

Federal Communications Commission

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[50 FR 38537, Sept. 23, 1985, as amended at 63 FR 36606, July 7, 1998]

PART 79—ACCESSIBILITY OF VIDEO PROGRAMMING

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AUTHORITY: 47 U.S.C. 151, 152(a), 154(i), 303, 307, 309, 310, 330, 544a, 613, 617.

SOURCE: 62 FR 48493, Sept. 16, 1997, unless otherwise noted.

Subpart A—Video Programming Owners, Providers, and Distributors

SOURCE: 78 FR 77251, Dec. 20, 2013, unless otherwise noted.

§ 79.1 Closed captioning of televised video programming.

(a) *Definitions.* For purposes of this section the following definitions shall apply:

(1) *Captioning vendor.* Any entity that is responsible for providing captioning services to a video programmer.

(2) *Closed captioning, or captioning.* The visual display of the audio portion of video programming pursuant to the technical specifications set forth in this part.

(3) *Live programming.* Video programming that is shown on television substantially simultaneously with its performance.

(4) *Near-live programming.* Video programming that is performed and recorded less than 24 hours prior to the time it is first aired on television.

(5) *New programming.* Video programming that is first published or exhibited on or after January 1, 1998.

(i) Analog video programming that is first published or exhibited on or after January 1, 1998.

(ii) Digital video programming that is first published or exhibited on or after July 1, 2002.

(6) *Non-exempt programming.* Video programming that is not exempt under paragraph (d) of this section and, accordingly, is subject to closed captioning requirements set forth in this section.

(7) *Prerecorded programming.* Video programming that is not “live” or “near-live”.

(8) *Pre-rule programming.* (i) Analog video programming that was first published or exhibited before January 1, 1998.

(ii) Digital video programming that was first published or exhibited before July 1, 2002.

(9) *Video programmer.* Any entity that provides video programming that is intended for distribution to residential households including, but not limited to, broadcast or nonbroadcast television networks and the owners of such programming.

(10) *Video programming.* Programming provided by, or generally considered comparable to programming provided by, a television broadcast station that is distributed and exhibited for residential use. Video programming includes advertisements of more than five minutes in duration but does not include advertisements of five minutes' duration or less.

(11) *Video programming distributor.* Any television broadcast station licensed by the Commission and any multichannel video programming distributor as defined in §76.1000(e) of this chapter, and any other distributor of video programming for residential reception that delivers such programming directly to the home and is subject to the jurisdiction of the Commission. An entity contracting for program distribution over a video programming distributor that is itself exempt from captioning that programming pursuant to paragraph (e)(9) of this section shall itself be treated as a video programming distributor for purposes of this section. To the extent such video programming is not otherwise exempt from captioning, the entity that contracts for its distribution shall be required to comply with the closed captioning requirements of this section.

(12) *Video programming owner.* Any person or entity that either:

(i) Licenses video programming to a video programming distributor or provider that is intended for distribution to residential households; or

(ii) Acts as the video programming distributor or provider and also possesses the right to license linear video programming to a video programming distributor or provider that is intended for distribution to residential households.

(13) *Video programming provider.* Any video programming distributor and any other entity that provides video programming that is intended for distribution to residential households includ-

ing, but not limited to broadcast or nonbroadcast television network and the owners of such programming.

(b) *Requirements for closed captioning of video programming—(1) Requirements for new programming.* (i) Video programming distributors must ensure that 100% of new, nonexempt English language and Spanish language video programming that is being distributed and exhibited on each channel during each calendar quarter is closed captioned.

(ii) Video programmers must provide closed captioning for 100% of new, nonexempt English language and Spanish language video programming that is being distributed and exhibited on each channel during each calendar quarter.

(2) *Requirements for pre-rule programming.* (i) Video programming distributors must ensure that 75% of pre-rule, nonexempt English language and Spanish language video programming that is being distributed and exhibited on each channel during each calendar quarter is closed captioned.

(ii) Video programmers must provide closed captioning for 75% of pre-rule, nonexempt English language and Spanish video programming that is being distributed and exhibited on each channel during each calendar quarter.

(3) Video programming distributors shall continue to provide captioned video programming at substantially the same level as the average level of captioning that they provided during the first six (6) months of 1997 even if that amount of captioning exceeds the requirements otherwise set forth in this section.

(c) *Obligation to pass through captions of already captioned programs; obligation to maintain equipment and monitor for captions.* (1) All video programming distributors shall deliver all programming received from the video programmer containing closed captioning to receiving television households with the original closed captioning data intact in a format that can be recovered and displayed by decoders meeting the standards of this part unless such programming is recaptioned or the captions are reformatted by the programming distributor.

(2) Video programming distributors shall take any steps needed to monitor

and maintain their equipment and signal transmissions associated with the transmission and distribution of closed captioning to ensure that the captioning included with video programming reaches the consumer intact. In any enforcement proceeding involving equipment failure, the Commission will require video programming distributors to demonstrate that they have monitored their equipment and signal transmissions, have performed technical equipment checks, and have promptly undertaken repairs as needed to ensure that equipment is operational and in good working order.

(3) Each video programming distributor shall maintain records of the video programming distributor's monitoring and maintenance activities, which shall include, without limitation, information about the video programming distributor's monitoring and maintenance of equipment and signal transmissions to ensure the pass through and delivery of closed captioning to viewers, and technical equipment checks and other activities to ensure that captioning equipment and other related equipment are maintained in good working order. Each video programming distributor shall maintain such records for a minimum of two years and shall submit such records to the Commission upon request.

(d) *Exempt programs and providers.* For purposes of determining compliance with this section, any video programming or video programming provider that meets one or more of the following criteria shall be exempt to the extent specified in this paragraph.

(1) *Programming subject to contractual captioning restrictions.* Video programming that is subject to a contract in effect on or before February 8, 1996, but not any extension or renewal of such contract, for which an obligation to provide closed captioning would constitute a breach of contract.

(2) *Video programming or video programming provider for which the captioning requirement has been waived.* Any video programming or video programming provider for which the Commission has determined that a requirement for closed captioning is economically burdensome on the basis of a peti-

tion for exemption filed in accordance with the procedures specified in paragraph (f) of this section.

(3) *Programming other than English or Spanish language.* All programming for which the audio is in a language other than English or Spanish, except that scripted programming that can be captioned using the "electronic news room" technique is not exempt.

(4) *Primarily textual programming.* Video programming or portions of video programming for which the content of the soundtrack is displayed visually through text or graphics (e.g., program schedule channels or community bulletin boards).

(5) *Programming distributed in the late night hours.* Programming that is being distributed to residential households between 2 a.m. and 6 a.m. local time. Video programming distributors providing a channel that consists of a service that is distributed and exhibited for viewing in more than a single time zone shall be exempt from closed captioning that service for any continuous 4 hour time period they may select, commencing not earlier than 12 a.m. local time and ending not later than 7 a.m. local time in any location where that service is intended for viewing. This exemption is to be determined based on the primary reception locations and remains applicable even if the transmission is accessible and distributed or exhibited in other time zones on a secondary basis. Video programming distributors providing service outside of the 48 contiguous states may treat as exempt programming that is exempt under this paragraph when distributed in the contiguous states.

(6) *Interstitials, promotional announcements and public service announcements.* Interstitial material, promotional announcements, and public service announcements that are 10 minutes or less in duration.

(7) *EBS programming.* Video programming transmitted by an Educational Broadband Service licensee pursuant to part 27 of this chapter.

(8) *Locally produced and distributed non-news programming with no repeat value.* Programming that is locally produced by the video programming distributor, has no repeat value, is of

local public interest, is not news programming, and for which the “electronic news room” technique of captioning is unavailable.

(9) *Programming on new networks.* Programming on a video programming network for the first four years after it begins operation, except that programming on a video programming network that was in operation less than four (4) years on January 1, 1998 is exempt until January 1, 2002.

(10) *Primarily non-vocal musical programming.* Programming that consists primarily of non-vocal music.

(11) *Captioning expense in excess of 2 percent of gross revenues.* No video programming provider shall be required to expend any money to caption any video programming if such expenditure would exceed 2 percent of the gross revenues received from that channel during the previous calendar year.

(12) *Channels/Streams producing revenues of under \$3,000,000.* No video programming provider shall be required to expend any money to caption any channel or stream of video programming producing annual gross revenues of less than \$3,000,000 during the previous calendar year other than the obligation to pass through video programming closed captioned when received pursuant to paragraph (c) of this section. For the purposes of this paragraph, each programming stream on a multicast digital television channel shall be considered separately for purposes of the \$3,000,000 revenue limit.

(13) *Locally produced educational programming.* Instructional programming that is locally produced by public television stations for use in grades K–12 and post secondary schools.

(e) *Responsibility for and determination of compliance.* (1) Compliance shall be calculated on a per channel, calendar quarter basis;

(2) Open captioning or subtitles in the language of the target audience may be used in lieu of closed captioning;

(3) The major national broadcast television networks (*i.e.*, ABC, CBS, Fox and NBC), affiliates of these networks in the top 25 television markets as defined by Nielsen’s Designated Market Areas (DMAs) and national nonbroadcast networks serving at least 50% of

all homes subscribing to multichannel video programming services shall not count electronic newsroom captioned programming towards compliance with these rules. The live portions of non-commercial broadcasters’ fundraising activities that use automated software to create a continuous captioned message will be considered captioned;

(4) Compliance will be required with respect to the type of video programming generally distributed to residential households. Programming produced solely for closed circuit or private distribution is not covered by these rules;

(5) Video programming that is exempt pursuant to paragraph (d) of this section that contains captions, except that video programming exempt pursuant to paragraph (d)(5) of this section (late night hours exemption), can count towards compliance with the requirements for pre-rule programming.

(6) For purposes of paragraph (d)(11) of this section, captioning expenses include direct expenditures for captioning as well as allowable costs specifically allocated by a video programmer through the price of the video programming to that video programming provider. To be an allowable allocated cost, a video programmer may not allocate more than 100 percent of the costs of captioning to individual video programming providers. A video programmer may allocate the captioning costs only once and may use any commercially reasonable allocation method.

(7) For purposes of paragraphs (d)(11) and (d)(12) of this section, annual gross revenues shall be calculated for each channel individually based on revenues received in the preceding calendar year from all sources related to the programming on that channel. Revenue for channels shared between network and local programming shall be separately calculated for network and for non-network programming, with neither the network nor the local video programming provider being required to spend more than 2 percent of its revenues for captioning. Thus, for example, compliance with respect to a network service distributed by a multichannel video service distributor, such

as a cable operator, would be calculated based on the revenues received by the network itself (as would the related captioning expenditure). For local service providers such as broadcasters, advertising revenues from station-controlled inventory would be included. For cable operators providing local origination programming, the annual gross revenues received for each channel will be used to determine compliance. Evidence of compliance could include certification from the network supplier that the requirements of the test had been met. Multichannel video programming distributors, in calculating non-network revenues for a channel offered to subscribers as part of a multichannel package or tier, will not include a pro rata share of subscriber revenues, but will include all other revenues from the channel, including advertising and ancillary revenues. Revenues for channels supported by direct sales of products will include only the revenues from the product sales activity (e.g., sales commissions) and not the revenues from the actual products offered to subscribers. Evidence of compliance could include certification from the network supplier that the requirements of this test have been met.

(8) If two or more networks (or sources of programming) share a single channel, that channel shall be considered to be in compliance if each of the sources of video programming are in compliance where they are carried on a full time basis;

(9) Video programming distributors shall not be required to ensure the provision of closed captioning for video programming that is by law not subject to their editorial control, including but not limited to the signals of television broadcast stations distributed pursuant to sections 614 and 615 of the Communications Act or pursuant to the compulsory copyright licensing provisions of sections 111 and 119 of the Copyright Act (Title 17 U.S.C. 111 and 119); programming involving candidates for public office covered by sections 315 and 312 of the Communications Act and associated policies; commercial leased access, public access, governmental and educational access programming carried pursuant to sec-

tions 611 and 612 of the Communications Act; video programming distributed by direct broadcast satellite (DBS) services in compliance with the noncommercial programming requirement pursuant to section 335(b)(3) of the Communications Act to the extent such video programming is exempt from the editorial control of the video programming provider; and video programming distributed by a common carrier or that is distributed on an open video system pursuant to section 653 of the Communications Act by an entity other than the open video system operator. To the extent such video programming is not otherwise exempt from captioning, the entity that contracts for its distribution shall be required to comply with the closed captioning requirements of this section.

(10) In evaluating whether a video programming provider has complied with the requirement that all new non-exempt video programming must include closed captioning, the Commission will consider showings that any lack of captioning was de minimis and reasonable under the circumstances.

(11) *Use of "Electronic Newsroom Technique" (ENT)*. (i) A broadcast station that uses ENT to provide closed captioning for live programming or programming originally transmitted live and that is not subject to the current prohibition on the use of ENT in paragraph (e)(3) of this section shall be deemed in compliance with the Commission's rules requiring captioning of live programming or programming originally transmitted live if it adheres to the following procedures in the ordinary course of business:

(A) In-studio produced news, sports, weather, and entertainment programming will be scripted.

(B) For weather interstitials where there may be multiple segments within a news program, weather information explaining the visual information on the screen and conveying forecast information will be scripted, although the scripts may not precisely track the words used on air.

(C) Pre-produced programming will be scripted (to the extent technically feasible).

(D) If live interviews or live on-the scene or breaking news segments are

not scripted, stations will supplement them with crawls, textual information, or other means (to the extent technically feasible).

(E) The station will provide training to all news staff on scripting for improving ENT.

(F) The station will appoint an “ENT Coordinator” accountable for compliance.

(ii) Nothing in this paragraph (e)(11) shall relieve a broadcast station of its obligations under § 79.2 of this chapter regarding the accessibility of programming providing emergency information.

(iii) *Informal complaints.* The Commission will forward an informal complaint regarding captioning to a broadcast station that utilizes ENT to provide captioning pursuant to the procedures set forth in paragraph (e)(11)(i) of this section only if the informal complaint contains the television channel number, network, or call sign, the name of the subscription service, if relevant, the date and time of the captioning problems, the name of the affected program, and a detailed and specific description of the captioning problems, including the frequency and type of problem.

(iv) *Compliance—(A) Initial response to pattern or trend of noncompliance.* If the Commission notifies a broadcast station that the Commission has identified a pattern or trend of possible noncompliance by the station with this paragraph (e)(11), the station shall respond to the Commission within 30 days regarding such possible noncompliance, describing corrective measures taken, including those measures the station may have undertaken in response to informal complaints and inquiries from viewers.

(B) *Corrective action plan.* If, after the date for a broadcast station to respond to a notification under paragraph (e)(11)(iv)(A) of this section, the Commission subsequently notifies the broadcast station that there is further evidence indicating a pattern or trend of noncompliance with this paragraph (e)(11), the broadcast station shall submit to the Commission, within 30 days of receiving such subsequent notification, an action plan describing specific measures it will take to bring the sta-

tion’s ENT performance into compliance with this paragraph (e)(11). In addition, the station shall be required to conduct spot checks of its ENT performance and report to the Commission on the results of such action plan and spot checks 180 days after the submission of such action plan.

(C) *Continued evidence of a pattern or trend of noncompliance.* If, after the date for submission of a report on the results of an action plan and spot checks pursuant to paragraph (e)(11)(iv)(B) of this section, the Commission finds continued evidence of a pattern or trend of noncompliance, additional enforcement actions may be taken, which may include admonishments, forfeitures, and other corrective actions, including, but not limited to, requiring the station to cease using ENT and to use real-time captioning for live programming.

(v) *Progress report.* No later than one year after the effective date of this paragraph (e)(11), broadcast stations that adhere to the procedures set forth in paragraph (e)(11)(i) shall jointly prepare and submit to the Commission, in consultation with individuals who rely on captions to watch television and organizations representing such individuals, a report on their experiences with following such procedures, and the extent to which they have been successful in providing full and equal access to live programming.

(f) *Procedures for exemptions based on economically burdensome standard.* (1) A video programming provider, video programming producer or video programming owner may petition the Commission for a full or partial exemption from the closed captioning requirements. Exemptions may be granted, in whole or in part, for a channel of video programming, a category or type of video programming, an individual video service, a specific video program or a video programming provider upon a finding that the closed captioning requirements will be economically burdensome.

(2) A petition for an exemption must be supported by sufficient evidence to demonstrate that compliance with the requirements to closed caption video programming would be economically burdensome. The term “economically

burdensome” means significant difficulty or expense. Factors to be considered when determining whether the requirements for closed captioning are economically burdensome include:

(i) The nature and cost of the closed captions for the programming;

(ii) The impact on the operation of the provider or program owner;

(iii) The financial resources of the provider or program owner; and

(iv) The type of operations of the provider or program owner.

(3) In addition to these factors, the petition shall describe any other factors the petitioner deems relevant to the Commission’s final determination and any available alternatives that might constitute a reasonable substitute for the closed captioning requirements including, but not limited to, text or graphic display of the content of the audio portion of the programming. The extent to which the provision of closed captions is economically burdensome shall be evaluated with regard to the individual outlet.

(4) A petition requesting an exemption based on the economically burdensome standard, and all subsequent pleadings, shall be filed electronically in accordance with § 0.401(a)(1)(iii) of this chapter.

(5) The Commission will place the petition on public notice.

(6) Any interested person may file comments or oppositions to the petition within 30 days of the public notice of the petition. Within 20 days of the close of the comment period, the petitioner may reply to any comments or oppositions filed.

(7) Comments or oppositions to the petition shall be filed electronically and served on the petitioner and shall include a certification that the petitioner was served with a copy. Replies to comments or oppositions shall be filed electronically and served on the commenting or opposing party and shall include a certification that the commenting or opposing party was served with a copy. Comments or oppositions and replies may be served upon a party, its attorney, or other duly constituted agent by delivering or mailing a copy to the last known address in accordance with § 1.47 of this

chapter or by sending a copy to the email address last provided by the party, its attorney, or other duly constituted agent.

(8) Upon a showing of good cause, the Commission may lengthen or shorten any comment period and waive or establish other procedural requirements.

(9) All petitions and responsive pleadings shall contain a detailed, full showing, supported by affidavit, of any facts or considerations relied on.

(10) The Commission may deny or approve, in whole or in part, a petition for an economically burdensome exemption from the closed captioning requirements.

(11) During the pendency of an economically burdensome determination, the video programming subject to the request for exemption shall be considered exempt from the closed captioning requirements.

(g) *Complaint procedures*—(1) *Filing closed captioning complaints.* Complaints concerning an alleged violation of the closed captioning requirements of this section shall be filed with the Commission or with the video programming distributor responsible for delivery and exhibition of the video programming within sixty (60) days after the problem with captioning.

(2) *Complaints filed with the Commission.* A complaint filed with the Commission must be in writing, must state with specificity the alleged Commission rule violated, and must include:

(i) The consumer’s name, postal address, and other contact information, if available, such as telephone number or email address, along with the consumer’s preferred format or method of response to the complaint (such as letter, facsimile transmission, telephone (voice/TRS/TTY), email, or some other method that would best accommodate the consumer.

(ii) The channel number; channel name, network, or call sign; the name of the multichannel video program distributor, if applicable; the date and time when the captioning problem occurred; the name of the program with the captioning problem; and a detailed description of the captioning problem, including specific information about the frequency and type of problem.

(3) *Process for forwarding complaints.* The Commission will forward complaints filed first with the Commission to the appropriate video programming distributor and video programmer. If the Commission cannot determine the appropriate video programmer, the Commission will forward the complaint to the video programming distributor and notify the video programming distributor of the Commission's inability to determine the appropriate video programmer. The video programming distributor must respond in writing to the Commission with the name and contact information for the appropriate video programmer within ten (10) days after the date of such notification. The Commission will then forward the complaint to the appropriate video programmer.

(4) *Video programming distributor and video programmer responsibilities with respect to complaints forwarded by the Commission.* (i) In response to a complaint, the video programming distributor must conduct an investigation to identify the source of the captioning problem and resolve all aspects of the captioning problem that are within its control. At a minimum, a video programming distributor must perform the following actions as part of its investigation:

(A) *Program stream check.* The video programming distributor must capture program streams, defined as digitally encoded elementary streams such as video, audio, closed captioning, timing, and other data necessary for a viewer to receive a complete television viewing experience, of the programming network identified in the complaint and check the program streams for any caption-related impairments;

(B) *Processing equipment check.* If the video programming distributor's investigation indicates a problem with the program stream, and there is not prior knowledge as to where the problem originated, the video programming distributor must check post-processing equipment at the relevant headend or other video distribution facility to see if the issue was introduced by the video programming distributor or was present in the program stream when received by the video programming dis-

tributor from the video programmer; and

(C) *Consumer premises check.* If the video programming distributor's investigation indicates that the problem may lie with the consumer's customer premises equipment, including the set-top box, the video programming distributor must check the end user equipment, either remotely or, if necessary, at the consumer's premises, to ensure there are no issues that might interfere with the pass through, rendering, or display of closed captioning.

(ii) After conducting its investigation, the video programming distributor shall provide a response to the complaint in writing to the Commission, the appropriate video programmer, and the complainant within thirty (30) days after the date the Commission forwarded the complaint. The video programming distributor's response must:

(A) Acknowledge responsibility for the closed captioning problem and describe the steps taken to resolve the problem; or

(B) Certify that the video programming distributor has conducted an investigation into the closed captioning problems in accordance with paragraph (g)(4)(i) of this section and that the closed captioning problem is not within the video programming distributor's control and appears to have been present in the program stream when received by the video programming distributor; or

(C) Certify that the video programming distributor has conducted an investigation into the closed captioning problems in accordance with paragraph (g)(4)(i) of this section and that the closed captioning problem appears to have been caused by a third party DVR, television, or other third party device not within the video programming distributor's control.

(iii) If the video programming distributor provides a certification in accordance with paragraph (g)(4)(ii)(B) of this section, the video programmer to whom the complaint was referred must conduct an investigation to identify the source of the captioning problem and resolve all aspects of the captioning problem that are within its control.

(A) The video programmer may call upon the video programming distributor for assistance as needed, and the video programming distributor must provide assistance to the video programmer in resolving the complaint, as needed.

