



ESTA Standards Watch

November 2019

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Fifteen ESTA standards available for public review

Fifteen ESTA standards and draft standards are available for public review on the ESTA TSP website at <http://estalink.us/pr>. Anyone materially affected by any document is invited to review it and to offer comments before the deadline. The review documents are available for free; downloading it costs you nothing but your time. The listing below is an alphanumeric sort. The comment due dates for the different documents are not all the same; please take note.

ANSI E1.17 - 2015, Entertainment Technology -- Architecture for Control Networks (ACN), is being considered for reaffirmation—no substantive changes. It is a suite of documents that specifies an architecture, including protocols and language, which may be configured and combined with other standard protocols to form

flexible, networked audio, lighting, or other control systems. The suite of documents is offered in a ZIP file for download. Comments are due no later than 30 December 2019.

ANSI E1.19 - 2015, Recommended Practice for the Use of Class A Ground-Fault Circuit Interrupters (GFCIs) Intended for Personnel Protection in the Entertainment Industry, is being considered for reaffirmation with no substantive changes. It offers guidance, in accordance with existing applicable standards, on how to select, install, use and maintain ground fault protection devices with nominal 5 mA trip settings in the entertainment industry. The purpose of their use would be to protect persons from shock and persons and property from fire. Comments are due no later than 30 December 2019.

BSR E1.2, Entertainment Technology - Design, Manufacture and Use of Aluminum Trusses and Towers, describes the design, manufacture and use of aluminum trusses, towers and associated aluminum structural components such as head blocks, sleeve blocks, bases, and corner blocks in the entertainment industry. It is being revised to bring its requirements up-to-date with current technologies. Comments are due no later than 23 December 2019.

BSR E1.4-3, Entertainment Technology -- Manually Operated Hoist Rigging Systems, applies to permanently installed, 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 manually operated hoist systems for lifting and suspension of loads for performance, presentation, and theatrical production. Comments are due no later than 30 December 2019. Comments are due no later than 30 December 2019.

BSR E1.6-2, Entertainment Technology - Design, Inspection, and Maintenance of Electric Chain Hoists for the Entertainment Industry, covers the design, inspection, and maintenance of serially manufactured electric link chain hoists used in the entertainment industry. The standard is being revised to provide more clarity or requirements. Comments are due no later than 23 December 2019.

BSR E1.20, Entertainment Technology -- Remote Device Management over USITT DMX512 Networks, is a revision of ANSI E1.20 – 2010. The standard is being revised to clarify ambiguities, fix bugs, and incorporate some additional features. E1.20 is an extension to USITT DMX512 and ANSI E1.11 that allows for bi-directional communication on the primary data link. This allows a controller to discover RDM-enabled devices on the link, to set starting addresses and other configuration settings, and to request status messages. Comments are due no later than 30 December 2019.

BSR E1.21, Entertainment Technology -- Temporary Structures Used for Technical Production of Outdoor Entertainment Events, establishes a minimum level of design and performance parameters for the design, manufacturing, use and maintenance of temporary ground-supported structures used in the production of outdoor entertainment events. The purpose of this guidance is to ensure the structural reliability and safety of these structures and does not address fire safety and safe egress issues. This standard also establishes a reasonable standard for care by providing the minimum acceptable requirements at which temporary structures shall be designed and used. Comments are due no later than 30 December 2019.

BSR E1.23, Entertainment Technology -- Design, Execution, and Maintenance of Atmospheric Effects, offers advice on the planning, execution, and maintenance of theatrical effects using glycol, glycerin, or white mineral oil fogs or mists, in theatres, 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. The revision includes guidance on developing strategies to maintain an effect over the months or years of a long-running show or an extended motion picture shoot. Comments are due no later than 23 December 2019.

BSR E1.37-5, General Purpose Messages for ANSI E1.20, RDM, provides additional Get/Set parameter messages (PIDs) for use with the ANSI E1.20 Remote Device Management protocol. Comments are due no later than 30 December 2019.

BSR E1.47, Entertainment Technology -- Recommended Guidelines for Entertainment Rigging System Inspections, covers the inspection of entertainment rigging systems. Rigging systems may be statically suspended (stationary) (dead hung) equipment, manually operated counterweight sets, manually operated hoist sets, rope and sandbag (hemp) sets, and electric hoist sets (including winding drum hoists, packaged hoists, powered counterweight sets). The document includes inspection of fire safety curtain systems, rigging only. Rigging systems frequently include combinations and variations of rigging types. Comments are due no later than 30 December 2019.

BSR E1.62, Minimum specifications for mass-produced portable platforms, ramps, stairs, and choral risers for live performance events, is a product specification covering serially manufactured portable platforms, stair units and ramps used with those platforms, and choral risers. It also would cover railings provided as fall protection accessories for these units. It would give minimum payload and sideways force handling specifications. It would not cover custom platforms or complete stage systems. Comments are due no later than 23 December 2019.

BSR E1.66, Safety Standard for Followspot Positions Erected for Short-term Use in Entertainment Venues, covers safety requirements for followspot positions in, or on, structures erected for short-term use, and positions not covered by ANSI E1.28. It is applicable to positions located indoors or outdoors. It addresses structural, electrical, and personnel safety requirements associated with them. Comments are due no later than 23 December 2019.

BSR ES1.9, Event Safety - Crowd Management, defines "crowd management," as distinguished from "crowd control," provides an overview of crowd management theory and vocabulary, and applies these terms to certain reasonably foreseeable risks that arise during live events. The standard is intended both to identify minimum requirements and to provide questions and suggestions that help event organizers make reasonable choices under the circumstances of their event. Comments are due no later than 30 December 2019.

BSR ES1.7, Event Safety Requirements - Weather Preparedness, addresses the consideration, development and use of weather planning strategies to mitigate weather-related risks associated with live events and their associated temporary special event structures. Its scope includes both indoor and outdoor events, because both have considerations for attendees. Its scope includes sites not specifically designed for public events, as these too represent unusual or unique circumstances relating to risk assessment and mitigation. Comments are due no later than 23 December 2019.

BSR ES1.19, Safety Requirements for Special Event Structures, addresses structural safety for any temporary structure used for special events ("temporary special event structures"), where such structures are used for presentation, performance, structural support of entertainment technology equipment, audience seating or viewing in conjunction with the event, and regardless if the event is indoor or outdoor. It is being revised to correct errata, and to add further clarity to its scope and requirements. Comments are due no later than 23 December 2019.

