Technical Standards Program ESTA Standards Watch

August 2019 Volume 23, Number 15

Table of Contents	
Two in review and a new	
Behind the Scenes holiday cards on sale	
One sponsorship left for 2020 New World Rigging Symposium	2
WTO Technical Barrier to Trade notifications	
Brazil Notification BRA/896	
India Notification IND/105	
ANSI public review announcements	
Due 16 September 2019	
Due 23 September 2019	
Due 1 October 2019	5
Due 8 October 2019	
Project Withdrawn	
CSA public review announcements	
Due 1 September 2019	
Due 2 September 2019	
New ANS projects	
Final actions on American National Standards	
Draft IEC & ISO documents	
Recently published IEC & ISO documents1	0
TSP meeting schedule1	
TSP donors who have made long-term, multi-year pledges1	
Investors in Innovation, supporters of ESTA's Technical Standards Program1	5

Two in review and a new

The TSP working group meetings held in Texas in the third week of July resulted in several projects moving forward. A few of them are listed below. More will be listed as the minutes of the meetings and action items are sorted out.

BSR E1.62, Minimum specifications for mass-produced portable platforms, ramps, stairs, and choral risers for live performance events, is being offered for a fourth public review. The proposed standard covers mass-produced portable platforms, stair units and ramps used with those platforms, and choral risers, designed to be used for the presentation of music concerts, dramatic plays, fashion shows, and other entertainment and special events. The units covered by this standard are of a size and weight that allows them to be moved and erected by one or two people. Larger, heavier units are outside the scope of this standard. The scope also covers the railings provided as fall protection accessories, and the legging systems.

The major substantive change in this fourth review version is rolling back a response to a second public review comment. In that public review a comment suggested we should add specific coefficients of friction values to better define "slip resistance." We did, but later public review comments pointed out flaws in that. The

coefficients are meaningless unless the shoe sole is specified, and specifying shoes is outside the scope of the standard. We have gone back to the language used in the *International Building Code* and *International Fire Code* that simply say floors should be slip resistant. The revised draft standard is posted at https://tsp.esta.org/tsp/documents/public_review_docs.php. The public review runs through September 23; by the start of September 24 the review is finished.

BSR E1.4-3, Entertainment Technology — Manually Operated Hoist Rigging Systems, is a standard for permanently installed, human-powered manually operated hoists, used as part of rigging systems for raising, lowering, and suspension of scenery, properties, lighting, and similar loads. This standard establishes requirements for the design, manufacture, installation, inspection, and maintenance of manual hoist systems for lifting and suspension of loads for performance, presentation, and theatrical production. It too is posted at https://tsp.esta.org/tsp/documents/public_review_docs.php. The public review runs through October 7. It is finished when October 8 starts.

The Fog & Smoke Working Group has voted to open **ANSI E1.23 – 2010 (R2015), Entertainment Technology – Design and Execution of Theatrical Fog Effects**, for revision and to rename it "Entertainment Technology— Design, Execution, and Maintenance of Atmospheric Effects." The addition of "Maintenance" to the title signifies the changes planned. The existing standard helps an effects designer plan a safe effect and carry it out, but problems emerge when the environment for the effect changes (e.g., the show changes theatres, the HVAC flips from cooling to heating) and so the effect might not be what was originally planned. Problems also can emerge in the motion picture industry when an effect is within safe exposure limits for an eight-hour workday and a 40hour workweek, but the shoots go on, take after take, so people are exposed for many more hours a day than eight and for many more hours than 40 in a workweek.

Anyone interested in this E1.23 project can help by either joining the Fog & Smoke Working Group or commenting in future public reviews. Information about joining working groups is available at https://tsp.esta.org/tsp/working_groups/index.html.

Behind the Scenes holiday cards on sale

The 2019 BTS Holiday Cards are now on sale at

<u>https://behindthescenescharity.org/cms/product-category/cards/</u>. Card sales help fund the work of the Behind the Scenes charity, which provides financial support to entertainment technology industry professionals if they, or their immediate dependent family, are seriously ill or injured. Don't leave your colleagues in the dark!

One sponsorship left for 2020 New World Rigging Symposium

ESTA and USITT have announced the sponsors for the 2020 New World Rigging Symposium taking place March 31 – April 1 in Houston, TX in conjunction with the USITT Conference and Stage Expo. Only one sponsorship opportunity is left available, a Silver sponsorship at \$5,000.

The New World Rigging Symposium conveys your message to a highly targeted audience of top riggers, engineers, safety professionals, venue managers, and others. It demonstrates your support for bringing the rigging community together to learn, network, discuss current issues and new technologies, and help shape the future of the industry. If you are interested in claiming that last sponsorship, visit <u>www.esta.org/nwrs_sponsorships</u> to learn more.

WTO Technical Barrier to Trade notifications

Notify US, the U.S. Department of Commerce's service to announce Technical Barrier to Trade filings, has announced TBTs that may be of interest to Standards Watch readers. If you have a problem with any TBTs, you can protest through your representative to the World Trade Organization. See the guidance documents at http://tsapps.nist.gov/notifyus/data/guidance/guidance/guidance.cfm or

<u>http://ec.europa.eu/growth/tools-databases/tbt/en/tbt-and-you/being-heard/</u> for advice on filing objections.

