



ESTA Standards Watch

February 2018 Volume 22, Number 3

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Eleven ESTA Proposed Standards in Public Review

Eleven documents are available for public review at no cost on the ESTA website at http://tsp.esta.org/tsp/documents/public_review_docs.php. In order of comment due date and then alpha-numeric designation, the documents are:

BSR E1.6-1, Entertainment Technology – Powered Hoist Systems, establishes requirements for the design, manufacture, installation, inspection, and maintenance of powered hoist systems for lifting and suspension of loads for performance, presentation, and theatrical production. This standard does not apply to the structure to which the hoist is attached, attachment of loads to the load carrying device, systems for flying people, welded link chain hoists, and manually powered hoists. Comments are due before 20 February 2018.

BSR E1.46, Standard for the Prevention of Falls from Theatrical Stages and Raised Performance Platforms, offers guidance appropriate for theatrical venues on preventing falls from stages into orchestra pits, open stage lifts, and similar openings in stage floors. Comments are due before 13 March 2018.

The following nine documents all have comment due dates of 9 April 2018; comments must be submitted before April 10.

BSR E1.11, Entertainment Technology -- USITT DMX512-A -- Asynchronous Serial Digital Data Transmission Standard for Controlling Lighting Equipment and Accessories, describes a protocol for transmitting digital data over an EIA-485-A datalink for the purpose of controlling entertainment lighting equipment and accessories, such as dimmers, robotic luminaires, color changers, and motion effects wheels. The protocol is not intended to be used to control equipment where injury to people or damage to property could result from a message error. The existing E1.11 standard is being considered for reaffirmation without any substantive changes.

BSR ES1.19, Safety Requirements for Special Event Structures, is one part of a larger suite of ES1 standards relating to special event safety being developed. This draft standard covers any temporary structure used for special events (e.g., concerts, award shows, dramatic plays) not otherwise addressed by existing standards, codes, or legislation. The purpose of this document is to identify design, fabrication, operation and use, inspection and maintenance requirements for the structures included in its scope.

BSR E1.30-11, EPI 33 -- ACN Root Layer Protocol Operation on TCP, is part of the E1.30 suite of standards documents that specify how conforming implementations are to operate in a particular environment or situation in order to guarantee interoperability. This part of E1.30, EPI 33, is an interoperability profile that specifies the operation and formats for the ACN Root Layer Protocol operating on TCP.

BSR E1.33, Entertainment Technology -- (RDMnet) -- Message Transport and Device Management of ANSI E1.20 (RDM) over IP Networks, describes a method of implementing ANSI E1.20 Remote Device Management messaging over an IP-based network. BSR E1.37-7 (also in public review) is closely tied to this document.

BSR E1.37-4, Remote Device Management over DMX512 Networks – File Transfer Control with Firmware Upload Capabilities, is part of the E1.37 project. It provides developers of RDM responder hardware with a standard means of implementing firmware upload using the basic communication structure provided by the ANSI E1.20 RDM standard. The design approach is intended to facilitate data transfers to responders that may be built using processors with very limited memory resources as well as devices that can support the largest possible [RDM] packet.

BSR E1.37-7, Additional Message Sets for ANSI E1.20 (RDM) - Gateway & Splitter Messages, provides additional Get/Set Parameter Messages for use with the ANSI E1.20 Remote Device Management protocol. This document contains messages relating to configuring managed splitters, proxy devices, and RDMnet Devices. It is closely tied to E1.33.

BSR E1.42, Entertainment Technology— Design, Installation, and Use of Orchestra Pit Lifts, covers the design, construction, operation, inspection, testing, maintenance, alteration and repair of permanently installed orchestra pit lifts and their associated parts, rooms, spaces, enclosures and hoistways, where located in a theatre or a similar place of public entertainment.

BSR E1.56, Entertainment Technology—Rigging Support Points, provides guidance for the design, fabrication, installation, and testing of permanent and temporary rigging points and rigging lugs and their connection to existing building and venue structures.

BSR E1.60, Guidelines for the Use of Raked Stages in Live Performance Environments, is intended to provide guidance for the use of raked stages in live performance environments. The standard intends to define a rake and to offer guidance for production elements to mitigate the risks for the protection of actors and technicians.

FCC News

Internet Access Service Report

In early February 2018 the FCC's Wireline Competition Bureau published an Internet Access Service Report summarizing data available as of 31 December 2016. It is available at https://apps.fcc.gov/edocs_public/attachmatch/DOC-349074A1.pdf.