Tickets on sale for ESTA's Happy Hour for Behind the Scenes

ESTA's Happy Hour for Behind the Scenes provides an opportunity to greet old friends and make new ones while supporting your colleagues in need. The popular charity event is held on the opening night of the 2020 NAMM Show, Thursday, January 16, from 6:00 p.m. to 8:00 p.m. on the Platinum Patio at the Anaheim Marriott. Tickets are on sale now at <https://esta.org/btshh> and the proceeds go directly to the Behind the Scenes charity.

Nominations open for the ESTA Lifetime Technical Achievement Award

Nominations are open for the 2019 ESTA Lifetime Technical Achievement Award. The ESTA Board of Directors and Technical Standards Council created this award in 2017 to recognize individuals whose technical contributions have had a significant impact on our industry. The criteria include significant and sustained technical contributions to the entertainment industry over at least 25 years. Contributions may be related to the development of innovative products, tools, technology, safety improvements, interoperability, or processes, and

may be in any entertainment-related discipline including, but not limited to, lighting, sound, automation, rigging, projection, and facility design or construction.

The Award Criteria are:

1. Significant and sustained technical contributions to the entertainment industry over a period of at least 25 years.
2. Contributions can be related to the development of innovative products, tools, technology, safety improvements, interoperability, or processes.
3. Commercial success of items in "2." above need not be a primary qualifier. Rather, characteristics like: cool, "I wish I'd thought of that!", enabling, novel, "That's at least her 10th brilliant idea" and the like, should be part of the mix.
4. Technical contributions may be in any entertainment-related discipline including but not limited to lighting, sound, automation, rigging, projection, facility design, and facility construction.

The process:

- Nominations will be accepted from ESTA Members, TSP Participants, and ETCP Certificants.
- A three-person committee, consisting of the Chairs of the TSC and the Technical Standards Manager, will review all submitted nominations and present a final list of qualified candidates. This committee may bring in consultants if a nominee is submitted in a discipline where the committee feels they do not have enough expertise to truly determine the value of the individual's contribution to the industry.
- The Technical Standards Council will be the voting body to determine the winner of the award.

Nominations must include a bio or history of the nominee showing that the award criteria listed above have been met. Nominations without documentation will not be considered. Send the nomination and supporting materials to awards@esta.org no later than 15 November 2019.

Comments requested on U.S. proposal for a new field of ISO activity

ANSI has received a request from the Incentive Federation Inc. to submit to ISO a proposal for a new field of ISO technical activity on Incentives, Rewards and Recognition. Comments on the proposal are requested by 15 November 2019. The scope statement is:

Standardization in the field of incentives, rewards, and recognition will include classification, terminology and nomenclature, management practices and metrics that comprise the development, delivery, assessment and control of third-party acknowledgment and motivation solutions. Covered subjects would include products and services from third party companies that develop incentives, rewards, and recognition program development, program management, training, measurement and analytics, supply chain management, financial management and other related functions where organizational management applies defined methods to acknowledge or motivate employee performance and productivity or to increase customer acquisition, satisfaction, retention and loyalty. Incentives, reward, and recognition systems for performance improvements in sales, safety, engagement, retention and other business functional environments are also within scope. Intrinsic incentives, rewards, and recognition, non-material and those unique to the organizational or national cultures are also in scope (i.e. verbal appreciation, physical acknowledgement between parties, gifts of local cultural significance, corporate gifting, rewards points, traditional achievement and service awards, certificates and trophies.) Out of scope are the normal compensation and benefits programs that organizations provide to remunerate employees for expected performance from client organizations, e.g. cash compensation, health benefits, etc.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org). Submit comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, 15 November 2019.

UL seeks STP 1640 members

UL is looking for people to join STP 1640, the Standards Technical Panel for Portable Power-Distribution Equipment and Devices. UL works to ensure no interest category makes up more than one-third of the overall voting membership. Right now, Producers make up 36 percent of STP 1640, and other categories are low. There are 8 Producers, 6 Commercial/Industrial Users, 5 General Interest, 1 Supply Chain, 1 Consumer and 1 Testing

and Standards Organization representative on STP 1640. Thus, UL is looking for representatives who would fit into the following interest categories:

AHJ/Regulator: Those involved in the regulation or enforcement of the requirements of codes and standards at a regional (e.g. state or province) and/or local level. The authority having jurisdiction/regulator may be a regional or local department or individual such as a fire chief; fire marshal; chief of a fire prevention bureau, state department of insurance official, labor department, or health department; building official; electrical inspector; or others having statutory authority.

Consumer: Consumer organizations, consumer departments at universities, home economic departments at universities, professional consumers, and individuals who use the product or service as part of their livelihood and are not eligible for STP membership under another interest category.

General Interest: Consultants, members of academia, scientists, special experts, representatives of professional societies, representatives of trade associations, representatives of non-governmental organizations, representatives of companies that only private-brand label products (made by another manufacturer) covered by STP 1640, and other individuals, etc. that are not covered by the other interest categories.

Supply Chain: Component producers for an STP responsible for standards covering end-products or end-product producers for an STP responsible for standards covering components; installers, distributors, and retailers. Manufacturers who have no manufacturing facilities for the products covered by UL 1640, but solely use contract manufacturers to make the products are considered part of the Supply Chain interest category. Wholesale or retail purchase-resellers for products made by other companies are also considered as part of the Supply Chain interest category.

Testing and Standards Organization: Organizations that test and/or certify products, services, or systems covered by UL 1640, or that develop standards/codes related to the products, services, or systems covered by UL 1640.

If you are interested in applying for membership on STP 1640, visit the [STP Application Page](#) to complete and submit an application for STP 1640 to UL. You will be informed of the status of your application soon after it is received by UL.

NATEAC calls for presenters

The North American Theatre Engineering and Architecture Conference (NATEAC) is a quadrennial event featuring sessions on diverse topics relevant to the design and construction of performance venues throughout North America. The NATEAC producers are accepting session proposals for the upcoming conference to be held in July in New York City. The 2020 conference theme is loosely wrapped around music venues: large, small, new and old, repurposed, professional, non-profit, and community. Climate change and its impact on performance venues also will be highlighted.

Proposed session topics should be contemporary and of a caliber to match the stature of the audience. Proprietary product or process discussions are discouraged. Outright infomercials are forbidden. Please note that, in order to provide ample time for attendee participation at each session, the number of presenters for each session will be limited.

Please send proposal details, including potential presenters, to Bill@NATEAC.org.