Brazil Notification BRA/896

Date issued: 12 August 2019

Agency responsible: National Institute of Metrology, Standardization and Industrial Quality (INMETRO) National inquiry point: TBT/WTO Enquiry Point (INMETRO)

Products covered: Regulatory stock review

Title: Draft Ordinance (Consulta Pública) 329, July 31, 2019 (1 page(s), in Portuguese)

Description of content: Draft text on regulatory stock review to cancel society low impact regulatory measures. Opens a period of 60 (sixty) days for suggestions and comments on the proposed text. Comments and suggestions should be sent in the format of the model spreadsheet, contained in the page http://www.inmetro.gov.br/legislacao/, preferably electronically to the following addresses: - National Institute of Metrology, Quality and Technology - Inmetro Conformity Assessment Board - Dconf Santa Alexandrina Street, 416 - 4th Floor - Rio Comprido. ZIP Code: 20.261-232 - Rio de Janeiro - RJ or, - Email: dconf.consultapublica@inmetro.gov.br/

Objective and rationale: Trade facilitation; Lowering trade barriers

Relevant documents: 1) Brazilian Official Journal (Diário Oficial da União) number 153, August 9th 2019; Section 1, page 74; 2) Not stated; 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: 6 September 2019

Full text: https://tsapps.nist.gov/notifyus/docs/wto_country/BRA/full_text/pdf/BRA896(portuguese).pdf

India Notification IND/105

Date issued: 12 August 2019

Agency responsible: Ministry of Steel

National inquiry point: International Relations and Technical Information Services Department, Bureau of Indian Standards (BIS)

Products covered: Steel and steel products (see attached IND105 Part 1 for a comprehensive list provided on notification)

Title: The Steel and Steel Products (Quality Control) Second Order, 2019 (5 pages in English) **Description of content**: This Order seeks to ensure conformity to steel & steel products listed in schedule to the specified Indian Standards. The Order makes it mandatory for all manufacturers in India and all the manufacturers aboard who intend to export to India, of steel and steel products as given in the schedule to the order, to obtain valid license from the Bureau of Indian Standards, for use of Standard Mark, before commencement of regular production of such items. Further, no person shall manufacture, store for sale, sell, distribute or import any steel & steel products given in the said schedule, which do not conform to the specified standards and do not bear standard mark of the Bureau.

Objective and rationale: Upgrading the quality of the steel and steel products in public interest to ensure safety of infrastructure/housing/engineering goods in the country and for protection of human health & safety. **Relevant documents**:

• The web link for access of the draft order: <u>https://steel.gov.in/sites/default/files/Draft%20QCO</u> <u>%2006082019.pdf</u>

• The BIS Act, 2016

• ITC (HS), 2017 Schedule 1 – Import Policy (General Notes Regarding Import Policy) **Proposed date of adoption**: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 11 October 2019

Full text: <u>https://tsapps.nist.gov/notifyus/docs/wto_country/IND/full_text/pdf/IND105[1](english).pdf</u> and <u>https://tsapps.nist.gov/notifyus/docs/wto_country/IND/full_text/pdf/IND105[2](english).pdf</u>

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 <u>psa@ansi.org</u>.

Due 16 September 2019

BSR/ASQ ID1-201x, Inspection techniques and requirements - Guidelines (new standard) Pertains to the inspections and tests necessary to substantiate conformity to drawings, specifications, and contractual requirements as well as all inspection and tests required by regulatory/statutory requirements. Single copy price: \$86.00 (List price); \$69.00 (ASQ member price) Obtain from and send comments to: <u>standards@asq.org</u>

BSR/AWS A3.0M/A3.0-201x, Standard Terms and Definitions Including Terms for Adhesive Bonding, Brazing, Soldering, Thermal Cutting, and Thermal Spraying (revision of ANSI/AWS A3.0M/A3.0-2009) This standard is a glossary of the technical terms used in the welding industry. Its purpose is to establish standard terms to aid in the communication of information related to welding and allied processes. Since it is intended to be a comprehensive compilation of welding terminology, nonstandard terms used in the welding industry are also included. Single copy price: \$86.00

Order from: <u>sborrero@aws.org</u>

Send comments to: adavis@aws.org

BSR/AWS C3.8M/C3.8-201x, Specification for the Ultrasonic Pulse-Echo Examination of Brazed Joints (revision of ANSI/AWS C3.8M/C3.8-2011)

This specification provides the minimum requirements for the pulse-echo ultrasonic examination of brazed joints. Its purpose is to standardize brazed-joint ultrasonic examination requirements for all applications in which brazed joints of assured quality are required. It provides the minimum requirements for equipment, procedures, and the documentation of such tests.