It has no action items in it—no call for comments or anything else—but it is useful information if you are considering locating a business or other enterprise somewhere and fast Internet access is important. This report summarizes the data by state or territory, so it is a broad-stroke summary; service in a particular city might be very good while it is terrible in the surrounding areas, thus resulting in slow connection speeds overall. However, it does give hints of where fast connections are easier to find. The five states with the highest percentage of the fastest connections (defined as at least 100 Mbps downstream and 10 Mbps upstream) are Massachusetts (28%), New Hampshire (27%), Delaware (27%), New Jersey (25%), and North Carolina (25%). The five states and territories with the lowest percentages of fast connections are Wyoming (0%), Northern Mariana Islands (0%), American Samoa (0%), Guam (0%), and Wisconsin (1%). No data is available for Nevada, Puerto Rico, the Virgin Islands, Alaska, Colorado, Hawaii, and the District of Columbia.

Tentative Agenda for FCC's February Open Meeting

The next FCC Open Commission Meeting is scheduled for 22 February 2018 in Room TW-C305 of the Federal Communications Commission's headquarters, 445 12th Street, S.W., Washington, D.C. The Open Meeting is open to the public, but the FCC building is not open access, so all guests must check in with and be screened by FCC security at the main entrance on 12th Street. The FCC has announced the meeting time as being at 10:30 a.m. "EDT," but the Eastern Time Zone will be on Standard Time until March 11. More information is available at <https://go.usa.gov/xX5Qn>.

The FCC open meeting is being listed in *Standards Watch* because an agenda item may be of particular interest to readers:

Spectrum Horizons "The Commission will consider a Notice of Proposed Rulemaking that seeks comment on proposed rules that would apply to spectrum above 95 GHz for licensed services, unlicensed operations, and a new class of experimental licenses. (ET Docket No. 18-21; RM-11713; WT Docket No. 15-245; RM-11795)"

PLASA Lighting Protocols Plugfest 2018 Registration Open

The PLASA Lighting Protocols Plugfest is scheduled to be held from Wednesday 25 April through Friday 27 April 2018 at the Copthorne Hotel London Gatwick. Besides being in a better venue than the 2017 Plugfest, the 2018 edition will have a broader scope, covering DALI, DMX512, RDM, Art-Net, and sACN. More information is available on the PLASA website at <http://www.plasa.org/technical/plugfest18.asp>. That page has a link to an Eventbrite page where you can purchase tickets. Morning and afternoon refreshments and a buffet lunch will be provided each day, and are included in the price. Parking is free to participants.

Severe Weather Summit March 22-23

The Event Safety Alliance has announced the return of the Severe Weather Summit, 22-23 March 2018. The Severe Weather Summit is designed to aid event and venue professionals in preparing for and responding to dangerous weather conditions. Over the course of two days at the National Weather Center's Storm Prediction Center in Norman, Oklahoma, subject matter experts from NOAA and the National Weather Service will explore topics including:

- Severe weather phenomena that can threaten all types of events and facilities;
- Why playing "amateur meteorologist" can be dangerous;
- Public and private-sector resources that can assist in weather preparedness;
- Technologies that can provide advanced warning of threatening weather; and
- How to develop a relevant and actionable severe weather plan.

The registration fee includes lunch at the Storm Prediction Center and a hard copy edition of *The Event Safety Guide*. For more information and to register, visit <http://severeweathersummit.com>.

NIST Issues Blockchain Technology Draft Report, Seeks Comments

The U.S. Commerce Department's National Institute of Standards and Technology has issued a draft report, [Draft NIST Interagency Report \(NISTIR\) 8202: Blockchain Technology Overview](#), that details a high-level technical overview of blockchain technology, its architecture, and how it works as the foundation of modern cryptocurrencies. NIST has requested stakeholders to submit comments on the draft document by 23 February 2018. Please submit comments by email to nistir8202-comments@nist.gov.

ANSI, DIN, and DKE Co-host U.S.-German Standards Panel 2018 on Cybersecurity, Future Technologies

The American National Standards Institute (ANSI), the German Institute for Standardization (DIN), and DKE will co-host a two-day event, U.S.-German Standards Panel 2018, focused on securing future technologies, cybersecurity, and other challenges and solutions for smart manufacturing, mobility, and agriculture on April 10-11 in Washington, DC. The U.S.-German Standards Panel 2018 will take place at [FHI 360 Conference Center](#) (1825 Connecticut Ave NW, Washington, DC). The April 10 session will be from 09:00 to 18:00; the April 11 session will be from 08:30 to noon. [Click here to register for the U.S.-German Standards Panel 2018](#) or visit <http://estalink.us/inkms>.