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

United States of America Notification USA/1545

Date issued: 6 November 2019

Agency responsible: Environmental Protection Agency (EPA)

National inquiry point: USA WTO TBT Enquiry Point

Products covered: Chemical substances

Title: Significant New Use Rules on Certain Chemical Substances (19-4.F) (15 pages in English)

Description of content: Proposed rule - EPA is proposing significant new use rules (SNURs) under the Toxic Substances Control Act (TSCA) for 26 chemical substances which were the subject of premanufacture notices (PMNs). Five of these chemical substances are subject to Orders issued by EPA pursuant to TSCA, and the remaining 21 of these chemical substances received a "not likely to present an unreasonable risk" determination pursuant to TSCA. This action would require persons who intend to manufacture (defined by statute to include import) or process any of these 26 chemical substances for an activity that is proposed as a significant new use to notify EPA at least 90 days before commencing that activity. The required notification initiates EPA's evaluation of the use, under the conditions of use for that chemical substance, within the applicable review period. Persons may not commence manufacture or processing for the significant new use until EPA has conducted a review of the notice, made an appropriate determination on the notice, and has taken such actions as are required by that determination. [TSM note: Some of the chemicals listed are used in electrical equipment coatings, ink-jet printer ink, pet litter, epoxy curing agents, paint, as plastics intermediaries, and adhesives for wood.]

Objective and rationale: Protection of human health or safety; Protection of the environment

Relevant documents: 84 Federal Register (FR) 59335, 4 November 2019; Title 40 Code of Federal Regulations (CFR) Part 721: <https://www.govinfo.gov/content/pkg/FR-2019-11-04/html/2019-23388.htm> or <https://www.govinfo.gov/content/pkg/FR-2019-11-04/pdf/2019-23388.pdf>

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 4 December 2019

Full text URL: <https://www.govinfo.gov/content/pkg/FR-2019-11-04/pdf/2019-23388.pdf>

European Union Notification EU/689

Date issued: 4 November 2019

Agency responsible: EU-TBT Enquiry Point

National inquiry point: EU-TBT Enquiry Point

Products covered: Hazardous substances

Title: Draft Commission Delegated Regulation amending for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (6 pages + Annex 12 pages in English)

Description of content: The purpose of this draft proposal for a fifteenth adaptation to technical progress of Regulation (EC) 1272/2008 on classification, labelling and packaging of substances and mixtures (the CLP Regulation) is to amend Table 3 of Part 3 of Annex VI to the CLP Regulation, by introducing new and revised entries for the harmonised classification and labelling of 60 substances and by deleting 2 entries. It also amends Notes J to N, Note P and Note R in Part 1 of Annex VI.

Objective and rationale: Protection of human health and the environment, ensuring the proper functioning of the EU internal market.

Relevant documents: Regulation (EC) 1272/2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (OJ L 353, 31.12.2008, p. 1.): <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:EN:PDF>

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 3 January 2020

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/EU/full_text/pdf/EU689\[1\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/EU/full_text/pdf/EU689[1](english).pdf) and [https://tsapps.nist.gov/notifyus/docs/wto_country/EU/full_text/pdf/EU689\[2\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/EU/full_text/pdf/EU689[2](english).pdf)

Ukraine Notification UKR/156

Date issued: 4 November 2019

Agency responsible: Ministry of Economic Development and Trade

National inquiry point: WTO National Enquiry Point & Information Processing Centre

Products covered: Electrical and electronic equipment

Title: The Draft of the Resolution of Cabinet of Ministers of Ukraine «On Amendments to the Resolution of Cabinet of Ministers of Ukraine dated March 10, 2017 No.139» (8 pages in Ukrainian)

Description of content: The Draft of the Resolution provides for the postponement of expiration terms of certain exceptions from the restrictions of use of certain hazardous substances in electrical and electronic equipment, supplement by certain components and materials of electrical and electronic equipment.

Objective and rationale: The Draft of the Resolution has been developed in order to bring the provisions of the Technical Regulation in compliance with the standards of the EU Directive by making appropriate changes to the Annexes.

Relevant documents: G/TBT/N/UKR/106, G/TBT/N/UKR/106/Add.1, G/TBT/N/UKR/150, G/TBT/N/UKR/150/Add.1

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 3 January 2020

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/UKR/full_text/pdf/UKR156\(ukrainian\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/UKR/full_text/pdf/UKR156(ukrainian).pdf)

European Union Notification EU/691

Date issued: 7 January 2019

Agency responsible: EU-TBT Enquiry Point

National inquiry point: EU-TBT Enquiry Point

Products covered: Gunshot containing lead

Title: Draft Commission Regulation amending Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as regards lead in gunshot in or around wetlands (7 pages + Annex 4 pages in English)

Description of content: This draft Regulation would amend entry 63 to Annex XVII to Regulation (EC) No 1907/2006. It would prohibit the discharging and possession of gunshot made of lead or containing a concentration equal to or greater than 1% of lead by weight in or within 400 metres of wetlands.

Objective and rationale: To avoid the death of around 1 million waterbirds/year due to lead poisoning; to reduce human exposure via the environment to lead, a toxic metal

Relevant documents:

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH Regulation): <http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1423064258789&uri=CELEX:32006R1907>

- Annex XV dossier for restriction and opinions of ECHA Committees

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 6 January 2020

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/EU/full_text/pdf/EU691\[1\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/EU/full_text/pdf/EU691[1](english).pdf) and [https://tsapps.nist.gov/notifyus/docs/wto_country/EU/full_text/pdf/EU691\[2\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/EU/full_text/pdf/EU691[2](english).pdf)

New Zealand Notification NZL/92

Date issued: 7 November 2019

Agency responsible: Environmental Protection Authority (EPA)

National inquiry point: Standards New Zealand

Products covered: This notification covers all chemical substances that meet the definition of "hazardous substance" in Section 2 of the Hazardous Substances and New Organisms (HSNO) Act 1996, and that exceed the thresholds set in the Hazardous Substances (Minimum Degrees of Threshold) Notice 2017. This is equivalent to the coverage of the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Title: Consultation Document: Implementation of the Globally Harmonized System of Classification and Labelling of Chemicals, Revision 7 (2017) (60 pages, in English)

Description of content: This consultation document is seeking input on a range of proposals related to moving New Zealand from its current hazard classification system for hazardous substances, which dates from 2001, to Revision 7 (2017) of the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS). This consultation document also includes an exposure draft of the new Hazardous Substances (Classification) Notice, the legislation that implements the classification system for hazardous substances under the Hazardous Substances and New Organisms (HSNO) Act 1996.

