

ESTA Standards Watch

May 2023 Volume 27, Number 9

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Seven ESTA standards in public review

Seven standards are in public review on the ESTA Technical Standards Program website at http://estalink.us/pr. Two are existing American National Standards being considered for reaffirmation (the ones with "ANSI" in their alphanumeric designation). Five are new standards (the ones with "BSR" in their alphanumeric designation). Comments on all of them are due no later than June 26. Comments submitted on June 27 will be too late.

ANSI E1.8, Entertainment Technology - Loudspeaker Enclosures Intended for Overhead Suspension - Classification, Manufacture and Structural Testing, is being considered for reaffirmation. The standard covers the requirements for loudspeaker enclosures intended for overhead suspension, but addresses only the structural

characteristics of the enclosure pertaining to its suspension, such as enclosure construction, component part security, enclosure suspension hardware, manufacturing control systems, structural testing, and product representation.

BSR E1.21, 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. It is a revision of ANSI E1.21-2020 that includes updates to accommodate current technology, and to harmonize with changes in building code requirements.

BSR ES1.40, Event Safety – Security, is written to help reduce the risk of harm to people and their property while they attend music, sports, cultural, corporate, and other events and mass gatherings. This standard is expressly intended to be a companion piece to ANSI ES1.9-2020, Crowd Management, in that event security is an essential component of crowd management, and some of the reasonably foreseeable risks and risk mitigation strategies will overlap. It distinguishes between privately retained or volunteer security providers, and public safety officials such as police, sheriffs, constables, or firefighters who perform crowd control.

ANSI E1.46, Standard for the Prevention of Falls from Theatrical Stages and Raised Performance Platforms, is being considered for reaffirmation. The users of theatrical stages and raised platforms can suffer debilitating injuries from falls into orchestra pits, open stage lifts, and similar openings in stage floors. Health and safety regulations require action to prevent these falls, but offer little guidance that is suitable for theatrical environments. This document provides that guidance.

BSR E1.64, Stage Machinery Controls, establishes minimum requirements for the design, manufacture, installation, commissioning, inspection, operation, and maintenance of machinery control equipment in the entertainment Industry including equipment that is used in production, touring, and temporary or permanent installation.

BSR E1.71, Powered Curtain Machines, establishes requirements for the design, manufacture, installation, inspection, and maintenance of machines intended for the movement of curtains. Curtains operated by these machines may be for scenery, performance, presentation, acoustical dampening, museum exhibits, retail displays, and theatrical production. Control systems, mechanical construction, and powertrain components of these machines are included in its scope, but the fabric or other curtain material, tracks and track components, are not included in its scope.

BSR E1.76, Tension Wire Grids, provides guidance on the design and installation of tensioned wire rope grids, including loading and support or suspension from structure. It provides deflection criteria for the woven mesh and structural frame as a walking/working system, and also provides guidance on the size of openings permissible in the surface. The scope includes fall protection and edge protection for the entirety of the walking/working surface.

Nine new ESTA TSP projects

ESTA has announced nine standards development projects—new standards or revisions—to ANSI. If you would like to get involved in drafting the new or revised standards, please join the appropriate working group. Working group applications are available at https://tsp.esta.org/tsp/documents/procedural_docs.html. (There's a synopis of the standards development process there, too.) Alternatively, you can simply wait for the documents to come into public review and comment then. That's helpful, too! ANSI procedures also give you until the the deadline noted to file an objection with ESTA to ESTA's start of the project, e.g., "No, don't do it!"

Control Protocols Working Group

BSR/E1.11, Entertainment Technology-USITT DMX512-A, Asynchronous Serial Digital Data Transmission Standard for Controlling Lighting Equipment and Accessories (revision of ANSI E1.11-2008 (R2018)) E1.11 describes a protocol for transmitting digital data used to control entertainment lighting equipment and accessories. There is a requirement in the existing standard that is impossible to meet. The solution in the field

has been to ignore the requirement, but a better solution would be to revise the standard. The deadline for filing an objection is the end of day EDT on June 11.