WTO Technical Barrier to Trade Notifications

The U.S. Department of Commerce's service, Notify U.S., recently has announced WTO Technical Barrier to Trade notices that may be of interest to *Standards Watch* readers. If you have a problem with the TBTs, you can protest through your representative to the WTO. See "Guidance for Comment Submissions by U.S. Industry on TBT Notifications" at <http://tsapps.nist.gov/notifyus/data/guidance/guidance.cfm> or <http://ec.europa.eu/enterprise/tbt/> for advice on filing objections.

Brazil Notification BRA/789

Date issued: 8 February 2018

Agency responsible: National Telecommunications Agency – ANATEL

National inquiry point: TBT/WTO Enquiry Point (INMETRO)

Products covered: Telecommunications products (HS 8517) telephone sets including telephones for cellular networks or for other wireless networks. Other apparatus for the transmission or reception of voice, images, or other data including apparatus for communication in a wired or wireless network, etc.

Title: Draft Ordinance 33, Conformity Assessment and Approval of Telecommunications Products, on 27 November 2017 (1 page)

Description of content: It approves the Conformity Assessment Regulation and homologation of telecommunications products. It will revoke the regulation for certification and approval of telecommunications products approved by Resolution 242, 30 November 2000 and the Standard for certification of telecommunication products approved by Resolution 323, 7 November 2002.

Objective and rationale: To ensure the interoperability of consumer telecommunications networks; Quality requirements.

Relevant documents: (1) Brazilian Official Journal (Diário Oficial da União) N° 227, 28 November 2017, section 1, page 5; (2) Law 9.472, 16 July 1997; ANATEL Resolution 242, 30 November 2000 (Resolução ANATEL N° 242, de 30 de Novembro de 2000); ANATEL Resolution 323, 7 November 2002 (Resolução ANATEL N° 323, de 7 de Novembro de 2002); (3) Brazilian Official Journal; (4) Not Stated.

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 26 February 2018

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/BRA/full_text/pdf/BRA789\(portuguese\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/BRA/full_text/pdf/BRA789(portuguese).pdf)

Canada Notification CAN/542

Date issued: 5 February 2018

Agency responsible: Department of Innovation, Sciences and Economic Development

National inquiry point: Foreign Affairs, Trade and Development Canada

Products covered: Radiocommunications

Title: Notice No. SMSE-001-18 - Release of RSS-133, Issue 6 (amendment) (1 page, available in English and French)

Description of content: Notice is hereby given by the Ministry of Innovation, Science and Economic Development that the following document has been updated on its Web site <http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/home?>: Radio Standards Specifications RSS-133, Issue 6, (amendment) 2 GHz Personal Communications Services sets out the requirements for the certification of transmitters and receivers used in radiocommunication systems to provide Personal Communications Services (PCS) in the bands 1850-1915 MHz and 1930-1995 MHz.

Objective and rationale: Effective spectrum management

Relevant documents: Canada Gazette, Part I, 27 January 2018: <http://www.gazette.gc.ca/rp-pr/p1/2018/2018-01-27/html/notice-avis-eng.php>

Proposed date of adoption: Not given by country

Proposed date of entry into force: 27 January 2018

Final date for comments: 28 March 2018

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN542\[1\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN542[1](english).pdf) and [https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN542\[2\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN542[2](english).pdf)

European Union Notification EU/541

Date issued: 8 February 2018

Agency responsible: EU-TBT Enquiry Point

National inquiry point: EU-TBT Enquiry Point

Products covered: Electrical and electronic equipment

Title: Draft Commission Implementing Regulation establishing the format for registration and reporting of producers of electrical and electronic equipment and the frequency of reporting to the register (and its accompanying annex) (4 pages + Annex 13 pages, in English)

Description of content: The draft Commission Implementing Regulation establishes a common format for registration and reporting of producers of electrical and electronic equipment and a common frequency of reporting to the register.

Objective and rationale: Harmonisation of rules and procedures applied at Member State level. The Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE) provides for Member States to draw up a register for producers of electrical and electronic equipment (EEE), including producers supplying EEE by means of distance communication. Member States shall ensure that each producer, or each authorised representative, is registered and report to the register. The WEEE Directive does not include a format for registration and reporting and does not set a common frequency of reporting. This means that each Member State has established a process for registration and reporting and a frequency of reporting. This situation may cause administrative burdens especially to producers supplying EEE by means of distance communication in different Member States as well as to producers that place EEE on the market of different Member States and have to be registered and report to each Member State using different formats, and in different frequency. The objective of the proposal is to ensure uniform conditions for producers' registration and reporting. Harmonisation of registration and reporting formats and of the frequency of reporting is addressed in the draft Implementing Regulation.