Objective and rationale: Adopting the GHS 7 system will ensure an internationally aligned classification system for hazardous substances that facilitates trade, increases efficiency in chemicals management, and enhances the effectiveness of the HSNO Act.

Relevant documents: Consultation Document (incl exposure draft of Hazardous Substances (Classification) Notice): <https://www.epa.govt.nz/public-consultations/open-consultations/proposal-to-change-the-classification-system-for-hazardous-substances-in-new-zealand/> GHS 7th revised edition, 2017 to be incorporated by reference into the Classification Notice:

https://www.unece.org/trans/danger/publi/ghs/ghs_rev07/07files_e.html)

Proposed date of adoption: 1 April 2021

Proposed date of entry into force: Not given by country

Final date for comments: 9 January 2020

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/NZL/full_text/pdf/NZL92\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/NZL/full_text/pdf/NZL92(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 9 December 2019

BSR/NECA 101-202x, Standard for Installing Steel Conduits (RMC, IMC, EMT) (revision of ANSI/NECA 101-2006 (R2013))

This standard describes installation procedures for steel rigid metal conduit (RMC), steel intermediate metal conduit (IMC), and steel electrical metallic tubing (EMT). Conduit with PVC coating is included.

Single copy price: \$25.00 (NECA members), \$55.00 (nonmembers)

Obtain an electronic copy from: neis@necanet.org

Send comments to: Aga Golriz, Aga.golriz@necanet.org

Due 16 December 2019

BSR/IES LM-90-202x, IES Approved Method: Measuring and Quantifying Temporal Light Artifacts (TLA) (new standard)

Define and describe the method of measurements, calculated quantities, and reporting structure related to TLA. In addition, the method describes the required measurement tolerances, in order to reduce the effect of measurement sensitivities in calculated quantities.

Single copy price: \$25.00

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

Due 23 December 2019

BSR/ASTM E3082-202x, Test Methods for Determining the Effectiveness of Fire Retardant Treatments for Natural Christmas Trees (revision of ANSI/ASTM E3082-2017)

https://www.astm.org/ANSI_SA

Single copy price: Free

Order from and send comments to: Laura Klineburger, accreditation@astm.org

BSR/ICC 500-202x, ICC/NSSA Standard for the Design and Construction of Storm Shelters (revision of ANSI/ICC 500-2014)

The objective of this standard is to provide technical design and performance criteria that will facilitate and promote the design, construction, and installation of safe, reliable, and economical storm shelters to protect the public. It is intended that this standard be used by design professionals; storm shelter designers, manufacturers, and constructors; building officials; emergency management personnel and government officials to ensure that storm shelters provide a consistently high level of protection to the sheltered public.

Single copy price: Free

Obtain an electronic copy from: <https://www.iccsafe.org/products-and-services/standards-development/is-stm/>

Send comments to: kpaarlberg@iccsafe.org

Note: Commenters may only comment on underline/strikethrough revisions.

BSR/IES LS7-202x, Lighting Science: Vision - Eye and Brain (new standard)

The purpose of this document is to describe and explain the human visual system, including its components in the eye and the brain. The structure and function of these various components are explained, as well as the ways in which individual people differ in their visual abilities. It is important to note that this document is not intended to provide comprehensive coverage on the subjects contained in this standard, but is intended to relate to lighting concepts.

Single copy price: \$25.00

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

BSR/IES LP-2-202x, Lighting Practice: Designing Quality Lighting for People in Outdoor Environments (new standard)

The charter of this Lighting Practice (LP) is to provide pedestrian-oriented lighting recommendations for the reassurance, safety, comfort, amenity, and enjoyment of pedestrians in outdoor environments. These recommendations provide a basis for lighting and space design, including the flexibility for multiple methods.

Single copy price: \$25.00

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

BSR/IES LM-54-202x, Approved Method: IES Guide to Lamp Seasoning (new standard)

This Approved Method applies to normal and accelerated seasoning of incandescent filament lamps, cathode fluorescent lamps, and high-intensity discharge (HID) lamps. Manufacturers' recommendations for seasoning should be followed for lamp types other than those listed above. Lamps intended for use as reference standards require special seasoning.

Single copy price: \$25.00

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

BSR/IES LM-77-202x, Approved Method: Intensity Distribution Measurement of Luminaires and Lamps using Digital Screen Imaging Photometry (new standard)

This IES Approved Method addresses the use of digital cameras incorporating a CCD array. However, it should be noted that other types of digital camera sensors, such as CID (charge-injection device) arrays, CMOS (complementary metal oxide semiconductor) arrays, and scanned photodiode arrays, could be acceptable for photometry. Requirements for accuracy and the special conditions for this form of light measurement are covered. The numerous factors to be taken into account for hardware selection and software development are described. Calibration requirements are specified, as are data-reduction techniques.

Single copy price: \$25.00

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

BSR/IES LM-82-202x, IES Approved Method for the Characterization of Optical and Electrical Properties of Solid-State Lighting Products as a Function of Temperature (new standard)

The purpose of this document is to establish consistent methods of measurement and data presentation for ease of interpretation and comparison, which will assist luminaire manufacturers in selecting suitable LED light engines and integrated LED lamps for each luminaire product. This approved laboratory method defines the procedures to measure optical and electrical properties as a function of temperature of LED light engines and integrated LED lamps. This document is also applicable to LED luminaires.

Single copy price: \$25.00

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

BSR/IES RP-6-202x, Recommended Practice: Lighting Sports and Recreational Areas (new standard)

The purpose of this Recommended Practice (RP) is to provide the reader with recommendations to aid in the design of sports lighting systems. Popular sports such as baseball, tennis, basketball and football, as well as recreational social activities such as horseshoe pitching and croquet are covered. Venues for spectators of amateur, collegiate, and professional sports are complex facilities that should provide not only for the spectators but also the equipment used in modern sports broadcasting. This document does not address the needs of broadcasting; for this, the reader should look for guidance from the sports league or the project consultant.

Single copy price: \$25.00

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

BSR/IES RP-7-202x, Recommended Practice: Lighting Industrial Facilities (revision of ANSI/IES RP-7-2017)

Industrial facilities can, at times, be hazardous environments; special-case needs and considerations should be given in general for safety; general lighting; moving components; and supplemental, task, safety, and emergency lighting. Emergency egress can, at times, be very time consuming due to workstation requirements. The primary purpose of this standard is to serve as a guide and educational tool for the design of permanently installed lighting systems for industrial facilities. This Recommended Practice deals entirely with lighting and does not give advice on the construction of a facility. The scope of this practice covers the design of new indoor and outdoor lighting systems for new industrial facilities as well as the redesign of lighting systems in existing industrial facilities. Recommendations are based on quality lighting practices, including the movement of vehicles and people, enhancing the productivity and comfort of employees, conserving energy, and minimizing maintenance. Recommended minimum maintained lighting levels and maximum uniformity ratio guidelines are provided but are subject to variation for special circumstances when based upon sound engineering judgment.