Single copy price: \$30.00 (AWS members)/\$40.00 (non-members) Order from and send comments to: Kevin Bulger, <u>kbulger@aws.org</u>

BSR/NECA 402-201x, Standard for Installing and Maintaining Motor Control Centers (new standard)

This standard describes the installation and maintenance for low-voltage motor control centers (MCCs) rated 600 VAC or less with ahorizontal bus rating of 2,500 amperes or less.

Single copy price: \$25.00 (NECA members)/\$50.00 (nonmembers)

Order from and send comments to: Aga Golriz, <u>Aga.golriz@necanet.org</u>

BSR/OPEI Z130.1-201x, (Standard) for Golf Cars - Safety and Performance Specifications (revision and redesignation of ANSI/ILTVA Z130.1-2012)

This standard provides safety and performance specifications relating to golf cars, driven by electric motors or internal combustion engines, specifically intended for and used on golf courses for transporting golfers and their equipment.

Single copy price: Free

Order from and send comments to: Greg Knott, gknott@opei.org

BSR/OPEI Z135-201x, (Standard) for Personal Transport Vehicles - Safety and Performance

Specifications (revision and redesignation of ANSI/ILTV Z135-2012) This standard provides safety and performance specifications relating to personal transport vehicles, (PTVs),

driven by electric motors or internal combustion engines, to be operated on designated roadways or within a closed community where permitted by law or by regulatory authority rules.

Single copy price: Free

Order from and send comments to: Greg Knott, gknott@opei.org

Due 23 September 2019

BSR/ASABE S644 MONYEAR-201x, Performance Measures of Electromagnetic Radiation Systems for Plants (new standard)

This standard establishes appropriate performance criteria of electromagnetic radiation devices designed for horticultural applications and installed systems that use such devices. This standard requires a minimum set of criteria and recommends optional, advanced criteria. This standard also provides methodologies to compare the anticipated plant response and energy performance between alternative devices and installed systems when applied to diverse horticultural operations.

Single copy price: \$65.00 Order from and send comments to: Walter Brace, <u>brace@asabe.org</u>

Due 1 October 2019

INCITS/ISO/IEC 5138-2:1980 [S2019], Office Machines - Vocabulary - Part 02: Duplicators (withdrawal of INCITS/ISO/IEC 5138 -2:1980 [S2019])

The Vocabulary is intended to facilitate international exchanges in the field of office machines. It presents, in two languages, terms and definitions of selected concepts relevant to this field and identifies relationships between the entries. This section of the Vocabulary deals with duplicators. This is a proposal to withdraw Vocabulary Part 02. No more standardized words for duplicators.

Single copy price: \$60.00

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

Send comments to: comments@standards.incits.org

INCITS/ISO/IEC 5138-3:1981 [S2019], Office Machines - Vocabulary - Part 03: Addressing Machines

(withdrawal of INCITS/ISO/IEC5138-3:1981 [S2019])

The Vocabulary is intended to facilitate international exchanges in the field of office machines. It presents, in two languages, terms and definitions of selected concepts relevant to this field and identifies relationships between the entries. This section of the Vocabulary deals with addressing machines. This is a proposal to withdraw Vocabulary Part 03, getting rid of addressing machine words.

Single copy price: \$60.00

Obtain an electronic copy from: <u>http://webstore.ansi.org/</u> Send comments to: <u>comments@standards.incits.org</u>

INCITS/ISO/IEC 5138-4:1981 [S2019], Office Machines - Vocabulary - Part 04: Letter Opening Machines

(withdrawal of INCITS/ISO/IEC 5138-4:1981 [S2019])

The Vocabulary is intended to facilitate international exchanges in the field of office machines. It presents, in two languages, terms and definitions of selected concepts relevant to this field and identifies relationships between the entries. This section of the Vocabulary deals with letter opening machines. This is a proposal to withdraw Vocabulary Part 04. No more words for letter opening machines!

Single copy price: \$60.00

Obtain an electronic copy from: <u>http://webstore.ansi.org/</u> Send comments to: <u>comments@standards.incits.org</u>

INCITS/ISO/IEC 5138-5:1981 [S2019], Office Machines - Vocabulary - Part 05: Letter Folding Machines

(withdrawal of INCITS/ISO/IEC 5138-5:1981 [S2019])

The Vocabulary is intended to facilitate international exchanges in the field of office machines. It presents, in two languages, terms and definitions of selected concepts relevant to this field and identifies relationships between the entries. This section of the Vocabulary deals with letter folding machines. This is a proposal to withdraw Vocabulary Part 05—no more letter folding machine words.