BSR/E1.73-1, Next Generation Entertainment Control Model: Uniform Device Representation, Core **Document** (new standard)

The BSR E1.71, the UDR project, is being broken into parts to make it easier to write in bits rather than as a magnum opus. This part, BSR E1.73-1, defines essential structures and uses of the data model and structures used in an E1.73 Uniform Device Representation standards suite. The E1.73 suite provides a framework by which manufacturers of entertainment equipment can describe controllable and visualizable devices in a digital format. The framework will enable the provision of descriptive information about devices and their state, including both parameters and physical properties, and the metadata needed to describe them. A standard method will be provided to map controllable parameters to existing control endpoints. The deadline for filing an objection is the end of day EDT on June 11.

BSR/E1.73-2, Core Definitions for E1.73-1 Next Generation Entertainment Control Model: Uniform Device Representation (new standard) This part, E1.73-2, provides core definitions for the E1.73 suite. The deadline for filling an objection is the end of day EDT on June 11.

BSR/E1.73-3, Intensity/Color Definitions for E1.73-1 Next Generation Entertainment Control Model: Uniform Device Representation (new standard)

This part iof E1.73, BSR E1.73-3, provides intensity/color definitions. The deadline for filing an objection is the end of day EDT on June 11.

BSR/E1.73-4, Motion Definitions for E1.73-1 Next Generation Entertainment Control Model: Uniform Device Representation (new standard)

This part of the E1.73 suite, E1.73-4, defines types of motion with lighting equipment. The deadline for filing an objection is the end of day EDT on June 11.

Electrical Power Working Group

BSR E1.80, 19-pin connector pinout assignments, recommends particular contactassignments for 19-pin Socapex-style connectors used for various types of power distribution systems in the entertainment industry. It will establish standardized pinout assignments and type designations in order to reduce connection incompatibilities, thereby reducing the risk of shock and electrocution hazards, and the potential for equipment damage. 19-pin Socapex-style connectors are used in many different types of entertainment technology systems, but the connector pinout assignments are not consistent across the various system configurations. This has resulted in reports of equipment damage, and the potential for shock or electrocution. The deadline for filing an objection is the end of day EDT on June 18.

Event Safety Working Group

ES1.42, **Parade Safety**, will address the unique public safety considerations associated with parades. It will expand on ANSI E1.57 – 2016 (R2021), and will apply some of the principles addressed in ANSI ES1.9 – 2020, as applicable specifically to parades. No standards currently exist to address the public safety and operational considerations for parades. The deadline for filing an objection is the end of day EDT on June 18.

Floors Working Group

BSR E1.60, **Guidelines for the use of raked stages in live performance environments**, is a project to revise ANSI E1.60 – 2018. The standard provides guidance for the use of raked stages in live performance environments. The standard intends to define a rake and to offer guidance for production elements to mitigate the risks for the protection of actors and technicians. ANSI E1.60 – 2018 is being opened for regular maintenance and to update its requirements. The deadline for filing an objection is the end of day EDT on June 18.

Rigging Working Group

BSR E1.1, Wire Rope Ladders, is a project to revise ANSI E1.1 – 2018. The sttandard describes the construction and use of wire rope ladders in the entertainment industry in order to promote worker safety. Wire rope ladders are used where ladders with rigid rails are impractical to use or would pose a greater danger. The standard is

being opened for revision to update it and to incorporate referenced standards. The deadline for filing an objection to the project is the end of day EDT on June 18.

A fatter October Plugfest

The ESTA Control Protocols Plugfest has been expanded from three days to four days, from 5 October through 8 October 2023, at the Marriott Dallas/Fort Worth in Westlake, Texas. ESTA's Plugfest is an opportunity to connect your lighting products with those of other manufacturers to resolve compatibility challenges. Attendees from around the world bring controllers, automated lights, control protocol analyzers, and other network-connected components to improve their product experiences. The scheduled hours are 09:00 to 23:00 CDT, Thursday thru Sunday. Members of the E1.11 (DMX512), E1.20 (RDM), E1.31 (sACN), and E1.33 (RDMnet) task groups who helped develop the standards will be available to answer questions and to offer assistance.

A larger than usual turnout is anticipated, so please send an email to plugfest@esta.org to express your interest in attending to reserve a spot. More information is available at http://tsp.esta.org/tsp/news/plugfest.html.