(B) After conducting its investigation, the video programmer must provide a response to the complainant in writing to the Commission, the appropriate video programming distributor, and the complainant within thirty (30) days after the date of the video programming distributor's certification. Such response either must describe the steps taken by the video programmer to correct the captioning problem or certify that the video programmer has conducted an investigation into the closed captioning problems in accordance with paragraph (g)(4)(iii) of this section and that the captioning problem was not within its control, for example, because the program stream was not subject to the closed captioning problem at the time the program stream was handed off to the video programming distributor.

(C) If the video programmer certifies pursuant paragraph (g)(4)(iii)(B) of this section that the captioning problem was not within its control, and it has not been determined by either the video programmer or the video programming distributor that the problem was caused by a third party device or other causes that appear not to be within the control of either the video programming distributor or the video programmer, the video programming distributor and video programmer shall work together to determine the source of the captioning problem. Once the source of the captioning problem is determined, the video programming distributor and video programmer shall each correct those aspects of the captioning problem that are within its respective control. Within thirty (30) days after the date of the video programmer's certification provided pursuant to paragraph (g)(4)(iii)(B) of this section, the video programming distributor, after consulting with the video programmer, shall report in writing to the Commission and the complainant on the steps taken to correct the captioning problem.

(5) *Complaints filed with video programming distributors.* (i) If a complaint is first filed with the video programming distributor, the video programming distributor must respond in writing to the complainant with thirty (30) days after the date of the complaint. The video programming distributor's response must either:

(A) Acknowledge responsibility for the closed captioning problem and describe to the complainant the steps taken to resolve the problem; or

(B) Inform the complainant that it has referred the complaint to the appropriate video programmer or other responsible entity and provide the name and contact information of the video programmer or other responsible entity and the unique complaint identification number assigned to the complaint pursuant to paragraph (g)(5)(ii)(B) of this section; or

(C) Inform the complainant that the closed captioning problem appears to have been caused by a third party DVR, television, or other third party device not within the video programming distributor's control.

(ii) If the video programming distributor determines that the issue raised in the complaint was not within the video programming distributor's control and was not caused by a third party device, the video programming distributor must forward the complaint and the results of its investigation of the complaint to the appropriate video programmer or other responsible entity within thirty (30) days after the date of the complaint.

(A) The video programming distributor must either forward the complaint with the complainant's name, contact information and other identifying information redacted or provide the video programmer or other responsible entity with sufficient information contained in the complaint to achieve the complainant's investigation and resolution.

(B) The video programming distributor must assign a unique complaint identification number to the complaint and transmit that number to the video programmer with the complaint.

(iii) If a video programming distributor forwards a complaint to a

video programmer or other responsible entity pursuant to paragraph (g)(5)(ii) of this section, the video programmer or other responsible entity must respond to the video programming distributor in writing in a form that can be forwarded to the complainant within thirty (30) days after the forwarding date of the complaint.

(A) The video programming distributor must forward the video programmer's or other responsible entity's response to the complainant within ten (10) days after the date of the response.

(B) If the video programmer or other responsible entity does not respond to the video programming distributor within thirty (30) days after the forwarding date of the complaint, the video programming distributor must inform the complainant of the video programmer's or other responsible entity's failure to respond within forty (40) days after the forwarding date of the complaint.

(iv) If a video programming distributor fails to respond to the complainant as required by paragraphs (g)(5)(i) of this section, or if the response received by the complainant does not satisfy the complainant, the complainant may file the complaint with the Commission within sixty (60) days after the time allotted for the video programming distributor to respond to the complainant. The Commission will forward such complaint to the video programming distributor and video programmer, and the video programming distributor and video programmer shall address such complaint as specified in paragraph (g)(4) of this section.

(v) If a video programmer or other responsible entity fails to respond to the video programming distributor as required by paragraph (g)(5)(iii) of this section, or if a video programming distributor fails to respond to the complainant as required by paragraph (g)(5)(iii)(A) or (B) of this section, or if the response from the video programmer or other responsible entity forwarded by the video programming distributor to the complainant does not satisfy the complainant, the complainant may file the complaint with the Commission within sixty (60) days after the time allotted for the video

programming distributor to respond to the complainant pursuant to paragraph (g)(5)(iii)(A) or (B) of this section. The Commission will forward such complaints to the appropriate video programming distributor and video programmer, and the video programming distributor and video programmer shall handle such complaints as specified in paragraph (g)(4) of this section.

(6) *Provision of documents and records.* In response to a complaint, a video programming distributor or video programmer is obligated to provide the Commission with sufficient records and documentation to demonstrate that it is in compliance with the Commission's rules.

(7) *Reliance on certifications.* Video programming distributors may rely on certifications from video programmers made in accordance with paragraph (m) of this section to demonstrate compliance with paragraphs (b)(1)(i) and (b)(2)(i) of this section. Video programming distributors shall not be held responsible for situations where a video programmer falsely certifies under paragraph (m) of this section unless the video programming distributor knows or should have known that the certification is false.

(8) *Commission review of complaints.* The Commission will review complaints filed with the Commission, including all supporting evidence, and determine whether a violation has occurred. The Commission will, as needed, request additional information from the video programming distributor or video programmer.

(9) *Compliance—(i) Initial response to a pattern or trend of noncompliance.* If the Commission notifies a video programming distributor or video programmer of a pattern or trend of possible noncompliance with the Commission's rules for the quality of closed captioning by the video programming distributor or video programmer, the video programming distributor or video programmer shall respond to the Commission within thirty (30) days after the Commission's notice of such possible noncompliance, describing corrective measures taken, including those measures the video programming distributor or video programmer may

have undertaken in response to informal complaints and inquiries from viewers.

(ii) *Corrective action plan.* If, after the date for a video programming distributor or video programmer to respond to a notification under paragraph (g)(9)(i) of this section, the Commission subsequently notifies the video programming distributor or video programmer that there is further evidence indicating a pattern or trend of non-compliance with the Commission's rules for quality of closed captioning, the video programming distributor or video programmer shall submit to the Commission, within thirty (30) days after the date of such subsequent notification, a written action plan describing specific measures it will take to bring the video programming distributor's or video programmer's closed captioning performance into compliance with the Commission's closed captioning quality rules. In addition, the video programming distributor or video programmer shall conduct spot checks of its closed captioning quality performance and report to the Commission on the results of such action plan and spot checks 180 days after the submission of such action plan.

(iii) *Continued evidence of a pattern or trend of noncompliance.* If, after the date for submission of a report on the results of an action plan and spot checks pursuant to paragraph (g)(9)(ii) of this section, the Commission finds continued evidence of a pattern or trend of noncompliance, additional enforcement actions may be taken, which may include admonishments, forfeitures, and other corrective actions.

(iv) *Enforcement action.* The Commission may take enforcement action, which may include admonishments, forfeitures, and other corrective actions, without providing a video programming distributor or video programmer the opportunity for an initial response to a pattern or trend of non-compliance or a corrective action plan, or both, under paragraphs (g)(9)(i) and (ii) of this section, for a systemic closed captioning quality problem or an intentional and deliberate violation of the Commission's rules for the quality of closed captioning.

(h) *Private rights of action prohibited.* Nothing in this section shall be construed to authorize any private right of action to enforce any requirement of this section. The Commission shall have exclusive jurisdiction with respect to any complaint under this section.

(i) *Contact information.* (1) *Receipt and handling of immediate concerns.* Video programming distributors shall make publicly available contact information for the receipt and handling of immediate closed captioning concerns raised by consumers while they are watching a program. Video programming distributors must designate a telephone number, fax number (if the video programming distributor has a fax number), and email address for purposes of receiving and responding immediately to any closed captioning concerns. Video programming distributors shall include this information on their Web sites (if they have a Web site), in telephone directories, and in billing statements (to the extent the distributor issues billing statements). Video programming distributors shall keep this information current and update it to reflect any changes within ten (10) business days for Web sites, by the next billing cycle for billing statements, and by the next publication of directories. Video programming distributors shall ensure that any staff reachable through this contact information has the capability to immediately respond to and address consumers' concerns. To the extent that a distributor has personnel available, either on site or remotely, to address any technical problems that may arise, consumers using this dedicated contact information must be able to reach someone, either directly or indirectly, who can address the consumer's captioning concerns. This provision does not require that distributors alter their hours of operation or the hours during which they have staffing available; at the same time, however, where staff is available to address technical issues that may arise during the course of transmitting programming, they also must be knowledgeable about and be able to address closed captioning concerns. In situations where a video programming

distributor is not immediately available, any calls or inquiries received, using this dedicated contact information, should be returned or otherwise addressed within 24 hours. In those situations where the captioning problem does not reside with the video programming distributor, the staff person receiving the inquiry shall refer the matter appropriately for resolution.

(2) *Complaints.* Video programming distributors shall make contact information publicly available for the receipt and handling of written closed captioning complaints that do not raise the type of immediate issues that are addressed in paragraph (i)(1) of this section. The contact information required for written complaints shall include the name of a person with primary responsibility for captioning issues and who can ensure compliance with the Commission's rules. In addition, this contact information shall include the person's title or office, telephone number, fax number (if the video programming distributor has a fax number), postal mailing address, and email address. Video programming distributors shall include this information on their Web sites (if they have a Web site), in telephone directories, and in billing statements (to the extent the distributor issues billing statements). Video programming distributors shall keep this information current and update it within ten (10) business days for Web sites, by the next billing cycle for billing statements, and by the next publication of directories.

(3) *Providing contact information to the Commission.* (i) Prior to the compliance date of paragraph (m) of this section, video programming distributors shall file the contact information described in this section with the Commission in one of the following ways: through a web form located on the FCC website; with the Chief of the Disability Rights Office, Consumer and Governmental Affairs Bureau; or by sending an email to CLOSEDCAPTURING_POC@fcc.gov. Contact information shall be available to consumers on the FCC website or by telephone inquiry to the Commission's Consumer Center. Distributors shall notify the Commission each time there is a change in any of this required information within 10 business days.

(ii) As of the compliance date of paragraph (m) of this section, video programming distributors and video programmers shall file contact information with the Commission through a web form located on the Commission's website. Such contact information shall include the name of a person with primary responsibility for captioning issues and ensuring compliance with the Commission's rules. In addition, such contact information shall include the person's title or office, telephone number, fax number (if the video programming distributor or video programmer has a fax number), postal mailing address, and email address. Contact information shall be available to consumers on the Commission's website or by telephone inquiry to the Commission's Consumer Center. Video programming distributors and video programmers shall notify the Commission each time there is a change in any of this required information within ten (10) business days.

(j) *Captioning quality obligation; standards.* (1)(i) Prior to the compliance date of paragraph (m) of this section, a video programming distributor shall exercise best efforts to obtain a certification from each video programmer from which the distributor obtains programming stating:

(A) That the video programmer's programming satisfies the caption quality standards of paragraph (j)(2) of this section;

(B) That in the ordinary course of business, the video programmer has adopted and follows the Best Practices set forth in paragraph (k)(1) of this section; or

(C) That the video programmer is exempt from the closed captioning rules under one or more properly attained exemptions.

(ii) For programmers certifying exemption from the closed captioning rules, the video programming distributor must obtain a certification from the programmer that specifies the exact exemption that the programmer is claiming. Video programming distributors may satisfy their best efforts obligation by locating a programmer's certification on the programmer's website or other widely available locations used for the purpose of posting

widely available certifications. If a video programming distributor is unable to locate such certification on the programmer's website or other widely available location used for the purpose of posting such certification, the video programming distributor must inform the video programmer in writing that it must make widely available such certification within 30 days after receiving the written request. If a video programmer does not make such certification widely available within 30 days after receiving a written request, the video programming distributor shall promptly submit a report to the Commission identifying such non-certifying video programmer for the purpose of being placed in a publicly available database. A video programming distributor that meets each of the requirements of this paragraph shall not be liable for violations of paragraphs (j)(2) and (3) of this section to the extent that any such violations are outside the control of the video programming distributor. Compliance with this paragraph (j)(1) shall not be required as of the compliance date of paragraph (m) of this section. The Commission will publish a document in the FEDERAL REGISTER announcing that compliance date and revising this paragraph accordingly.

(2) *Captioning quality standards.* Closed captioning shall convey the aural content of video programming in the original language (*i.e.* English or Spanish) to individuals who are deaf and hard of hearing to the same extent that the audio track conveys such content to individuals who are able to hear. Captioning shall be accurate, synchronous, complete, and appropriately placed as those terms are defined herein.

(i) *Accuracy.* Captioning shall match the spoken words (or song lyrics when provided on the audio track) in their original language (English or Spanish), in the order spoken, without substituting words for proper names and places, and without paraphrasing, except to the extent that paraphrasing is necessary to resolve any time constraints. Captions shall contain proper spelling (including appropriate homophones), appropriate punctuation and capitalization, correct tense and

use of singular or plural forms, and accurate representation of numbers with appropriate symbols or words. If slang or grammatical errors are intentionally used in a program's dialogue, they shall be mirrored in the captions. Captioning shall provide nonverbal information that is not observable, such as the identity of speakers, the existence of music (whether or not there are also lyrics to be captioned), sound effects, and audience reaction, to the greatest extent possible, given the nature of the program. Captions shall be legible, with appropriate spacing between words for readability.

(ii) *Synchronicity.* Captioning shall coincide with the corresponding spoken words and sounds to the greatest extent possible, given the type of the programming. Captions shall begin to appear at the time that the corresponding speech or sounds begin and end approximately when the speech or sounds end. Captions shall be displayed on the screen at a speed that permits them to be read by viewers.

(iii) *Completeness.* Captioning shall run from the beginning to the end of the program, to the fullest extent possible.

(iv) *Placement.* Captioning shall be viewable and shall not block other important visual content on the screen, including, but not limited to, character faces, featured text (*e.g.*, weather or other news updates, graphics and credits), and other information that is essential to understanding a program's content when the closed captioning feature is activated. Caption font shall be sized appropriately for legibility. Lines of caption shall not overlap one another and captions shall be adequately positioned so that they do not run off the edge of the video screen.

(3) *Application of captioning quality standards.* Video Programmers shall ensure that captioning meet the standards of paragraph (j)(2) of this section for accuracy, synchronicity, completeness and placement, except for *de minimis* captioning errors. In determining whether a captioning error is *de minimis*, the Commission will consider the particular circumstances presented, including the type of failure, the reason for the failure, whether the failure was one-time or continuing, the degree to

which the program was understandable despite the errors, and the time frame within which corrective action was taken to prevent such failures from recurring. When applying such standards to live and near-live programming, the Commission will also take into account, on a case-by-case basis, the following factors:

(i) *Accuracy*. The overall accuracy or understandability of the programming, the ability of the captions to convey the aural content of the program in a manner equivalent to the aural track, and the extent to which the captioning errors prevented viewers from having access to the programming.

(ii) *Synchronicity*. The extent to which measures have been taken, to the extent technically feasible, to keep any delay in the presentation of captions to a minimum, consistent with an accurate presentation of what is being said, so that the time between when words are spoken or sounds occur and captions appear does not interfere with the ability of viewers to follow the program.

(iii) *Completeness*. The delays inherent in sending captioning transmissions on live programs, and whether steps have been taken, to the extent technically feasible, to minimize the lag between the time a program's audio is heard and the time that captions appear, so that captions are not cut off when the program transitions to a commercial or a subsequent program.

(iv) *Placement*. The type and nature of the programming and its susceptibility to unintentional blocking by captions.

(k) *Captioning Best Practices*—(1) *Video Programmer Best Practices*. Video programmers adopting Best Practices will adhere to the following practices.

(i) *Agreements with captioning services*. Video programmers adopting Best Practices will take the following actions to promote the provision of high quality television closed captions through new or renewed agreements with captioning vendors.

(A) *Performance requirements*. Include performance requirements designed to promote the creation of high quality closed captions for video programming, comparable to those described in paragraphs (k)(2), (k)(3) and (k)(4) of this section.

(B) *Verification*. Include a means of verifying compliance with such performance requirements, such as through periodic spot checks of captioned programming.

(C) *Training*. Include provisions designed to ensure that captioning vendors' employees and contractors who provide caption services have received appropriate training and that there is oversight of individual captioners' performance.

(ii) *Operational Best Practices*. Video programmers adopting Best Practices will take the following actions to promote delivery of high quality television captions through improved operations.

(A) *Preparation materials*. To the extent available, provide captioning vendors with advance access to preparation materials such as show scripts, lists of proper names (people and places), and song lyrics used in the program, as well as to any dress rehearsal or rundown that is available and relevant.

(B) *Quality audio*. Make commercially reasonable efforts to provide captioning vendors with access to a high quality program audio signal to promote accurate transcription and minimize latency.

(C) *Captioning for prerecorded programming*. (1) The presumption is that prerecorded programs, excluding programs that initially aired with real-time captions, will be captioned offline before air except when, in the exercise of a programmer's commercially reasonable judgment, circumstances require real-time or live display captioning. Examples of commercially reasonable exceptions may include instances when:

(i) A programmer's production is completed too close to initial air time be captioned offline or may require editorial changes up to air time (e.g., news content, reality shows),

(ii) A program is delivered late,

(iii) There are technical problems with the caption file,

(iv) Last minute changes must be made to later network feeds (e.g., when shown in a later time zone) due to unforeseen circumstances,

(v) There are proprietary or confidentiality considerations, or

(vi) Video programming networks or channels with a high proportion of live or topical time-sensitive programming, but also some pre-recorded programs, use real-time captioning for all content (including pre-recorded programs) to allow for immediate captioning of events or breaking news stories that interrupt scheduled programming.

(2) The video programmer will make reasonable efforts to employ live display captioning instead of real-time captioning for prerecorded programs if the complete program can be delivered to the caption service provider in sufficient time prior to airing.

(iii) *Monitoring and Remedial Best Practices.* Video programmers adopting Best Practices will take the following actions aimed at improving prompt identification and remediation of captioning errors when they occur.

(A) *Pre-air monitoring of offline captions.* As part of the overall pre-air quality control process for television programs, conduct periodic checks of offline captions on prerecorded programs to determine the presence of captions.

(B) *Real-time monitoring of captions.* Monitor television program streams at point of origination (e.g., monitors located at the network master control point or electronic monitoring) to determine presence of captions.

(C) *Programmer and captioning vendor contacts.* Provide to captioning vendors appropriate staff contacts who can assist in resolving captioning issues. Make captioning vendor contact information readily available in master control or other centralized location, and contact captioning vendor promptly if there is a caption loss or obvious compromise of captions.

(D) *Recording of captioning issues.* Maintain a log of reported captioning issues, including date, time of day, program title, and description of the issue. Beginning one year after the effective date of the captioning quality standards, such log should reflect reported captioning issues from the prior year.

(E) *Troubleshooting protocol.* Develop procedures for troubleshooting consumer captioning complaints within the distribution chain, including identifying relevant points of contact, and

work to promptly resolve captioning issues, if possible.

(F) *Accuracy spot checks.* Within 30 days following notification of a pattern or trend of complaints from the Commission, conduct spot checks of television program captions to assess caption quality and address any ongoing concerns.

(iv) *Certification procedures for video programmers.* Video programmers adopting Best Practices will take one of the following actions to certify that they adhere to Best Practices for video programmers.

(A) Prior to the compliance date of paragraph (m) of this section, video programmers adopting Best Practices will certify to video programming distributors that they adhere to Best Practices for video programmers and will make such certifications widely available to video programming distributors, for example, by posting on affiliate websites.

(B) As of the compliance date of paragraph (m) of this section, video programmers adopting Best Practices will certify to the Commission that they adhere to Best Practices for video programmers, in accordance with paragraph (m) of this section.

(2) *Real-Time (Live) Captioning Vendors Best Practices.* (i) Create and use metrics to assess accuracy, synchronicity, completeness, and placement of real-time captions.

(ii) Establish minimum acceptable standards based upon those metrics while striving to regularly exceed those minimum standards.

(iii) Perform frequent and regular evaluations and sample audits to ensure those standards are maintained.

(iv) Consider “accuracy” of captions to be a measurement of the percentage of correct words out of total words in the program, calculated by subtracting number of errors from total number of words in the program, dividing that number by total number of words in the program and converting that number to a percentage. For example, 7,000 total words in the program minus 70 errors equals 6,930 correct words captioned, divided by 7,000 total words in the program equals 0.99 or 99% accuracy.

(v) Consider, at a minimum, mistranslated words, incorrect words, misspelled words, missing words, and incorrect punctuation that impedes comprehension and misinformation as errors.

(A) Captions are written in a near-verbatim style as possible, minimizing paraphrasing.

(B) The intended message of the spoken dialogue is conveyed in the associated captions in a clear and comprehensive manner.

(C) Music lyrics should accompany artist performances.

(vi) Consider synchronicity of captions to be a measurement of lag between the spoken word supplied by the program origination point and when captions are received at the same program origination point.

(vii) Ensure placement of captions on screen to avoid obscuring on-screen information and graphics (e.g., sports coverage).

(viii) Ensure proper screening, training, supervision, and evaluation of captioners by experienced and qualified real-time captioning experts.

(ix) Ensure there is an infrastructure that provides technical and other support to video programmers and captioners at all times.

(x) Ensure that captioners are qualified for the type and difficulty level of the programs to which they are assigned.

(xi) Utilize a system that verifies captioners are prepared and in position prior to a scheduled assignment.

(xii) Ensure that technical systems are functional and allow for fastest possible delivery of caption data and that failover systems are in place to prevent service interruptions.

(xiii) Regularly review discrepancy reports in order to correct issues and avoid future issues.

(xiv) Respond in a timely manner to concerns raised by video programmers or viewers.

(xv) Alert video programmers immediately if a technical issue needs to be addressed on their end.

(xvi) Inform video programmers of appropriate use of real-time captioning (*i.e.*, for live and near-live programming, and not for prerecorded programming) and what is necessary to produce

quality captions, including technical requirements and the need for preparatory materials.

(xvii) For better coordination for ensuring high quality captions and for addressing problems as they arise, understand the roles and responsibilities of other stakeholders in the closed-captioning process, including broadcasters, producers, equipment manufacturers, regulators, and viewers, and keep abreast of issues and developments in those sectors.