Single copy price: \$60.00

Obtain an electronic copy from: <u>http://webstore.ansi.org/</u> Send comments to: <u>comments@standards.incits.org</u>

INCITS/ISO/IEC 5138-9:1984 [S2019], Office Machines - Vocabulary - Part 9: Typewriters (withdrawal of INCITS/ISO/IEC 5138 -9:1984 [S2019])

Intended to facilitate international exchanges in the field of office machines. It presents, in two languages, terms and definitions of selected concepts relevant to this field and identifies relationship between the entries. Deals with typewriters. It's a withdrawal, so no more standardized words for typewriters. Single copy price; \$60.00

Obtain an electronic copy from: <u>http://webstore.ansi.org/</u> Send comments to: <u>comments@standards.incits.org</u>

Due 8 October 2019

INCITS/ISO/IEC 13818-1:2019 [201X], Information technology - Generic coding of moving pictures and associated audio information - Part 1: Systems (identical national adoption of ISO/IEC 13818-1:2019 and

revision of INCITS/ISO/IEC 13818-1:2013 [2014])

Specifies the system layer of the coding. It was developed principally to support the combination of the video and audio coding methods defined in Parts 2 and 3 of ISO/IEC 13818. The system layer supports six basic functions: the synchronization of multiple compressed streams on decoding; the interleaving of multiple compressed streams into a single stream; the initialization of buffering for decoding start up; continuous buffer management; time identification; multiplexing and signaling of various components in a system stream. Single copy price: \$232.00

Obtain an electronic copy from: <u>http://webstore.ansi.org/</u> Send comments to: <u>comments@standards.incits.org</u>

INCITS/ISO/IEC 14496-11:2015 [201x], Information technology - Coding of audio-visual objects - Part 11: Scene description and application engine (identical national adoption of ISO/IEC 14496-11:2015 and revision of INCITS/ISO/IEC 14496-11:2005 [R2014] and INCITS/ISO/IEC 14496-11:2005/AM5:2007 [R2014]) Specifies the coded representation of the spatio-temporal positioning of audio-visual objects as well as their behavior in response to interaction (scene description); the Extensible MPEG-4 Textual (XMT) format, a textual representation of the multimedia content described in ISO/IEC 14496 using the Extensible Markup Language (XML); and a system-level description of an application engine.

Single copy price: \$232.00

Obtain an electronic copy from: <u>http://webstore.ansi.org/</u> Send comments to: <u>comments@standards.incits.org</u>

INCITS/ISO/IEC 14496-12:2015 [201x], Information technology - Coding of audio-visual objects - Part 12: ISO base media file format (identical national adoption of ISO/IEC 14496-12:2015 and revision of ISO/IEC 14496-12:2015

INCITS/ISO/IEC 14496-12:2012 [2014])

Specifies the ISO base media file format, which is a general format forming the basis for a number of other more specific file formats. This format contains the timing, structure, and media information for timed sequences of media data, such as audio-visual presentations. ISO/IEC 14496-12:2015 is applicable to MPEG-4, but its technical content is identical to that of ISO/IEC 15444-12, which is applicable to JPEG 2000. Single copy price: \$232.00

Obtain an electronic copy from: <u>http://webstore.ansi.org/</u> Send comments to: <u>comments@standards.incits.org</u>

INCITS/ISO/IEC 15444-5:2015 [201x], Information technology - JPEG 2000 image coding system:

Reference software (identical national adoption of ISO/IEC 15444-5:2015 and revision of INCITS/ISO/IEC 15444-5:2003 [R2014] and INCITS/ISO/IEC 15444 -5:2003/AM1:2003 [R2014])

Defines a set of lossless and lossy compression methods for coding continuous-tone, bi-level, greyscale, or color digital still images. This Recommendation | International Standard provides three independently created software reference implementations of Rec. ITUT T.800 | ISO/IEC 15444-1, in order to assist implementers of Rec. ITU-T T.800 | ISO/IEC 15444-1 in testing and understanding its content.

Single copy price: \$103.00

Obtain an electronic copy from: <u>http://webstore.ansi.org/</u> Send comments to: <u>comments@standards.incits.org</u>

INCITS/ISO/IEC 19776-2:2015 [201x], Information technology - Computer graphics, image processing and environmental data representation - Extensible 3D (X3D) encodings - Part 2: Classic VRML encoding (identical national adoption of ISO/IEC 19776 -2:2015 and revision of INCITS/ISO/IEC 19776-2:2008 [R2014]) Defines a system that integrates 3D graphics and multimedia. Conceptually, each X3D file is a 3D time-based space that contains graphic and aural objects that can be dynamically modified through a variety of mechanisms. This part of ISO/IEC 19776 defines a mapping of the abstract objects in X3D to a specific encoding using the technique defined in ISO/IEC 14772, Virtual Reality Modeling Language (VRML).

Single copy price: \$45.00

Obtain an electronic copy from: <u>http://webstore.ansi.org/</u> Send comments to: <u>comments@standards.incits.org</u>

Project Withdrawn

BSR/UL 1419-201x, Standard for Professional Video and Audio Equipment (revision of ANSI/UL 1419-2011 (R2016))

1.1 These requirements cover video and audio equipment operated and maintained by trained personnel under the conditions of controlled access. 1.2 These requirements cover such equipment as video tape recorders, audio/video editing equipment, audio/video receiving and processing equipment, signal transmission equipment, television cameras, video digitizers, video monitors, metering equipment and similar equipment. 1.3 This Standard also covers auxiliary equipment and accessories which by themselves may not perform the desired function of the equipment outlined in 1.2 but are used in addition to or as a supplement to the basic equipment (remote controls, convertors, stands, etc.). 1.4 These requirements cover equipment rated 600 volts or less for use in accordance with the National Electrical Code, ANSI/NFPA 70.