WTO Technical Barrier to Trade notifications

The World Trade Organization has announced Technical Barrier to Trade filings that may be of interest to *Standards Watch* readers. If you have a problem with a TBT, you can protest through your representative to the World Trade Organization.

United States of America Notification USA/1986

Notification date: 2 May 2023

Agency responsible: Department of Natural Resources and Environmental Control, Division of Air Quality,

State of Delaware

Enquiry point: usatbtep@nist.gov

Products covered: Low emission vehicle program; Environmental protection; Air quality; Road vehicle

systems

Title: Low Emission Vehicle Program (12 pages in English)

Description of content: The purpose of this action is to amend 7 DE Admin. Code 1140, to update the adoption by reference of California's Advanced Clean Cars II low emission vehicle and greenhouse gas standards and add the requirements for zero emitting vehicles for model year 2027 and beyond.

Objective and rationale: Protection of the environment

Relevant documents: Vol. 26, Issue 10, Delaware Register of Regulations 1 April 2023 (pp.823-824): https://regulations.delaware.gov/register/april2023/proposed/26%20DE%20Reg%20823%2004-01-23.htm WTO Members and their stakeholders are asked to submit comments to the USA TBT Enquiry Point. Comments received by the USA TBT Enquiry Point from WTO Members and their stakeholders by 4pm Eastern Time on 26 May 2023 will be shared with the regulator if received within the comment period.

Proposed date of adoption: To be determined **Proposed date of entry into force:** To be determined

Final date for comments: 26 May 2023

Full text: https://members.wto.org/crnattachments/2023/TBT/USA/23 9367 00 e.pdf

United States Of America Notification USA/1988

Notification date: 4 May 2023

Agency responsible: Environmental Protection Agency (EPA) [2019]

Enquiry point: usatbtep@nist.gov

Products covered: Methylene chloride (Dichloromethane); Production in the chemical industry; Products of

the chemical industry

Title: Methylene Chloride; Regulation Under the Toxic Substances Control Act (63 pages in English) **Description of content:** The Environmental Protection Agency (EPA) is proposing to address the unreasonable risk of injury to human health presented by methylene chloride under its conditions of use as documented in EPA's June 2020 Risk Evaluation for Methylene Chloride and November 2022 revised risk determination for methylene chloride prepared under the Toxic Substances Control Act (TSCA). TSCA requires that EPA address by rule any unreasonable risk of injury to health or the environment identified in a TSCA risk

evaluation and apply requirements to the extent necessary so that the chemical no longer presents unreasonable risk. Methylene chloride, also known as dichloromethane, is acutely lethal, a neurotoxicant, a likely human carcinogen, and presents cancer and non-cancer risks following chronic exposures as well as acute risks. Central nervous system depressant effects can result in loss of consciousness and respiratory depression, resulting in irreversible coma, hypoxia, and eventual death, including 85 documented fatalities from 1980 to 2018, a majority of which were occupational fatalities. Nevertheless, methylene chloride is still a widely used solvent in a variety of consumer and commercial applications including adhesives and sealants, automotive products, and paint and coating removers. To address the identified unreasonable risk, EPA is proposing to: prohibit the manufacture, processing, and distribution in commerce of methylene chloride for consumer use; prohibit most industrial and commercial uses of methylene chloride; require a workplace chemical protection program (WCPP), which would include a requirement to meet inhalation exposure concentration limits and exposure monitoring for certain continued conditions of use of methylene chloride; require recordkeeping and downstream notification requirements for several conditions of use of methylene chloride that would otherwise significantly disrupt national security and critical infrastructure.

Objective and rationale: Protection of human health or safety; Protection of the environmen Relevant documents: 88 Federal Register (FR) 28284, 3 May 2023; Title 40 Code of Federal Regulations (CFR) Part 751: https://www.govinfo.gov/content/pkg/FR-2023-05-03/pdf/2023-09184.pdf
This proposed rule is identified by Docket Number EPA-HQ-OPPT-2020-0465. The Docket Folder is available on Regulations.gov at https://www.regulations.gov/docket/EPA-HQ-OPPT-2020-0465/document and provides access to primary documents as well as comments received. Documents are also accessible from Regulations.gov by searching the Docket Number. WTO Members and their stakeholders are asked to submit comments to the USA TBT Enquiry Point by or before 4pm Eastern Time on 3 July 2023. Comments received by the USA TBT Enquiry Point from WTO Members and their stakeholders will be shared with the regulator and will also be submitted to the Docket on Regulations.gov if received within the comment period.

