



ESTA Standards Watch

Late July 2017 Volume 21, Number 14

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ESTA Standards in Public Review

BSR E1.6-2, Design, Inspection, and Maintenance of Electric Chain Hoists for the Entertainment Industry, and BSR E1.14, Entertainment Technology - Recommendations for Inclusions in Fog Equipment Manuals, are available through September 25 at http://tsp.esta.org/tsp/documents/public_review_docs.php.

BSR E1.6-2 covers the design, inspection, and maintenance of serially manufactured electric link chain hoists having capacity of 2 tons or less and used in the entertainment industry. This standard does not cover attachment to the load or to the overhead structure. Controls used for multiple hoist operation are excluded from the scope of this standard.

BSR E1.14 applies to the instruction manuals for fog-making equipment manufactured for use in the entertainment industry. Fog users must have some general knowledge of the technology, have a clear understanding of how to operate the fog system, and be aware of the potential hazards related to the use of fog and fog systems. This standard establishes guidelines for manufacturers to provide to the user the necessary information required for the safe and responsible use of fog equipment.

Please fill in the public review response forms with an application designed for the purpose (not your browser), save the form with the field data, and send the form to standards@esta.org. If you are unsure if you have saved the form with the data, check. You may also send the text of your response as a word processing document for backup.

Rigging Working Group Opens Three Standards for Revision

At their 22 July 2017 meeting, ESTA's Rigging Working Group voted to open three projects for revision. For each of the newly opened projects, the reasons for revision are to make improvements to the standards before republishing them. A description of each project is below.

Materially affected people interested in contributing to the revision of these standards are invited to join ESTA's Technical Standards Program. Those who would be in the *Designer*, *Dealer/Rental company*, or *User* interest categories are particularly encouraged to apply. For descriptions of the interest categories and details on how to apply, see the working group application found at http://tsp.esta.org/tsp/documents/procedural_docs.html.

BSR E1.1 – 201x, Entertainment Technology—Construction and Use of Wire Rope Ladders

E1.1 describes the construction and use of wire rope ladders in the entertainment industry in order to promote worker safety. The entertainment industry includes, but is not strictly limited to, musical productions, live concerts, live theater, film production, video production, corporate events, and trade shows. Wire rope ladders are used where ladders with rigid rails are impractical to use or would pose a greater danger. The standard is being opened for revision to update and incorporate referenced standards, including a newly published Z359 Personal Fall Arrest Systems standard. Those who may be materially affected by the publication of this standard include entertainment industry stagehands, electricians, riggers, their employers, and manufacturers of wire rope ladders.

BSR E1.2 – 201x, Entertainment Technology—Design, Manufacture and Use of Aluminum Trusses and Towers

E1.2 describes the design, manufacture, and use of aluminum trusses, towers, and associated aluminum structural components, such as head blocks, sleeve blocks, and bases, in the live entertainment industry. It also offers advice on applying and removing coatings and painted finishes. The standard is being opened to make necessary changes based on current information. Those who may be materially affected by the publication of this standard include manufacturers, dealers, assemblers, and users of portable aluminum structures in the entertainment industry.

BSR E1.8 – 201x, Entertainment Technology—Loudspeaker Enclosures Intended for Overhead Suspension—Classification, Manufacture and Structural Testing

E1.8 addresses the requirements for speaker enclosures intended for overhead suspension. It addresses only the structural characteristics relating to the suspension of the enclosure. These include enclosure construction, component part security, enclosure suspension hardware, manufacturing control systems, and structural testing. The standard is being opened to clarify the requirements of the standard and to revisit them in light of current manufacturing technology. Those who may be materially affected by the publication of this standard include speaker manufacturers, rigging equipment manufacturers, sound equipment suppliers, stage rigging technicians, performers, and audience members.

FCC Seeks Reliable Call Authentication System, Seeks Comments

In its latest step to combat annoying and malicious robocalls, the Federal Communications Commission is seeking public comment on standards that will help differentiate legitimate phone calls from those that attempt to

trick consumers through caller ID spoofing. Comments are due by 14 August 2017. The project has an impact on *Standards Watch* readers because they receive spoofed calls and because standards to control this may affect readers' own use of VOIP for placing phone calls.

The press release announcing the Notice of Inquiry is available at https://apps.fcc.gov/edocs_public/attachmatch/DOC-345772A1.pdf. The official Notice of Inquiry is available at https://apps.fcc.gov/edocs_public/attachmatch/FCC-17-89A1.docx. Instructions for how to comment are available in the Notice of Inquiry. Statements supporting the action issued by Chairman Pai, Commissioner Clyburn, and Commissioner O'Rielly are available at https://apps.fcc.gov/edocs_public/attachmatch/DOC-345772A2.pdf; https://apps.fcc.gov/edocs_public/attachmatch/DOC-345772A3.pdf; and https://apps.fcc.gov/edocs_public/attachmatch/DOC-345772A4.pdf.

A recent report from an industry-led robocall initiative included a request for the Commission to work with the private sector to accelerate adoption of network-wide standards to verify and authenticate caller ID for calls carried over Internet Protocol (IP) networks. Adoption of universal standards could result in much-improved reliability of caller ID, allowing consumers to again trust the caller ID information they see when receiving calls. The industry-led robocall group's April report to the FCC is available at <https://go.usa.gov/x5NKZ>.