Inquiries may be directed to Theresa Espejo, theresa.espejo@ul.org

CSA public review announcements

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

Due 1 September 2019

C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4483, Revisions to Rule 10-206, AC systems required to be solidly grounded (amendment)

Revise Rule 10-206, AC systems required to be solidly grounded, as follows:

- 1) AC systems exceeding extra-low voltage shall be solidly grounded if
- a) by doing so, their maximum voltage-to-ground does not exceed 150 V; or and
- b) the system incorporates a neutral conductor.

2) AC systems exceeding the value prescribed by Subrule 1) a) shall be permitted to be ungrounded orimpedance grounded, provided that they meet the requirements for

- a) ungrounded systems; or
- b) impedance grounded systems.
- 2) 3) Extra-low-voltage ac systems shall be solidly grounded where
- a) run overhead outside;
- b) supplied by transformers energized from systems of more than 150 volts-to-ground; or
- c) supplied by transformers energized from ungrounded systems.

Due 2 September 2019

C392, Testing of three-phase squirrel cage induction motors during refurbishment (new edition) This standard covers integral horsepower, three-phase, alternating current, squirrel cage induction motors rated up to 15 kV at 50/60 Hz. This standard also covers inverter duty motors. This standard may also be applied with discretion to products outside the scope of this standard.

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, (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/ASSP A10.50-201X, Standard for Heat Stress Management in Construction and Demolition Operations (new standard)

This standard establishes the minimum requirements for the prevention of heat illnesses and management of heat stress hazards and exposures encountered during construction and demolition operations. It establishes procedures for the management of heat stress hazards and the selection and use of appropriate controls and practices to reduce risks presented by heat stress and prevention heat illnesses for construction and demolition environments.

Contact: Tim Fisher, <u>TFisher@ASSP.org</u>

BSR E1.23-201x, Entertainment Technology - Design, Execution, and Maintenance of Atmospheric Effects (revision of ANSI E1.23 -2010 (R2015))

The E1.23 document offers advice on the planning execution and maintenance of theatrical effects using glycol, glycerin, or white mineral oil fogs or mists in theaters, arenas, motion picture studios, and other places of public assembly or motion picture production. The guidance is offered to help effects designers and technicians create effects that can be executed repeatedly and reliably, and so that they can avoid excessive exposure to the fog materials and other foreseeable hazards.

Contact: Karl Ruling, standards@esta.org

BSR/NECA 500-201x, Standard for Installing and Maintaining Indoor Commercial Lighting Systems (new standard)

This standard describes installation and maintenance procedures for permanently installed incandescent, halogen, fluorescent, LED, and high-intensity discharge (HID) lighting systems operating at 1000 volts or less, installed indoors and commonly used in commercial and retail buildings, including the following: (1) Recessed lighting systems, such as troffers, downlights, wallwashers, valance lights, and accent lights; (2) Surface-mounted lighting systems, such as surface troffers, wraparounds, surface downlights, monopoints, and decorative fixtures; (3) Suspended lighting systems, such as pendant luminaires, direct, indirect, and uplight systems, and decorative luminaires; (4) Wall-mounted lighting systems, such as sconces or wallpacks; and (5) Track lighting systems. In addition to luminaires, this standard includes construction materials related to luminaires, including lamps, conductors, wiring methods, various special screws and clips, and structural suspension components.

Contact: Aga Golriz, <u>Aga.golriz@necanet.org</u>

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/ASA S12.60-2019/Part 4, Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools, Part 4: Acoustic Standards for Physical Education Teaching Environments (new standard): 29 July 2019 (Mentioned here because school gymnasia often are used as concert venues and theatres.)

ANSI/AWS B2.1/B2.1M:2014-ADD1-2019, Specification for Welding Procedure and Performance Qualification (addenda to ANSI/AWS B2.1/B2.1M:2014-AMD1-2015): 31 July 2019

ANSI/AWS B2.1-1-001-2019, Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Carbon Steel, (M-1/P-1, Group 1 or 2), 3/16 inch [5 mm] through 3/4 inch [19 mm], E7016 and E7018, in the As-Welded Condition, Primarily Plate and Structural Applications (new standard): 31 July 2019

ANSI/IES RP-16 Addendum 3-2019, Definitions and Nomenclature (revision of ANSI/IES RP-16-2017): 29 July 2019

ANSI/MHI ECMA 25-2019, AC Inverters for Use on Electric Overhead Monorail, and Gantry Graveling Cranes (new standard): 29 July 2019

ANSI/UL 498A-2019b, Standard for Safety for Current Taps and Adapters (revision of ANSI/UL 498A-2019a): 2 August 2019

ANSI/UL 8750-2019, Standard for Safety for Light Emitting Diode (LED) Equipment for Use in Lighting Products (Proposal dated 5-17-19) (revision of BSR/UL 8750-201X): 30 July 2019