(xviii) Ensure that all contracted captioners adhere to the Real-Time Captioners Best Practices contained in paragraph (k)(3) of this section.

(3) *Real-Time Captioners Best Practices.*

(i) Caption as accurately, synchronously, completely, and appropriately placed as possible, given the nature of the programming.

(ii) Ensure they are equipped with a failover plan to minimize caption interruption due to captioner or equipment malfunction.

(iii) Be equipped with reliable, high speed Internet.

(iv) Be equipped with multiple telephone lines.

(v) Prepare as thoroughly as possible for each program.

(vi) File thorough discrepancy reports with the captioning vendor in a timely manner.

(vii) To the extent possible given the circumstances of the program, ensure that real-time captions are complete when the program ends.

(viii) Engage the command that allows captions to pass at commercials and conclusion of broadcasts.

(ix) Monitor captions to allow for immediate correction of errors and prevention of similar errors appearing or repeating in captions.

(x) Perform frequent and regular self-evaluations.

(xi) Perform regular dictionary maintenance.

(xii) Keep captioning equipment in good working order and update software and equipment as needed.

(xiii) Possess the technical skills to troubleshoot technical issues.

(xiv) Keep abreast of current events and topics that they caption.

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(4) *Offline (Prerecorded) Captioning Vendors Best Practices.* (i) Ensure offline captions are verbatim.

(ii) Ensure offline captions are error-free.

(iii) Ensure offline captions are punctuated correctly and in a manner that facilitates comprehension.

(iv) Ensure offline captions are synchronized with the audio of the program.

(v) Ensure offline captions are displayed with enough time to be read completely and that they do not obscure the visual content.

(vi) [Reserved]

(vii) Ensure offline captioning is a complete textual representation of the audio, including speaker identification and non-speech information.

(viii) Create or designate a manual of style to be applied in an effort to achieve uniformity in presentation.

(ix) Employ frequent and regular evaluations to ensure standards are maintained.

(x) Inform video programmers of appropriate uses of real-time and offline captioning and strive to provide offline captioning for prerecorded programming.

(A) Encourage use of offline captioning for live and near-live programming that originally aired on television and re-feeds at a later time.

(B) Encourage use of offline captioning for all original and library prerecorded programming completed well in advance of its distribution on television.

(xi) For better coordination for ensuring high quality captions and for addressing problems as they arise, understand the roles and responsibilities of other stakeholders in the closed-captioning process, including video program distributors, video programmers, producers, equipment manufacturers, regulators, and viewers, and keep abreast of issues and developments in those sectors.

(1) [Reserved]

(m) *Video programmer certification.* (1) On or before the compliance date, or prior to the first time a video programmer that has not previously provided video programming shown on television provides video programming for television for the first time, whichever

is later, and on or before July 1 of each year thereafter, each video programmer shall submit a certification to the Commission through a web form located on the Commission's website stating that:

(i) The video programmer provides closed captioning for its programs in compliance with the Commission's rules; and

(ii) The video programmers' programs either satisfy the caption quality standards of paragraph (j)(2) of this section; or in the ordinary course of business, the video programmer has adopted and follows the Best Practices set forth in paragraph (k)(1) of this section.

(2) If all of video programmer's programs are exempt from the closed captioning rules under one or more of the exemptions set forth in this section, in lieu of the certification required by paragraph (m)(1) of this section, the video programmer shall submit a certification to the Commission through a web form located on the Commission's Web site stating that all of its programs are exempt from the closed captioning rules and specify each category of exemption claimed by the video programmer.

(3) If some of a video programmer's programs are exempt from the closed captioning rules under one or more of the exemptions set forth in this section, as part of the certification required by paragraph (m)(1) of this section, the video programmer shall include a certification stating that some of its programs are exempt from the closed captioning rules and specify each category of exemption claimed by the video programmer.

(4) A television broadcast station licensed pursuant to part 73 of this chapter or a low power television broadcast station licensed pursuant to part 74, subpart G, of this chapter, or the owner of either such station, is not required to provide a certification for video programming that is broadcast by the television broadcast station.

(5) Compliance with paragraphs (m)(1) through (4) of this section is not required until the Commission publishes a document in the FEDERAL REGISTER announcing the compliance date

and revising this paragraph accordingly.

[62 FR 48493, Sept. 16, 1997, as amended at 63 FR 55962, Oct. 20, 1998; 64 FR 33424, June 23, 1999; 65 FR 58477, Sept. 29, 2000; 69 FR 72047, Dec. 10, 2004; 74 FR 1604, Jan. 13, 2009; 74 FR 46703, Sept. 11, 2009; 75 FR 7369, Feb. 19, 2010; 77 FR 19515, Mar. 30, 2012; 77 FR 48104, Aug. 13, 2012; 79 FR 17926, Mar. 31, 2014; 79 FR 77916, Dec. 29, 2014; 81 FR 57485, Aug. 23, 2016; 86 FR 51013, Sept. 14, 2021; 86 FR 70750, Dec. 13, 2021; 87 FR 54630, Sept. 7, 2022]

§79.2 Accessibility of programming providing emergency information.

(a) *Definitions.* (1) For purposes of this section, the definitions in §§79.1 and 79.3 apply.

(2) *Emergency information.* Information, about a current emergency, that is intended to further the protection of life, health, safety, and property, *i.e.*, critical details regarding the emergency and how to respond to the emergency. Examples of the types of emergencies covered include tornadoes, hurricanes, floods, tidal waves, earthquakes, icing conditions, heavy snows, widespread fires, discharge of toxic gases, widespread power failures, industrial explosions, civil disorders, school closings and changes in school bus schedules resulting from such conditions, and warnings and watches of impending changes in weather.

NOTE TO PARAGRAPH (a)(2): Critical details include, but are not limited to, specific details regarding the areas that will be affected by the emergency, evacuation orders, detailed descriptions of areas to be evacuated, specific evacuation routes, approved shelters or the way to take shelter in one's home, instructions on how to secure personal property, road closures, and how to obtain relief assistance.

(b) Requirements for accessibility of programming providing emergency information.

(1) Video programming distributors must make emergency information, as defined in paragraph (a) of this section, that is provided in the audio portion of the programming accessible to persons with hearing disabilities by using a method of closed captioning or by using a method of visual presentation, as described in §79.1.

(2) Video programming distributors and video programming providers must make emergency information, as de-

defined in paragraph (a) of this section, accessible as follows:

(i) Emergency information that is provided visually during a regularly scheduled newscast, or newscast that interrupts regular programming, must be made accessible to individuals who are blind or visually impaired; and

(ii) Emergency information that is provided visually during programming that is neither a regularly scheduled newscast, nor a newscast that interrupts regular programming, must be accompanied with an aural tone, and beginning May 26, 2015 except as provided in paragraph (b)(6) of this section, must be made accessible to individuals who are blind or visually impaired through the use of a secondary audio stream to provide the emergency information aurally. Emergency information provided aurally on the secondary audio stream must be preceded by an aural tone and must be conveyed in full at least twice. Emergency information provided through use of text-to-speech (“TTS”) technologies must be intelligible and must use the correct pronunciation of relevant information to allow consumers to learn about and respond to the emergency, including, but not limited to, the names of shelters, school districts, streets, districts, and proper names noted in the visual information. The video programming distributor or video programming provider that creates the visual emergency information content and adds it to the programming stream is responsible for providing an aural representation of the information on a secondary audio stream, accompanied by an aural tone. Video programming distributors are responsible for ensuring that the aural representation of the emergency information (including the accompanying aural tone) gets passed through to consumers.

(3) This rule applies to emergency information primarily intended for distribution to an audience in the geographic area in which the emergency is occurring.

(4) Video programming distributors must ensure that emergency information does not block any closed captioning and any closed captioning does not block any emergency information

provided by means other than closed captioning.

(5) Video programming distributors and video programming providers must ensure that aural emergency information provided in accordance with paragraph (b)(2)(ii) of this section supersedes all other programming on the secondary audio stream, including audio description, foreign language translation, or duplication of the main audio stream, with each entity responsible only for its own actions or omissions in this regard.

(6) Beginning July 10, 2017, multichannel video programming distributors must ensure that any application or plug-in that they provide to consumers to access linear programming on tablets, smartphones, laptops, and similar devices over the MVPD's network as part of their multichannel video programming distributor services is capable of passing through to consumers an aural representation of the emergency information (including the accompanying aural tone) on a secondary audio stream.

(c) *Complaint procedures.* A complaint alleging a violation of this section may be transmitted to the Consumer and Governmental Affairs Bureau by any reasonable means, such as the Commission's online informal complaint filing system, letter, facsimile transmission, telephone (voice/TRS/TTY), Internet email, audio-cassette recording, and Braille, or some other method that would best accommodate the complainant's disability. The complaint should include the name of the video programming distributor or the video programming provider against whom the complaint is alleged, the date and time of the omission of emergency information, and the type of emergency. The Commission will notify the video programming distributor or the video programming provider of the complaint, and the distributor or the provider will reply to the complaint within 30 days.

[65 FR 26762, May 9, 2000, as amended at 65 FR 54811, Sept. 11, 2000; 78 FR 31797, May 24, 2013; 80 FR 39714, July 10, 2015; 85 FR 76484, Nov. 30, 2020]

§ 79.3 Audio description of video programming.

(a) *Definitions.* For purposes of this section the following definitions shall apply:

(1) *Designated Market Areas (DMAs).* Unique, county-based geographic areas designated by The Nielsen Company, a television audience measurement service, based on television viewership in the counties that make up each DMA.

(2) *Video programming provider.* Any video programming distributor and any other entity that provides video programming that is intended for distribution to residential households including, but not limited to, broadcast or nonbroadcast television networks and the owners of such programming.

(3) *Audio description/video description.* The insertion of audio narrated descriptions of a television program's key visual elements into natural pauses between the program's dialogue.

(4) *Video programming.* Programming provided by, or generally considered comparable to programming provided by, a television broadcast station, but not including consumer-generated media.

(5) *Video programming distributor.* Any television broadcast station licensed by the Commission and any multichannel video programming distributor (MVPD), and any other distributor of video programming for residential reception that delivers such programming directly to the home and is subject to the jurisdiction of the Commission.

(6) *Prime time.* The period from 8 to 11 p.m. Monday through Saturday, and 7 to 11 p.m. on Sunday local time, except that in the central time zone the relevant period shall be between the hours of 7 and 10 p.m. Monday through Saturday, and 6 and 10 p.m. on Sunday, and in the mountain time zone each station shall elect whether the period shall be 8 to 11 p.m. Monday through Saturday, and 7 to 11 p.m. on Sunday, or 7 to 10 p.m. Monday through Saturday, and 6 to 10 p.m. on Sunday.

(7) *Live or near-live programming.* Programming performed either simultaneously with, or recorded no more than 24 hours prior to, its first transmission by a video programming distributor.

(8) *Children’s Programming.* Television programming directed at children 16 years of age and under.

(b) *Audio description requirements.* The following video programming distributors must provide programming with audio description as follows:

(1) Commercial television broadcast stations that are affiliated with one of the top four commercial television broadcast networks (ABC, CBS, Fox, and NBC), and that are licensed to a community located in the top 90 DMAs, as determined by The Nielsen Company as of January 1, 2023, must provide 50 hours of audio description per calendar quarter, either during prime time or on children’s programming, and 37.5 additional hours of audio description per calendar quarter between 6 a.m. and 11:59 p.m. local time, on each programming stream on which they carry one of the top four commercial television broadcast networks. If a previously unaffiliated station in one of these markets becomes affiliated with one of these networks, it must begin compliance with these requirements no later than three months after the affiliation agreement is finalized. On January 1, 2024, and on January 1 each year thereafter until January 1, 2035, the requirements of this paragraph (b)(1) shall extend to the next 10 largest DMAs as determined by The Nielsen Company as of January 1, 2023, as follows: On January 1, 2024, the requirements shall extend to DMAs 91 through 100; on January 1, 2025, the requirements shall extend to DMAs 101 through 110; on January 1, 2026, the requirements shall extend to DMAs 111 through 120; on January 1, 2027, the requirements shall extend to DMAs 121 through 130; on January 1, 2028, the requirements shall extend to DMAs 131 through 140; on January 1, 2029, the requirements shall extend to DMAs 141 through 150; on January 1, 2030, the requirements shall extend to DMAs 151 through 160; on January 1, 2031, the requirements shall extend to DMAs 161 through 170; on January 1, 2032, the requirements shall extend to DMAs 171 through 180; on January 1, 2033, the requirements shall extend to DMAs 181 through 190; on January 1, 2034, the requirements shall extend to DMAs 191 through 200; and on

January 1, 2035, the requirements shall extend to DMAs 201 through 210;

(2) [Reserved]

(3) Television broadcast stations that are affiliated or otherwise associated with any television network must pass through audio description when the network provides audio description and the broadcast station has the technical capability necessary to pass through the audio description, unless it is using the technology used to provide audio description for another purpose related to the programming that would conflict with providing the audio description;

(4) Multichannel video programming distributor (MVPD) systems that serve 50,000 or more subscribers must provide 50 hours of audio description per calendar quarter during prime time or children’s programming, and 37.5 additional hours of audio description per calendar quarter between 6 a.m. and 11:59 p.m. local time, on each channel on which they carry one of the top five national nonbroadcast networks, as defined by an average of the national audience share during prime time of nonbroadcast networks that reach 50 percent or more of MVPD households and have at least 50 hours per quarter of prime time programming that is not live or near-live or otherwise exempt under this part. Initially, the top five networks are those determined by The Nielsen Company, for the time period October 2009–September 2010, and will update at three year intervals. The first update will be July 1, 2015, based on the ratings for the time period October 2013–September 2014; the second will be July 1, 2018, based on the ratings for the time period October 2016–September 2017; and so on; and

(5) Multichannel video programming distributor (MVPD) systems of any size:

(i) Must pass through audio description on each broadcast station they carry, when the broadcast station provides audio description, and the channel on which the MVPD distributes the programming of the broadcast station has the technical capability necessary to pass through the audio description, unless it is using the technology used

to provide audio description for another purpose related to the programming that would conflict with providing the audio description; and

(ii) Must pass through audio description on each nonbroadcast network they carry, when the network provides audio description, and the channel on which the MVPD distributes the programming of the network has the technical capability necessary to pass through the audio description, unless it is using the technology used to provide audio description for another purpose related to the programming that would conflict with providing the audio description.

(c) *Responsibility for and determination of compliance.* (1) The Commission will calculate compliance on a per channel, and, for broadcasters, a per stream, calendar quarter basis, beginning with the calendar quarter July 1 through September 30, 2012.

(2) In order to meet its quarterly requirement, a broadcaster or MVPD may count each program it airs with audio description no more than a total of two times on each channel on which it airs the program. A broadcaster or MVPD may count the second airing in the same or any one subsequent quarter. A broadcaster may only count programs aired on its primary broadcasting stream towards its quarterly requirement. A broadcaster carrying one of the top four commercial television broadcast networks on a secondary stream may count programs aired on that stream toward its quarterly requirement for that network only.

(3) Once a commercial television broadcast station as defined under paragraph (b)(1) of this section has aired a particular program with audio description, it is required to include audio description with all subsequent airings of that program on that same broadcast station, unless it is using the technology used to provide audio description for another purpose related to the programming that would conflict with providing the audio description.

(4) Once an MVPD as defined under paragraph (b)(4) of this section:

(i) Has aired a particular program with audio description on a broadcast station it carries, it is required to in-

clude audio description with all subsequent airings of that program on that same broadcast station, unless it is using the technology used to provide audio description for another purpose related to the programming that would conflict with providing the audio description; or

(ii) Has aired a particular program with audio description on a nonbroadcast network it carries, it is required to include audio description with all subsequent airings of that program on that same nonbroadcast network, unless it is using the technology used to provide audio description for another purpose related to the programming that would conflict with providing the audio description.

(5) In evaluating whether a video programming distributor has complied with the requirement to provide video programming with audio description, the Commission will consider showings that any lack of audio description was de minimis and reasonable under the circumstances.

(d) *Procedures for exemptions based on economic burden.* (1) A video programming provider may petition the Commission for a full or partial exemption from the audio description requirements of this section, which the Commission may grant upon a finding that the requirements would be economically burdensome.

(2) The petitioner must support a petition for exemption with sufficient evidence to demonstrate that compliance with the requirements to provide programming with audio description would be economically burdensome. The term “economically burdensome” means imposing significant difficulty or expense. The Commission will consider the following factors when determining whether the requirements for audio description would be economically burdensome:

(i) The nature and cost of providing audio description of the programming;

(ii) The impact on the operation of the video programming provider;

(iii) The financial resources of the video programming provider; and

(iv) The type of operations of the video programming provider.

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(3) In addition to the factors in paragraph (d)(2) of this section, the petitioner must describe any other factors it deems relevant to the Commission's final determination and any available alternative that might constitute a reasonable substitute for the audio description requirements. The Commission will evaluate economic burden with regard to the individual outlet.

(4) The petitioner must file an original and two (2) copies of a petition requesting an exemption based on the economically burdensome standard in this paragraph, and all subsequent pleadings, in accordance with § 0.401(a) of this chapter.

(5) The Commission will place the petition on public notice.

(6) Any interested person may file comments or oppositions to the petition within 30 days of the public notice of the petition. Within 20 days of the close of the comment period, the petitioner may reply to any comments or oppositions filed.

(7) Persons that file comments or oppositions to the petition must serve the petitioner with copies of those comments or oppositions and must include a certification that the petitioner was served with a copy. Parties filing replies to comments or oppositions must serve the commenting or opposing party with copies of such replies and shall include a certification that the party was served with a copy.

(8) Upon a finding of good cause, the Commission may lengthen or shorten any comment period and waive or establish other procedural requirements.

(9) Persons filing petitions and responsive pleadings must include a detailed, full showing, supported by affidavit, of any facts or considerations relied on.

(10) The Commission may deny or approve, in whole or in part, a petition for an economic burden exemption from the audio description requirements.

(11) During the pendency of an economic burden determination, the Commission will consider the video programming subject to the request for exemption as exempt from the audio description requirements.

(e) *Complaint procedures.*(1) A complainant may file a complaint con-

cerning an alleged violation of the audio description requirements of this section by transmitting it to the Consumer and Governmental Affairs Bureau at the Commission by any reasonable means, such as letter, facsimile transmission, telephone (voice/TRS/TTY), email, audio-cassette recording, and Braille, or some other method that would best accommodate the complainant's disability. Complaints should be addressed to: Consumer and Governmental Affairs Bureau, located at the address of the FCC's main office indicated in 47 CFR 0.401(a). A complaint must include:

(i) The name and address of the complainant;

(ii) The name and address of the broadcast station against whom the complaint is alleged and its call letters and network affiliation, or the name and address of the MVPD against whom the complaint is alleged and the name of the network that provides the programming that is the subject of the complaint;

(iii) A statement of facts sufficient to show that the video programming distributor has violated or is violating the Commission's rules, and, if applicable, the date and time of the alleged violation;

(iv) The specific relief or satisfaction sought by the complainant;

(v) The complainant's preferred format or method of response to the complaint (such as letter, facsimile transmission, telephone (voice/TRS/TTY), Internet email, or some other method that would best accommodate the complainant's disability); and

(vi) A certification that the complainant attempted in good faith to resolve the dispute with the broadcast station or MVPD against whom the complaint is alleged.

(2) The Commission will promptly forward complaints satisfying the above requirements to the video programming distributor involved. The video programming distributor must respond to the complaint within a specified time, generally within 30 days. The Commission may authorize Commission staff either to shorten or lengthen the time required for responding to complaints in particular cases.

The answer to a complaint must include a certification that the video programming distributor attempted in good faith to resolve the dispute with the complainant.

(3) The Commission will review all relevant information provided by the complainant and the video programming distributor and will request additional information from either or both parties when needed for a full resolution of the complaint.

(i) The Commission may rely on certifications from programming suppliers, including programming producers, programming owners, networks, syndicators and other distributors, to demonstrate compliance. The Commission will not hold the video programming distributor responsible for situations where a program source falsely certifies that programming that it delivered to the video programming distributor meets the audio description requirements of this section if the video programming distributor is unaware that the certification is false. Appropriate action may be taken with respect to deliberate falsifications.

(ii) If the Commission finds that a video programming distributor has violated the audio description requirements of this section, it may impose penalties, including a requirement that the video programming distributor deliver video programming containing audio description in excess of its requirements.

(f) *Private rights of action are prohibited.* Nothing in this section shall be construed to authorize any private right of action to enforce any requirement of this section. The Commission shall have exclusive jurisdiction with respect to any complaint under this section.

[76 FR 55604, Sept. 8, 2011, as amended at 76 FR 68118, Nov. 3, 2011; 82 FR 37354, Aug. 10, 2017; 85 FR 64409, Oct. 13, 2020; 85 FR 76485, Nov. 30, 2020; 88 FR 773762, Oct. 27, 2023]

§ 79.4 Closed captioning of video programming delivered using Internet protocol.

(a) *Definitions.* For purposes of this section the following definitions shall apply:

(1) *Video programming.* Programming provided by, or generally considered

comparable to programming provided by, a television broadcast station, but not including consumer-generated media.

(2) *Full-length video programming.* Video programming that appears on television and is distributed to end users, substantially in its entirety, via Internet protocol, excluding video clips or outtakes.

(3) *Video programming distributor or video programming provider.* Any person or entity that makes available directly to the end user video programming through a distribution method that uses Internet protocol.

(4) *Video programming owner.* Any person or entity that either:

(i) Licenses the video programming to a video programming distributor or provider that makes the video programming available directly to the end user through a distribution method that uses Internet protocol; or

(ii) Acts as the video programming distributor or provider, and also possesses the right to license the video programming to a video programming distributor or provider that makes the video programming available directly to the end user through a distribution method that uses Internet protocol.

(5) *Internet protocol.* Includes Transmission Control Protocol and a successor protocol or technology to Internet protocol.

(6) *Closed captioning.* The visual display of the audio portion of video programming pursuant to the technical specifications set forth in this part.