Single copy price: \$25.00

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

BSR/IES RP-28-202x, Recommended Practice: Lighting and the Visual Environment for Older Adults and the Visually Impaired (revision of ANSI/IES RP-28-2016)

As the workforce ages, the need for lighting guidance becomes more of a concern. It seems clear that the Baby Boomer generation (born in the years 1946 through 1964) will see aging very differently from their parents. They will take their current lifestyles and modify them slightly but will expect to continue contributing to society and be visible in day-to-day life. This group will represent more than one in four Americans.

Single copy price: \$25.00

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

BSR/SIMA 10-202x, Standard Practice for Procuring and Planning Snow and Ice Management Services (new standard)

This standard of practice covers essential procuring and planning for snow and ice management services. Standards for procuring and planning are essential for business continuity and to improve safety for patrons, tenants, employees and others in the general public. Knowing how to describe service requirements in a snow and ice management request for proposal (RFP) is an important component to providing effective services, particularly where winter weather is a variable. This standard practice provides guidance on the snow and ice management procurement and planning process to aid in the creation of RFPs, contracts, agreements, and monitoring procedures.

Single copy price: Free

Download a copy at www.sima.org/standards

Follow the instructions for submitting a public review comment at www.sima.org/standards

CSA public review announcements

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

Due 23 November 2019

C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4498, Clarification of voltage drop, Rule 8-102 1)a) (amendment)

Revise Rule 8-102 as shown.

8-102 Voltage drop (see Appendices B and D)

1) The voltage drop in an installation shall be based on the connected load of the feeder or branch circuit if known; otherwise it shall be based on 80% of the rating of the overload or overcurrent device protecting the branch circuit or feeder, and not exceed

a) 3% in a feeder or branch circuit; ~~or~~ and

b) 5% from the supply side of the consumer's service (or equivalent) to the point of utilization.

C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4500, Replace Rule 10-614 and Table 16 with 2015 CE Code Rule 10-814, Table 16A, and Table 16B (amendment)

(A) Revise Rule 10-614 by replacing it with Rule 10-814 from the 2015 CE Code as shown.

10-614 Size of system bonding jumper or bonding conductor (see Appendix B)

~~1) The size of a field-installed system bonding jumper shall not be less than that determined in accordance with Table 16 based on the ampere rating or setting of the overcurrent device protecting the ungrounded conductors.~~

~~2) The size of a bonding conductor installed in accordance with Rule 10-604 at service equipment shall not be less than that determined in accordance with Table 16 based on the allowable ampacity of the largest ungrounded conductor.~~

~~3) The size of a field-installed bonding conductor installed at other than service equipment shall not be less than that determined in accordance with Table 16 based on~~

~~a) the overcurrent device protecting the ungrounded conductors; or~~

~~b) the allowable ampacity of the largest ungrounded conductor for installations where the size of the circuit conductors is increased to compensate for voltage drop.~~

~~4) The size of a field-installed bonding conductor installed with each group of parallel conductors run in separate raceways or cables shall be in accordance with Subrule 3) divided by the number of groups of parallel conductors.~~

~~5) Notwithstanding Subrules 2), 3), and 4), the bonding conductor shall not be required to be larger than the current-carrying conductors.~~

~~6) A metal raceway that is permitted to be used as a bonding conductor shall be considered to meet the requirements of this Rule.~~

~~7) A bonding means that is integral to a cable assembly shall be considered to meet the requirements of this Rule.~~

1) The size of a bonding conductor or field-installed system bonding jumper shall be not less than that given in

a) Table 16A for wire and cable installations; or

b) Table 16B for busbar installations.

2) Notwithstanding the requirements of Rule 12-108, the size of the bonding conductor in each parallel run shall be permitted to be smaller than No. 1/0 AWG.

3) Where circuit conductors are paralleled in separate cables, raceways, or busbars, the bonding conductor shall be paralleled and the size of bonding conductor in each parallel run shall not be less than that specified in

a) Table 16A based on the size of the associated circuit conductors contained in the raceway or cable; or

b) Table 16B based on the ampacity of the associated busbar.

4) Notwithstanding Subrules 1), 2), and 3), the bonding conductor shall be permitted to be not larger than the largest ungrounded conductor in the circuit.

The proposal also rewrites the explanatory material in Appendix B and replaces Table 16 with Tables 16A and 16B from the 2015 CE Code.

C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4506, Connection of low voltage secondary neutrals to station ground electrode (amendment)

(A) Revise Subrule 36-308 6) as shown.

36-308 Connections to the station ground electrode (see Appendix B)

~~6) A transformer neutral on Except for low voltage secondary neutrals, the neutral conductor of solidly grounded neutral systems shall be connected to the station ground electrode by a copper conductor sized as follows:~~

~~a) conductors for grounding at the transformer primary and secondary neutrals, with a copper conductor sized shall be not less than No. 2/0 AWG and have sufficient ampacity to carry the maximum ground fault current of the transformer in accordance with Table 51, and this grounding conductor shall be in addition to the requirement of Subrule 2) b) i); and~~

~~b) notwithstanding Item a), conductors shall be sized in accordance with Section 10 provided that the size selected is suitable for the maximum ground fault current on the transformer secondary~~

(B) Revise Appendix B Note for Rule 36-308 6).

The explanation for the requested changes points out conflicts between existing CEC rules, particularly when two or more solidly grounded separately derived systems with distributed neutrals are interconnected.

Due 30 November 2019

C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4510, Add IEC conductor sizes and ampacities to Tables 1 through 4 (amendment)

The amendment does what the title says: It adds IEC wire sizes specified in mm² to the tables that now only show AWG wire sizes. This roughly doubles the choices of wire gauges that can be used.

DIN public review announcement

The Deutsches Institut für Normung has announced a draft document possibly of interest to *Standards Watch* readers that is open for public review until 11 December 2019. The cost is 82.60 € from Beuth Verlag. The document is in German. After you register with DIN at <http://www.entwuerfe.din.de/>, you may purchase and comment on DIN draft standards.