ANSI/UL 8750-2019A, Standard for Safety for Light Emitting Diode (LED) Equipment for Use in Lighting Products (Proposal dated 9-14-18) (revision of ANSI/UL 8750-2018): 30 July 2019

Plus 17 ASHRAE addenda:

- 1. **ANSI/ASHRAE Addendum 62.1aj-2019,** Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ ASHRAE Standard 62.1-2016): 24 July 2019
- 2. **ANSI/ASHRAE Addendum 62.1aq-2019**, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2016): 24 July 2019
- 3. **ANSI/ASHRAE Addendum 62.1i-2019**, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2016): 24 July 2019
- 4. **ANSI/ASHRAE Addendum 62.1n-2019**, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ ASHRAE Standard 62.1-2016): 24 July 2019
- 5. **ANSI/ASHRAE Addendum 62.1s-2019**, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ ASHRAE Standard 62.1-2016): 24 July 2019
- ANSI/ASHRAE Addendum a to ANSI/ASHRAE Standard 185.1-2019, Method of Testing UV-C Lights for Use in Air-Handling Units or Air Ducts to Inactivate Airborne Microorganisms (addenda to ANSI/ASHRAE Standard 185.1-2015): 25 July 2019
- ANSI/ASHRAE/ICC/USGBC/IES Addendum 189.1bm-2019, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017): 24 July 2019
- 8. **ANSI/ASHRAE/IES Addendum 90.1an-2019,** Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 24 July 2019
- 9. **ANSI/ASHRAE/IES Addendum 90.1ao-2019**, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 24 July 2019
- 10. **ANSI/ASHRAE/IES Addendum 90.1at-2019**, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 24 July 2019
- 11. **ANSI/ASHRAE/IES Addendum 90.1aw-2019**, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 24 July 2019
- 12. ANSI/ASHRAE/IES Addendum 90.1ay-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 24 July 2019
- 13. **ANSI/ASHRAE/IES Addendum 90.1bb-2019**, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 24 July 2019
- 14. **ANSI/ASHRAE/IES Addendum 90.1bf-2019**, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 24 July 2019
- 15. ANSI/ASHRAE/IES Addendum 90.1t-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 24 July 2019
- 16. **ANSI/ASHRAE/IES Addendum 90.1v-2019**, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 24 July 2019
- ANSI/ASRHAE/USGBC/IES/ICC Addendum 189.1i-2019, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES/ICC Standard 189.1-2017): 24 July 2019

Draft IEC & ISO documents

This section lists proposed documents that the International Electromechanical Commission (IEC) is considering for approval and that may be of interest to *Standards Watch readers*. Anyone interested in reviewing and commenting on a 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 on ISO documents should be sent to Karen Hughes at

isot@ansi.org. Any prices, if shown, are for purchases through ANSI. The sort order is by due date then alphanumeric.

110/1134/FDIS, IEC 62341-5-3 ED2: Organic light emitting diode (OLED) displays - Part 5-3: Measuring methods of image sticking and lifetime, 13 September 2019

110/1135/CD, IEC 62977-3-5 ED1: Electronic displays - Part 3-5: Evaluation of optical performances - Colour capabilities, 27 September 2019

59L/173/CD, IEC 63174 ED1: Electrically operated toothbrushes - Method for measuring performance, 1 October 2019

121A/307/CDV, IEC 60947-4-3 ED3: Low-voltage switchgear and controlgear - Part 4-3: Contactors and motor-starters - Semiconductor controllers and semiconductor contactors for nonmotor loads, 1 October 2019

110/1109/CDV, IEC 62906-5-3 ED1: Laser display devices - Part 5-3: Measuring methods of image quality for laser projection displays, 2 October 2019

ISO/DIS 11228-1, Ergonomics - Manual handling - Part 1: Lifting, lowering and carrying, 12 October 2019, \$134.00

ISO/DGuide 84, Guidelines for addressing climate change in standards, 21 November 2019, \$68.00

Recently published IEC & ISO documents

Listed here are documents recently approved by the IEC or ISO that may be of use or interest to *Standards Watch* readers. Prices shown are from the <u>ANSI Webstore</u>.

IEC 62734 Ed. 1.1 b:2019, Industrial networks – Wireless communication network and communication profiles - ISA 100.11a, \$586.00

IEC 62734 Amd.1 Ed. 1.0 b:2019, Amendment 1 - Industrial networks - Wireless communication network and communication profiles – ISA 100.11a, \$47.00

ISO 5323:2019, Wood flooring and parquet - Vocabulary, \$45.00

ISO 7010:2019, Graphical symbols - Safety colours and safety signs - Registered safety signs, \$232.00

ISO 15115:2019, Leather - Vocabulary, \$45.00

ISO 16000-40:2019, Indoor air - Part 40: Indoor air quality management system, \$138.00

ISO 21110:2019, Information and documentation – Emergency preparedness and response, \$209.00

ISO 37158:2019, Smart community infrastructures – Smart transportation using battery-powered buses for passenger services, \$68.00