G/TBT/N/USA/1891 - Methylene Chloride; Draft Revision to Toxic Substances Control Act (TSCA) Risk Determination; Notice of Availability and Request for Comment identified by Docket Number EPA-HQ-OPPT-2016-0742.

Proposed date of adoption: To be determined **Proposed date of entry into force:** To be determined

Final date for comments: 3 July 2023

Full text: https://members.wto.org/crnattachments/2023/TBT/USA/23_09440_00_e.pdf

United Kingdom Notification GBR/62 Notification date: 4 May 2023

Agency responsible: Department for Science, Innovation and Technology (DSIT)

Enquiry point: TBTEnquiriesUK@trade.gov.uk

Products covered: This notification covers consumer connectable products defined as a 'internet-connectable' product or a 'network-connectable' product. In scope products include but are not limited to:

- smartphones
- connectable cameras, TVs and speakers
- connectable children's toys and baby monitors
- connectable safety-relevant products such as smoke detectors and door locks
- Internet of Things base stations and hubs to which multiple devices connect
- wearable connectable fitness trackers
- outdoor leisure products, such as handheld connectable GPS devices that are not wearables
- connectable home automation and alarm systems
- connectable appliances, such as washing machines and fridges
- smart home assistants

Laptops, PCs, medical devices, tablets without a cellular connection, smart charge points, and smart metering products are out of scope.

Title: Draft of the Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) Regulations 2023 (10 pages in English)

Description of content: The draft of the Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) Regulations 2023 supplement Part 1 of the Product Security and Telecommunications Infrastructure Act 2022 as notified to the TBT Committee under symbol

G/TBT/N/GBR/44. The draft Regulations set out the UK government's intended minimum security requirements for manufacturers of consumer connectable products made available to UK consumers. They also include a list of products intended to be excepted from the regulatory regime. The draft Regulations also set out additional administrative provisions relating to statements of compliance, which are required to be provided alongside products.

Objective and rationale: The objective of this measure is to protect consumers and businesses in the UK and the wider infrastructure. Consumer connectable products (also known as consumer Internet of Things (IoT)) are becoming commonplace in millions of homes around the world and uptake of these products increased further as a result of the COVID-19 pandemic. Many of these products on the market today still have basic flaws, such as universal default passwords, which leave them vulnerable to cyberattacks such as DDoS (Distributed Denial of Service) attacks. Cyber criminals are increasingly targeting these products. The UK government's Product Security and Telecommunications Infrastructure Act 2022, taken alongside the draft of the Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) Regulations, represent widely recognised good practice, and regulation was strongly supported in a 2019 consultation on regulatory options.

Since 2018, the UK government has worked in partnership with international organisations including ETSI (European Telecommunications Standards Institute), to develop Technical Specification 103 645 in February 2019, and European Standard (EN) 303 645 v2.1.1 in June 2020. These outputs are the product of intense feedback from representatives from up to 65 countries. The Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) Regulations will mandate requirements based on paragraphs 5.1-1, 5.1-2, 5.2-1 and 5.3-13 of European Standard (EN) 303 645 v2.1.1. Prevention of deceptive practices and consumer protection

Relevant documents:

- Product Security and Telecommunications Infrastructure Act 2023 can be found here: https://www.legislation.gov.uk/ukpga/2022/46/contents
- The Impact Assessment from the Department for Digital, Culture, Media and Sport for the Product Security and Telecommunications Infrastructure (Product Security) regime can be found here (also attached): https://publications.parliament.uk/pa/bills/cbill/58-03/0003/amend/PSTI_IA_reintro_0510.pdf
- 3. Proposals for regulating consumer smart product cyber security call for views 2020:https://www.gov.uk/government/publications/proposals-for-regulating-consumer-smart-productcyber-security-call-for-views/proposals-for-regulating-consumer-smart-product-cyber-security-call-for-
- 4. The government response to that call for views can be found here: https://www.gov.uk/government/publications/regulating-consumer-smart-product-cyber-securitygovernment-response