DIN 56927:2019-11, Veranstaltungstechnik - Sicherungsseil für zu sichernde Gegenstände bis 60 kg Eigengewicht - Maße, sicherheitstechnische Anforderungen und Prüfung (Entertainment technology - Safety-cable to secure objects up to 60 kg self weight - Measures, requirements and testing)

This document applies to the manufacture of safety cables used as protection against dropping objects within the meaning of BGV C1/GUV-V C1. The safety cable is also regarded as a "second suspension" according to DIN VDE 0711-217 (VDE 0711-217). The possible drop distance must not be greater than 0.2 m. Changes from the 2013-07 edition include

- (a) deletion of specifications for the use of shackles as connecting elements;
 - (b) revisions to the tables for ready-made wire ropes;
 - (c) deletion of the informative Appendix B "Chains as securing elements"; and
 - (d) miscellaneous editorial revisions and changes to adapt to the current state of the art.
-

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 ICEA S-90-661-202x, Standard for Category 3, 5, and 5e Individually Unshielded Twisted Pair Indoor Cables (with or without an Overall Shield) for Use in General Purpose and LAN Communication Wiring Systems - Technical Requirements (revision of ANSI/ICEA S-90-661-2012)

This standard establishes generic technical requirements that may be referenced by individual telecommunications cables specifications covering products intended for normal indoor premises use in the wiring systems of communications users.

Contact: Khaled Masri, Khaled.Masri@nema.org

BSR/C137.8-202X, Standard for Lighting Systems Lighting Control User Interface Elements (new standard)

This standard specifies user interface elements for use with lighting controls. It is applicable to hardware controls, software applications, displays, and documentation. This standard applies to user interface elements such as: lighting control in general, switching control, brightness control, dynamic control, color control, and other lighting control topics. This standard addresses visual control elements (terms, symbols, and colors), dynamic elements (indication and actuation), audio elements (sounds and words), and tactile elements (identification and actuation). This standard may incorporate generally accepted international symbols. This standard does not address ergonomic or safety issues associated with the deployment of user interface elements.

Contact: Michael Erbesfeld, Michael.Erbesfeld@nema.org

BSR/CTA 2048-A-202x, Host and Router Profiles for IPv6 (revision and redesignation of ANSI/CTA 2048-2014)

This document is to identify the required features and capabilities for stand-alone routers and hosts with support for IPv6 and related necessary protocols. Additional items to consider are support for IPv6 transition technologies and support for PCP (port configuration protocol). These requirements are referenced to available technical standards such as RFCs.

Contact: Veronica Lancaster, vlancaster@cta.tech

BSR/E1.69-202x, Reporting the Low-End Dimming Performance of Entertainment Luminaires Using LED Sources (new standard)

Right now, there is no way for an equipment specifier to see and compare the low-end dimming of a luminaire without actually looking at the unit, and then there is no way to tell another person what the specifier saw without using subjective terms. Marketing terms, such as "theatrical quality dimming" or "dims smoothly to black," seem to say something, but really have no objective meaning. The standard shall describe a way of showing the end-user or equipment specifier the low-end dimming performance of LED luminaires, when the luminaire output level is set by a control signal varying over the low-end range from 10% to 0%.

Contact: Karl Ruling, standards@esta.org

BSR/IES LM-37-202x, Approved Method: IES Guide for Determination of Average Luminance (Calculated) for Indoor Luminaires (new standard)

The methods of calculating average luminance, contained in this Guide, cover various open bottom apertures as well as flat and drop-lensed units including units, with multiple openings in the light emitting area. The candela values of interest are obtained by means of IES techniques for relative or absolute photometry, and are not obtained from field measurements in application. The concept and limitations of average luminance is addressed in this document. Although simple projected area examples are presented and more detailed area calculation methods are developed for reference purposes in Annex A, it remains the user's responsibility to seek out the most appropriate methods or formulas each time for determining the actual projected areas for a specific luminaire.

Contact: Patricia McGillicuddy, pmcgillicuddy@ies.org

BSR/IES LM-72-202x, Approved Method: IES Guide for Directional Positioning of Photometric Data (new standard)

Many early and current lighting programs use north as the starting point for luminaire orientation, with angles measured clockwise, as on a compass. Specifiers who expected pole-top installers to use compasses would often provide magnetic bearings as well. Users (designers, engineers, and steeplejacks) accustomed to these techniques would choose the CN system. Many computer-aided design (CAD) programs and many related lighting programs use east as the starting point for orientation, with angles measured counterclockwise. Users (designers, engineers, draftsmen, physicists, and mathematicians) accustomed to these methods would select the CCE system. This document is intended to provide a clearly defined set of terms to be used to designate the angular positioning of photometric data. The terms are intended to be used by both providers and users of lighting software so as to unambiguously and consistently specify how photometric data is to be rotated.

Contact: Patricia McGillicuddy, pmcgillicuddy@ies.org

BSR/IES LP-7-202x, Lighting Practice: Lighting Systems Contract Documents (new standard)

Lighting design is a process that requires careful planning, thoughtful choices, multi-disciplinary collaboration, and persistent shepherding in order for a creative concept to become a completed building or venue that can be occupied and enjoyed. To bring a project to successful fruition, a host of parties with disparate interests and skill sets will need to contribute toward that success. Excellent communication among the ownership, design, construction, and procurement teams is critical to achieving desired results. IES LP-7-xx covers the essential process that a lighting practitioner follows in concert with members of the building team; architects, engineers, owners, representatives, luminaire manufacturers, general and electrical contractors, and code officials.

Contact: Patricia McGillicuddy, pmcgillicuddy@ies.org

BSR/IES RP-10-202x, Recommended Practice: Lighting Common Applications (new standard)

There need not be anything commonplace about lighting for applications that are common to many building projects. Some of these applications, such as lobbies, make first impressions. Others, like conferencing and food

service, can be the amenities that set one employer apart from others. Lighting for these applications is important and can infuse a facility with uncommon character. Daylighting can be quite effective in addressing illuminances in many of these applications. This recommended practice primarily addresses design considerations and illuminance criteria for common areas, which should influence luminaire optical selections, light source choices, and final layouts.