ISO/IEC 19566-5:2019, Information technologies - JPEG systems - Part 5: JPEG universal metadata box format (JUMBF), \$103.00

ISO/IEC 19566-6:2019, Information technologies - JPEG systems - Part 6: JPEG 360, \$138.00

ISO/IEC 23001-13:2019, Information technology - MPEG systems technologies - Part 13: Media orchestration, \$209.00

ISO/IEC TR 19583-1:2019, Information technology - Concepts and usage of metadata - Part 1: Metadata concepts, \$68.00

ISO/IEC/IEEE 15289:2019, Systems and software engineering - Content of life-cycle information items (documentation), \$209.00

ISO/IEC/IEEE 21839:2019, Systems and software engineering - System of systems (SoS) considerations in life cycle stages of a system, \$162.00

ISO/IEC/IEEE 21841:2019, Systems and software engineering - Taxonomy of systems of systems, \$68.00

ISO/IEC/IEEE 42020:2019, Software, systems and enterprise - Architecture processes, \$232.00

ISO/IEC/IEEE 42030:2019, Software, systems and enterprise - Architecture evaluation framework, \$209.00

ESTA Standards Watch

is distributed as a benefit to ESTA members and as a communication medium for participants in ESTA's Technical Standards Program. Original material is copyright the Entertainment Services and Technology Association.

Editors:

Karl G. Ruling, Technical Standards Manager Entertainment Services and Technology Association 630 Ninth Avenue, Suite 609 New York, NY 10036 USA <u>karl.ruling@esta.org</u> 1 212 244 1505 ext. 703 Fax 1 212 244 1502 Richard Nix, Asst. Technical Standards Manager Entertainment Services and Technology Association 630 Ninth Avenue, Suite 609 New York, NY 10036 USA <u>richard.nix@esta.org</u> 1 212 244 1505 ext. 649 Fax 1 212 244 1502

TSP meeting schedule

The following meetings will be at the Marriott Solana in Westlake, TX. The meeting schedule is posted at https://esta.org/ESTA/meetings.php. Use the "Reserve a Hotel Room" link on that page to reserve a hotel room.

09:00 - 13:00	Saturday 26 October 2019
19:00 – 23:00	Friday 25 October 2019
09:00 - 13:00	Saturday 26 October 2019
09:00 - 13:00	Friday 25 October 2019
14:00 - 18:00	Saturday 26 October 2019
09:00 - 13:00	Friday 25 October 2019
14:00 - 18:00	Thursday 24 October 2019
14:00 - 18:00	Friday 25 October 2019
14:00 - 18:00	Sunday 27 October 2019
09:00 - 13:00	Saturday 26 October 2019
14:00 - 18:00	Friday 25 October 2019
19:00 - 23:00	Saturday 26 October 2019
19:00 – 23:00	Thursday 24 October 2019
09:00 - 13:00	Sunday 27 October 2019
	$\begin{array}{c} 19:00 - 23:00 \\ \hline 09:00 - 13:00 \\ \hline 09:00 - 13:00 \\ \hline 14:00 - 18:00 \\ \hline 09:00 - 13:00 \\ \hline 14:00 - 18:00 \\ \hline 14:00 - 13:00 \\ \hline 19:00 - 23:00 \\ \hline 19:00 - 23:00 \\ \hline 19:00 - 23:00 \\ \hline \end{array}$

The following meetings will be at the Wyndham Garden Anaheim in conjunction with NAMM 2020:

Control Protocols Working Group	09:00 - 13:00	Friday 17 January 2020
Event Safety Fire Safety TG	09:00 - 13:00	Saturday 18 January 2020
Event Safety Working Group	14:00 - 18:00	Saturday 18 January 2020
Floors Working Group	09:00 - 13:00	Saturday 18 January 2020
Followspot Position Working Group	09:00 - 13:00	Thursday 16 January 2020
Photometrics Working Group	14:00 - 18:00	Friday 17 January 2020
Rigging Working Group:	19:00 - 23:00	Friday 17 January 2020
Stage Machinery E1.6-4 TG	14:00 - 18:00	Friday 17 January 2020
Stage Machinery E1.64 TG	09:00 - 13:00	Thursday 16 January 2020
Stage Machinery Working Group	19:00 - 23:00	Saturday 18 January 2020
Technical Standards Council	09:00 - 13:00	Sunday 16 January 2020

TSP donors who have made long-term, multi-year pledges

About the Stage Actors' Equity Association Altman Lighting **Barbizon Lighting Company B-Hive Industries** Scott Blair **BMI Supply Boston Illumination Group Candela Controls** Chauvet **City Theatrical** Clark-Reder Engineering **Columbus McKinnon Corporation** Tracey Cosgrove and Mark McKinney Bruce Darden Doug Fleenor Design Earl Girls Inc. EGI Pro **Electronic Theatre Controls Entertainment Project Services** Geiger Engineers, PC Tony Giovannetti **GLP German Light Products** Golden Sea Professional Equipment Limited H & H Specialties Harlequin Floors **High Output** Neil Huff Hughston Engineering IATSE Local 891 InCord Beverly and Tom Inglesby Interactive Technologies InterAmerica Stage iWeiss Inc. J.R. Clancy Jules Lauve Brian Lawlor Lex Products