Relevant documents: Scientific background study on harmonisation of the format for registration and reporting of producers of electrical and electronic equipment (EEE) to the national register and on the frequency of reporting: http://ec.europa.eu/environment/waste/weee/pdf/Study%20on%20Registration%20and%20Reporting_Final%20report.pdf

Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE): <http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32012L0019>

Proposed date of adoption: 1 June 2018

Proposed date of entry into force: Not given by country

Final date for comments: 9 April 2018

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/EU/full_text/pdf/EU541\[1\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/EU/full_text/pdf/EU541[1](english).pdf) and [https://tsapps.nist.gov/notifyus/docs/wto_country/EU/full_text/pdf/EU541\[2\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/EU/full_text/pdf/EU541[2](english).pdf)

ANSI Public Review Announcements

The following documents have been announced for public review by ANSI. Please send your comments before the deadline to the person indicated and to ANSI's Board of Standards Review at psa@ansi.org.

NFPA Notice of Intent to Make a Motion Deadline: 21 February 2018

The National Fire Protection Association announces the availability of NFPA Second Draft Report for concurrent review and comment by NFPA and ANSI. The disposition of all comments received are published in the Second Draft Report, located on the document's information page under the next edition tab. The document's specific URL, www.nfpa.org/doc#next (for example www.nfpa.org/101next), can easily access the document's information page. All Notices of Intent to Make A Motion for these documents must be received by 21 February 2018.

More information on the rules and for up-to-date information on schedules and deadlines for processing NFPA Documents, check the NFPA website (<http://www.nfpa.org>) or contact NFPA's Codes and Standards Administration.

BSR/NFPA 30B-201x, Code for the Manufacture and Storage of Aerosol Products (revision of ANSI/NFPA 30B-2014)

This code shall apply to the manufacture, storage, and display of aerosol products as defined in this standard. This code shall not apply to the storage and display of containers whose contents are comprised entirely of LP-Gas products. This code shall not apply to post-consumer processing of aerosol containers. This code shall not apply to containers that do not meet the definition of Aerosol Container (see 3.3.2). Containers that contain a product that meets the definitions in 3.3.1 and 3.3.3, but are larger than the limits specified in 3.3.2, shall not be classified as aerosol products, and this code shall not apply to the manufacture, storage, and display of such products.

BSR/NFPA 51B-201x, Standard for Fire Prevention during Welding, Cutting, and Other Hot Work (revision of ANSI/NFPA 51B-2013)

This standard shall cover provisions to prevent injury, loss of life, and loss of property from fire or explosion as a result of hot work. Installation and operation of arc cutting and welding equipment and operation of gas cutting and welding equipment shall be in accordance with ANSI Z49.1, Safety in Welding, Cutting, and Allied Processes.

BSR/NFPA 72-201x, National Fire Alarm and Signaling Code (revision of ANSI/NFPA 72-2015)

NFPA 72 covers the application, installation, location, performance, inspection, testing, and maintenance of fire alarm systems, supervising station alarm systems, public emergency alarm reporting systems, fire warning equipment and emergency communications systems (ECS), and their components. The provisions of this chapter apply throughout the Code unless otherwise noted.

BSR/NFPA 88A-201x, Standard for Parking Structures (revision of ANSI/NFPA 88A-2011)

This standard shall cover the construction and protection of, as well as the control of hazards in, open and enclosed parking structures. This standard shall not apply to one- and two-family dwellings.

BSR/NFPA 101A-201x, Guide on Alternative Approaches to Life Safety (revision of ANSI/NFPA 101A-2015)

This guide consists of a number of alternative approaches to life safety. Each chapter is a different system independent of the others and is to be used in conjunction with the 2015 edition of NFPA 101. This edition of NFPA 101A contains alternative approaches that are tied to NFPA 101. Each of these systems is recognized by the Life Safety Code, in its Annex A, as a method that can be used to assist the authority having jurisdiction in determining equivalent compliance with various chapters of the Code. The method described in this guide is an index method. Index methods are a type of qualitative risk assessment. Quantitative risk assessments can also be used to evaluate designs that are proposed as alternative approaches to life safety. For information on developing fire risk assessments, see the SFPE Engineering Guide to Fire Risk Assessment. Guidance on reviewing fire

risk assessments can be found in NFPA 551. For further information on alternative approaches to fire safety, see "Systems Approach to Fire-Safe Building Design," Section 1, Chapter 9, of the 20th edition of the NFPA Fire Protection Handbook and the SFPE Handbook of Fire Protection Engineering, 4th edition, Section 3, "Hazard Calculations," and Section 5, Chapter 10, "Fire Risk Indexing."