(7) *Live programming.* Video programming that is shown on television substantially simultaneously with its performance.

(8) *Near-live programming.* Video programming that is performed and recorded less than 24 hours prior to the time it was first aired on television.

(9) *Prerecorded programming.* Video programming that is not “live” or “near-live.”

(10) *Edited for Internet distribution.* Video programming for which the television version is substantially edited prior to its Internet distribution.

(11) *Consumer-generated media.* Content created and made available by consumers to online Web sites and

services on the Internet, including video, audio, and multimedia content.

(12) *Video clips*. Excerpts of full-length video programming.

(13) *Outtakes*. Content that is not used in an edited version of video programming shown on television.

(14) *Nonexempt programming*. Video programming that is not exempted under paragraph (d) of this section and, accordingly, is subject to closed captioning requirements set forth in this section.

(b) *Requirements for closed captioning of Internet protocol-delivered video programming*. (1) All nonexempt full-length video programming delivered using Internet protocol must be provided with closed captions if the programming is published or exhibited on television in the United States with captions on or after the following dates:

(i) September 30, 2012, for all prerecorded programming that is not edited for Internet distribution, unless it is subject to paragraph (b)(1)(iv) of this section.

(ii) March 30, 2013, for all live and near-live programming, unless it is subject to paragraph (b)(1)(iv) of this section.

(iii) September 30, 2013, for all prerecorded programming that is edited for Internet distribution, unless it is subject to paragraph (b)(1)(iv) of this section.

(iv) All programming that is already in the video programming distributor's or provider's library before it is shown on television with captions must be captioned within 45 days after the date it is shown on television with captions on or after March 30, 2014 and before March 30, 2015. Such programming must be captioned within 30 days after the date it is shown on television with captions on or after March 30, 2015 and before March 30, 2016. Such programming must be captioned within 15 days after the date it is shown on television with captions on or after March 30, 2016.

(2) All nonexempt video clips delivered using Internet protocol must be provided with closed captions if the video programming distributor or provider posts on its Web site or application a video clip of video programming that it published or exhibited on tele-

vision in the United States with captions on or after the applicable compliance deadline. The requirements contained in this paragraph shall not apply to video clips added to the video programming distributor's or provider's library before the video programming distributor or provider published or exhibited the associated video programming on television in the United States with captions on or after the applicable compliance deadline.

(1) The requirements contained in paragraph (b)(2) of this section shall apply with the following compliance deadlines:

(A) January 1, 2016, where the video clip contains a single excerpt of a captioned television program with the same video and audio that was presented on television.

(B) January 1, 2017, where a single file contains multiple video clips that each contain a single excerpt of a captioned television program with the same video and audio that was presented on television.

(C) July 1, 2017, for video clips of live and near-live programming.

(ii) Closed captions must be provided for video clips of live programming within 12 hours after the conclusion of the associated video programming's publication or exhibition on television in the United States with captions. Closed captions must be provided for video clips of near-live programming within eight hours after the conclusion of the associated video programming's publication or exhibition on television in the United States with captions.

(c) *Obligations of video programming owners, distributors and providers—(1) Obligations of video programming owners*. Each video programming owner must:

(i) Send program files to video programming distributors and providers with captions as required by this section, with at least the same quality as the television captions provided for the same programming. If a video programming owner provides captions to a video programming distributor or provider using the Society of Motion Picture and Television Engineers Timed Text format (SMPTE ST 2052-1:2010, incorporated by reference, see § 79.100), then the VPO has fulfilled its obligation to deliver captions to the video

programming distributor or provider in an acceptable format. A video programming owner and a video programming distributor or provider may agree upon an alternative technical format for the delivery of captions to the video programming distributor or provider.

(ii) With each video programming distributor and provider that such owner licenses to distribute video programming directly to the end user through a distribution method that uses Internet protocol, agree upon a mechanism to inform such distributors and providers on an ongoing basis whether video programming is subject to the requirements of this section.

(2) *Obligations of video programming distributors and providers.* Each video programming distributor and provider must:

(i) Enable the rendering or pass through of all required captions to the end user, maintaining the quality of the captions provided by the video programming owner and transmitting captions in a format reasonably designed to reach the end user in that quality. A video programming distributor or provider that provides applications, plugins, or devices in order to deliver video programming must comply with the requirements of § 79.103(c) and (d).

(ii) With each video programming owner from which such distributor or provider licenses video programming for distribution directly to the end user through a distribution method that uses Internet protocol, agree upon a mechanism to inform such distributor or provider on an ongoing basis whether video programming is subject to the requirements of this section, and make a good faith effort to identify video programming subject to the requirements of this section using the agreed upon mechanism. A video programming distributor or provider may rely in good faith on a certification by a video programming owner that the video programming need not be captioned if:

(A) The certification includes a clear and concise explanation of why captioning is not required; and

(B) The video programming distributor or provider is able to produce the certification to the Commission in the event of a complaint.

(iii) Make contact information available to end users for the receipt and handling of written closed captioning complaints alleging violations of this section. The contact information required for written complaints shall include the name of a person with primary responsibility for Internet protocol captioning issues and who can ensure compliance with these rules. In addition, this contact information shall include the person's title or office, telephone number, fax number, postal mailing address, and email address. Video programming distributors and providers shall keep this information current and update it within 10 business days of any change.

(3) A video programming provider's or owner's *de minimis* failure to comply with this section shall not be treated as a violation of the requirements.

(d) *Procedures for exemptions based on economic burden.* (1) A video programming provider or owner may petition the Commission for a full or partial exemption from the closed captioning requirements of this section, which the Commission may grant upon a finding that the requirements would be economically burdensome.

(2) The petitioner must support a petition for exemption with sufficient evidence to demonstrate that compliance with the requirements for closed captioning of video programming delivered via Internet protocol would be economically burdensome. The term "economically burdensome" means imposing significant difficulty or expense. The Commission will consider the following factors when determining whether the requirements for closed captioning of Internet protocol-delivered video programming would be economically burdensome:

(i) The nature and cost of the closed captions for the programming;

(ii) The impact on the operation of the video programming provider or owner;

(iii) The financial resources of the video programming provider or owner; and

(iv) The type of operations of the video programming provider or owner.

(3) In addition to these factors, the petitioner must describe any other factors it deems relevant to the Commission's final determination and any available alternatives that might constitute a reasonable substitute for the closed captioning requirements of this section including, but not limited to, text or graphic display of the content of the audio portion of the programming. The Commission will evaluate economic burden with regard to the individual outlet.

(4) The petitioner must electronically file its petition for exemption, and all subsequent pleadings related to the petition, in accordance with § 0.401(a)(1)(iii) of this chapter.

(5) The Commission will place the petition on public notice.

(6) Any interested person may electronically file comments or oppositions to the petition within 30 days after release of the public notice of the petition. Within 20 days after the close of the period for filing comments or oppositions, the petitioner may reply to any comments or oppositions filed.

(7) Persons who file comments or oppositions to the petition must serve the petitioner with copies of those comments or oppositions and must include a certification that the petitioner was served with a copy. Any petitioner filing a reply to comments or oppositions must serve the commenting or opposing party with a copy of the reply and shall include a certification that the party was served with a copy. Comments or oppositions and replies shall be served upon a party, its attorney, or its other duly constituted agent by delivering or mailing a copy to the party's last known address in accordance with § 1.47 of this chapter or by sending a copy to the email address last provided by the party, its attorney, or other duly constituted agent.

(8) Upon a finding of good cause, the Commission may lengthen or shorten any comment period and waive or establish other procedural requirements.

(9) Persons filing petitions and responsive pleadings must include a detailed, full showing, supported by affidavit, of any facts or considerations relied on.

(10) The Commission may deny or approve, in whole or in part, a petition

for an economic burden exemption from the closed captioning requirements of this section.

(11) During the pendency of an economic burden determination, the Commission will consider the video programming subject to the request for exemption as exempt from the requirements of this section.

(e) *Complaint procedures.* (1) Complaints concerning an alleged violation of the closed captioning requirements of this section shall be filed in writing with the Commission or with the video programming distributor or provider responsible for enabling the rendering or pass through of the closed captions for the video programming within sixty (60) days after the date the complainant experienced a problem with captioning. A complaint filed with the Commission must be directed to the Consumer and Governmental Affairs Bureau and submitted through the Commission's online informal complaint filing system, U.S. Mail, overnight delivery, or facsimile.

(2) A complaint should include the following information:

(i) The name, postal address, and other contact information of the complainant, such as telephone number or email address;

(ii) The name and postal address, Web site, or email address of the video programming distributor, provider, and/or owner against which the complaint is alleged, and information sufficient to identify the video programming involved;

(iii) Information sufficient to identify the software or device used to view the program;

(iv) A statement of facts sufficient to show that the video programming distributor, provider, and/or owner has violated or is violating the Commission's rules, and the date and time of the alleged violation;

(v) The specific relief or satisfaction sought by the complainant; and

(vi) The complainant's preferred format or method of response to the complaint (such as letter, facsimile transmission, telephone (voice/TRS/TTY), email, or some other method that would best accommodate the complainant).

(3) If a complaint is filed first with the Commission, the Commission will forward complaints satisfying the above requirements to the named video programming distributor, provider, and/or owner, as well as to any other video programming distributor, provider, and/or owner that Commission staff determines may be involved. The video programming distributor, provider, and/or owner must respond in writing to the Commission and the complainant within 30 days after receipt of the complaint from the Commission.

(4) If a complaint is filed first with the video programming distributor or provider, the video programming distributor or provider must respond in writing to the complainant within thirty (30) days after receipt of a closed captioning complaint. If a video programming distributor or provider fails to respond to the complainant within thirty (30) days, or the response does not satisfy the consumer, the complainant may file the complaint with the Commission within thirty (30) days after the time allotted for the video programming distributor or provider to respond. If a consumer re-files the complaint with the Commission (after filing with the distributor or provider) and the complaint satisfies the above requirements, the Commission will forward the complaint to the named video programming distributor or provider, as well as to any other video programming distributor, provider, and/or owner that Commission staff determines may be involved. The video programming distributor, provider, and/or owner must then respond in writing to the Commission and the complainant within 30 days after receipt of the complaint from the Commission.

(5) In response to a complaint, video programming distributors, providers, and/or owners shall file with the Commission sufficient records and documentation to prove that the responding entity was (and remains) in compliance with the Commission's rules. Conclusory or insufficiently supported assertions of compliance will not carry a video programming distributor's, provider's, or owner's burden of proof. If the responding entity admits that it was not or is not in compliance with

the Commission's rules, it shall file with the Commission sufficient records and documentation to explain the reasons for its noncompliance, show what remedial steps it has taken or will take, and show why such steps have been or will be sufficient to remediate the problem.

(6) The Commission will review all relevant information provided by the complainant and the subject video programming distributors, providers, and/or owners, as well as any additional information the Commission deems relevant from its files or public sources. The Commission may request additional information from any relevant entities when, in the estimation of Commission staff, such information is needed to investigate the complaint or adjudicate potential violation(s) of Commission rules. When the Commission requests additional information, parties to which such requests are addressed must provide the requested information in the manner and within the time period the Commission specifies.

(7) If the Commission finds that a video programming distributor, provider, or owner has violated the closed captioning requirements of this section, it may employ the full range of sanctions and remedies available under the Communications Act of 1934, as amended, against any or all of the violators.

(f) *Private rights of action prohibited.* Nothing in this section shall be construed to authorize any private right of action to enforce any requirement of this section. The Commission shall have exclusive jurisdiction with respect to any complaint under this section.

[77 FR 19515, Mar. 30, 2012, as amended at 79 FR 45371, Aug. 5, 2014]

Subpart B—Apparatus

SOURCE: 78 FR 77251, Dec. 20, 2013, unless otherwise noted.

§ 79.100 Incorporation by reference.

(a) Certain material is incorporated by reference into this part with the approval of the Director of the Federal Register under 5 U.S.C. 552(a) and 1

CFR part 51. To enforce any edition other than that specified in this section, the FCC must publish a document in the FEDERAL REGISTER and the material must be available to the public. All approved incorporation by reference (IBR) material is available for inspection at the FCC and the National Archives and Records Administration (NARA). Contact the FCC through the Federal Communications Commission's Reference Information Center, phone: (202) 418-0270. For information on the availability of this material at NARA, visit www.archives.gov/federal-register/cfr/ibr-locations.html or email fr.inspection@nara.gov. The material may be obtained from the sources in the following paragraphs of this section.

(b) Global Engineering Documents, 15 Inverness Way East, Englewood, CO 80112, (800) 854-7179, or at <http://global.ihc.com>:

(1) EIA-708-B: "Digital Television (DTV) Closed Captioning," 1999, IBR approved for § 79.102.

(2) [Reserved]

(c) Society of Motion Picture & Television Engineers (SMPTE), 3 Barker Ave., 5th Floor, White Plains, NY 10601, or at the SMPTE Web site: <http://www.smpte.org/standards/>:

(1) SMPTE ST 2052-1:2010: "Timed Text Format (SMPTE-TT)" 2010, IBR approved for §§ 79.4 and 79.103.

(2) [Reserved]

[77 FR 19518, Mar. 30, 2012, as amended at 85 FR 64409, Oct. 13, 2020; 88 FR 21449, Apr. 10, 2023]

§ 79.101 Closed caption decoder requirements for analog television receivers.

(a)(1) Effective July 1, 1993, all television broadcast receivers with picture screens 33 cm (13 in) or larger in diameter shipped in interstate commerce, manufactured, assembled, or imported from any foreign country into the United States shall comply with the provisions of this section.

NOTE TO PARAGRAPH (a)(1): This paragraph places no restriction on the shipping or sale of television receivers that were manufactured before July 1, 1993.

(2) Effective January 1, 2014, all television broadcast receivers shipped in interstate commerce, manufactured,

assembled, or imported from any foreign country into the United States shall comply with the provisions of this section, if technically feasible, except that television broadcast receivers that use a picture screen less than 13 inches in size must comply with the provisions of this section only if doing so is achievable pursuant to § 79.103(b)(3).

NOTE TO PARAGRAPH (a)(2): This paragraph places no restrictions on the importing, shipping, or sale of television receivers that were manufactured before January 1, 2014.

(b) *Transmission format.* Closed-caption information is transmitted on line 21 of field 1 of the vertical blanking interval of television signals, in accordance with § 73.682(a)(22) of this chapter.

(c) *Operating modes.* The television receiver will employ customer-selectable modes of operation for TV and Caption. A third mode of operation, Text, may be included on an optional basis. The Caption and Text Modes may contain data in either of two operating channels, referred to in this document as C1 and C2. The television receiver must decode both C1 and C2 captioning, and must display the captioning for whichever channel the user selects. The TV Mode of operation allows the video to be viewed in its original form. The Caption and Text Modes define one or more areas (called "boxes") on the screen within which caption or text characters are displayed.

NOTE: For more information regarding Text mode, see "Television Captioning for the Deaf: Signal and Display Specifications", Engineering Report No. E-7709-C, Public Broadcasting Service, dated May 1980, and "TeleCaption II Decoder Module Performance Specification", National Captioning Institute, Inc., dated November 1985. These documents are available, respectively, from the Public Broadcasting Service, 1320 Braddock Place, Alexandria, VA 22314 and from the National Captioning Institute, Inc., 5203 Leesburg Pike, Falls Church, VA 22041.

(d) *Screen format.* The display area for captioning and text shall fall approximately within the safe caption area as defined in paragraph (n)(12) of this section. This display area will be further divided into 15 character rows of equal height and 32 columns of equal width, to provide accurate placement of text on the screen. Vertically, the display

area begins on line 43 and is 195 lines high, ending on line 237 on an interlaced display. All captioning and text shall fall within these established columns and rows. The characters must be displayed clearly separated from the video over which they are placed. In addition, the user must have the capability to select a black background over which the captioned letters are displaced.

(1) *Caption mode.* In the Caption Mode, text can appear on up to 4 rows simultaneously anywhere on the screen within the defined display area. In addition, a solid space equal to one column width may be placed before the first character and after the last character of each row to enhance legibility. The caption area will be transparent anywhere that either:

(i) No standard space character or other character has been addressed and no accompanying solid space is needed; or,

(ii) An accompanying solid space is used and a "transparent space" special character has been addressed which does not immediately precede or follow a displayed character.

(2) [Reserved]

(e) *Presentation format.* In analyzing the presentation of characters, it is convenient to think in terms of a non-visible cursor which marks the screen position at which the next event in a given mode and data channel will occur. The receiver remembers the cursor position for each mode even when data are received for a different address in an alternate mode or data channel.

(1) *Screen addressing.* Two kinds of control codes are used to move the cursor to specific screen locations. In Caption Mode, these addressing codes will affect both row and column positioning. In Text Mode, the codes affect only column positioning. In both modes, the addressing codes are optional. Default positions are defined for each mode and style when no addressing code is provided.

(i) The first type of addressing code is the Preamble Address Code (PAC). It assigns a row number and one of eight "indent" figures. Each successive indent moves the cursor four columns to the right (starting from the left mar-

gin). Thus, an indent of 0 places the cursor at Column 1, an indent of 4 sets it at Column 5, etc. The PAC indent is non-destructive to displayable characters. It will not affect the display to the left of the new cursor position on the indicated row. Note that Preamble Address Codes also set initial attributes for the displayable characters which follow. See paragraph (h) of this section and the Preamble Address Code table.

(ii) The second type of addressing code is the Tab Offset, which is one of three Miscellaneous Control Codes. Tab Offset will move the cursor one, two, or three columns to the right. The character cells skipped over will be unaffected; displayable characters in these cells, if any, will remain intact while empty cells will remain empty, in the same manner that a PAC indent is non-destructive.

(2) [Reserved]

(f) *Caption Mode.* There are three styles of presenting text in Caption Mode: roll-up, pop-on, and paint-on. Character display varies significantly with the style used, but certain rules of character erasure are common to all styles. A character can be erased by addressing another character to the same screen location or by backspacing over the character from a subsequent location on the same row. The entire displayed memory will be erased instantly by receipt of an Erase Displayed Memory command. Both displayed memory and non-displayed memory will be entirely erased simultaneously by either: The user switching receiver channels or data channels (C1/C2) or fields (F1/F2) in decoders so equipped; the loss of valid data (see paragraph (j) of this section); or selecting non-captioning receiver functions which use the display memory of the decoder. Receipt of an End of Caption command will cause a displayed caption to become non-displayed (and vice versa) without being erased from memory. Changing the receiver to a non-captioning mode which does not require use of the decoder's display memory will leave that memory intact, and the decoder will continue to process data as if the caption display were selected.

(1) *Roll-up.* Roll-up style captioning is initiated by receipt of one of three

Miscellaneous Control Codes that determine the maximum number of rows displayed simultaneously, either 2, 3 or 4 contiguous rows. These are the three Roll-Up Caption commands.

(i) The bottom row of the display is known as the “base row”. The cursor always remains on the base row. Rows of text roll upwards into the contiguous rows immediately above the base row to create a “window” 2 to 4 rows high.

(ii) The Roll-Up command, in normal practice, will be followed (not necessarily immediately) by a Preamble Address Code indicating the base row and the horizontal indent position. If no Preamble Address Code is received, the base row will default to Row 15 or, if a roll-up caption is currently displayed, to the same base row last received, and the cursor will be placed at Column 1. If the Preamble Address Code received contains a different base row than that of a currently displayed caption, the entire window will move intact (and without erasing) to the new base row immediately.

(iii) Each time a Carriage Return is received, the text in the top row of the window is erased from memory and from the display or scrolled off the top of the window. The remaining rows of text are each rolled up into the next highest row in the window, leaving the base row blank and ready to accept new text. This roll-up must appear smooth to the user, and must take no more than 0.433 second to complete. The cursor is automatically placed at Column 1 (pending receipt of a Preamble Address Code).

(iv) Increasing or decreasing the number of roll-up rows instantly changes the size of the active display window, appropriately turning on or off the display of the top one or two rows. A row which is turned off should also be erased from memory.

(v) Characters are always displayed immediately when received by the receiver. Once the cursor reaches the 32nd column position on any row, all subsequent characters received prior to a Carriage Return, Preamble Address Code, or Backspace will be displayed in that column replacing any previous character occupying that address.

(vi) The cursor moves automatically one column to the right after each character or Mid-Row Code received. A Backspace will move the cursor one column to the left, erasing the character or Mid-Row Code occupying that location. (A Backspace received when the cursor is in Column 1 will be ignored.)

(vii) The Delete to End of Row command will erase from memory any characters or control codes starting at the current cursor location and in all columns to its right on the same row. If no displayable characters remain on the row after the Delete to End of Row is acted upon, the solid space (if any) for that row should also be erased to conform with the following provisions.

(viii) If a solid space is used for legibility, it should appear when the first displayable character (not a transparent space) or Mid-Row Code is received on a row, not when the Preamble Address Code, if any, is given. A row on which there are no displayable characters or Mid-Row Codes will not display a solid space, even when rolled up between two rows which do display a solid space.

(ix) If the reception of data for a row is interrupted by data for the alternate data channel or for Text Mode, the display of caption text will resume from the same cursor position if a Roll-Up Caption command is received and no Preamble Address Code is given which would move the cursor.

(x) A roll-up caption remains displayed until one of the standard caption erasure techniques is applied. Receipt of a Resume Caption Loading command (for pop-on style) or a Resume Direct Captioning command (for paint-on style) will not affect a roll-up display. Receipt of a Roll-Up Caption command will cause any pop-on or paint-on caption to be erased from displayed memory and non-displayed memory.

(2) *Pop-on*. Pop-on style captioning is initiated by receipt of a Resume Caption Loading command. Subsequent data are loaded into a non-displayed memory and held there until an End of Caption command is received, at which point the non-displayed memory becomes the displayed memory and vice versa. (This process is often referred to

as “flipping memories” and does not automatically erase memory.) An End of Caption command forces the receiver into pop-on style if no Resume Caption Loading command has been received which would do so. The display will be capable of 4 full rows, not necessarily contiguous, simultaneous anywhere on the screen.