FCC Revises and Clarifies Wireless Microphone Rules and Proposes Expansion of License Eligibility

On 13 July the Federal Communications Commission issued an Order on Reconsideration and Further Notice of Proposed Rulemaking to revise and to clarify its rules to promote more effective spectrum access for wireless microphone operations in the TV bands, the repurposed 600 MHz band, and other frequency bands. The Commission also proposed to address the wireless microphone needs of small professional theater, music, performing arts, and similar organizations. The Order on Reconsideration, the Commission addresses petitions for reconsideration of two 2015 Commission orders, provides revisions and clarifications to certain technical and operational rules (e.g., spurious emissions rules, measurement of emission limits, coordination rules, access to spectrum in certain bands) that promote spectrum access. The Further Notice of Proposed Rulemaking proposes permitting professional theater, music, performing arts, and similar organizations, to obtain licensed access to operate wireless microphones at smaller venues, provided certain requirements (e.g., demonstrated need and requisite professional abilities) are met. The text of the Order on Reconsideration and Further Notice of Proposed Rulemaking is available at https://apps.fcc.gov/edocs_public/attachmatch/FCC-17-95A1.docx.

The press release about the Order on Reconsideration and Further Notice of Proposed Rulemaking is available at http://transition.fcc.gov/Daily_Releases/Daily_Business/2017/db0713/DOC-345779A1.pdf. Statements on the action by Chairman Pai, Commissioner Clyburn, and Commissioner O'Rielly are available at https://apps.fcc.gov/edocs_public/attachmatch/DOC-345779A2.pdf; https://apps.fcc.gov/edocs_public/attachmatch/DOC-345779A3.pdf; and https://apps.fcc.gov/edocs_public/attachmatch/DOC-345779A4.pdf.

Sennheiser issued a press release saying this is a good thing. See "Sennheiser Applauds FCC Ruling" at <https://en-us.sennheiser.com/news-sennheiser-applauds-fcc-ruling>.

INNOVA Call for Content

INNOVA, the new on-line on demand learning platform sponsored by ESTA and USITT, is seeking trainers to provide content. The site is designed to offer educational opportunities at all levels and in all entertainment technology disciplines. We are particularly interested in more advanced content for ETCP Certified riggers and electricians who need continuing education credits to recertify and are having a hard time finding courses that can add to their knowledge base.

All INNOVA trainers receive a royalty of 20% of each download fee. The remainder of the fee goes to support the work of the two non-profits, including ESTA's Technical Standards Program. Courses can be any length, although 30 or 60 minute increments are preferred. They can be submitted as Voice over PowerPoint, videos, or

another format you are comfortable with, as long as the final file is an MP4 file. INNOVA provides a simple PowerPoint slide template all trainers are requested to use.

In order to ensure that viewers are receiving quality education, all courses submitted to INNOVA are peer reviewed prior to final acceptance, and comments are passed on to the trainer if adjustments are needed.

If you would like the INNOVA Instructor Licensing Agreement, PowerPoint template and other information sent to you, or would like to speak to someone regarding the program, please email innova@esta.org.

***Protocol* in Pursuit of Pictures**

Have you designed a show or event that used ANSI E1.31, sACN? Would you like your work publicized? If so, ESTA's journal *Protocol* is exploring the possibility of doing a picture spread of ESTA standards at work, starting with sACN. If we receive enough interesting pictures, *Protocol* will create a page or spread illustrating the standards at work, and showing off your work.

If you are interested, send your photo to Beverly Inglesby, the editor of *Protocol*, at beverly.inglesby@esta.org. Include information for the caption: the job or show, the key players, and any photo credits required. You can then use the page or spread for your own promotion: e.g., Twitter, Facebook, or other social media.

We're starting this project with sACN (ANSI E1.31), but may expand it to cover other standards if this try-out is successful. ESTA standards are found in use in many ways to make spectacular, exciting, and safe shows and events.

UL Announces Development of UL 5500, Remote Software Updates

UL is in the process of creating a new standard and new Standards Technical Panel for Remote Software Updates, UL 5500. The ability of devices to connect to a public network affords many opportunities to increase the value of a product to the user over its usable lifetime. However, this also introduces risks that need to be mitigated to ensure the value of being connected is not compromised. This draft standard will provide requirements that address the device connecting to a public network, the interaction of that device with entities available through a public network, and the authorized downloading of software onto the device through the public network. The emphasis of the requirements will be on safety consequences that could impair compliance with the relevant end-product safety standard; the requirements do not address confidentiality of data or consumer privacy.

This standard will be a horizontal standard, one that complements the end product standards, and is intended to be broadly applicable. The expectation is that the end product STPs will monitor the progress of STP 5500 and prepare for implementing its requirements where the end application enables remote software updates.