BSR/NFPA 110-201x, Standard for Emergency and Standby Power Systems (revision of ANSI/NFPA 110-2015)

This standard contains requirements covering the performance of emergency and standby power systems providing an alternate source of electrical power to loads in buildings and facilities in the event that the primary power source fails. Power systems covered in this standard include power sources, transfer equipment, controls, supervisory equipment, and all related electrical and mechanical auxiliary and accessory equipment needed to supply electrical power to the load terminals of the transfer equipment. This standard covers installation, maintenance, operation, and testing requirements as they pertain to the performance of the emergency power supply system (EPSS).

BSR/NFPA 484-201x, Standard for Combustible Metals (revision of ANSI/NFPA 484-2012)

This standard shall apply to the production, processing, finishing, handling, recycling, storage, and use of all metals and alloys that are in a form that is capable of combustion or explosion. The procedures in Chapter 4 shall be used to determine whether a metal is in a noncombustible form. This standard also shall apply to operations where metal or metal alloys are subjected to processing or finishing operations that produce combustible powder or dust. Operations where metal or metal alloys are subjected to processing or finishing operations that produce combustible powder or dust shall include, but shall not be limited to, machining, sawing, grinding, buffing, and polishing. Metals, metal alloy parts, and those materials, including scrap, that exhibit combustion characteristics of alkali metals, aluminum, magnesium, tantalum, titanium, or zirconium shall be subject to the requirements of the metal whose combustion characteristics they most closely match. Metals, metal alloy parts, and those materials, including scrap, that do not exhibit combustion characteristics of alkali metals, aluminum, magnesium, niobium, tantalum, titanium, or zirconium are subject to the requirements of Chapter 14. This standard shall not apply to the transportation of metals in any form on public highways and waterways.

Due 12 March 2018

BSR ASSE A10.8-201x, Scaffolding Safety Requirements (revision of ANSI ASSE A10.8-2011)

This standard establishes safety requirements for the construction, operation, maintenance, and use of scaffolds used in the construction, alteration, demolition, and maintenance of buildings and structures.

Single copy price: \$80.00

Order from and send comments to: Lauren Bauerschmidt, lbauerschmidt@asse.org

BSR Z21.42-2013 (R201x), Gas-Fired Illuminating Appliances (reaffirmation of ANSI Z21.42-2013)

Details test and examination criteria for illuminating appliances for use with natural gas, manufactured gas, mixed gas, and liquefied petroleum gases for indoor or outdoor installations.

Single copy price: Free!

Obtain an electronic copy from: cathy.rake@csagroup.org

Send comments to: cathy.rake@csagroup.org

ANSI Z21.61-1983 (R2017), Standard for Gas-Fired Toilets (withdrawal of ANSI Z21.61-1983 (R2017))

Details test and examination criteria for gas-fired toilets for use with natural, manufactured and mixed gases, liquefied petroleum gases, and LP gas-air mixtures.

Single copy price: Free

Obtain an electronic copy from: cathy.rake@csagroup.org

Send comments to: cathy.rake@csagroup.org

BSR E1.46-201x, Standard for the Prevention of Falls from Theatrical Stages and Raised Performance Platforms (revision of ANSI E1.46-2016)

The users of theatrical stages and raised platforms can suffer debilitating injuries from falls into orchestra pits, open stage lifts, and similar openings in stage floors. Health and safety regulations require action to prevent these falls, but offer little guidance that is suitable for theatrical environments. This document provides it.

Single copy price: Free

Obtain an electronic copy from: http://tsp.esta.org/tsp/documents/public_review_docs.php

Send comments to: standards@esta.org

Due 26 March 2018

BSR C78.62717-201x, Standard for Electric Lamps - LED modules for general lighting - Performance Requirements (new standard)

This standard specifies the performance requirements for LED modules, together with the test methods and conditions, required to show compliance with this standard.

Single copy price: \$50.00

Order from and send comments to: Michael Erbesfeld, Michael.Erbesfeld@nema.org

Due 27 March 2018

BSR/ACCT 03-201x, Challenge Courses and Canopy/Zip Line Tours Standard (revision of ANSI/ACCT 03-2016)

Included are standards for facilities used for any purpose including amusement, recreation, team development, therapy, or education. Challenge courses now have three distinct operating methodologies: facilitated (such as traditional ropes and challenge courses), guided (such as canopy and zip line tours), or self-guided and monitored (such as aerial adventure/trekking parks).