(i) Preamble Address Codes can be used to move the cursor around the screen in random order to place captions on Rows 1 to 15. Carriage Returns have no effect on cursor location during caption loading.

(ii) The cursor moves automatically one column to the right after each character or Mid-Row Code received. Receipt of a Backspace will move the cursor one column to the left, erasing the character or Mid-Row Code occupying that location. (A Backspace received when the cursor is in Column 1 will be ignored.) Once the cursor reaches the 32nd column position on any row, all subsequent characters received prior to a Backspace, an End of Caption, or a Preamble Address Code, will replace any previous character at that location.

(iii) The Delete to End of Row command will erase from memory any characters or control codes starting at the current cursor location and in all columns to its right on the same row. If no displayable characters remain on a row after the Delete to End of Row is acted upon, the solid space (if any) for that element should also be erased.

(iv) If data reception is interrupted during caption loading by data for the alternate caption channel or for Text Mode, caption loading will resume at the same cursor position if a Resume Caption Loading command is received and no Preamble Address Code is given that would move the cursor.

(v) Characters remain in non-displayed memory until an End of Caption command flips memories. The caption will be erased without being displayed upon receipt of an Erase Non-Displayed Memory command, a Roll-Up Caption command, or if the user switches receiver channels, data channels or fields, or upon the loss of valid data (see paragraph (j) of this section).

(vi) A pop-on caption, once displayed, remains displayed until one of the

standard caption erasure techniques is applied or until a Roll-Up Caption command is received. Characters within a displayed pop-on caption will be replaced by receipt of the Resume Direct Captioning command and paint-on style techniques (see below).

(3) *Paint-on.* Paint-on style captioning is initiated by receipt of a Resume Direct Captioning command. Subsequent data are addressed immediately to displayed memory without need for an End of Caption command.

(i) Preamble Address Codes can be used to move the cursor around the screen in random order to display captions on Rows 1 to 15. Carriage Returns have no effect on cursor location during direct captioning. The cursor moves automatically one column to the right after each character or Mid-Row Code is received. Receipt of a Backspace will move the cursor one column to the left, erasing the character or Mid-Row Code occupying that location. (A Backspace received when the cursor is in Column 1 will be ignored.) Once the cursor reaches the 32nd column position on any row, all subsequent characters received prior to a Preamble Address Code or Backspace will be displayed in that column replacing any previous character occupying that location.

(ii) The Delete to End of Row command will erase from memory any characters or control codes starting at the current cursor location and in all columns to its right on the same row. If no displayable characters remain on the row after the Delete to End of Row is acted upon, the solid space (if any) for that element should also be erased.

(iii) If the reception of data is interrupted during the direct captioning by data for the alternate caption channel or for Text Mode, the display of caption text will resume at the same cursor position if a Resume Direct Captioning command is received and no Preamble Address Code is given which would move the cursor.

(iv) Characters remain displayed until one of the standard caption erasure techniques is applied or until a Roll-Up Caption command is received. An End of Caption command leaves a paint-on caption fully intact in non-displayed memory. In other words, a

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paint-on style caption behaves precisely like a pop-on style caption which has been displayed.

(g) *Character format.* Characters are to be displayed on the screen within a character “cell” which is the height and width of a single row and column. The following codes define the displayable character set. Television receivers manufactured prior to January 1, 1996 and having a character resolution of 5 × 7 dots, or less, may display the allowable alternate characters in the character table. A statement must be in a prominent location on the box or other package in which the receiver is to be marketed, and information must be in the owner’s manual, indicating the receiver displays closed captioning in upper case only.

CHARACTER SET TABLE

Special Characters

These require two bytes for each symbol. Each hex code as shown will be preceded by a 11h for data channel 1 or by a 19h for data channel 2. For example: 19h 37h will place a musical note in data channel 2.

HEX	Example	Alternate	Description
30	®	See note ¹	Registered mark symbol
31	°		Degree sign
32	½		½
33	¿		Inverse query
34	™	See note ¹	Trademark symbol
35	¢		Cents sign
36	£		Pounds Sterling sign
37	♪		Music note
38	à	A	Lower-case a with grave accent
39			Transparent space
3A	è	E	Lower-case e with grave accent
3B	â	A	Lower-case a with circumflex
3C	ê	E	Lower-case e with circumflex
3D	î	I	Lower-case i with circumflex
3E	ô	O	Lower-case o with circumflex
3F	û	U	Lower-case u with circumflex

¹ NOTE: The registered and trademark symbols are used to satisfy certain legal requirements. There are various legal ways in which these symbols may be drawn or displayed. For example, the trademark symbol may be drawn with the “™” next to the “M” or over the “M”. It is preferred that the trademark symbol be superscripted, i.e., XYZ™. It is left to each individual manufacturer to interpret these symbols in any way that meets the legal needs of the user.

Standard characters

HEX	Example	Alternate	Description
20			Standard space
21	!		Exclamation mark
22	“		Quotation mark
23	#		Pounds (number) sign
24	\$		Dollar sign
25	%		Percentage sign

HEX	Example	Alternate	Description
26	&		Ampersand
27	'		Apostrophe
28	(		Open parentheses
29	)		Close parentheses
2A	á	A	Lower-case a with acute accent
2B	+		Plus sign
2C	,		Comma
2D	–		Minus (hyphen) sign
2E	.		Period
2F	/		Slash
30	0		Zero
31	1		One
32	2		Two
33	3		Three
34	4		Four
35	5		Five
36	6		Six
37	7		Seven
38	8		Eight
39	9		Nine
3A	:		Colon
3B	;		Semi-colon
3C	<		Less than sign
3D	=		Equal sign
3E	>		Greater than sign
3F	?		Question mark
40	@		At sign
41	A		Upper-case A
42	B		Upper-case B
43	C		Upper-case C
44	D		Upper-case D
45	E		Upper-case E
46	F		Upper-case F
47	G		Upper-case G
48	H		Upper-case H
49	I		Upper-case I
4A	J		Upper-case J
4B	K		Upper-case K
4C	L		Upper-case L
4D	M		Upper-case M
4E	N		Upper-case N
4F	O		Upper-case O
50	P		Upper-case P
51	Q		Upper-case Q
52	R		Upper-case R
53	S		Upper-case S
54	T		Upper-case T
55	U		Upper-case U
56	V		Upper-case V
57	W		Upper-case W
58	X		Upper-case X
59	Y		Upper-case Y
5A	Z		Upper-case Z
5B	[		Open bracket
5C	è	E	Lower-case e with acute accent
5D	]		Close bracket
5E	í	I	Lower-case i with acute accent
5F	ó	O	Lower-case o with acute accent
60	ú	U	Lower-case u with acute accent
61	a	A	Lower-case a
62	b	B	Lower-case b
63	c	C	Lower-case c
64	d	D	Lower-case d
65	e	E	Lower-case e
66	f	F	Lower-case f
67	g	G	Lower-case g
68	h	H	Lower-case h
69	i	I	Lower-case i
6A	j	J	Lower-case j
6B	k	K	Lower-case k

HEX	Example	Alternate	Description
6C	l	L	Lower-case l
6D	m	M	Lower-case m
6E	n	N	Lower-case n
6F	o	O	Lower-case o
70	p	P	Lower-case p
71	q	Q	Lower-case q
72	r	R	Lower-case r
73	s	S	Lower-case s
74	t	T	Lower-case t
75	u	U	Lower-case u
76	v	V	Lower-case v
77	w	W	Lower-case w
78	x	X	Lower-case x
79	y	Y	Lower-case y
7A	z	Z	Lower-case z
7B	ç	C	Lower-case c with cedilla
7C	±		Division sign
7D	Ñ		Upper-case N with tilde
7E	ñ	Ñ	Lower-case n with tilde
7F	■		Solid block

(h) *Character Attributes*—(1) *Transmission of Attributes*. A character may be transmitted with any or all of four attributes: Color, italics, underline, and flash. All of these attributes are set by control codes included in the received data. An attribute will remain in effect until changed by another control code or until the end of the row is reached. Each row begins with a control code which sets the color and underline attributes. (White non-underlined is the default display attribute if no Preamble Address Code is received before the first character on an empty row.) Attributes are not affected by transparent spaces within a row.

(i) All Mid-Row Codes and the Flash On command are spacing attributes which appear just as if a standard space (20h) had been received. Preamble Address Codes are non-spacing and will not alter any attributes when used to position the cursor in the midst of a row of characters.

(ii) The color attribute has the highest priority and can only be changed by the Mid-Row Code of another color. Italics has the next highest priority. If characters with both color and italics are desired, the italics Mid-Row Code must follow the color assignment. Any color Mid-Row Code will turn off italics. If the least significant bit of a Preamble Address Code or of a color or italics Mid-Row Code is a 1 (high), underlining is turned on. If that bit is a 0 (low), underlining is off.

(iii) The flash attribute is transmitted as a Miscellaneous Control Code. The Flash On command will not

alter the status of the color, italics, or underline attributes. However, any color or italics Mid-Row Code will turn off flash.

(iv) Thus, for example, if a red, italicized, underlined, flashing character is desired, the attributes must be received in the following order: a red Mid-Row or Preamble Address Code, an italics Mid-Row Code with underline bit, and the Flash On command. The character will then be preceded by three spaces (two if red was assigned via a Preamble Address Code).

(2) *Display of attributes*. The underline attribute will be displayed by drawing a line beneath the character in the same color as the character. The flash attribute will be displayed by causing the character to blink from the display at least once per second. The italic attribute must be capable of being displayed by either a special italic font, or by the modification of the standard font by slanting. The user may be given the option to select other methods of italic display as well. The support of the color attributes is optional. If the color attributes are supported, they will be displayed in the color they have been assigned. If color attributes are not supported, the display may be in color, but all color changes will be ignored.

(i) *Control codes*. There are three different types of control codes used to identify the format, location, attributes, and display of characters: Preamble Address Codes, Mid-Row Codes, and Miscellaneous Control Codes.

(1) Each control code consists of a pair of bytes which are always transmitted together in a single field of line 21 and which are normally transmitted twice in succession to help insure correct reception of the control instructions. The first of the control code bytes is a non-printing character in the range 10h to 1Fh. The second byte is always a printing character in the range 20h to 7Fh. Any such control code pair received which has not been assigned a function is ignored. If the non-printing character in the pair is in the range 00h to 0Fh, that character alone will be ignored and the second character will be treated normally.

(2) If the second byte of a control code pair does not contain odd parity (see paragraph (j) of this section), then the pair is ignored. The redundant transmission of the pair will be the instruction upon which the receiver acts.

(3) If the first byte of the first transmission of a control code pair fails the parity check, then that byte is inserted into the currently active memory as a solid block character (7Fh) followed by whatever the second byte is. Again, the redundant transmission of the pair will be the controlling instruction.

(4) If the first transmission of a control code pair passes parity, it is acted upon within one video frame. If the next frame contains a perfect repeat of the same pair, the redundant code is ignored. If, however, the next frame contains a different but also valid control code pair, this pair, too, will be acted upon (and the receiver will expect a repeat of this second pair in the next frame). If the first byte of the expected redundant control code pair fails the parity check and the second byte is identical to the second byte in the immediately preceding pair, then the expected redundant code is ignored. If there are printing characters in place of the redundant code, they will be processed normally.

(5) There is provision for decoding a second data channel. The second data channel is encoded with the same control codes and procedures already described. The first byte of every control code pair indicates the data channel (C1/C2) to which the command applies. Control codes which do not match the data channel selected by the user, and all subsequent data related to that control code, are ignored by the receiver.

MID-ROW CODES

Data channel 1	Data channel 2	Attribute description
11 20	19 20	White.
11 21	19 21	White Underline.
11 22	19 22	Green.
11 23	19 23	Green Underline.
11 24	19 24	Blue.
11 25	19 25	Blue Underline.
11 26	19 26	Cyan.
11 27	19 27	Cyan Underline.
11 28	19 28	Red.
11 29	19 29	Red Underline.
11 2A	19 2A	Yellow.
11 2B	19 2B	Yellow Underline.
11 2C	19 2C	Magenta.
11 2D	19 2D	Magenta Underline.
11 2E	19 2E	Italics.
11 2F	19 2F	Italics Underline.

MISCELLANEOUS CONTROL CODES

Data channel 1	Data channel 2	Mnemonic	Command description
14 20	1C 20	RCL	Resume caption loading.
14 21	1C 21	BS ...	Backspace.
14 22	1C 22	AOF	Reserved (formerly Alarm Off).
14 23	1C 23	AON	Reserved (formerly Alarm On).
14 24	1C 24	DER	Delete to End of Row.
14 25	1C 25	RU2	Roll-Up Captions–2 Rows.
14 26	1C 26	RU3	Roll-Up Captions–3 Rows.
14 27	1C 27	RU4	Roll-Up Captions–4 Rows.
14 28	1C 28	FON	Flash On.
14 29	1C 29	RDC	Resume Direct Captioning.
14 2A	1C 2A	TR ...	Text Restart.
14 2B	1C 2B	RTD	Resume Text Display.
14 2C	1C 2C	EDM	Erase Displayed Memory.
14 2D	1C 2D	CR ...	Carriage Return.
14 2E	1C 2E	ENM	Erase Non-Displayed Memory.
14 2F	1C 2F	EOC	End of Caption (Flip Memories).
17 21	1F 21	TO1	Tab Offset 1 Column.
17 22	1F 22	TO2	Tab Offset 2 Columns.
17 23	1F 23	TO3	Tab Offset 3 Columns.

PREAMBLE ADDRESS CODES

	Row 1	Row 2	Row 3	Row 4	Row 5	Row 6	Row 7	Row 8	Row 9	Row 10	Row 11	Row 12	Row 13	Row 14	Row 15
First byte of code pair:															
Data Channel 1	11	11	12	12	15	15	16	16	17	17	10	13	13	14	14
Data Channel 2	19	19	1A	1A	1D	1D	1E	1E	1F	1F	18	1B	1B	1C	1C
Second byte of code pair:															
White	40	60	40	60	40	60	40	60	40	60	40	60	40	60	60
White Underline	41	61	41	61	41	61	41	61	41	61	41	61	41	61	61
Green	42	62	42	62	42	62	42	62	42	62	42	62	42	62	62
Green Underline	43	63	43	63	43	63	43	63	43	63	43	63	43	63	63
Blue	44	64	44	64	44	64	44	64	44	64	44	64	44	64	64
Blue Underline	45	65	45	65	45	65	45	65	45	65	45	65	45	65	65
Cyan	46	66	46	66	46	66	46	66	46	66	46	66	46	66	66
Cyan Underline	47	67	47	67	47	67	47	67	47	67	47	67	47	67	67
Red	48	68	48	68	48	68	48	68	48	68	48	68	48	68	68

PREAMBLE ADDRESS CODES—Continued

	Row 1	Row 2	Row 3	Row 4	Row 5	Row 6	Row 7	Row 8	Row 9	Row 10	Row 11	Row 12	Row 13	Row 14	Row 15
Red Underline	49	69	49	69	49	69	49	69	49	69	49	69	49	69	49
Yellow	4A	6A	4A	6A	4A	6A	4A	6A	4A	6A	4A	6A	4A	6A	4A
Yellow Underline ...	4B	6B	4B	6B	4B	6B	4B	6B	4B	6B	4B	6B	4B	6B	4B
Magenta	4C	6C	4C	6C	4C	6C	4C	6C	4C	6C	4C	6C	4C	6C	4C
Magenta Underline	4D	6D	4D	6D	4D	6D	4D	6D	4D	6D	4D	6D	4D	6D	4D
White Italics	4E	6E	4E	6E	4E	6E	4E	6E	4E	6E	4E	6E	4E	6E	4E
White Italics Underline	4F	6F	4F	6F	4F	6F	4F	6F	4F	6F	4F	6F	4F	6F	4F
Indent 0	50	70	50	70	50	70	50	70	50	70	50	70	50	70	50
Indent 0 Underline	51	71	51	71	51	71	51	71	51	71	51	71	51	71	51
Indent 4	52	72	52	72	52	72	52	72	52	72	52	72	52	72	52
Indent 4 Underline	53	73	53	73	53	73	53	73	53	73	53	73	53	73	53
Indent 8	54	74	54	74	54	74	54	74	54	74	54	74	54	74	54
Indent 8 Underline	55	75	55	75	55	75	55	75	55	75	55	75	55	75	55
Indent 12	56	76	56	76	56	76	56	76	56	76	56	76	56	76	56
Indent 12 Underline	57	77	57	77	57	77	57	77	57	77	57	77	57	77	57
Indent 16	58	78	58	78	58	78	58	78	58	78	58	78	58	78	58
Indent 16 Underline	59	79	59	79	59	79	59	79	59	79	59	79	59	79	59
Indent 20	5A	7A	5A	7A	5A	7A	5A	7A	5A	7A	5A	7A	5A	7A	5A
Indent 20 Underline	5B	7B	5B	7B	5B	7B	5B	7B	5B	7B	5B	7B	5B	7B	5B
Indent 24	5C	7C	5C	7C	5C	7C	5C	7C	5C	7C	5C	7C	5C	7C	5C
Indent 24 Underline	5D	7D	5D	7D	5D	7D	5D	7D	5D	7D	5D	7D	5D	7D	5D
Indent 28	5E	7E	5E	7E	5E	7E	5E	7E	5E	7E	5E	7E	5E	7E	5E
Indent 28 Underline	5F	7F	5F	7F	5F	7F	5F	7F	5F	7F	5F	7F	5F	7F	5F

NOTE: All indent codes (second byte equals 50h–5fh, 70h–7fh) assign white as the color attribute.

(j) *Data rejection.* The receiver should provide an effective procedure to verify data. A receiver will reject data if the data is invalid, or if the data is directed to the data channel or field not selected by the user. Invalid data is any data that fails to pass a check for odd parity, or which, having passed the parity check, is assigned no function.

(1) If a print character fails to pass a check for parity, a solid block (7Fh) should be displayed in place of the failed character. In addition, valid data can be corrupted in many ways and may not be suitable for display. For example, repeated fields, skipped fields and altered field sequences are all possible from consumer video equipment and might present meaningless captions.

(2) The receiver will ignore data rejected due to being directed to a deselected field or channel. However, this will not cause the display to be disabled.

(k) *Automatic display enable/disable.* The receiver shall provide an automatic enable/disable capability to prevent the display of invalid or incomplete data, when the user selects the Caption Mode. The display should automatically become enable after the receiver verifies the data as described in

paragraph (j) of this section. The display will be automatically disabled when there is a sustained detection of invalid data. The display will be re-enabled when the data verification process has been satisfied once again.

(l) *Compatibility with Cable Security Systems.* Certain cable television security techniques, such as signal encryption and copy protection, can alter the television signal so that some methods of finding line 21 will not work. In particular, counting of lines or timing from the start of the vertical blanking interval may cause problems. Caption decoding circuitry must function properly when receiving signals from cable security systems that were designed and marketed prior to April 5, 1991. Further information concerning such systems is available from the National Cable Television Association, Inc., Washington, DC, and from the Electronic Industries Association, Washington, DC.

(m) [Reserved]

(n) *Glossary of terms.* The following terms are used to describe caption decoder specifications:

(1) *Base row:* The bottom row of a roll-up display. The cursor always remains on the base row. Rows of text

roll upwards into the contiguous rows immediately above the base row.

(2) *Box*: The area surrounding the active character display. In Text Mode, the box is the entire screen area defined for display, whether or not displayable characters appear. In Caption Mode, the box is dynamically redefined by each caption and each element of displayable characters within a caption. The box (or boxes, in the case of a multiple-element caption) includes all the cells of the displayed characters, the non-transparent spaces between them, and one cell at the beginning and end of each row within a caption element in those decoders that use a solid space to improve legibility.

(3) *Caption window*: The invisible rectangle which defines the top and bottom limits of a roll-up caption. The window can be 2 to 4 rows high. The lowest row of the window is called the base row.

(4) *Cell*: The discrete screen area in which each displayable character or space may appear. A cell is one row high and one column wide.

(5) *Column*: One of 32 vertical divisions of the screen, each of equal width, extending approximately across the full width of the safe caption area as defined in paragraph (n)(12) of this section. Two additional columns, one at the left of the screen and one at the right, may be defined for the appearance of a box in those decoders which use a solid space to improve legibility, but no displayable characters may appear in those additional columns. For reference, columns may be numbered 0 to 33, with columns 1 to 32 reserved for displayable characters.

(6) *Displayable character*: Any letter, number or symbol which is defined for on-screen display, plus the 20h space.

(7) *Display disable*: To turn off the display of captions or text (and accompanying background) at the receiver,

rather than through codes transmitted on line 21 which unconditionally erase the display. The receiver may disable the display because the user selects an alternate mode, e.g., TV Mode, or because no valid line 21 data is present.

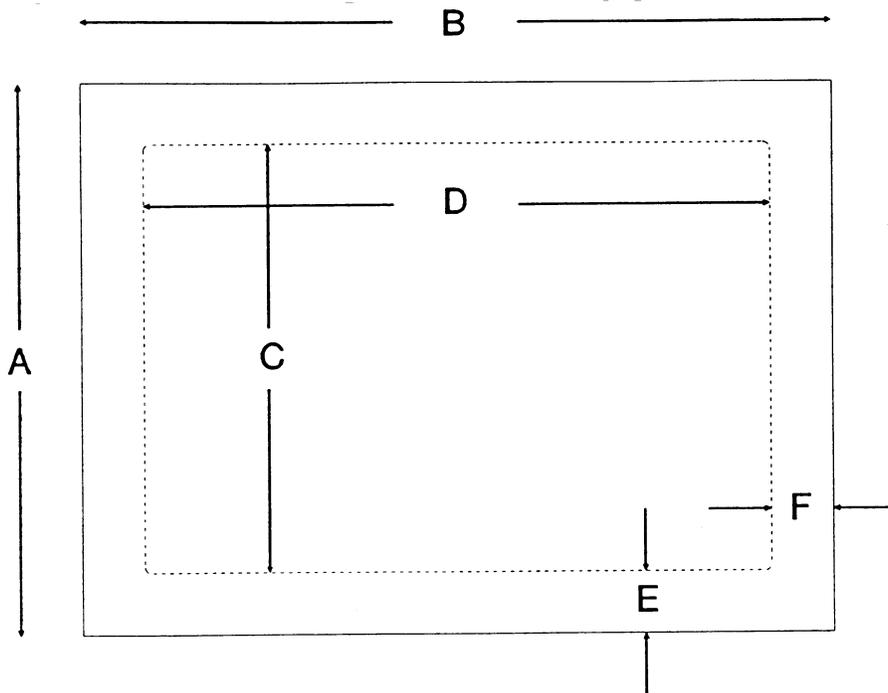
(8) *Display enable*: To allow the display of captions or text when they are transmitted on line 21 and received as valid data. For display to be enabled, the user must have selected Caption Mode or Text Mode, and valid data for the selected mode must be present on line 21.