The proposed scope for the standard reads:

- 1.1 This standard covers the remote updating of software via the manufacturer's recommended process or steps. It is limited to software elements having an influence on the safety of the product and on compliance with the particular end product safety standard.
- 1.2 This standard covers hardware configuration necessary for safety of the software update.
- 1.3 This standard does not cover:
 - (a) Functional security such as premises, physical, and other similar security purposes;
 - (b) Safety related availability or performance of remote communications;
 - (c) Field updates done with physical access by qualified personnel;
 - (d) Software development lifecycle and maturity;
 - (e) Cryptographic techniques for the purposes of confidentiality of user data and consumer privacy ;
 - (f) Insider threat (corporate espionage); and
 - (g) Remote control operation of the product.

For e-mail updates, join UL's "What's New" email newsletter at <http://www.shopulstandards.com/WhatsNew.aspx>

Ofcom Allows Wi-Fi Use in the 5.8 GHz Band

The UK's Ofcom has decided to make regulations that will allow Wi-Fi use in the 5.8 GHz band. Wi-Fi currently uses spectrum in the 2.4 GHz and 5 GHz bands. This decision will allow access to an additional 125 MHz of spectrum in the 5.8 GHz band. The "Decision to make Wireless Telegraphy Exemption Regulations 2017" document confirms the technical conditions which manufacturers of equipment, such as smartphones, tablets, and laptops, would have to comply with in order to benefit from licence-exempt use of this spectrum. The "Decision" document is available at https://www.ofcom.org.uk/_data/assets/pdf_file/0016/104362/decision-wireless-telegraphy-exemption-regulations.pdf.

WTO Technical Barrier to Trade Notification

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 these notices, 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.

United States of America Notification USA/1289/USA (USA/1289)

Date issued: 7 July 2017

Corrigendum type: Addendum

Correction type: Correction with full text

Corrigendum: TITLE: Safety Standard Addressing Blade-Contact Injuries on Table Saws; Notice of Opportunity for Oral Presentation of Comments

AGENCY: Consumer Product Safety Commission

ACTION: Notice of opportunity for oral presentation of comments

SUMMARY: The Consumer Product Safety Commission (CPSC, Commission) announces that there will be an opportunity for interested persons to present oral comments on the notice of proposed rulemaking (NPR) the Commission issued to address blade-contact injuries on table saws. The NPR proposed a standard that requires table saws limit the depth of cut to 3.5 millimeters when a test probe, acting as surrogate for a human body/finger, contacts the spinning blade at a radial approach rate of 1 meter per second (m/s). Any oral comments will be part of the rulemaking record.

DATES: The meeting will begin at 10 a.m., 9 August 2017, in the Hearing Room, 4th Floor of the Bethesda Towers Building, 4330 East West Highway, Bethesda, MD 20814. Requests to make oral presentations and the written text of any oral presentations must be received by the Office of the Secretary not later than 5 p.m. Eastern Standard Time (EST) on 2 August 2017.

URL for full text: https://members.wto.org/cnattachments/2017/TBT/USA/17_3087_00_e.pdf

United States of America Notification USA/550/USA (USA/550 , Add.1 , Add.2 ,)

Date issued: 14 July 2017

Corrigendum type: Addendum

Correction type: Correction with full text

Corrigendum: TITLE: Walking-Working Surfaces and Personal Protective Equipment (Fall Protection Systems) for General Industry; Approval of Collections of Information

AGENCY: Occupational Safety and Health Administration (OSHA), Department of Labor

ACTION: Final rule

SUMMARY: This technical amendment revises an OSHA regulation to reflect the Office of Management and Budget's (OMB) approval of the collections of information contained in the general industry Walking-Working Surfaces and Personal Protective Equipment (Fall Protection Systems) standards.

Effective 6 July 2017.

URL for full text: https://members.wto.org/cnattachments/2017/TBT/USA/17_3191_00_e.pdf

China Notification CHN/1211

Date issued: 18 July 2017

Agency responsible: State Environmental Protection Administration (SEPA)

National inquiry point: General Administration of Quality Supervision and Inspection and Quarantine of the People's Republic of China (AQSIQ)

Products covered: Plastic waste from living sources (HS 3915100000; 3915200000; 3915300000; 3915901000; 3915909000; Vanadium slag: 2619000021; 2619000029; 2620999011; 2620999019; Unsorted waste paper: 4707900090; Waste textile materials: 5103109090; 5103209090; 5103300090; 5104009090; 5202100000; 5202910000; 5202990000; 5505100000; 5505200000; 6310100010; 6310900010) Slag, dross (other than granulated slag), scalings and other waste from the manufacture of iron or steel. (HS 2619), Ash and residues (other than from the manufacture of iron or steel), containing arsenic, metals or their compounds. (HS 2620), Waste, parings and scrap, of plastics. (HS 3915), Waste of wool or of fine or coarse animal hair, including yarn waste but excluding garnetted stock. (HS 5103), Garnetted stock of wool or of fine or coarse animal hair. (HS 5104), Cotton waste (including yarn waste and garnetted stock). (HS 5202), Waste (including noils, yarn waste and garnetted stock) of man-made fibres. (HS 5505), Used or new rags, scrap twine, cordage, rope and cables and worn out articles of twine, cordage, rope or cables, of textile materials. (HS 6310), - Other, including unsorted waste and scrap (HS 470790).