Single copy price: Free

Order from and send comments to: Joyce Weaver, standardsmanagement@acctinfo.org

BSR C78.1433-2001 (S201x), Standard for Electric Lamps - Two-inch (51 mm) Dichroic Coated Integral Reflector, Rim Reference, Tungsten Halogen Large Screen Projection Lamps with GX5.3 Bases (stabilized maintenance of ANSI C78.1433-2001 (R2011))

This standard consolidates previous standards for certain low-voltage two-inch (51 mm) dichroic coated integral reflector, rim reference tungsten halogen lamp types with GX5.3 bases designed for large screen projection systems and used in 8 mm projection, 16 mm projection, slide projector, photo enlarger, and printing applications. The lamp types contained in this standard are not to be considered as interchangeable although they will all physically fit into two-inch integral rim reference centering systems and common GX5.3 lampholders. Photometry performance of each lamp depends upon the photometry appraisal system for which it was designed as well as the system in which the lamp is used. Photometry appraisal and end-use systems may or may not be the same. Two-inch (51mm) integral reflector, rim reference tungsten-halogen lamps with GX5.3 bases having ANSI lamp designations DDM, EJJ, ELB, and ELC are included in this standard.

Single copy price: \$100.00

Order from and send comments to: Michael Erbesfeld, Michael.Erbesfeld@nema.org

Due 10 April 2018

BSR/ASME Y14.3-2012 (R20xx), Orthographic and Pictorial Views (reaffirmation of ANSI/ASME Y14.3-2012)

This standard establishes the requirements for creating orthographic, and pictorial views on engineering drawing graphic sheets and in models. Specific requirements that are applicable only to constructed or to saved views are defined. Topics include the multiview system of drawing, selection, and arrangement of orthographic views, auxiliary views, section views, details, pictorial views, conventional representation of features with some practices applicable only to constructed views, saved views on drawing graphic sheets, and in models. Space geometry and analysis, and applications are included in appendices.

Single copy price: \$55.00

Obtain an electronic copy from: <http://cstools.asme.org/publicreview>

Send comments to: Fredric Constantino, constantinof@asme.org

INCITS/ISO/IEC 17826:2016 [201x], Information technology - Cloud Data Management Interface (CDMI)

(identical national adoption of INCITS/ISO/IEC 17826:2012[2014] and revision of INCITS/ISO/IEC 17826:2014) Specifies the interface to access cloud storage and to manage the data stored therein. It is applicable to developers who are implementing or using cloud storage.

Single copy price: \$232.00

Obtain an electronic copy from: <http://webstore.ansi.org/>

Send comments to: comments@standards.incits.org

BSI Public Review Announcement: a draft EN standard for stage machinery

BSI Standards has announced a draft document for public review that might be of interest to *Standards Watch* readers. BSI documents may be commented on at <https://standardsdevelopment.bsigroup.com/>.

Due 6 March 2018

BS EN 17206 Entertainment Technology - Lifting and Load-bearing Equipment for Stages and other Production Areas within the Entertainment Industry - Specifications for general requirements (excluding aluminum and steel trusses and towers)

This document applies to machinery, machinery installations and machinery control systems used in places of assembly and in staging and production facilities for events and theatrical productions (stage machinery, for short). Such facilities include: theatres, multi-purpose halls, exhibition halls; film, television and radio studios; concert halls, schools, bars, discotheques, open-air stages and other rooms for shows and events. The document applies to machinery installations with guided or unguided load bearing and load carrying equipment. This document covers machinery used in the entertainment industry including machinery that is excluded from the Machinery Directive (2006/42/EC) specifically Article 1 2j which excludes “machinery intended to move performers during artistic performances”. For the purposes of this document, machinery installations are all technical installations and equipment used for operations in stage and production facilities in the entertainment industry. Such installations are used to lift, lower, suspend and carry loads (e.g. scenery, traverse systems, or lighting, film/video and sound equipment). They can also be used to move persons, and persons can stand under such equipment while the loads are at rest or in motion. This machinery includes Controls, electrical and electronic control systems, electrical and electronic equipment, hydraulic and pneumatic power supplies. “Stages” are, for example, staging facilities and production areas in theatres, multipurpose halls, studios, production facilities for film, television or radio, concert halls, congress centres, schools, exhibition centres, trade-fair centres, museums, discotheques, amusement parks, sports facilities and open-air-theatres. “Events” are, for example, concerts, shows, congresses, exhibitions, presentations, demonstrations, film or television recordings, etc. This document considers permanently and temporarily installed lifting and movement equipment for stages and production areas within the entertainment industry. This document does not consider the design or control of fire curtains. Typical applications include but are not limited to the following: acoustic doors; auditorium elevators; compensating elevators; cycloramas; fly bar systems (manual and motor driven); lighting bars; movable lighting towers; movable stage platforms (stage wagons); movable proscenium arches; orchestra elevators; performer flying; point hoists; revolving stages and turntables; scenery storage elevators; side stage and rear stage shutters; stage elevators; stage wagons (stage trucks); tiltable stage floors; and trap elevators. The principles in this document also apply to machinery installations based on new technologies or specially designed installations which are not expressly mentioned here but which nevertheless operate in a similar manner or are meant for similar purposes to the equipment listed above.