Link USA. Inc. Lycian Stage Lighting John T. McGraw McLaren Engineering Group Mike Garl Consulting Mike Wood Consulting Morpheus Lights NAMM Niscon **Oasis Stage Werks** Reed Rigging Reliable Design Services Robe **Rosco Laboratories** Rose Brand Alan M. Rowe **David Saltiel** Sapsis Rigging Stage Equipment & Lighting Stage Rigging Stagemaker Stageworks Syracuse Scenery and Stage Lighting, Co. Dana Taylor Steve Terry Texas Scenic Company Theatre Projects Consultants Theatre Safety Programs TMB Tyler Truss Systems Vertigo Vincent Lighting Systems Steve Walker & Associates Walt Disney Parks and Resorts Westview Productions WNP Services. Inc. XSF Xtreme Structures and Fabrication

Investors in Innovation, supporters of ESTA's Technical Standards Program

VISIONARY LEADERS	(\$50,000 & up)
-------------------	-----------------

ETC PLASA	ProSight Specialty Insurance
VISIONARY (\$10,000 & up; >100 employees/members) Chauvet Professional Cisco Columbus McKinnon Entertainment Technology	Robe Walt Disney Parks and Resorts
VISIONARY (\$5,000 & up; 20–100 employees/members) Altman Lighting, Inc. German Light Products JR Clancy McLaren Engineering Group Rose Brand	Stage Rigging Theatre Projects TMB Tyler Truss Systems, Inc.
VISIONARY (\$500 & up; <20 employees/members) About the Stage B-Hive Industries, Inc. Scott Blair Boston Illumination Group Louis Bradfield Candela Controls Inc. Clark Reder Engineering Tracey Cosgrove & Mark McKinney Cyclops Lighting Doug Fleenor Design EGI Event Production Services Entertainment Project Services Neil Huff Hughston Engineering Inc. Interactive Technologies Lankey & Limey Ltd. Jules Lauve Brian Lawlor Michael Lay	Limelight Productions, Inc. Link John T. McGraw Mike Garl Consulting Mike Wood Consulting Power Gems Reed Rigging Reliable Design Services Alan Rowe Sapsis Rigging Inc. Stageworks Dana Taylor Steve Terry Theatre Safety Programs Vertigo Steve A. Walker & Associates Westview Productions WNP Services
INVESTOR (\$3,000–\$9,999; >100 employees/members) Actors' Equity Association Barbizon Lighting Company Golden Sea Professional Lighting Provider IATSE Local 728 IATSE Local 891	Lex NAMM Rosco Laboratories Texas Scenic Company
INVESTOR (\$1,500–\$4,999; 20–100 employees/members) American Society of Theatre Consultants Area Four Industries BMI Supply City Theatrical Inc. H&H Specialties, Inc.	Lycian Stage Lighting Morpheus Lights Niscon Inc. Tomcat XSF Xtreme Structures and Fabrication

InterAmerica Stage, Inc.

INVESTOR (\$200–\$499; <20 employees/members) Benjamin Cohen Bright Ideas Custom Electronics Inc. Bruce Darden Guangzhou Ming Jing Lighting Equipment Co. Indianapolis Stage Sales & Rentals, Inc. K5600, Inc. Lighting Infusion LLC	Nanyi Audio & Lighting Enterprise Co., Ltd. Qdot Lighting Ltd. Robert Scales Stephen Vanciel Suga Koubou Co., Ltd. VU-Industry Vision Technology Xpro Light
SUPPORTER (\$50 - \$2,999; >100 employees/members) Ian Foulds, IATSE Local 873 IATSE Local 51 Harlequin Floors	Thern Stage Equipment USAI Lighting
SUPPORTER (\$50 - \$1,499; 20–100 employees/members) ACT Lighting Inc./AC Power Distribution ARM Automation, Inc. Blizzard Lighting, LLC Geiger Engineers Guangzhou YaFeng Optoelectronic Equipment Co. High Output InCord Intella Systems Co., Ltd. iWeiss LA ProPoint, Inc.	Nanshi Lighting Oasis Stage Werks Stage Equipment & Lighting Stagemaker Syracuse Scenery and Stage Lighting Co., Inc. Taurus Light Co. Ltd. Thermotex Industries, Inc. Vincent Lighting Systems Zhuhai Shengchang Electronics Co.
SUPPORTER (\$50 - \$199; <20 employees/members) Roy Bickel DMX Pro Sales Tony Giovannetti Pat Grenfell Mitch Hefter John Huntington Beverly and Tom Inglesby Eddie Kramer Jason Kyle	LuxBalance Lighting Tyrone Mellon, Jr. Lizz Pittsley Showman Systems Michael Skinner Skjonberg Controls Inc. Stage Labor of the Ozarks Tracy Underhill Charlie Weiner

Memorial donor: The Estate of Ken Vannice