Title: Catalogue of Solid Wastes Forbidden to Import into China by the End of 2017 (4 classes, 24 kinds) (2 page(s), in Chinese)

Description of content: By the end of 2017, China will forbid the import of 4 classes, 24 kinds of solid wastes, including plastics waste from living sources, vanadium slag, unsorted waste paper and waste textile materials.

Objective and rationale: The reasons for urgent measure: According to the Special Actions of Strengthening the Supervision and Strictly Striking of Illegal "Foreign Garbage" by the General Administration of Customs of China, Ministry of Environmental Protection of China, Ministry of Public Security of China and General Administration of Quality Supervision, Inspection and Quarantine of China, as well as the Special Actions of Striking of the Illegal Actions of Imported Solid Waste Processing and Utilizing Sectors by Ministry of Environmental Protection of China, we found that large amounts of dirty wastes or even hazardous wastes are mixed in the solid waste that can be used as raw materials. This polluted China's environment seriously. To protect China's environmental interests and people's health, we urgently adjust the imported solid wastes list, and forbid the import of solid wastes that are highly polluted. Protection of human health or safety; Protection of animal or plant life or health; Protection of the environment.

Proposed date of adoption: Not given by country

Proposed date of entry into force: 1 September 2017

Final date for comments: 20 July 2017

Full text:

[https://tsapps.nist.gov/notifyus/docs/wto_country/CHN/full_text/pdf/CHN1211\(simplified_chinese\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CHN/full_text/pdf/CHN1211(simplified_chinese).pdf)

United States of America Notification USA/1297

Date issued: 28 June 2017

Agency responsible: Environmental Protection Agency (EPA)

National inquiry point: USA WTO TBT Enquiry Point

Products covered: New motor vehicle emissions

Title: Air Plan Approval; ME; New Motor Vehicle Emission Standards (4 page(s), in English)

Description of content: The Environmental Protection Agency (EPA) is proposing to approve a State Implementation Plan (SIP) revision submitted by the State of Maine on 18 August 2015. This SIP revision includes Maine's revised regulation for new motor vehicle emission standards. Maine has updated its rule to be consistent with various updates made to California's low emission vehicle (LEV) program. Maine has adopted these revisions to reduce emissions of volatile organic compounds (VOC) and nitrogen oxides (NOX) in accordance with the requirements of the Clean Air Act (CAA), as well as to reduce greenhouse gases. The intended effect of this action is to propose approval of Maine's 18 August 2015 SIP revision. This action is being taken under the Clean Air Act.

Objective and rationale: Protection of the environment

Relevant documents: . 82 Federal Register (FR) 28611, 23 June 2017; Title 40 Code of Federal Regulations (CFR) Part 52. Will appear in the Federal Register when adopted.

. G/TBT/N/USA/759 - (Maine) New Motor Vehicle Emission Standards

. G/TBT/N/USA/833 - (Maine) New Motor Vehicle Emission Standards

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 24 July 2017

Full text URL: https://members.wto.org/crnattachments/2017/TBT/USA/17_2953_00_e.pdf

United States of America Notification USA/1301 (Add.1)

Date issued: 17 July 2017

Agency responsible: Environmental Protection Agency (EPA)

National inquiry point: USA WTO TBT Enquiry Point

Products covered: Wood products emissions

Title: Labeling Relief; Formaldehyde Emission Standards for Composite Wood Products (1 page, in English)

Description of content: EPA is proposing to amend a final rule that published in the Federal Register on 12 December 2016 concerning formaldehyde emission standards for composite wood products. The proposed amendment would allow compliant composite wood products and finished goods that contain compliant composite wood products that were manufactured prior to 12 December 2017 to be labeled as Toxic Substances Control Act (TSCA) Title VI compliant. This means that regulated composite wood products and finished goods that meet the required formaldehyde emissions standards could be voluntarily labeled as compliant as soon as compliance can be achieved. This would enhance regulatory flexibility and facilitate a smoother supply chain transition to compliance with the rule's broader requirements, as well as promote lower formaldehyde emitting products entering commerce earlier than under the rule as originally published. EPA believes that the proposed amendment is non-controversial and does not expect to receive any adverse comments. Therefore, in addition to this Notice of Proposed Rulemaking, elsewhere in this issue of the Federal Register, EPA is promulgating the amendment as a direct final rule.

Objective and rationale: Consumer information, labeling; Prevention of deceptive practices and consumer protection; Protection of the environment

Relevant documents: 82 Federal Register (FR) 31932, 11 July 2017; Title 40 Code of Federal Regulations (CFR) Part 770. Labeling Relief; Formaldehyde Emission Standards for Composite Wood Products, Direct Final Rule published 11 July 2017 will be issued as Add.1:

<https://www.gpo.gov/fdsys/pkg/FR-2017-07-11/html/2017-14513.htm>

<https://www.gpo.gov/fdsys/pkg/FR-2017-07-11/pdf/2017-14513.pdf>

G/TBT/N/USA/827 - Formaldehyde Emissions Standards for Composite Wood Products and all subsequent addenda and revisions.