New ANS Projects

ANSI has announced the following new projects that might materially affect *Standards Watch* readers—or at least be interesting to them. Contact the developer if you (a) want to be involved in the project, or (b) object to the project and wish it to be abandoned, or (c) if you would like to point out that its scope is covered by an existing standard, thereby possibly making the project redundant or conflicting.

BSR/ASB Std 027-201x, Crime Scene/Death Investigation Dogs and Sensors - Patrol Dogs: Tracking/Trailing/Area Search/Building Search/Evidence Search of One or More Persons Based on Last Known Position (new standard)

To provide standards for the training, certification, and documentation pertaining to canine teams (canine and handler) trained to search for specific persons, locations, and/or articles by starting from the last known position. This pertains to trails less than 48 hours old.

Contact: Teresa Ambrosius, tambrosius@aafs.org

BSR/NSF 487-201x, Electronic Products Sustainability Standard - Common Criteria (new standard)

This is a sustainability leadership standard for the IT sector. This standard addresses common criteria across the IT sector and addresses sustainability attributes and performance areas such as end-of-life management; life cycle assessments and carbon footprinting; manufacturing chemicals and energy management; use of renewable

Final Actions on American National Standards

The documents listed below have been approved by the ANSI Board of Standards Review or by an ANSI-Audited Designator on the date noted.

ANSI/APA PRG 320-2018, Standard for Performance-Rated CrossLaminated Timber (revision of ANSI/APA PRG 320-2017): 6 February 2018

ANSI/NEBB S110-2018, Whole Building Technical Commissioning of New Construction Standard (new standard): 26 January 2018

ANSI/NFPA 33-2018, Standard for Spray Application Using Flammable or Combustible Materials (revision of ANSI/NFPA 33 -2015): 30 November 2017

ANSI/NFPA 34-2018, Standard for Dipping, Coating, and Printing Processes Using Flammable or Combustible Liquids (revision of ANSI/NFPA 34-2014): 30 November 2017

ANSI/NFPA 51-2017, Standard for the Design and Installation of Oxygen-Fuel Gas Systems for Welding, Cutting, and Allied Processes (revision of ANSI/NFPA 51-2018): 11 August 2016 [*sic*]

ANSI/NFPA 68-2018, Standard on Explosion Protection by Deflagration Venting (revision of ANSI/NFPA 68-2012): 30 November 2017

ANSI/NFPA 79-2018, Electrical Standard for Industrial Machinery (revision of ANSI/NFPA 79-2012): 30 November 2017

ANSI/NFPA 92-2018, Standard for Smoke Control Systems (revision of ANSI/NFPA 92-2014): 30 November 2017

ANSI/NFPA 111-2018, Standard on Stored Electrical Energy Emergency and Standby Power Systems (revision of ANSI/NFPA 111-2015): 13 January 2018

ANSI/NFPA 140-2018, Standard on Motion Picture and Television Production Studio Soundstages, Approved Production Facilities, and Production Locations (revision of ANSI/NFPA 140-2012): 23 April 2017

ANSI/NFPA 170-2018, Standard for Fire Safety and Emergency Symbols (revision of ANSI/NFPA 170-2014): 23 April 2017

ANSI/NFPA 204-2018, Standard for Smoke and Heat Venting (revision of ANSI/NFPA 204-2014): 30 November 2017

ANSI/NFPA 259-2018, Standard Test Method for Potential Heat of Building Materials (revision of ANSI/NFPA 259-2012): 30 November 2017

ANSI/NFPA 705-2018, Recommended Practice for a Field Flame Test for Textiles and Films (revision of ANSI/NFPA 705-2012): 30 November 2017