Contact: Patricia McGillicuddy, pmcgillicuddy@ies.org

BSR/IES RP-31-202x, Recommended Practice: Economic Analysis of Lighting (new standard)

Good lighting should be responsive to the needs of the user. Among those needs are the aesthetic and the visual, as admitted in the oft-quoted “lighting is both a science and an art.” But the user also has economic needs. In fact, it is the economic needs that often drive the decision-making process when lighting systems are designed and purchased. Unfortunately, because they frequently control the final decision, economic concerns are often thought of as the antagonists of aesthetic and visual concerns. The lighting professional will tend to draw up a list of system desiderata, then heave a large sigh of resignation and say “but the budget won’t allow it” This recommended practice will help answer many types of lighting economic questions. It provides a framework for selecting from a group of competing lighting designs. It can help the lighting professional make energy conservation decisions. Most importantly, it provides methods for gauging the profitability of a capital investment in a lighting system, which can be objectively compared to other competing capital investments.

Contact: Patricia McGillicuddy, pmcgillicuddy@ies.org

BSR/IES RP-42-202x, Recommended Practice: Dimming Method Designations (new standard)

This Recommended Practice provides simple standard designations for open non-proprietary dimming and control methods and protocols for luminaires (including standalone lamps) and controllers. This document does not address the internal control techniques within a luminaire, although the designations may be applicable. Inclusion of dimming methods and control protocol designations in design and construction documents—especially luminaire and control schedules—provides clarity in selection of compatible dimming and control equipment. Manufacturers of luminaires, drivers, controllers, and lamps are encouraged to use these same designations to clearly identify dimming methods that are compatible with their products in data sheets. There are multiple dimming methods by which aesthetic, energy saving, and/or code-required control of luminaires may be achieved as an alternative to on/off switching. Lighting control devices and systems provide a wide variety of options for users with an equally wide variety of interfaces. These can range from simple and familiar switches, sliders, and dials to sensors and touch screens, and more recently mobile devices and Internet of Things (IoT) devices, many of which are still being developed. Regardless of how the communication between the user and the lighting system begins, the final stage of controlling light is the actual control of or communication with the luminaire (or its driver, ballast, or transformer).

Contact: Patricia McGillicuddy, pmcgillicuddy@ies.org

BSR/IES TM-28-202x, Approved Method: Projecting Long-Term Luminous Flux Maintenance of LED Lamps and Luminaires (new standard)

This document recommends the methods for projecting long-term luminous flux maintenance of LED lamps and luminaires using data obtained when testing them per IES LM-84-14, Approved Method for Measuring Lumen and Color Maintenance of LED Lamps, Light Engines, and Luminaires, as well as data when testing LED sources per IES LM-80-08, Approved Method for Measuring Lumen and Color Maintenance of LED Light Sources. The objective of this technical memorandum is to provide guidance and recommended procedures for sampling, test intervals and duration, and a method for long-term luminous flux maintenance projection for LED lamps and luminaires. The intent is to help product manufacturers and users, standards developing bodies, and other organizations to avoid any unnecessary burdens related to excessive product testing.

Contact: Patricia McGillicuddy, pmcgillicuddy@ies.org

BSR/IES/ALA RP-11-202x, Recommended Practice for Lighting for Interior and Exterior Residential Environments (revision of ANSI/IES/ALA RP-11-2017)

This recommended practice is a guide for designing and for teaching lighting. It covers residential living spaces and other areas intended to impart a residential atmosphere. It describes design objectives, criteria for quantity and quality of illuminance, lighting methods, types and uses of equipment, energy use, and electrical code considerations. Various solutions that address residential lighting problems are also presented. When the owner resident is known during the design phase, the residential living space can be made to embody the most detailed

aspects of lighting design due to the end user's emotional, intellectual, and personal involvement with the project. An astute designer will be able to address client preferences and convey their personality, while providing a lighting solution suitable to all potential users of the space. This type of project may take longer than anticipated whenever the client should connect with and approve of every detail.
Contact: Patricia McGillicuddy, pmcgillicuddy@ies.org

BSR/NFPA 1078-202x, Standard for Electrical Inspector Professional Qualifications (revision of ANSI/NFPA 1078-2019)

This standard identifies the minimum job performance requirements (JPRs) for electrical inspectors.
Contact: Dawn Michele Bellis, dbellis@nfpa.org

BSR/NFPA 1082-202x, Standard for Facilities Fire and Life Safety Director Professional Qualifications (revision of ANSI/NFPA 1082-2020)

This standard identifies the minimum job performance requirements (JPRs) for Building Fire and Life Safety Directors.
Contact: Dawn Michele Bellis, dbellis@nfpa.org

BSR/NFPA 654-202x, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (revision of ANSI/NFPA 654-2017)

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 78-202x, Guide on Electrical Inspections (revision of ANSI/NFPA 78-2019)

This document covers minimum criteria to aid in organizing and conducting electrical inspections, which includes administration, plans review, and field inspection, for new electrical installations and modifications to existing electrical installations in conformance with the AHJ requirements.
Contact: Dawn Michele Bellis, dbellis@nfpa.org

BSR/NFPA 780-202x, Standard for the Installation of Lightning Protection Systems (revision of ANSI/NFPA 780-2020)

This document shall cover 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. This document shall 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

BSR/NFPA 855-202x, Standard for the Installation of Stationary Energy Storage Systems (new standard)

This standard establishes criteria for minimizing the hazards associated with energy storage systems (ESS).
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.

Seven addenda to **ANSI/ASRHAE/ICC/USGBC/IES Standard 189.1-2017**:

- **ANSI/ASRHAE/ICC/USGBC/IES Addendum ad** to ANSI/ASRHAE/ICC/USGBC/IES Standard 189.1-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017): 1 November 2019

- **ANSI/ASRHAE/ICC/USGBC/IES Addendum ag** to ANSI/ASRHAE/ICC/USGBC/IES Standard 189.1-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017): 1 November 2019
- **ANSI/ASRHAE/ICC/USGBC/IES Addendum al** to ANSI/ASRHAE/ICC/USGBC/IES Standard 189.1-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017): 1 November 2019
- **ANSI/ASRHAE/ICC/USGBC/IES Addendum am** to ANSI/ASRHAE/ICC/USGBC/IES Standard 189.1-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017): 1 November 2019
- **ANSI/ASRHAE/ICC/USGBC/IES Addendum k** to ANSI/ASRHAE/ICC/USGBC/IES Standard 189.1-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017): 1 November 2019
- **ANSI/ASRHAE/ICC/USGBC/IES Addendum n** to ANSI/ASRHAE/ICC/USGBC/IES Standard 189.1-2019, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017): 1 November 2019
- **ANSI/ASRHAE/ICC/USGBC/IES Addendum y** to ANSI/ASRHAE/ICC/USGBC/IES Standard 189.1-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017): 1 November 2019