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 26 July 2017

Full text URL: https://members.wto.org/crnattachments/2017/TBT/USA/17_3205_00_e.pdf

Taiwan Economy Notification TPKM/281

Date issued: 17 July 2017

Agency responsible: Environmental Protection Administration

National inquiry point: Bureau of Standards, Metrology and Inspection, Ministry of Economic Affairs (BSMI)

Products covered: Toxic chemical substances

Title: General Explanation of Draft Version of Paragraph 15 and Paragraph 1 Table 1 and Paragraph 4 Table 4 of the Guidelines on Regulated Toxic Chemical Substances and the Management of Their Handling (3 page(s), in English; 3 page(s), in Chinese)

Description of content: The Toxic Chemical Substances Control Act was revised and promulgated on 11 December 2013. In accordance with Article 7 of this Act, the central competent authority shall officially announce toxic chemical substances as Class 1, Class 2, Class 3 or Class 4 toxic chemical substances when the toxicological characteristics of chemical substances conform to the toxic chemical substance classification definitions prescribed in Article 3 of this Act. Furthermore, according to Article 11, Paragraph 1 of the Toxic Chemical Substances Control Act, unless other regulations apply, the handling of toxic chemical substances shall be conducted in compliance with methods announced or approved by the central competent authority, which may also authorize the announcement of toxic chemical substance control concentration standards and large-scale handling standards in accordance with management needs. In view of the recent occurrence of food safety incidences and the introduction of illegal chemical substances into the food supply that affect people's health, this announcement has added regulations for strengthened controls for the eight major handling activities of manufacturing, importing, exporting, selling, transporting, using, storing, and disposing and for strengthening the package labeling for 13 types of toxic chemical substances, including malachite green, that present food safety risks, for which there is concern of endangerment to human health, and that are Class 4 toxic chemical substances as announced pursuant to the Toxic Chemical Substances

Control Act. Furthermore, the Chinese substance name for chromium carbonyl has been changed and the control standard has been amended to chromium concentration 1% or more.

Objective and rationale: To strengthen management of chemical substances and avoid illegal chemical substances into the food supply; Consumer information, labeling; Protection of human health or safety; Protection of the environment.

Relevant documents: Article 7 and Article 11, Paragraph 1 of the Toxic Chemical Substances Control Act

Proposed date of adoption: 1 August 2017

Proposed date of entry into force: 1 January 2018

Final date for comments: 14 August 2017

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/TPKM/full_text/pdf/TPKM281\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/TPKM/full_text/pdf/TPKM281(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.

Due 28 August 2017

BSR/EIA 60050-192 Ed.1.0-201x, International electrotechnical vocabulary - Part 192: Dependability

(identical national adoption of IEC 60050-192: 2015 Ed.1.0)

The IEV (IEC 60050 series) is a general purpose multilingual vocabulary covering the field of electrotechnology, electronics, and telecommunication (available at www.electropedia.org). It comprises about 20,000 terminological entries, each corresponding to a concept. These entries are distributed among about 80 parts, each part corresponding to a given field.

Single copy price: \$378.00

Obtain an electronic copy from: Global Engineering Documents, <https://global.ihs.com/>

Send comments to: Ed Mikoski, emikoski@ecianow.org

BSR/EIA 61703 Ed.2.0-201x, Mathematical expressions for reliability, availability, maintainability and maintenance support terms (identical national adoption of IEC 61703:2016)

This International Standard provides mathematical expressions for selected reliability, availability, maintainability and maintenance support measures defined in IEC 60050-192:2015. In addition, it introduces some terms not covered in IEC 60050-192:2015. They are related to aspects of the system of item classes (see the text of the standard). According to IEC 60050 -192:2015, dependability [192-01-22] is the ability of an item to perform as and when required, and an item [192-01-01] can be an individual part, component, device, functional unit, equipment, subsystem, or system.

Single copy price: \$375.00

Order from: Global Engineering Documents, <https://www.global.ihs.com>

Send comments to: Ed Mikoski, emikoski@ecianow.org

BSR/IES RP-1-2013 Addendum A-201x, Recommended Practice for Office Lighting (addenda to ANSI/IES RP-1-2013)

Revision to Sections 3.5.1.2 Color Rendering Index, 4.2.1.1.3 TM-30-15, 4.2.1.2.1 Flicker, 4.2.1.2.2 Dim level, Table 2, Section 4.2.2.2 Linear Fluorescent.

Single copy price: \$25.00

Order from and send comments to: Patricia McGillicuddy, pmcgillicuddy@ies.org

BSR/IES RP-38-201x, A Lighting Standard for Videoconferencing (new standard)

This standard provides lighting parameters and performance criteria for small- to medium-sized single-axis videoconferencing spaces (with 3 to 25 primary seating locations), defined as one set of video displays and cameras oriented toward a group of seated participants. The Standard provides guidance to professionals involved in the design, construction, assessment, and support of videoconferencing environments by establishing performance criteria for the design and testing of room lighting and finishes that will provide appropriate picture quality.

Single copy price: \$25.00

Order from and send comments to: Patricia McGillicuddy, pmcgillicuddy@ies.org

BSR/IES TM-23-201x, Lighting Control Protocols (new standard)

The purpose of this Technical Memorandum is to address the need for increased knowledge of, and unbiased information about, the capabilities and shortcomings of control and interoperability technologies - primarily open protocols - available for use in lighting systems. More knowledge within the lighting community will encourage coordination between the various disciplines that create smarter, more comfortable, and more energy efficient buildings.