ANSI/NFPA 1122-2017, Code for Model Rocketry (revision of ANSI/NFPA 1122-2012): 30 October 2016 [*sic*]

ANSI/NFPA 1127-2017, Code for High Power Rocketry (revision of ANSI/NFPA 1127-2013): 30 October 2016 [*sic*]

ANSI/UL 2201-2018, Standard for Tests for Determining CO Emission Rate of Portable Generators (new standard): 24 January 2018

Draft IEC & ISO Standards

This section lists proposed standards that the International Electromechanical Commission (IEC) or the International Organization for Standardization (ISO) are considering for approval. *Standards Watch* readers interested in reviewing and commenting on the document should order a copy from their national representative and submit their comments through them. Comments from US citizens on IEC and ISO documents should be sent to Charles T. Zegers at czegers@ansi.org and Karen Hughes at isot@ansi.org respectively. Any prices, if shown, are for purchases through ANSI. The sort order is by due date then alphanumeric.

ISO/DIS 1835, Short link chain for lifting purposes - Grade M(4), noncalibrated, for chain slings, etc., 5 November 2013 [sic], \$67.00

ISO/IEC 10646/DAmD1, Information technology - Universal Coded Character Set (UCS) - Amendment 1, 19 February 2018, \$185.00

ISO/IEC DIS 19086-4, Information technology - Cloud computing - Service level agreement (SLA) framework - Part 4: Security and privacy, 19 February 2018, \$77.00

ISO/IEC DIS 20546, Information technology - Big data - Overview and vocabulary, 19 February 2018, \$58.00

110/951/FDIS, IEC 62715-6-1 ED2: Flexible display devices - Part 6-1: Mechanical test methods - Deformation tests, 16 March 2018

110/953/NP, PNW 110-953: Future IEC 62977-3-5: Electronic displays - Part 3-5: Evaluation of optical performances - Colour capabilities, 30 March 2018

ISO/DIS 9241-500, Ergonomics of human-system interaction – Part 500: Ergonomic principles for the design and evaluation of environments of interactive systems, 13 April 2018, \$46.00

ISO 7010/DAmD239, Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 2: Safety sign E026: Emergency exit for people unable to walk or with walking impairment (left), 20 April 2018, \$29.00

100/3050/NP, PNW 100-3050: Measuring methods of blue-light characteristics and related optical performances for visual display terminal, 27 April 2018

Recently Published IEC & ISO Documents

Listed here are documents recently approved by the IEC and ISO. A list of standards resellers is available at <http://webstore.ansi.org/faq.aspx#resellers>.

IEC 61000-3-2 Ed. 5.0 b:2018, Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤16 A per phase), \$235.00

S+ IEC 61000-3-2 Ed. 5.0 en:2018 (Redline version), Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤16 A per phase), \$305.00

ISO 11666:2018, Non-destructive testing of welds - Ultrasonic testing - Acceptance levels, \$103.00

ISO 17551:2018, Leather - Pickled sheep pelts - Guidelines for grading on the basis of defect and size, \$45.00

ISO/IEC TR 14369:2018, Information technology – Programming languages, their environments and system software interfaces - Guidelines for the preparation of language-independent service specifications (LISS), \$209.00

TSP Meeting Schedule

The following meetings are scheduled be at the Hilton Ft. Lauderdale Marina, except for the Floors Working Group, which will meet at the ESTA booth on the floor of the USITT Stage Expo at the Broward County Convention Center.

Technical Standards Council	13:00 – 17:00	Wednesday 14 March 2018
Control Protocols Working Group	09:00 – 13:00	Thursday 15 March 2018
Rigging Working Group	19:00 – 23:00	Thursday 15 March 2018
Rigging E1.6-1 Power Hoists	16:00 – 17:30	Thursday 15 March 2018
Stage Lifts Working Group	14:00 – 16:00	Thursday 15 March 2018
Electrical Power Working Group	14:00 – 18:00	Friday 16 March 2018
Event Safety Fire Safety Task Group	14:00 – 18:00	Friday 16 March 2018
Floors Working Group	09:00 – 13:00	Friday 16 March 2018
Followspot Position Working Group	09:00 – 09:30 ESTA Booth 2601	Saturday 17 March 2018
Event Safety Working Group	11:00 – 15:00	Saturday 17 March 2018

The most up-to-date schedule always can be found at <http://tsp.esta.org/tsp/meetings/index.php>. The next set of meetings, those scheduled for the DFW Marriott Solana, July 19 through 24, are posted there. The Texas meeting schedule includes 59 hours of Plugfest.

ESTA Standards Watch

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