digital cable product models which utilize Point-of-Deployment modules (PODs) in multi-stream mode (M-UDCPs).

(i) The manufacturer or importer shall have a sample of its first model of a M-UDCP tested at a qualified test facility to show compliance with M-UDCP-PICS-I04-080225, “Uni-Directional Cable Product Supporting M-Card: Multiple Profiles; Conformance Checklist: PICS,” February 25, 2008 (incorporated by reference, see §15.38) as specified in the procedures set forth in TP-ATP-M-UDCP-I05-20080304, “Uni-Directional Digital Cable Products Supporting M-Card; M-UDCP Device Acceptance Test Plan,” March 4, 2008 (both references incorporated by reference, see §15.38). If the model fails to comply, the manufacturer or importer shall have retested, at a qualified test facility, a product that complies with Uni-Dir-PICS-I01-030903: “Uni-Directional Receiving Device: Conformance Checklist: PICS Proforma,” September 03, 2003 (incorporated by reference, see §15.38) in accordance with Uni-Dir-ATP-I02-040225: “Uni-Directional Receiving Device Acceptance Test Plan,” February 25, 2004, (incorporated by reference, see §15.38) or an equivalent test procedure that produces identical pass/fail test results before any product or related model may be labeled or marketed. If the manufacturer or importer’s first M-UDCP is not a television, then that manufacturer or importer’s first model of a M-UDCP which is a television shall be tested pursuant to this

subsection as though it were the first M-UDCP.

(ii) A qualified test facility is a testing laboratory representing cable television system operators serving a majority of the cable television subscribers in the United States or an appropriately qualified independent laboratory with adequate equipment and competent personnel knowledgeable with Uni-Dir-PICS-I01-030903: “Uni-Directional Receiving Device: Conformance Checklist: PICS Proforma,” September 03, 2003 (incorporated by reference, see § 15.38); Uni-Dir-ATP-I02-040225: “Uni-Directional Receiving Device, Acceptance Test Plan,” February 25, 2004 (incorporated by reference, see § 15.38); M-UDCP-PICS-I04-080225, “Uni-Directional Cable Product Supporting M-Card: Multiple Profiles; Conformance Checklist: PICS,” February 25, 2008 (incorporated by reference, see § 15.38); and TP-ATP-M-UDCP-I05-20080304, “Uni-Directional Digital Cable Products Supporting M-Card; M-UDCP Device Acceptance Test Plan,” March 4, 2008 (incorporated by reference, see § 15.38). For any independent testing laboratory to be qualified hereunder such laboratory must ensure that all its decisions are impartial and have a documented structure which safeguards impartiality of the operations of the testing laboratory. In addition, any independent testing laboratory qualified hereunder must not supply or design products of the type it tests, nor provide any other products or services that could compromise confidentiality, objectivity or impartiality of the testing laboratory’s testing process and decisions.

(iii) Subsequent to the successful testing of its initial M-UDCP, a manufacturer or importer is not required to have other M-UDCP models tested at a qualified test facility for compliance with M-UDCP-PICS-I04-080225, “Uni-Directional Cable Product Supporting M-Card: Multiple Profiles; Conformance Checklist: PICS,” February 25, 2008 (incorporated by reference, see § 15.38) unless the first model tested was not a television, in which event the first television shall be tested as provided in § 15.123(c)(5)(i). The manufacturer or importer shall ensure that all subsequent models of M-UDCPs

comply with M-UDCP-PICS-I04-080225, “Uni-Directional Cable Product Supporting M-Card: Multiple Profiles; Conformance Checklist: PICS,” February 25, 2008 (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. For each M-UDCP model, the manufacturer or importer shall further submit documentation verifying compliance with M-UDCP-PICS-I04-080225, “Uni-Directional Cable Product Supporting M-Card: Multiple Profiles; Conformance Checklist: PICS,” February 25, 2008 (incorporated by reference, see § 15.38) to the qualified test facility.

(iv) M-UDCPs must be in compliance with M-UDCP-PICS-I04-080225, “Uni-Directional Cable Product Supporting M-Card: Multiple Profiles; Conformance Checklist: PICS,” February 25, 2008 (incorporated by reference, see § 15.38) in accordance with the procedures set forth in TP-ATP-M-UDCP-I05-20080304, “Uni-Directional Digital Cable Products Supporting M-Card; M-UDCP Device Acceptance Test Plan,” March 4, 2008 (incorporated by reference, see § 15.38) or an equivalent test procedure that produces identical pass/fail test results. In the event of any dispute over the applicable results under an equivalent test procedure, the results under TP-ATP-M-UDCP-I05-20080304, “Uni-Directional Digital Cable Products Supporting M-Card; M-UDCP Device Acceptance Test Plan,” March 4, 2008 (incorporated by reference, see § 15.38) shall govern.

(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.

## Federal Communications Commission

## § 15.201

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, as amended at 76 FR 40277, July 8, 2011]

### § 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

(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