Single copy price: \$25.00

Order from and send comments to: Patricia McGillicuddy, pmcgillicuddy@ies.org

BSR/NECA 781-201X, Recommended Practice for Installing and Maintaining Lightning Protection Systems (new standard)

This standard covers quality and performance criteria and best practices for lightning protection system design and installation for both new construction and existing structures. The basic components of lightning protection systems are covered as well as basic information related to lightning protection system design and system maintenance.

Single copy price: \$40.00

Order from and send comments to: neis@necanet.org

BSR/TIA 568.2-D-201x, Balanced Twisted-Pair Telecommunications Cabling and Components Standard (revision and redesignation of ANSI/TIA 568-C.2 -2009)

This standard will supersede ANSI/TIA 568-C.2 and its addenda C.2-1 and C.2-2. It is intended to incorporate and revise as necessary the content of those standards.

Single copy price: \$377.00

Order from and send comments to: TIA; standards@tiaonline.org

BSR/UL 588-201X, Standard for Safety for Seasonal and Holiday Decorative Products (revision of ANSI/UL 588-2015a)

This covers: (a) Overcurrent protection for products without a load fitting; (b) Revision to requirements for flexible cord with a decorative covering; and (c) String lights for all-year use.

Single copy price: Contact comm2000 for pricing and delivery options

Obtain an electronic copy from: comm2000, <http://www.comm-2000.com>

Send comments to: Megan Sepper, Megan.M.Sepper@ul.com

Due 4 September 2017**BSR/AWS D16.6M/D16.6-201x, Specification for Robot Arc Welding Training and Testing Cell** (new standard)

This document specifies the recommended design, integration, installation, and use of robotic arc welding systems used to train and certify operators and technicians under the AWS Certified Robotic Arc Welding (CRAW) program. Robotic and automatic arc welding systems consist of an arc welding power source, arc welding torches and accessories, robot/manipulator, shielding gas-delivery system, welding electrode feeding equipment, welding circuit, communication control wiring, and system grounding. An example of a typical Robotic Arc Welding Cell is shown in Figure 1 of the standard. This document assumes that the robot training and testing will utilize GMAW or FCAW processes.

Single copy price: \$48.00

Order from and send comments to: Peter Portela, pportela@aws.org

BSR/AWS F3.2M/F3.2-2001, Ventilation Guide for Weld Fume (new standard)

This document introduces the reader to various types of ventilation systems, including general supply and exhaust and local exhaust, for control of weld fumes. It contains or refers to information on air contaminants found in welding fumes, principles of system design and selection, and drawings that illustrate ventilation techniques.

Single copy price: \$34.00

Order from: Stephen Hedrick, steveh@aws.org

Send comments to: aalonso@aws.org

Due 12 September 2017

BSR/ASME A17.6-201x, Standard for Elevator Suspension, Compensation and Governor Systems

(revision of ANSI/ASME A17.6-2010)

This Standard covers the means and members of suspension, compensation, and governor systems for elevators within the scope of ASME A17.1/CSA B44. This standard includes the material properties, design, testing, inspection, and replacement criteria for these means. It includes the requirements for steel wire rope, aramid fiber rope, and noncircular elastomeric coated steel suspension members, and provides direction for future constructions as new technology develops.

Single copy price: Free!

Order from: Mayra Santiago, ansibox@asme.org

Send comments to: Nicole Gomez, ansibox@asme.org

Due 19 September 2017

BSR/APPA 1000-201x, Total Cost of Ownership (TCO) for Facilities Asset Management (new standard)

Establish a common framework for owners of facilities assets to identify and more effectively track and manage costs of a facility, building or supporting infrastructure or assets over the full life cycle, utilizing Total Cost of Ownership (TCO) principles. The common framework would forecast investment needs, and simplify data decision requirements by creating and utilizing a standard data set, for purposes of maintaining a financially sustainable future of all asset investments.

Single copy price: \$95.00

Order from and send comments to: Billie Zidek, billie@appa.org

CSA Public Review Announcements

The CSA Group has announced a draft document for public review that might be of interest to *Standards Watch* readers. To participate in the public review please visit: <http://publicreview.csa.ca/>.

Due 9 September 2017

C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4234, Selective coordination between generator main overcurrent protective device and downstream overcurrent devices (amendment)

Add new clause to 46-208 Overcurrent protection:

(3) Notwithstanding Subrule (1), where the overcurrent protective devices are permitted to be installed in accordance with Clause 8.7.2 of the CSA standard C282, selective coordination between overcurrent protective devices shall not be required

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/ASHRAE Standard 224-201x, Standard for the Application of Building Information Modeling (new standard)

This standard provides minimum requirements for the application of Building Information Modeling (BIM) to the planning, design, construction, and operation of buildings. This standard defines how to include BIM requirements in design, construction, and operations services contracts. Project Need: This standard provides minimum requirements for the application of Building Information Modeling (BIM) to the planning, design, construction and operation of buildings and defines how to include these requirements in design, construction and operations services contracts.