(9) *Element*: In a pop-on or paint-on style caption, each contiguous area of cells containing displayable characters and non-transparent spaces between those characters. A single caption may have multiple elements. An element is not necessarily a perfect rectangle, but may include rows of differing widths.

(10) *Erase Display*: In Caption Mode, to clear the screen of all characters (and accompanying background) in response to codes transmitted on line 21. (The caption service provider can accomplish the erasure either by sending an Erase Displayed Memory command or by sending an Erase Non-Displayed Memory command followed by an End of Caption command, effectively making a blank caption “appear”.) Display can also be erased by the receiver when the caption memory erasure conditions are met, such as the user changing TV channels.

(11) *Row*: One of 15 horizontal divisions of the screen, extending across the full height of the safe caption area as defined in paragraph (n)(12) of this section.

(12) *Safe caption area*: The area of the television picture within which captioning and text shall be displayed to ensure visibility of the information on the majority of home television receivers. The safe caption area is specified as shown in the following figure:



The dimensions of the above figure shall be as follows:

Label	Dimensions	Percent of television picture height
A	Television picture height	100.0
B	Television picture width	133.33
C	Height of safe caption area	80.0
D	Width of safe caption area	106.67
E	Vertical position of safe caption area.	10.0
F	Horizontal position of safe caption area.	13.33

(13) *Special characters*: Displayable characters (except for “transparent space”) which require a two-byte sequence of one non-printing and one printing character. The non-printing byte varies depending on the data channel. Regular characters require unique one-byte codes which are the same in either data channel.

(14) *Text*: When written with an upper-case “T”, refers to the Text Mode. When written with a lower-case “t”, refers to any combination of displayable characters.

(15) *Transparent space*: Transmitted as a special character, it is a one-column-wide space behind which program video is always visible (except when a transparent space immediately precedes or follows a displayable character and solid box is needed to make that character legible).

[56 FR 27201, June 13, 1991, as amended at 57 FR 19094, May 4, 1992; 58 FR 44893, Aug. 25, 1993. Redesignated and amended at 77 FR 19515, 19518, Mar. 30, 2012; 78 FR 39627, July 2, 2013; 78 FR 77251, Dec. 20, 2013]

§ 79.102 Closed caption decoder requirements for digital television receivers and converter boxes.

(a)(1) Effective July 1, 2002, all digital television receivers with picture screens in the 4:3 aspect ratio with picture screens measuring 13 inches or larger diagonally, all digital television receivers with picture screens in the 16:9 aspect ratio measuring 7.8 inches or larger vertically and all separately sold DTV tuners shipped in interstate

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commerce or manufactured in the United States shall comply with the provisions of this section.

NOTE TO PARAGRAPH (a)(1): This paragraph places no restrictions on the shipping or sale of digital television receivers that were manufactured before July 1, 2002.

(2) Effective July 1, 2002, DTV converter boxes that allow digitally transmitted television signals to be displayed on analog receivers shall pass available analog caption information to the attached receiver in a form recognizable by that receiver's built-in caption decoder circuitry.

NOTE TO PARAGRAPH (a)(2): This paragraph places no restrictions on the shipping or sale of DTV converter boxes that were manufactured before July 1, 2002.

(3) Effective January 1, 2014, all digital television receivers and all separately sold DTV tuners shipped in interstate commerce or manufactured in the United States shall comply with the provisions of this section, if technically feasible, except that digital television receivers that use a picture screens less than 13 inches in size must comply with the provisions of this section only if doing so is achievable pursuant to § 79.103(b)(3).

NOTE TO PARAGRAPH (a)(3): This paragraph places no restrictions on the importing, ship-

ping, or sale of digital television receivers and separately sold DTV tuners that were manufactured before January 1, 2014.

(b) Digital television receivers and tuners must be capable of decoding closed captioning information that is delivered pursuant to EIA-708-B: "Digital Television (DTV) Closed Captioning" (incorporated by reference, see § 79.100).

(c) *Services.* (1) Decoders must be capable of decoding and processing data for the six standard services, Caption Service #1 through Caption Service #6.

(2) Decoders that rely on Program and System Information Protocol data to implement closed captioning functions must be capable of decoding and processing the Caption Service Directory data. Such decoders must be capable of decoding all Caption Channel Block Headers consisting of Standard Service Headers, Extended Service Block Headers, and Null Block headers. However, decoding of the data is required only for Standard Service Blocks (Service IDs <-6), and then only if the characters for the corresponding language are supported. The decoders must be able to display the directory for services 1 through 6.

(d) *Code space organization.* (1) Decoders must support Code Space C0, G0, C1, and G1 in their entirety.

		C 0		G 0				C 1		G 1							
B7-b4		0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
b3-b0	0	NUL	EXT1	SP	0	@	P	`	p	CW0	SPA	NBS	°	À	Ð	à	ð
	1			!	1	A	Q	a	q	CW1	SPC	¡	±	Á	Ñ	á	ñ
	2			"	2	B	R	b	r	CW2	SPL	¢	²	Â	Ò	â	ò
	3	ETX		#	3	C	S	c	s	CW3		£	³	Ã	Ó	ã	ó
	4			\$	4	D	T	d	t	CW4		¤	´	Ä	Ô	ä	ô
	5			%	5	E	U	e	u	CW5		¥	µ	Å	Õ	å	õ
	6			&	6	F	V	f	v	CW6		¦	¶	Æ	Ö	æ	ö
	7			'	7	G	W	g	w	CW7	SWA	§	·	Ç	×	ç	÷
	8	BS	P16	(	8	H	X	h	x	CLW	DF0	"	,	È	Ø	è	ø
	9			)	9	I	Y	i	y	DSW	DF1	©	¹	É	Ù	é	ù
	A			*	:	J	Z	j	z	HDW	DF2	ª	º	Ê	Ú	ê	ú
	B			+	;	K	|	k	{	TGW	DF3	«	»	Ë	Û	ë	û
	C	FF		,	<	L	\	l	|	DLW	DF4	¬	¼	Ì	Ü	ì	ü
	D	CR		-	=	M	|	m	}	DLY	DF5	-	½	Í	Ý	í	ý
	E	HCR		.	>	N	^	n	~	DLC	DF6	®	¾	Î	Þ	î	þ
	F			/	?	O	_	o	¸	RST	DF7	¸	¿	Ï	ß	ï	ÿ
		C 2		G 2				C 3		G 3							
	0			TSP								␣					
	1			NBTS	‘												
	2			P	’												
	3				“												
	4				”												
	5				...												
	6							1/8									
	7							3/8									
	8							5/8									
	9					TM		7/8									
	A			Š	š												
	B																
	C			Œ	œ												
	D				SM												
	E																
	F				Ÿ												

Table 1 DTVCC Code Set Mapping

(2) The following characters within code space G2 must be supported:

- (i) Transparent space (TSP).
- (ii) Non-breaking transparent space (NBTS).
- (iii) Solid block ().
- (iv) Trademark symbol (TM).
- (v) Latin-1 characters Š, Œ, š, œ, Ÿ.

(3) The substitutions in Table 2 are to be made if a decoder does not support the remaining G2 characters.

TABLE 2—G2 CHARACTER SUBSTITUTION TABLE

G2 Character	Substitute with
Open single quote (’), G2 char code 0 × 31.	G0 single quote (’), char code 0 × 27

TABLE 2—G2 CHARACTER SUBSTITUTION TABLE—Continued

G2 Character	Substitute with
Close single quote (’), G2 char code 0 × 32.	G0 single quote (’), char code 0 × 27
Open double quote (“), G2 char code 0 × 33.	G0 double quote (“), char code 0 × 22
Close double quote (”), G2 char code 0 × 34.	G0 double quote (”), char code 0 × 22
Bold bullet (•), G2 char code 0 × 35.	G1 bullet (•), char code 0 × B7
Elipsis (. . .), G2 char code 0 × 25.	G0 underscore (_), char code 0 × 5F
One-eighth (1/8), G2 char code 0 × 76.	G0 percent sign (%), char code 0 × 25
Three-eighths (3/8), G2 char code 0 × 77.	G0 percent sign (%), char code 0 × 25

TABLE 2—G2 CHARACTER SUBSTITUTION
TABLE—Continued

G2 Character	Substitute with
Five-eighths (⅝), G2 char code 0 × 78.	G0 percent sign (%), char code 0 × 25
Seven-eighths (⅞), G2 char code 0 × 79.	G0 percent sign (%), char code 0 × 25
Vertical border (|), G2 char code 0 × 7A.	G0 stroke (|), char code 0 × 7C
Upper-right border (⌋), G2 char code 0 × 7B.	G0 dash (-), char code 0 × 2D
Lower-left border (⌌), G2 char code 0 × 7C.	G0 dash (-), char code 0 × 2D
Horizontal border (—), G2 char code 0 × 7D.	G0 dash (-), char code 0 × 2D
Lower-right border (⌋), G2 char code 0 × 7E.	G0 dash (-), char code 0 × 2D

TABLE 2—G2 CHARACTER SUBSTITUTION
TABLE—Continued

G2 Character	Substitute with
Upper-left border (⌈), G2 char code 0 × 7F.	G0 dash (-), char code 0 × 2D

(4) Support for code spaces C2, C3, and G3 is optional. All unsupported graphic symbols in the G3 code space are to be substituted with the G0 underscore character (␣), char code 0 × 5F.

(e) *Screen coordinates.* Table 3 specifies the screen coordinate resolutions and limits for anchor point positioning in 4:3 and 16:9 display formats, and the number of characters per row.

TABLE 3—SCREEN COORDINATE RESOLUTIONS AND LIMITS

Screen aspect ratio	Maximum anchor position resolution	Minimum anchor position resolution	Maximum displayed rows	Maximum characters per row
4:3	75v × 160h	15v × 32h	4	32
16:9	75v × 210h	15v × 42h	4	42
Other	75v × (5 × H)	15v × H*	4	1

*H = 32 × (the width of the screen in relation to a 4:3 display). For example, the 16:9 format is 1/3 wider than a 4:3 display; thus, H = 32 × 4/3 = 42.667, or 42.

(1) This means that the minimum grid resolution for a 4:3 aspect ratio instrument is 15 vertical positions × 32 horizontal positions. This minimum grid resolution for 16:9 ratio instrument is 15 vertical positions × 42 horizontal positions. These minimum grid sizes are to cover the entire safe-title area of the corresponding screen.

(2) The minimum coordinates equate to a 1/3 reduction in the maximum horizontal and vertical grid resolution coordinates. Caption providers are to use the maximum coordinate system values when specifying anchor point positions. Decoders using the minimum resolution are to divide the provided horizontal and vertical screen coordinates by 5 to derive the equivalent minimum coordinates.

(3) Any caption targeted for both 4:3 and 16:9 instruments is limited to 32 contiguous characters per row. If a caption is received by a 4:3 instrument that is targeted for a 16:9 display only, or requires a window width greater than 32 characters, then the caption may be completely disregarded by the decoder. 16:9 instruments should be

able to process and display captions intended for 4:3 displays, providing all other minimum recommendations are met.

(4) If the resulting size of any window is larger than the safe title area for the corresponding display's aspect ratio, then this window will be completely disregarded.

(f) *Caption windows.* (1) Decoders need to display no more than 4 rows of captions on the screen at any given time, regardless of the number of windows displayed. This implies that no more than 4 windows can be displayed at any given time (with each having only one caption row). However, decoders should maintain storage to support a minimum total of 8 rows of captions. This storage is needed for the worst-case support of a displayed window with 4 rows of captioning and a non-displayed window which is buffering the incoming rows for the next 4-row caption. As implied above, the maximum number of windows that may be displayed at any one time by a minimum decoder implementation is 4. If more than 4 windows are defined in the caption

stream, the decoder may disregard the youngest and lowest priority window definition(s). Caption providers must be aware of this limitation, and either restrict the total number of windows used or accept that some windows will not be displayed.

(2) Decoders do not need to support overlapped windows. If a window overlaps another window, the overlapped window need not be displayed by the decoder.

(3) At a minimum, decoders will assume that all windows have rows and columns "locked". This implies that if a decoder implements the SMALL pen-size, then word-"un"wrapping, when shrinking captions, need not be implemented. Also, if a decoder implements the LARGE pen size, then word wrapping (when enlarging captions) need not be implemented.

(4) Whenever possible, the receiver should render embedded carriage returns as line breaks, since these carriage returns indicate an important aspect of the caption's formatting as determined by the service provider. However, it may sometimes be necessary for the receiver to ignore embedded line breaks. For example, if a caption is to appear in a larger font, and if its window's rows and/or columns are unlocked, the rows of text may need to become longer or shorter to fit within the allocated space. Such automatic reformatting of a caption is known as "word wrap." If decoders support word-wrapping, it must be implemented as follows:

(i) The receiver should follow standard typographic practice when implementing word wrap. Potential breaking points (word-wrapping points) are indicated by the space character (20h) and by the hyphen character (2Dh).

(ii) If a row is to be broken at a space, the receiver should remove the space from the caption display. If a row is to be broken after a hyphen, the hyphen should be retained.

(iii) If an embedded return is to be removed, it should usually be replaced with a space. However, if the character to the left of the embedded return is a hyphen, the embedded return should be removed but NOT replaced with a space.

(iv) This specification does not include optional hyphens, nor does it provide for any form of automatic hyphenation. No non-breaking hyphen is defined. The non-breaking space (A0h in the G1 code set) and the non-breaking transparent space (21h in the G2 code set) should not be considered as potential line breaks.

(v) If a single word exceeds the length of a row, the word should be placed at the start of a new row, broken at the character following the last character that fits on the row, and continued with further breaks if needed.

(g) *Window text painting.* (1) All decoders should implement "left", "right", and "center" caption-text justification. Implementation of "full" justification is optional. If "full" justification is not implemented, fully justified captions should be treated as though they are "left" justified.

(i) For "left" justification, decoders should display any portion of a received row of text when it is received. For "center", "right", and "full" justification, decoders may display any portion of a received row of text when it is received, or may delay display of a received row of text until reception of a row completion indicator. A row completion indicator is defined as receipt of a CR, ETX or any other command, except SetPenColor, SetPenAttributes, or SetPenLocation where the pen relocation is within the same row.

(ii) Receipt of a character for a displayed row which already contains text with "center", "right" or "full" justification will cause the row to be cleared prior to the display of the newly received character and any subsequent characters. Receipt of a justification command which changes the last received justification for a given window will cause the window to be cleared.

(2) At a minimum, decoders must support LEFT_TO_RIGHT printing.

(3) At a minimum, decoders must support BOTTOM_TO_TOP scrolling. For windows sharing the same horizontal scan lines on the display, scrolling may be disabled.

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(4) At a minimum, decoders must support the same recommended practices for scroll rate as is provided for NTSC closed-captioning.

(5) At a minimum, decoders must support the same recommended practices for smooth scrolling as is provided for NTSC closed-captioning.

(6) At a minimum, decoders must implement the “snap” window display effect. If the window “fade” and “wipe” effects are not implemented, then the decoder will “snap” all windows when they are to be displayed, and the “effect speed” parameter is ignored.

(h) *Window colors and borders.* At a minimum, decoders must implement

borderless windows with solid, black backgrounds (*i.e.*, border type = NONE, fill color = (0,0,0), fill opacity = SOLID), and borderless transparent windows (*i.e.*, border type = NONE, fill opacity = TRANSPARENT).

(i) *Predefined window and pen styles.* Predefined Window Style and Pen Style ID’s may be provided in the DefineWindow command. At a minimum, decoders should implement Predefined Window Attribute Style 1 and Predefined Pen Attribute Style 1, as shown in Table 4 and Table 5, respectively.

TABLE 4—PREDEFINED WINDOW STYLE ID'S

Style ID #	Justify	Print direction	Scroll direction	Word wrap	Display effect	Effect direction	Effect speed	Fill color	Fill opacity	Border type	Border color	Usage
1	Left	Left-to-right	Bottom-to-top.	No	Snap	n/a	n/a	(0,0,0) Black.	Solid	None	n/a	NTSC Style PopUp Captions
2	Left	Left-to-right	Bottom-to-top.	No	Snap	n/a	n/a	n/a	Transparent.	None	n/a	PopUp Captions w/o Black Back-ground
3	Cntr	Left-to-right	Bottom-to-top.	No	Snap	n/a	n/a	(0,0,0) Black.	Solid	None	n/a	NTSC Style Centered PopUp Captions
4	Left	Left-to-right	Bottom-to-top.	Yes	Snap	n/a	n/a	(0,0,0) Black.	Solid	None	n/a	NTSC Style RollUp Captions
5	Left	Left-to-right	Bottom-to-top.	Yes	Snap	n/a	n/a	n/a	Transparent.	None	n/a	RollUp Captions w/o Black Back-ground
6	Cntr	Left-to-right	Bottom-to-top.	Yes	Snap	n/a	n/a	(0,0,0) Black.	Solid	None	n/a	NTSC Style Centered RollUp Captions
7	Left	Top-to-bottom.	Right-to-left	No	Snap	n/a	n/a	(0,0,0) Black.	Solid	None	n/a	Ticker Tape

TABLE 5—PREDEFINED PEN STYLE ID'S

Predefined style ID	Pen size	Font style	Offset	Italics	Underline	Edge type	Foregrnd color	Foregrnd opacity	Backgrnd color	Backgrnd opacity	Edge color	Usage
1	Strdr	0	Normal	No	No	None	(2,2,2) White.	Solid	(0,0,0) Black.	Solid	n/a	Default NTSC Style*

TABLE 5—PREDEFINED PEN STYLE ID'S—Continued

Predefined style ID	Pen size	Font style	Offset	Italics	Underline	Edge type	Foregrnd color	Foregrnd opacity	Backgrnd color	Backgrnd opacity	Edge color	Usage
2	Sindr	1	Normal	No	No	None	(2,2,2) White.	Solid	(0,0,0) White.	Solid	n/a	NTSC Style* Mono w/ Serif
3	Sindr	2	Normal	No	No	None	(2,2,2) White.	Solid	(0,0,0) Black.	Solid	n/a	NTSC Style* Prop w/ Serif
4	Sindr	3	Normal	No	No	None	(2,2,2) White.	Solid	(0,0,0) Black.	Solid	n/a	NTSC Style* Mono w/ o Serif
5	Sindr	4	Normal	No	No	None	(2,2,2) White.	Solid	(0,0,0) Black.	Solid	n/a	NTSC Style* Prop w/o Serif
6	Sindr	3	Normal	No	No	Uniform	(2,2,2) White.	Solid	n/a	Transparent	(0,0,0) Black.	Mono w/o Serif, bordered Text, No BG
7	Sindr	4	Normal	No	No	Uniform	(2,2,2) White.	Solid	n/a	Transparent	(0,0,0) Black.	Prop. w/o Serif, bordered Text, No BG

**"NTSC Style"—White Text on Black Background

(j) *Pen size.* (1) Decoders must support the standard, large, and small pen sizes and must allow the caption provider to choose a pen size and allow the viewer to choose an alternative size. The STANDARD pen size should be implemented such that the height of the tallest character in any implemented font is no taller than $\frac{1}{15}$ of the height of the safe-title area, and the width of the widest character is no wider than $\frac{1}{32}$ of the width of the safe-title area for 4:3 displays and $\frac{1}{42}$ of the safe-title area width for 16:9 displays.

(2) The LARGE pen size should be implemented such that the width of the widest character in any implemented font is no wider than $\frac{1}{32}$ of the safe-title area for 16:9 displays. This recommendation allows for captions to grow to a LARGE pen size without having to reformat the caption since no caption will have more than 32 characters per row.

(k) *Font styles.* (1) Decoders must support the eight fonts listed below. Caption providers may specify 1 of these 8 font styles to be used to write caption text. The styles specified in the "font style" parameter of the SetPenAttributes command are numbered from 0 through 7. The following is a list of the 8 required font styles. For information purposes only, each font style references one or more popular fonts which embody the characteristics of the style:

- (i) 0—Default (undefined)
- (ii) 1—Monospaced with serifs (similar to Courier)
- (iii) 2—Proportionally spaced with serifs (similar to Times New Roman)
- (iv) 3—Monospaced without serifs (similar to Helvetica Monospaced)
- (v) 4—Proportionally spaced without serifs (similar to Arial and Swiss)
- (vi) 5—Casual font type (similar to Dom and Impress)
- (vii) 6—Cursive font type (similar to Coronet and Marigold)
- (viii) 7—Small capitals (similar to Engravers Gothic)

(2) Font styles may be implemented in any typeface which the decoder manufacturer deems to be a readable rendition of the font style, and need not be in the exact typefaces given in the example above. Decoders must include the ability for consumers to

choose among the eight fonts. The decoder must display the font chosen by the caption provider unless the viewer chooses a different font.

(1) *Character offsetting.* Decoders need not implement the character offsetting (*i.e.*, subscript and superscript) pen attributes.

(m) *Pen styles.* At a minimum, decoders must implement normal, italic, and underline pen styles.

(n) *Foreground color and opacity.* (1) At a minimum, decoders must implement transparent, translucent, solid and flashing character foreground type attributes.

(2) At a minimum, decoders must implement the following character foreground colors: white, black, red, green, blue, yellow, magenta and cyan.

(3) Caption providers may specify the color/opacity. Decoders must include the ability for consumers to choose among the color/opacity options. The decoder must display the color/opacity chosen by the caption provider unless the viewer chooses otherwise.