ANSI/ASTM E119-2019, Test Methods for Fire Tests of Building Construction and Materials (revision of ANSI/ASTM E119-2015): 22 October 2019

ANSI/AWS F4.2-2019, Safety Guidelines for Proper Selection of Welding Cables (new standard): 4 November 2019

ANSI/CSA C22.2 No. 184.2-2019, Solid-state controls for lighting systems (SSCLS) (new standard): 22 October 2019

ANSI/IES TM-21-2019, IES Approved Method: Projecting Long Term Lumen, Photon and Radiant Flux Maintenance of LED Light Sources (new standard): 28 October 2019

ANSI/NFPA 25-2020, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems (revision of ANSI/NFPA 25-2017): 25 August 2019

ANSI/NFPA 58-2020, Liquefied Petroleum Gas Code (revision of ANSI/NFPA 58-2017): 25 August 2019

ANSI/NFPA 70-2020, National Electrical Code (revision of ANSI/NFPA 70-2017): 25 August 2019

ANSI/NFPA 130-2020, Standard for Fixed Guideway Transit and Passenger Rail Systems (revision of ANSI/NFPA 130-2013): 25 August 2019

ANSI/NFPA 302-2020, Fire Protection Standard for Pleasure and Commercial Motor Craft (revision of ANSI/NFPA 302-2015): 25 August 2019

ANSI/NFPA 654-2020, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (revision of ANSI/NFPA 654-2017): 25 August 2019

ANSI/NFPA 801-2020, Standard for Fire Protection for Facilities Handling Radioactive Materials (revision of ANSI/NFPA 801-2014): 25 August 2019

ANSI/NFPA 855-2020, Standard for the Installation of Stationary Energy Storage Systems (new standard): 25 August 2019

ANSI/PMI 19-006-2019, Standard for Earned Value Management (EVM) (new standard): 29 October 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.

65/777/CD, IEC 62872-2 ED1: Internet of Things (IoT) – Application framework for industrial facility demand response energy management, 2 December 2019

ISO/DIS 10667-1, Assessment service delivery - Procedures and methods to assess people in work and organizational settings – Part 1: Requirements for the client, 6 January 2020, \$82.00

ISO/DIS 10667-2, Assessment service delivery - Procedures and methods to assess people in work and organizational settings – Part 2: Requirements for service providers, 6 January 2020, \$88.00

23/877/CD, IEC 63044-3/AMD1 ED1: Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 3: Electrical safety requirements, 10 January 2020

23/878/CD, IEC 63044-5-1/AMD1 ED1: Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-1: EMC requirements, conditions and test set-up, 10 January 2020

23/879/CD, IEC 63044-5-2/AMD1 ED1: Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light-industrial environments, 10 January 2020

23/880/CD, IEC 63044-5-3/AMD1 ED1: Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-3: EMC requirements for HBES/BACS used in industrial environments, 10 January 2020

JTC1-SC25/2914/CD, ISO/IEC 24383 ED1: Information technology - Physical network security for the accommodation of customer premises cabling infrastructure and information technology equipment, 10 January 2020

ISO 7010/DAMd107, Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 107: Safety sign M055: Keep out of reach of children, 23 January 2020, \$29.00

ISO 7010/DAMd108, Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 108: Safety sign E064: First aid responder, 23 January 2020, \$29.00

124/83/NP, PNW 124-83: Smart Body Area Network (SmartBAN) Part1; Enhanced Ultra-Low Power Physical Layer, 24 January 2020

124/84/NP, PNW 124-84: Smart Body Area Network (SmartBAN) - Part 2: Low Complexity Medium Access Control (MAC) for SmartBAN, 24 January 2020

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 [ANSI Webstore](#).

IEC 61784-3-12 Amd.1 Ed. 1.0 en:2019, Amendment 1 – Industrial communication networks - Profiles - Part 3-12: Functional safety fieldbuses - Additional specifications for CPF 12, \$12.00

IEC 61784-3-12 Ed. 1.1 en:2019, Industrial communication networks Profiles - Part 3-12: Functional safety fieldbuses – Additional specifications for CPF 12, \$528.00

IEC 62026-3 Ed. 3.0 b cor.2:2019, Corrigendum 2 – Low-voltage switchgear and controlgear - Controller-device interfaces (CDIs) - Part 3: DeviceNet, \$0.00

IEC 62430 Ed. 2.0 b:2019, Environmentally conscious design (ECD) - Principles, requirements and guidance, \$235.00

ISO/IEC 15444-1:2019, Information technology - JPEG 2000 image coding system - Part 1: Core coding system, \$232.00

ISO/IEC 15444-15:2019, Information technology - JPEG 2000 image coding system - Part 15: High-Throughput JPEG 2000, \$209.00

ISO/IEC 17029:2019, Conformity assessment - General principles and requirements for validation and verification bodies, \$162.00

ISO/IEC 23008-8/Amd1:2019, Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 8: Conformance specification for HEVC - Amendment 1: Conformance testing for HEVC screen content coding (SCC) extensions and non-intra high throughput profiles, \$19.00

ISO/IEC 30146:2019, Information technology - Smart city ICT indicators, \$103.00

IWA 30-1:2019, Competence of standards professionals - Part 1: In companies, \$162.00

IWA 30-2:2019, Competence of standards professionals - Part 2: In standards-related organizations, \$185.00

TSP January 2020 meeting schedule

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

Control Protocols E1.20 TG	14:00 – 18:00	Wednesday 15 January 2020
Control Protocols E1.37-4 TG	19:00 – 23:00	Friday 17 January 2020
Control Protocols E1.37-5 TG	19:00 – 23:00	Wednesday 15 January 2020
Control Protocols E1.59 Automation Feedback TG	08:00 – 23:00	Thursday 16 January 2020
Control Protocols E1.68 Compliance TG	14:00 – 18:00	Thursday 16 January 2020
Control Protocols Next Gen Library	19:00 – 23:00	Saturday 18 January 2020
Control Protocols Next Gen Overall CG	14:00 – 18:00	Friday 17 January 2020
Control Protocols Working Group	09:00 – 11:30	Friday 17 January 2020
Event Safety Fire Safety TG	09:00 - 13:00	Saturday 18 January 2020
Event Safety Rigging Task Group	09:00 - 13:00	Friday 17 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	15:00 - 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	14:00 - 18:00	Thursday 16 January 2020
Technical Standards Council	09:00 - 13:00	Sunday 19 January 2020

ESTA Standards Watch

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