Contact: Stephanie Reiniche, sreiniche@ashrae.org

BSR/EIA 61078-201x, Reliability Block Diagrams (identical national adoption of IEC 61078)

This International Standard describes: the requirements to apply when reliability block diagrams (RBDs) are used in dependability analysis; the procedures for modeling the dependability of a system with reliability block

diagrams; how to use RBDs for qualitative and quantitative analysis; the procedures for using the RBD model to calculate availability, failure frequency and reliability measures for different types of systems with constant (or time-dependent) probabilities of blocks success/failure, and for non-repaired blocks or repaired blocks; some theoretical aspects and limitations in performing calculations for availability, failure frequency and reliability measures; and the relationships with fault tree analysis and Markov techniques.

Contact: Laura Donohoe, ldonohoe@ecianow.org

BSR/NFPA 70-201x, National Electrical Code® (revision of ANSI/NFPA 70-2013)

Covers installation and removal of electrical conductors, equipment, and raceways; signaling and communications conductors, equipment, and raceways; optical fiber cables and raceways for: (1) Public and private premises, including buildings, structures, mobile homes, recreational vehicles, and floating buildings; (2) Yards, lots, parking lots, carnivals, and industrial substations; (3) Installations of conductors and equipment that connect to the supply of electricity; and (4) Installations used by the electric utility, such as office buildings, warehouses, garages, machine shops, and recreational buildings, that are not an integral part of a generating plant, substation, or control center.

Contact: Dawn Michele Bellis, dbellis@nfpa.org

BSR/NFPA 654-201x, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (revision of ANSI/NFPA 654-2012)

This standard provides requirements for all phases of the manufacturing, processing, blending, conveying, repackaging, and handling of combustible particulate solids or hybrid mixtures, regardless of concentration or particle size, where the materials present a fire, a flash fire, or an explosion hazard. The owner/operator shall be responsible for implementing the requirements in this standard.

Contact: Dawn Michele Bellis, dbellis@nfpa.org

BSR/NFPA 780-201x, Lightning Protection Code (revision of ANSI/NFPA 780-2013)

Covers lightning protection requirements for ordinary buildings, miscellaneous structures and special occupancies, heavy-duty stacks, and structures containing flammable liquids and gases.

Contact: Dawn Michele Bellis, dbellis@nfpa.org

BSR/NFPA 1124-201x, Code for the Manufacture, Transportation, and Storage of Fireworks and Pyrotechnic Articles (revision of ANSI/NFPA 1124-2013)

Covers traditional lightning protection system installation requirements for the following: (1) Ordinary structures; (2) Miscellaneous structures and special occupancies; (3) Heavy-duty stacks; (4) Structures containing flammable vapors, flammable gases, or liquids that can give off flammable vapors; (5) Structures housing explosive materials; (6) Wind turbines; (7) Watercraft; (8) Airfield lighting circuits; and (9) Solar arrays. Address lightning protection of the structure but not the equipment or installation requirements for electric generating, transmission, and distribution systems except as given in Chapter 9 and Chapter 12.

Contact: Dawn Michele Bellis, dbellis@nfpa.org

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/ASQ/ISO/TS 9002:2016, Quality management systems - Guidelines for the application of ISO 9001:2015 (identical national adoption of ISO/TS 9002:2016): 6 July 2017

ANSI/ASABE S640# JUL2017, Quantities and Units of Electromagnetic Radiation for Plants (Photosynthetic Organisms) (new standard): 11 July 2017

ANSI/ASHRAE/ICC/USGBC/IES 189.1ac-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014): 6/29/2019

ANSI/ASHRAE/ICC/USGBC/IES 189.1bv-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014): 29 June 2017

ANSI/ASHRAE/ICC/USGBC/IES 189.1bz-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014): 29 June 2017

ANSI/ASHRAE/IES 90.1b-2017, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 29 June 2017

ANSI/ASHRAE/IES 90.1c-2017, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 29 June 2017

ANSI/ASHRAE/IES 90.1d-2017, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 29 June 2017

ANSI/ASHRAE/IES 90.1e-2017, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 29 June 2017

ANSI/ASHRAE/IES 90.1f-2017, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 29 June 2017

ANSI/ASHRAE/IES 90.1j-2017, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 29 June 2017

ANSI/AWS D1.3/D1.3M-2017, Structural Welding Code-Sheet Steel (revision of ANSI/AWS D1.3/D1.3M-2007): 12 July 2017

ANSI C63.15-2017, Recommended Practice for the Immunity Measurement of Electrical and Electronic Equipment (revision of ANSI C63.15-2010): 13 July 2017

ANSI/IEEE 45.8-2016, Recommended Practice for Electrical Installations on Shipboard-Cable Systems (new standard): 13 July 2017

ANSI/IEEE 1855-2016, Standard for Fuzzy Markup Language (new standard): 13 July 2017

ANSI/IES RP-16-2017, Nomenclature and Definitions for Illuminating Engineering (new standard): 13 July 2017

ANSI/IES RP-7-17, Recommended Practice for Lighting Industrial Facilities (revision and redesignation of ANSI/IESNA RP-7-2012): 13 July 2017

ANSI C18.3M, Part 2-2017, Portable Lithium Primary Cells and Batteries - Safety Standard (revision of ANSI C18.3M, Part 2-2011): 11 July 2017

ANSI/UL 2900-1-2017, Standard for Software Cybersecurity for Network- Connectable Products, Part 1: General Requirements (new standard): 5 July 2017

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 documents should be sent to Charles T. Zegers at czegers@ansi.org. Comments from US citizens regarding ISO documents should be sent to Karen Hughes at isot@ansi.org. Any prices, if shown, are for purchases through ANSI; prices elsewhere may differ. The sort order is by due date then alphanumeric.