(o) *Background color and opacity.* (1) Decoders must implement the following background colors: white, black, red, green, blue, yellow, magenta and cyan. It is recommended that this background is extended beyond the character foreground to a degree that the foreground is separated from the underlying video by a sufficient number of background pixels to insure the foreground is separated from the background.

(2) Decoders must implement transparent, translucent, solid and flashing background type attributes. Caption providers may specify the color/opacity. Decoders must include the ability for consumers to choose among the color/opacity options. The decoder must display the color/opacity chosen by the caption provider unless the viewer chooses otherwise.

(p) *Character edges.* Decoders must implement separate edge color and type attribute control.

(q) *Color representation.* (1) At a minimum, decoders must support the 8 colors listed in Table 6.

TABLE 6—MINIMUM COLOR LIST TABLE

Color	Red	Green	Blue
Black	0	0	0
White	2	2	2
Red	2	0	0
Green	0	2	0
Blue	0	0	2
Yellow	2	2	0
Magenta	2	0	2
Cyan	0	2	2

(2)(i) When a decoder supporting this Minimum Color List receives an RGB value not in the list, it will map the received value to one of the values in the list via the following algorithm:

(A) All one (1) values are to be changed to 0.

(B) All two (2) values are to remain unchanged.

(C) All three (3) values are to be changed to 2.

(ii) For example, the RGB value (1,2,3) will be mapped to (0,2,2), (3,3,3) will be mapped to (2,2,2) and (1,1,1) will be mapped to (0,0,0).

(3) Table 7 is an alternative minimum color list table supporting 22 colors.

TABLE 7—ALTERNATIVE MINIMUM COLOR LIST TABLE

Color	Red	Green	Blue
Black	0	0	0
Gray	1	1	1
White	2	2	2
Bright White	3	3	3
Dark Red	1	0	0
Red	2	0	0
Bright Red	3	0	0
Dark Green	0	1	0
Green	0	2	0
Bright Green	0	3	0
Dark Blue	0	0	1
Blue	0	0	2
Bright Blue	0	0	3
Dark Yellow	1	1	0
Yellow	2	2	0
Bright Yellow	3	3	0
Dark Magenta	1	0	1
Magenta	2	0	2
Bright Magenta	3	0	3
Dark Cyan	0	1	1
Cyan	0	2	2
Bright Cyan	0	3	3

(i) When a decoder supporting the Alternative Minimum Color List in Table 7 receives an RGB value not in the list (*i.e.*, an RGB value whose non-zero elements are not the same value), it will map the received value to one of the values in the list via the following algorithm:

(A) For RGB values with all elements non-zero and different—*e.g.*, (1,2,3), (3,2,1), and (2,1,3), the 1 value will be changed to 0, the 2 value will remain unchanged, and the 3 value will be changed to 2.

(B) For RGB values with all elements non-zero and with two common elements—*e.g.*, (3,1,3), (2,1,2), and (2,2,3), if the common elements are 3 and the uncommon one is 1, then the 1 elements is changed to 0; *e.g.* (3,1,3) → (3,0,3). If the common elements are 1 and the uncommon element is 3, then the 1 elements are changed to 0, and the 3 element is changed to 2; *e.g.* (1,3,1) → (0,2,0). In all other cases, the uncommon element is changed to the common value; *e.g.*, (2,2,3) → (2,2,2), (1,2,1) → (1,1,1), and (3,2,3) → (3,3,3).

(ii) All decoders not supporting either one of the two color lists described above, must support the full 64 possible RGB color value combinations.

(r) *Character rendition considerations.* In NTSC Closed Captioning, decoders were required to insert leading and trailing spaces on each caption row. There were two reasons for this requirement:

(1) To provide a buffer so that the first and last characters of a caption row do not fall outside the safe title area, and

(2) To provide a black border on each side of a character so that the “white” leading pixels of the first character on a row and the trailing “white” pixels of the last character on a row do not bleed into the underlying video.

(i) Since caption windows are required to reside in the safe title area of the DTV screen, reason 1 (above) is not applicable to DTVCC captions.

(ii) The attributes available in the SetPenAttributes command for character rendition (*e.g.*, character background and edge attributes) provide unlimited flexibility to the caption provider when describing caption text in an ideal decoder implementation. However, manufacturers need not implement all pen attributes. Thus it is recommended that no matter what the level of implementation, decoder manufacturers should take into account the readability of all caption text against a variety of all video backgrounds, and should implement some

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. Redesignated and amended at 77 FR 19515, 19518, Mar. 30, 2012; 78 FR 39627, July 2, 2013]

§ 79.103 Closed caption decoder and display requirements for apparatus.

(a) Effective January 1, 2014, all digital apparatus designed to receive or play back video programming transmitted simultaneously with sound, if such apparatus is manufactured in the United States or imported for use in the United States and uses a picture screen of any size must be equipped with built-in closed caption decoder circuitry or capability designed to display closed-captioned video programming pursuant to the provisions of this section, if technically feasible, except that apparatus that use a picture screen less than 13 inches in size must comply with the provisions of this section only if doing so is achievable as defined in this section.

NOTE 1 TO PARAGRAPH (a): Apparatus includes the physical device and the video player(s) capable of displaying video programming transmitted simultaneously with sound that manufacturers install into the devices they manufacture before sale, whether in the form of hardware, software, or a combination of both, as well as any video players capable of displaying video programming transmitted simultaneously with sound

that manufacturers direct consumers to install after sale.

NOTE 2 TO PARAGRAPH (a): This paragraph places no restrictions on the importing, shipping, or sale of apparatus that were manufactured before January 1, 2014.

(b) *Exempt apparatus*—(1) *Display-only monitors.* Apparatus or class of apparatus that are display-only video monitors with no playback capability are not required to comply with the provisions of this section.

(2) *Professional or commercial equipment.* Apparatus or class of apparatus that are professional or commercial equipment not typically used by the public are not required to comply with the provisions of this section.

(3)(i) *Achievable.* Manufacturers of apparatus that use a picture screen of less than 13 inches in size may petition the Commission for a full or partial exemption from the closed captioning requirements of this section pursuant to § 1.41 of this chapter, which the Commission may grant upon a finding that the requirements of this section are not achievable, or may assert that such apparatus is fully or partially exempt as a response to a complaint, which the Commission may dismiss upon a finding that the requirements of this section are not achievable.

(ii) The petitioner or respondent must support a petition for exemption or a response to a complaint with sufficient evidence to demonstrate that compliance with the requirements of this section is not "achievable" where "achievable" means with reasonable effort or expense. The Commission will consider the following factors when determining whether the requirements of this section are not "achievable:"

(A) The nature and cost of the steps needed to meet the requirements of this section with respect to the specific equipment or service in question;

(B) The technical and economic impact on the operation of the manufacturer or provider and on the operation of the specific equipment or service in question, including on the development and deployment of new communications technologies;

(C) The type of operations of the manufacturer or provider; and

(D) The extent to which the service provider or manufacturer in question

offers accessible services or equipment containing varying degrees of functionality and features, and offered at differing price points.

(4) *Waiver.* Manufacturers of apparatus may petition the Commission for a full or partial waiver of the closed captioning requirements of this section, which the Commission may grant, upon a finding that the apparatus meets one of the following provisions:

(i) The apparatus is primarily designed for activities other than receiving or playing back video programming transmitted simultaneously with sound; or

(ii) The apparatus is designed for multiple purposes, capable of receiving or playing back video programming transmitted simultaneously with sound but whose essential utility is derived from other purposes.

(c) *Specific technical capabilities.* All apparatus subject to this section shall implement the following captioning functionality:

(1) *Presentation.* All apparatus shall implement captioning such that the caption text may be displayed within one or separate caption windows and supporting the following modes: text that appears all at once (pop-on), text that scrolls up as new text appears (roll-up), and text where each new letter or word is displayed as it arrives (paint-on).

(2) *Character color.* All apparatus shall implement captioning such that characters may be displayed in the 64 colors defined in CEA-708 and such that users are provided with the ability to override the authored color for characters and select from a palette of at least 8 colors including: white, black, red, green, blue, yellow, magenta, and cyan.

(3) *Character opacity.* All apparatus shall implement captioning such that users are provided with the ability to vary the opacity of captioned text and select between opaque and semi-transparent opacities.

(4) *Character size.* All apparatus shall implement captioning such that users are provided with the ability to vary the size of captioned text and shall provide a range of such sizes from 50% of the default character size to 200% of the default character size.

(5) *Fonts.* All apparatus shall implement captioning such that fonts are available to implement the eight fonts required by CEA-708 and § 79.102(k). Users must be provided with the ability to assign the fonts included on their apparatus as the default font for each of the eight styles contained in § 79.102(k).

(6) *Caption background color and opacity.* All apparatus shall implement captioning such that the caption background may be displayed in the 64 colors defined in CEA-708 and such that users are provided with the ability to override the authored color for the caption background and select from a palette of at least 8 colors including: white, black, red, green, blue, yellow, magenta, and cyan. All apparatus shall implement captioning such that users are provided with the ability to vary the opacity of the caption background and select between opaque, semi-transparent, and transparent background opacities.

(7) *Character edge attributes.* All apparatus shall implement captioning such that character edge attributes may be displayed and users are provided the ability to select character edge attributes including: no edge attribute, raised edges, depressed edges, uniform edges, and drop shadowed edges.

(8) *Caption window color.* All apparatus shall implement captioning such that the caption window color may be displayed in the 64 colors defined in CEA-708 and such that users are provided with the ability to override the authored color for the caption window and select from a palette of at least 8 colors including: white, black, red, green, blue, yellow, magenta, and cyan. All apparatus shall implement captioning such that users are provided with the ability to vary the opacity of the caption window and select between opaque, semi-transparent, and transparent background opacities.

(9) *Language.* All apparatus must implement the ability to select between caption tracks in additional languages when such tracks are present and provide the ability for the user to select simplified or reduced captions when such captions are available and identify such a caption track as “easy reader.”

(10) *Preview and setting retention.* All apparatus must provide the ability for the user to preview default and user selection of the caption features required by this section, and must retain such settings as the default caption configuration until changed by the user.

(11) *Safe Harbor.* Apparatus which implement Society of Motion Picture and Television Engineers Timed Text format (SMPTE ST 2052-1:2010 incorporated by reference, *see* §79.100) with respect to the functionality in paragraphs (c)(1) through (10) of this section shall be deemed in compliance with paragraph (c) of this section.

NOTE TO PARAGRAPH (C): Where video programming providers or distributors subject to §79.4 of this part display or render captions, they shall implement the functional requirements contained in paragraphs (c)(1) through (10) of this section unless doing so is economically burdensome as defined in §79.4(d).

(d) *Interconnection.* All video outputs of covered apparatus shall be capable of conveying from the source device to the consumer equipment the information necessary to permit or render the display of closed captions.

(e) *Access to closed captioning display settings.* Manufacturers of apparatus subject to paragraph (a) of this section and multichannel video programming distributors must ensure that consumers are able to readily access user display settings for closed captioning on apparatus designed to receive or play back video programming transmitted simultaneously with sound, if such apparatus is manufactured in the United States or imported for use in the United States and uses a picture screen of any size, if technically feasible, except that the requirement does not apply to third-party, pre-installed applications, and for apparatus that use a picture screen of less than 13 inches in size the requirement is mandated only if doing so is achievable as defined in this section.

(1) In determining whether closed captioning display settings are readily accessible, the Commission will require compliance with the following factors:

(i) *Proximity.* This factor considers whether the closed captioning display settings are available in one area of the settings that is accessed via a means

reasonably comparable to a button, key, or icon.

(ii) *Discoverability.* This factor considers whether the user has the ability to easily find the closed captioning display settings. To ensure settings are discoverable, manufacturers of apparatus subject to paragraph (a) of this section and multichannel video programming distributors are required to:

(A) Conduct usability testing to determine if caption display settings can be easily found by working with consumers and disability groups as part of the testing process;

(B) Make good faith efforts to correct problems identified during the consumer testing process; and

(C) Train customer-facing employees on how to advise customers with regard to caption display settings.

(iii) *Previewability.* This factor considers whether viewers are able to preview the appearance of closed captions on programming on their screen while changing the closed captioning display settings.

(iv) *Consistency and persistence.* This factor requires covered entities to:

(A) With regard to an MVPD's provision of navigation devices, expose closed caption display settings via an application programming interface (API) or similar method that an over-the-top application provider can use upon launch of their application on the device. The API or similar method must enable the application provider to use the device-level caption settings for its own content, if it chooses, and covered entities must notify application developers about this API or similar method through any reasonable means;

(B) With regard to providing an MVPD's own video programming application hosted on third-party devices, utilize the operating system-level closed caption settings of the apparatus upon launch of the application on the device; and

(C) Ensure that apparatus they manufacture make closed caption settings available to applications via an API or similar method.

(2) Compliance with this requirement is required for devices that use next generation operating systems deployed

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after FCC publishes a rule in the FEDERAL REGISTER establishing the compliance date.

NOTE: The compliance date is after the Office of Management and Budget has completed its review of any information collection requirements that the Media Bureau determines is required under the Paperwork Reduction Act or August 17, 2026, whichever is later.

(3) This paragraph (e) places no restrictions on the importing, shipping, or sale of apparatus that were manufactured before August 17, 2026.

[77 FR 19518, Mar. 30, 2012, as amended at 78 FR 39628, July 2, 2013; 89 FR 66282, Aug. 15, 2024]

§ 79.104 Closed caption decoder requirements for recording devices.

(a) Effective January 1, 2014, all apparatus designed to record video programming transmitted simultaneously with sound, if such apparatus is manufactured in the United States or imported for use in the United States, must comply with the provisions of this section except that apparatus must only do so if it is achievable as defined in § 79.103(b)(3).

NOTE TO PARAGRAPH (a): This paragraph places no restrictions on the importing, shipping, or sale of apparatus that were manufactured before January 1, 2014.

(b) All apparatus subject to this section must enable the rendering or the pass through of closed captions such that viewers are able to activate and de-activate the closed captions as the video programming is played back as described in § 79.103(c).

(c) All apparatus subject to this section must comply with the interconnection mechanism requirements in § 79.103(d).

[77 FR 19520, Mar. 30, 2012, as amended at 78 FR 39628, July 2, 2013]

§ 79.105 Audio description and emergency information accessibility requirements for all apparatus.

(a) Effective May 26, 2015, all apparatus that is designed to receive or play back video programming transmitted simultaneously with sound that is provided by entities subject to §§ 79.2 and 79.3, is manufactured in the United States or imported for use in the United States, and uses a picture

screen of any size, must have the capability to decode and make available the secondary audio stream if technically feasible, unless otherwise provided in this section, which will facilitate the following services:

(1) The transmission and delivery of audio description services as required by § 79.3; and

(2) Emergency information (as that term is defined in § 79.2) in a manner that is accessible to individuals who are blind or visually impaired.

NOTE 1 TO PARAGRAPH (a): Apparatus includes the physical device and the video player(s) capable of displaying video programming transmitted simultaneously with sound that manufacturers install into the devices they manufacture before sale, whether in the form of hardware, software, or a combination of both, as well as any video players capable of displaying video programming transmitted simultaneously with sound that manufacturers direct consumers to install after sale.

NOTE 2 TO PARAGRAPH (a): This paragraph places no restrictions on the importing, shipping, or sale of apparatus that were manufactured before May 26, 2015.

(b) *Exempt apparatus*—(1) *Display-only monitors*. Apparatus or class of apparatus that are display-only video monitors with no playback capability are not required to comply with the provisions of this section.

(2) *Professional or commercial equipment*. Apparatus or class of apparatus that are professional or commercial equipment not typically used by the public are not required to comply with the provisions of this section.

(3)(i) Apparatus that use a picture screen of less than 13 inches in size must comply with the provisions of this section only if doing so is achievable as defined in this section. Manufacturers of apparatus that use a picture screen of less than 13 inches in size may petition the Commission for a full or partial exemption from the audio description and emergency information requirements of this section pursuant to § 1.41 of this chapter, which the Commission may grant upon a finding that the requirements of this section are not achievable, or may assert

that such apparatus is fully or partially exempt as a response to a complaint, which the Commission may dismiss upon a finding that the requirements of this section are not achievable.

(ii) The petitioner or respondent must support a petition for exemption or a response to a complaint with sufficient evidence to demonstrate that compliance with the requirements of this section is not “achievable” where “achievable” means with reasonable effort or expense. The Commission will consider the following factors when determining whether the requirements of this section are not “achievable:”

(A) The nature and cost of the steps needed to meet the requirements of this section with respect to the specific equipment or service in question;

(B) The technical and economic impact on the operation of the manufacturer or provider and on the operation of the specific equipment or service in question, including on the development and deployment of new communications technologies;

(C) The type of operations of the manufacturer or provider; and

(D) The extent to which the service provider or manufacturer in question offers accessible services or equipment containing varying degrees of functionality and features, and offered at differing price points.

(4) *Waiver.* Manufacturers of apparatus may petition the Commission for a full or partial waiver of the requirements of this section, which the Commission may grant upon a finding that the apparatus meets one of the following provisions:

(i) The apparatus is primarily designed for activities other than receiving or playing back video programming transmitted simultaneously with sound; or

(ii) The apparatus is designed for multiple purposes, capable of receiving or playing back video programming transmitted simultaneously with sound but whose essential utility is derived from other purposes.

(c) *Interconnection.* Covered apparatus shall use interconnection mechanisms that make available the audio provided via a secondary audio stream.

(d) Beginning December 20, 2016, all apparatus subject to this section must provide a simple and easy to use mechanism for activating the secondary audio stream for audible emergency information.

NOTE TO PARAGRAPH (d): This paragraph places no restrictions on the importing, shipping, or sale of navigation devices that were manufactured before December 20, 2016.

[78 FR 31798, May 24, 2013, as amended at 80 FR 39715, July 10, 2015; 85 FR 76486, Nov. 30, 2020]

§ 79.106 Audio description and emergency information accessibility requirements for recording devices.

(a) Effective May 26, 2015, all apparatus that is designed to record video programming transmitted simultaneously with sound that is provided by entities subject to §§ 79.2 and 79.3 and is manufactured in the United States or imported for use in the United States, must comply with the provisions of this section except that apparatus must only do so if it is achievable as defined in § 79.105(b)(3).

NOTE 1 TO PARAGRAPH (a): Apparatus includes the physical device and the video player(s) capable of displaying video programming transmitted simultaneously with sound that manufacturers install into the devices they manufacture before sale, whether in the form of hardware, software, or a combination of both, as well as any video players capable of displaying video programming transmitted simultaneously with sound that manufacturers direct consumers to install after sale.

NOTE 2 TO PARAGRAPH (a): This paragraph places no restrictions on the importing, shipping, or sale of apparatus that were manufactured before May 26, 2015.

(b) All apparatus subject to this section must enable the presentation or the pass through of the secondary audio stream, which will facilitate the provision of audio description signals and emergency information (as that term is defined in § 79.2) such that viewers are able to activate and de-activate the audio description as the video programming is played back on a picture screen of any size.

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(c) All apparatus subject to this section must comply with the interconnection mechanism requirements in § 79.105(c).

[78 FR 31798, May 24, 2013, as amended at 85 FR 76486, Nov. 30, 2020]

§ 79.107 User interfaces provided by digital apparatus.

(a)(1) A manufacturer of digital apparatus manufactured in or imported for use in the United States and designed to receive or play back video programming transmitted in digital format simultaneously with sound, including apparatus designed to receive or display video programming transmitted in digital format using Internet protocol, must ensure that digital apparatus be designed, developed, and fabricated so that control of appropriate built-in functions included in the digital apparatus are accessible to and usable by individuals who are blind or visually impaired. Digital apparatus do not include navigation devices as defined in § 76.1200 of this chapter. Manufacturers must comply with the provisions of this section only if achievable as defined in § 79.107(c)(2).

NOTE 1 TO PARAGRAPH (a)(1): The term digital apparatus as used in this section includes the physical device and the video player(s) capable of displaying video programming transmitted in digital format simultaneously with sound that manufacturers install into the devices they manufacture before sale, whether in the form of hardware, software, or a combination of both, as well as any video players capable of displaying video programming in digital format transmitted simultaneously with sound that manufacturers direct consumers to install after sale. The term software includes third-party applications that are pre-installed on a device by the manufacturer or that the manufacturer directs consumers to install after sale.

NOTE 2 TO PARAGRAPH (a)(1): This paragraph places no restrictions on the importing, shipping, or sale of digital apparatus manufactured before the applicable compliance deadline for this section.

(2) If on-screen text menus or other visual indicators built in to the digital apparatus are used to access the appropriate built-in apparatus functions, manufacturers of the digital apparatus must ensure that those functions are accompanied by audio output that is either integrated or peripheral to the

digital apparatus, so that such menus or indicators are accessible to and usable by individuals who are blind or visually impaired in real time.

(3) For appropriate built-in digital apparatus functions that are not accessed through on screen text menus or other visual indicators, *i.e.*, those that are not required to be accompanied by audio output in accordance with paragraph (a)(2) of this section, manufacturers of digital apparatus must make such functions accessible to individuals who are blind or visually impaired by ensuring that the input, control, and mechanical functions are locatable, identifiable, and operable in accordance with each of the following, assessed independently:

(i) *Operable without vision.* The digital apparatus must provide at least one mode that does not require user vision.

(ii) *Operable with low vision and limited or no hearing.* The digital apparatus must provide at least one mode that permits operation by users with visual acuity between 20/70 and 20/200, without relying on audio output.

(iii) *Operable with little or no color perception.* The digital apparatus must provide at least one mode that does not require user color perception.

(4) Appropriate built-in apparatus functions are those functions that are used for receiving, playing back, or displaying video programming, and include the following functions:

(i) *Power On/Off.* Function that allows the user to turn the device on or off.

(ii) *Volume Adjust and Mute.* Function that allows the user to adjust the volume and to mute or un-mute the volume.

(iii) *Channel/Program Selection.* Function that allows the user to select channels and programs (e.g., via physical numeric or channel up/channel down buttons or via on screen guides and menus).

(iv) *Display Channel/Program Information.* Function that allows the user to display channel or program information.