ISO/IEC DIS 14543-5-12, Information technology - Home electronic systems (HES) architecture - Part 5-12: Intelligent grouping and resource sharing - Remote access test and verification, 30 July 2017, \$77.00

ISO/IEC DIS 14543-5-101, Information technology - Home electronic systems (HES) architecture - Part 5-101: Intelligent grouping and resource sharing remote AV access profile, 30 July 2017, \$71.00

ISO/DIS 80000-3, Quantities and units - Part 3: Space and time, 6 August 2017, \$53.00

ISO/DIS 80000-8, Quantities and units - Part 8: Acoustics 6 August 2017, \$53.00

85/612A/CD, IEC 61557-6 ED3: Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 6: Effectiveness of residual current devices (RCD) in TT, TN, and IT systems, 22 September 2017

ISO/DIS 14617, Graphical symbols for diagrams, 30 September 2017, \$194.00

ISO/DIS 22395, Security and resilience - Community resilience -Guidelines for supporting community response to vulnerable people, 30 September 2017, \$53.00

ISO/DIS 22326, Security and resilience - Emergency management -Guidelines for monitoring facilities with identified hazards, 1 October 2017, \$58.00

ISO/DIS 22380, Security and resilience - Authenticity, integrity and trust for products and documents - General principles for product fraud risk, 1 October 2017, \$67.00

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>.

ISO 20480-1:2017, Fine bubble technology - General principles for usage and measurement of fine bubbles - Part 1: Terminology, \$45.00

IEC 62680-1-2 Ed. 2.0 en:2017, Universal serial bus interfaces for data and power - Part 1-2: Common components - USB Power Delivery specification, \$410.00

IEC 60794-2 Ed. 4.0 b:2017, Optical fibre cables - Part 2: Indoor cables - Sectional specification, \$82.00

IEC 61921 Ed. 2.0 b:2017, Power capacitors - Low-voltage power factor correction banks, \$164.00

S+ IEC 61921 Ed. 2.0 en:2017 (Redline version), Power capacitors - Low-voltage power factor correction banks, \$213.00

IEC 62841-2-1 Ed. 1.0 b:2017, Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-1: Particular requirements for hand-held drills and impact drills, \$235.00

ISO 532-2:2017, Acoustics - Methods for calculating loudness - Part 2: Moore-Glasberg method, \$162.00

ISO/TR 16576:2017, Fire safety engineering - Examples of fire safety objectives, functional requirements and safety criteria, \$232.00

IEC 63013 Ed. 1.0 b:2017, LED packages - Long-term luminous and radiant flux maintenance projection, \$82.00

IEC 60099-5 Ed. 2.0 b:2013, Surge arresters - Part 5: Selection and application recommendations, \$387.00

TSP Meeting Schedule

The November meetings will be at the Tropicana Las Vegas Casino Hotel Resort, 3801 Las Vegas Blvd. South. The schedule is preliminary; meetings will be added, deleted, and rescheduled between now and November. The most up to date schedule can be found on the ESTA website at <http://tsp.esta.org/tsp/meetings/index.php>, where there is a "Reserve a Hotel Room" link. All working group meetings will have a WebEx option.

Control Protocols Working Group (CPWG)	09:00 – noon	Thursday 16 November 2017
CPWG BSR E1.33, RDMnet TG	10:00 – 18:00	Monday 20 November 2017
CPWG BSR E1.30-7 TG	14:00 – 17:00	Sunday 19 November 2017
Electrical Power Working Group (EPWG)	19:00 – 22:00	Friday 17 November 2017
Event Safety Communications TG	09:00 – 13:00	Thursday 16 November 2017
Event Safety Fire TG	14:00 – 17:00	Thursday 16 November 2017
Event Safety Weather TG	09:00 – noon	Thursday 16 November 2017
Event Safety Working Group (ESWG)	09:00 – noon	Friday 17 November 2017
Floors Working Group (FWG)	13:00 – 14:30	Friday 17 November 2017
Fog & Smoke Working Group (FSWG)	15:00 – 17:00	Friday 17 November 2017
Photometrics Working Group (PWG)	13:00 – 15:00	Thursday 16 November 2017
Rigging E1.6-3 TG	14:00 – 18:00	Wednesday 15 November 2017
Rigging Working Group (RWG)	19:00 – 23:00	Wednesday 15 November 2017
Stage Lifts Working Group (SLWG)	09:00 – 11:00	Saturday 18 November 2017
Technical Standards Council (TSC)	14:00 – 18:00	Wednesday 15 November 2017

The January 2018 meetings will take place in conjunction with the NAMM Show at the Anaheim Convention Center, which is scheduled for 25-28 January 2018.

ESTA Standards Watch

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