(v) *Configuration—Setup.* Function that allows the user to access and change configuration or setup options (e.g., configuration of video display and audio settings, selection of preferred

language for onscreen guides or menus, etc.).

(vi) *Configuration—CC Control*. Function that allows the user to enable or disable the display of closed captioning.

(vii) *Configuration—CC Options*. Function that allows the user to modify the display of closed caption data (e.g., configuration of the font size, font color, background color, opacity, etc.).

(viii) *Configuration—audio description control*. Function that allows the user to enable or disable the output of audio description (i.e., allows the user to change from the main audio to the secondary audio stream that contains audio description, and from the secondary audio stream back to the main audio).

(ix) *Display Configuration Info*. Function that allows the user to display how user preferences are currently configured.

(x) *Playback Functions*. Function that allows the user to control playback functions (e.g., pause, play, rewind, fast forward, stop, and record).

(xi) *Input Selection*. Function that allows the user to select their preferred input source.

(5) As used in this section, the term “usable” shall mean that individuals with disabilities have access to information and documentation on the full functionalities of digital apparatus, including instructions, product information (including accessible feature information), documentation, bills, and technical support which are provided to individuals without disabilities.

(b) *Compliance deadline*. Compliance with the requirements of this section is required no later than December 20, 2016; except that compliance with the requirements of this section is required no later than December 20, 2021 for the following digital apparatus:

(1) Display-only monitors and video projectors;

(2) Devices that are primarily designed to capture and display still and/or moving images consisting of consumer generated media, or of other images that are not video programming as defined under § 79.4(a)(1) of this part, and that have limited capability to display video programming transmitted simultaneously with sound; and

(3) Devices that are primarily designed to display still images and that have limited capability to display video programming transmitted simultaneously with sound.

(c)(1) *Achievable*. Manufacturers of digital apparatus:

(i) May file a petition seeking a determination from the Commission, pursuant to § 1.41 of this chapter, that compliance with the requirements of this section is not achievable, which the Commission may grant upon a finding that such compliance is not achievable, or

(ii) May raise as a defense to a complaint or Commission enforcement action that a particular digital apparatus does not comply with the requirements of this section because compliance was not achievable, and the Commission may dismiss a complaint or Commission enforcement action upon a finding that such compliance is not achievable.

(2) The petitioner or respondent must support a petition filed pursuant to paragraph (c)(1) of this section or a response to a complaint or Commission enforcement action with sufficient evidence to demonstrate that compliance with the requirements of this section is not “achievable.” “Achievable” means with reasonable effort or expense. The Commission will consider the following factors when determining whether compliance with the requirements of this section is not “achievable” under the factors set out in 47 U.S.C. 617(g):

(i) The nature and cost of the steps needed to meet the requirements of this section with respect to the specific equipment or service in question;

(ii) The technical and economic impact on the operation of the manufacturer or provider and on the operation of the specific equipment or service in question, including on the development and deployment of new communications technologies;

(iii) The type of operations of the manufacturer or provider; and

(iv) The extent to which the service provider or manufacturer in question offers accessible services or equipment containing varying degrees of functionality and features, and offered at differing price points.

(d)(1) *Information, documentation, and training.* Manufacturers of digital apparatus shall ensure access to information and documentation it provides to its customers, if achievable. Such information and documentation includes user guides, bills, installation guides for end-user installable devices, and product support communications, regarding both the product in general and the accessibility features of the product. Manufacturers shall take such other achievable steps as necessary including:

- (i) Providing a description of the accessibility and compatibility features of the product upon request, including, as needed, in alternate formats or alternate modes at no additional charge;
- (ii) Providing end-user product documentation in alternate formats or alternate modes upon request at no additional charge; and
- (iii) Ensuring usable customer support and technical support in the call centers and service centers which support their products at no additional charge.

(2) Manufacturers of digital apparatus shall include in general product information the contact method for obtaining the information required by paragraph (d)(1) of this section.

(3) In developing, or incorporating existing training programs, manufacturers of digital apparatus shall consider the following topics:

- (i) Accessibility requirements of individuals with disabilities;
- (ii) Means of communicating with individuals with disabilities;
- (iii) Commonly used adaptive technology used with the manufacturer's products;
- (iv) Designing for accessibility; and
- (v) Solutions for accessibility and compatibility.

(e) *Notices.* Digital apparatus manufacturers must notify consumers that digital apparatus with the required accessibility features are available to consumers as follows: A digital apparatus manufacturer must provide notice on its official Web site about the availability of accessible digital apparatus. A digital apparatus manufacturer must prominently display information about accessible digital apparatus on its Web site in a way that

makes such information available to all consumers. The notice must publicize the availability of accessible devices and the specific person, office or entity who can answer consumer questions about which products contain the required accessibility features. The contact office or person listed on the Web site must be able to answer both general and specific questions about the availability of accessible equipment, including, if necessary, providing information to consumers or directing consumers to a place where they can locate information about how to activate and use accessibility features. All information required by this section must be provided in a Web site format that is accessible to people with disabilities.

[78 FR 77251, Dec. 20, 2013, as amended at 81 FR 5936, Feb. 4, 2016; 85 FR 76486, Nov. 30, 2020]

§ 79.108 Video programming guides and menus provided by navigation devices.

(a)(1) Manufacturers that place navigation devices, as defined by § 76.1200 of this chapter, into the chain of commerce for purchase by consumers, and multichannel video programming distributors (“MVPDs”) as defined by § 76.1200 of this chapter that lease or sell such devices must ensure that the on-screen text menus and guides provided by navigation devices for the display or selection of multichannel video programming are audibly accessible in real time upon request by individuals who are blind or visually impaired. Manufacturers and MVPDs must comply with the provisions of this section only if doing so is achievable as defined in § 79.108(c)(2).

NOTE 1 TO PARAGRAPH (a)(1): This paragraph places no restrictions on the importing, shipping, or sale of navigation devices manufactured before the applicable compliance deadline for this section.

NOTE 2 TO PARAGRAPH (a)(1): In determining whether a particular device is considered a “navigation device” subject to the requirements of this section, the Commission will look to the device’s built-in functionality at the time of manufacture.

(2) The following functions are used for the display or selection of multichannel video programming and must

be made audibly accessible by manufacturers of navigation devices and MVPDs covered by this section when included in a navigation device and accessed through on-screen text menus or guides:

(i) *Channel/Program Selection*. Function that allows the user to select channels and programs (e.g., via physical numeric or channel up/channel down buttons or via on screen guides and menus).

(ii) *Display Channel/Program Information*. Function that allows the user to display channel or program information.

(iii) *Configuration—Setup*. Function that allows the user to access and change configuration or setup options (e.g., configuration of video display and audio settings, selection of preferred language for onscreen guides or menus, etc.).

(iv) *Configuration—CC Control*. Function that allows the user to enable or disable the display of closed captioning.

(v) *Configuration—CC Options*. Function that allows the user to modify the display of closed caption data (e.g., configuration of the font size, font color, background color, opacity, etc.).

(vi) *Configuration—audio description control*. Function that allows the user to enable or disable the output of audio description (i.e., allows the user to change from the main audio to the secondary audio stream that contains audio description, and from the secondary audio stream back to the main audio).

(vii) *Display Configuration Info*. Function that allows the user to display how user preferences are currently configured.

(viii) *Playback Functions*. Function that allows the user to control playback functions (e.g., pause, play, rewind, fast forward, stop, and record).

(ix) *Input Selection*. Function that allows the user to select their preferred input source.

(3) Manufacturers of navigation devices and MVPDs covered by this section must ensure that the following functions are made accessible, as defined by § 79.107(a)(3), to individuals who are blind or visually impaired:

(i) *Power On/Off*. Function that allows the user to turn the device on or off.

(ii) *Volume Adjust and Mute*. Function that allows the user to adjust the volume and to mute or un-mute the volume.

(4) With respect to navigation device features and functions:

(i) Delivered in software, the requirements set forth in this section shall apply to the manufacturer of such software; and

(ii) Delivered in hardware, the requirements set forth in this section shall apply to the manufacturer of such hardware.

(5) Manufacturers of navigation devices and MVPDs covered by this section must permit a requesting blind or visually impaired individual to request an accessible navigation device through any means that such covered entities generally use to make available navigation devices to other consumers. Any such means must not be more burdensome to a requesting blind or visually impaired individual than the means required for other consumers to obtain navigation devices. A manufacturer that provides navigation devices at retail to requesting blind or visually impaired consumers must make a good faith effort to have retailers make available compliant navigation devices to the same extent they make available navigation devices to other consumers generally.

(6) Manufacturers of navigation devices and MVPDs covered by this section must provide an accessible navigation device to a requesting blind or visually impaired individual within a reasonable time, defined as a time period comparable to the time that such covered entities generally provide navigation devices to other consumers.

(7) *Compliance through the use of separate equipment or software*. Manufacturers of navigation devices and MVPDs covered by this section may comply with the requirements of paragraphs (a)(1) through (a)(3) of this section through the use of software, a peripheral device, specialized consumer premises equipment, a network-based service or other solution, and shall have maximum flexibility to select the manner of compliance. An entity that

chooses to comply with paragraphs (a)(1) through (a)(3) of this section through the use of separate equipment or software must:

(i) Ensure that any software, peripheral device, equipment, service or solution relied upon achieves the accessibility required by this section. If a navigation device has any functions that are required to be made accessible pursuant to this section, any separate solution must make all of those functions accessible or enable the accessibility of those functions.

(ii) Provide any software, peripheral device, equipment, service or solution in a manner that is not more burdensome to a requesting blind or visually impaired individual than the manner in which such entity generally provides navigation devices to other consumers.

(iii) Provide any software, peripheral device, equipment, service or solution at no additional charge.

(iv) Provide any software, peripheral device, equipment, service or solution within a reasonable time, defined as a time period comparable to the time that such entity generally provides navigation devices to other consumers.

(8) Manufacturers of navigation devices and MVPDs covered by this section shall only be responsible for compliance with the requirements of this section with respect to navigation devices that such covered entities provide to a requesting blind or visually impaired individual.

(b) *Compliance deadline.* Compliance with the requirements of this section is required no later than December 20, 2016; except that compliance with the requirements of this section is required no later than December 20, 2018 for the following covered entities:

(1) MVPD operators with 400,000 or fewer subscribers as of year-end 2012; and

(2) MVPD systems with 20,000 or fewer subscribers that are not affiliated with an operator serving more than 10 percent of all MVPD subscribers as of year-end 2012.

(c)(1) *Achievable.* MVPDs and manufacturers of navigation device hardware or software:

(i) May file a petition seeking a determination from the Commission, pursuant to § 1.41 of this chapter, that

compliance with the requirements of this section is not achievable, which the Commission may grant upon a finding that such compliance is not achievable, or

(ii) May raise as a defense to a complaint or Commission enforcement action that a particular navigation device does not comply with the requirements of this section because compliance was not achievable, and the Commission may dismiss a complaint or Commission enforcement action upon a finding that such compliance is not achievable.

(2) The petitioner or respondent must support a petition filed pursuant to paragraph (c)(1) of this section or a response to a complaint or Commission enforcement action with sufficient evidence to demonstrate that compliance with the requirements of this section is not “achievable.” “Achievable” means with reasonable effort or expense. The Commission will consider the following factors when determining whether compliance with the requirements of this section is not “achievable” under the factors set out in 47 U.S.C. 617(g):

(i) The nature and cost of the steps needed to meet the requirements of this section with respect to the specific equipment or service in question;

(ii) The technical and economic impact on the operation of the manufacturer or provider and on the operation of the specific equipment or service in question, including on the development and deployment of new communications technologies;

(iii) The type of operations of the manufacturer or provider; and

(iv) The extent to which the service provider or manufacturer in question offers accessible services or equipment containing varying degrees of functionality and features, and offered at differing price points.

(d)(1) *MVPD notices.* Covered MVPDs must notify consumers that navigation devices with the required accessibility features are available to consumers who are blind or visually impaired upon request as follows:

(i) When providing information about equipment options in response to a consumer inquiry about service, accessibility, or other issues, MVPDs must

clearly and conspicuously inform consumers about the availability of accessible navigation devices.

(ii) MVPDs must provide notice on their official Web sites about the availability of accessible navigation devices. MVPDs must prominently display information about accessible navigation devices and separate solutions on their Web sites in a way that makes such information available to all current and potential subscribers. The notice must publicize the availability of accessible devices and separate solutions and explain the means for making requests for accessible equipment and the specific person, office or entity to whom such requests are to be made. The contact office or person listed on the Web site must be able to answer both general and specific questions about the availability of accessible equipment, including, if necessary, providing information to consumers or directing consumers to a place where they can locate information about how to activate and use accessibility features. All information required by this section must be provided in a Web site format that is accessible to people with disabilities.

(2) *Manufacturer notices.* Navigation device manufacturers must notify consumers that navigation devices with the required accessibility features are available to consumers who are blind or visually impaired upon request as follows: A navigation device manufacturer must provide notice on its official Web site about the availability of accessible navigation devices. A navigation device manufacturer must prominently display information about accessible navigation devices and separate solutions on its Web site in a way that makes such information available to all consumers. The notice must publicize the availability of accessible devices and separate solutions and explain the means for making requests for accessible equipment and the specific person, office or entity to whom such requests are to be made. The contact office or person listed on the Web site must be able to answer both general and specific questions about the availability of accessible equipment, including, if necessary, providing information to consumers or directing con-

sumers to a place where they can locate information about how to activate and use accessibility features. All information required by this section must be provided in a Web site format that is accessible to people with disabilities.

(e) *Verification of eligibility.* Entities covered by this section may only require consumer verification of eligibility as an individual who is blind or visually impaired to the extent the entity chooses to rely on an accessibility solution that involves providing the consumer with sophisticated equipment and/or services at a price that is lower than that offered to the general public. In this situation, entities covered by this section must allow a consumer to provide a wide array of documentation to verify eligibility for the accessibility solution provided. Entities covered by this section that choose to require verification of eligibility must comply with the requirements of 47 U.S.C. 338(i)(4)(A) and 47 U.S.C. 631(c)(1) to protect personal information gathered from consumers through their verification procedures.

(f)(1) *Information, documentation, and training.* MVPDs and manufacturers of navigation devices shall ensure access to information and documentation it provides to its customers, if achievable. Such information and documentation includes user guides, bills, installation guides for end-user installable devices, and product support communications, regarding both the product in general and the accessibility features of the product. MVPDs and manufacturers of navigation devices shall take such other achievable steps as necessary including:

(i) Providing a description of the accessibility and compatibility features of the product upon request, including, as needed, in alternate formats or alternate modes at no additional charge;

(ii) Providing end-user product documentation in alternate formats or alternate modes upon request at no additional charge; and

(iii) Ensuring usable customer support and technical support in the call centers and service centers which support their products at no additional charge.

(2) MVPDs and manufacturers of navigation devices shall include in general product information the contact method for obtaining the information required by paragraph (f)(1) of this section.

(3) In developing, or incorporating existing training programs, MVPDs and manufacturers of navigation devices shall consider the following topics:

- (i) Accessibility requirements of individuals with disabilities;
- (ii) Means of communicating with individuals with disabilities;
- (iii) Commonly used adaptive technology used with the manufacturer's products;
- (iv) Designing for accessibility; and
- (v) Solutions for accessibility and compatibility.

(4) If a consumer with a disability requests an accessible navigation device pursuant to Section 205, this also constitutes a request for a description of the accessibility features of the device and end-user product documentation in accessible formats.

[78 FR 77251, Dec. 20, 2013, as amended at 81 FR 5936, Feb. 4, 2016; 85 FR 76486, Nov. 30, 2020]

§ 79.109 Activating accessibility features.

(a) *Requirements applicable to digital apparatus.* (1) Manufacturers of digital apparatus designed to receive or play back video programming transmitted in digital format simultaneously with sound, including apparatus designed to receive or display video programming transmitted in digital format using Internet protocol, with built-in closed-captioning capability must ensure that closed captioning can be activated through a mechanism that is reasonably comparable to a button, key, or icon. Digital apparatus do not include navigation devices as defined in § 76.1200 of this chapter.

(2) Manufacturers of digital apparatus designed to receive or play back video programming transmitted in digital format simultaneously with sound, including apparatus designed to receive or display video programming transmitted in digital format using internet protocol, with built-in audio description capability must ensure that audio description can be activated through a

mechanism that is reasonably comparable to a button, key, or icon. Digital apparatus do not include navigation devices as defined in § 76.1200 of this chapter.

NOTE 1 TO PARAGRAPH (a): The term digital apparatus includes the physical device and the video player(s) capable of displaying video programming transmitted in digital format simultaneously with sound that manufacturers install into the devices they manufacture before sale, whether in the form of hardware, software, or a combination of both, as well as any video players capable of displaying video programming in digital format transmitted simultaneously with sound that manufacturers direct consumers to install after sale. The term software includes third-party applications that are pre-installed on a device by the manufacturer or that the manufacturer directs consumers to install after sale.

NOTE 2 TO PARAGRAPH (a): This paragraph places no restrictions on the importing, shipping, or sale of digital apparatus manufactured before the applicable compliance deadline for this section.

(b) *Requirements applicable to navigation devices.* Manufacturers that place navigation devices, as defined in § 76.1200 of this chapter, into the chain of commerce for purchase by consumers, and MVPDs that lease or sell such navigation devices with built in closed-captioning capability must ensure that closed captioning can be activated through a mechanism that is reasonably comparable to a button, key, or icon.

NOTE 1 TO PARAGRAPH (b): In determining whether a particular device is considered a "navigation device" subject to the requirements of this section, the Commission will look to the device's built-in functionality at the time of manufacture.

NOTE 2 TO PARAGRAPH (b): This paragraph places no restrictions on the importing, shipping, or sale of navigation devices manufactured before the applicable compliance deadline for this section.

(c) *Compliance deadline.* Compliance with the requirements of this section is required no later than December 20, 2016; except that compliance with the requirements of this section is required no later than December 20, 2018 for the following covered entities: (1) MVPD operators with 400,000 or fewer subscribers as of year-end 2012; and (2) MVPD systems with 20,000 or fewer subscribers that are not affiliated with

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an operator serving more than 10 percent of all MVPD subscribers as of year-end 2012.

[78 FR 77251, Dec. 20, 2013, as amended at 85 FR 76486, Nov. 30, 2020]

§ 79.110 Complaint procedures for user interfaces, menus and guides, and activating accessibility features on digital apparatus and navigation devices.

(a) Complaints concerning an alleged violation of the requirements of § 79.107, § 79.108, or § 79.109 must be filed in accordance with this section. For purposes of this section, a covered entity is the entity or entities responsible for compliance with § 79.107, § 79.108, or § 79.109.

(1) Complaints must be filed with the Commission or with the covered entity within 60 days after the date the complainant experiences a problem relating to compliance with the requirements of § 79.107, § 79.108, or § 79.109. A complaint filed with the Commission may be transmitted to the Consumer and Governmental Affairs Bureau by any reasonable means, such as the Commission's online informal complaint filing system, letter, facsimile, telephone (voice/TRS/TTY), email, or some other method that would best accommodate the complainant's disability.

(2) A complaint should include the following information:

(i) The complainant's name, address, and other contact information, such as telephone number and email address;

(ii) The name and contact information of the covered entity;

(iii) Information sufficient to identify the software or digital apparatus/navigation device used;

(iv) The date or dates on which the complainant purchased, acquired, or used, or tried to purchase, acquire, or use the digital apparatus/navigation device;

(v) A statement of facts sufficient to show that the covered entity has violated, or is violating, the Commission's rules;

(vi) The specific relief or satisfaction sought by the complainant;

(vii) The complainant's preferred format or method of response to the complaint; and

(viii) If a complaint pursuant to § 79.108, the date that the complainant requested an accessible navigation device and the person or entity to whom that request was directed.

(3) If a complaint is filed first with the Commission, the Commission will forward a complaint satisfying the above requirements to the named covered entity for its response, as well as to any other entity that Commission staff determines may be involved. The covered entity or entities must respond in writing to the Commission and the complainant within 30 days after receipt of the complaint from the Commission.

(4) If a complaint is filed first with the covered entity, the covered entity must respond in writing to the complainant within 30 days after receipt of a complaint. If the covered entity fails to respond to the complainant within 30 days, or the response does not satisfy the consumer, the complainant may file the complaint with the Commission within 30 days after the time allotted for the covered entity to respond. If the consumer subsequently files the complaint with the Commission (after filing with the covered entity) and the complaint satisfies the above requirements in paragraph 2 of this section, the Commission will forward the complaint to the named covered entity for its response, as well as to any other entity that Commission staff determines may be involved. The covered entity must then respond in writing to the Commission and the complainant within 30 days after receipt of the complaint from the Commission.

(5) In response to a complaint, the covered entity must file with the Commission sufficient records and documentation to prove that it was (and remains) in compliance with the Commission's rules. Conclusory or insufficiently supported assertions of compliance will not carry the covered entity's burden of proof. If the covered entity admits that it was not, or is not, in compliance with the Commission's rules, it must file with the Commission sufficient records and documentation to explain the reasons for its non-compliance, show what remedial steps it has taken or will take, and show why

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such steps have been or will be sufficient to remediate the problem.

(6) The Commission will review all relevant information provided by the complainant and the covered entity, as well as any additional information the Commission deems relevant from its files or public sources. The Commission may request additional information from any relevant parties when, in the estimation of Commission staff, such information is needed to investigate the complaint or adjudicate potential violations of Commission rules. When the Commission requests additional information, parties to which such requests are addressed must provide the requested information in the manner and within the time period the Commission specifies.

(7) If the Commission finds that a covered entity has violated the requirements of §§79.107, 79.108, or 79.109, it may employ the full range of sanctions and remedies available under the Communications Act of 1934, as amended, against any or all of the violators.

(b) *Contact information.* A covered entity must make contact information available for the receipt and handling of complaints. The contact information required must include the name of a person with primary responsibility for accessibility compliance issues. This contact information must also include that person's title or office, telephone number, fax number, postal mailing address, and email address. A covered entity must keep this information current and update it within 10 business days of any change.