Proposed date of adoption: Anticipated in 2023 Proposed date of entry into force: 29 April 2024

Final date for comments: 60 days from notification, 4 July 2023

Canada Notification CAN/695 Notification date: 8 May 2023

Agency responsible: Department of Innovation, Science and Economic Development

Enquiry point: enquirypoint@international.gc.ca

Comments can also be submitted by email in electronic format (Microsoft Word or Adobe PDF):

spectrumengineering-genieduspectre@ised-isde.gc.ca

Products covered: Telecommunications

Title: Consultation on RSS-198, Issue 1 (8 pages, available in English and French)

Description of content: Notice is hereby given by the Ministry of Innovation, Science and Economic

Development Canada has amended the following standard:

RSS-198 Issue 1, Flexible Use Broadband Equipment Operating in the Band 3900-3980 MHz, sets out the requirements for the certification of flexible use broadband equipment used in fixed and/or mobile services operating in the frequency band 3900-3980 MHz.

Objective and rationale: Consultation Relevant documents: Not applicable Proposed date of adoption: Not applicable

Proposed date of entry into force: Not applicable

Final date for comments: 14 July 2023

Full text: The electronic version of the regulatory text can be found and comments be submitted at https://www.rabc-cccr.ca/ised-radio-standards-specification-rss-198-issue-1-may-2023-flexible-use-broadband-equipment-operating-in-the-band-3900-3980-mhz/ (English), https://www.rabc-cccr.ca/fr/isde-cahier-des-charges-sur-les-normes-radioelectriques-cnr-198-1er-edition-mai-2023-materiel-a-large-bande-a-utilisation-flexible-exploite-dans-la-bande-de-3-900-3-980-mhz/">https://www.rabc-cccr.ca/fr/isde-cahier-des-charges-sur-les-normes-radioelectriques-cnr-198-1er-edition-mai-2023-materiel-a-large-bande-a-utilisation-flexible-exploite-dans-la-bande-de-3-900-3-980-mhz/">https://www.rabc-cccr.ca/fr/isde-cahier-des-charges-sur-les-normes-radioelectriques-cnr-198-1er-edition-mai-2023-materiel-a-large-bande-a-utilisation-flexible-exploite-dans-la-bande-de-3-900-3-980-mhz/">https://www.rabc-cccr.ca/fr/isde-cahier-des-charges-sur-les-normes-radioelectriques-cnr-198-1er-edition-mai-2023-materiel-a-large-bande-a-utilisation-flexible-exploite-dans-la-bande-de-3-900-3-980-mhz/

ANSI public review announcements

The following documents have been announced for public review by ANSI and may be of material interest to *Standards Watch* readers. If you have comments on them, please send your comments before the deadline to the person indicated and to ANSI's Board of Standards Review at psa@ansi.org.

Due 5 June 2023

BSR/A3 R15.08-2-202x, Industrial Mobile Robots - Safety Requirements - Part 2: Requirements for IMR system(s) and IMR application(s) (new standard)

This document specifies safety requirements for the integration and deployment of industrial mobile robot (IMR) systems and IMR applications. It describes basic hazards associated with IMR systems or applications in an industrial environment, and provides requirements to eliminate, or adequately reduce, the risks associated with these hazards. IMRs incorporate mobile platforms that can be either autonomous mobile robots (AMRs), or where an industrial robot manipulator is combined with the mobile platform, automated guided vehicles (AGVs). Passenger-carrying vehicles and non-industrial mobile robots are out of scope for this document. Single copy price: \$225.00 for non-members; \$190.00 for members of A3

Obtain an electronic copy from and send comments to standards@automate.org

BSR/ASME A18.1-202x, Safety Standard for Platform Lifts and Stairway Chairlifts (revision of ANSI/ASME A18.1-2020)

This safety standard covers the design, construction, installation, operation, inspection, testing, maintenance, and repair of inclined stairway chairlifts and inclined and vertical platform lifts intended for transportation of a mobility-impaired person only.

Single copy price: Free!

Access and offer comments at https://cstools.asme.org/csconnect/PublicReviewPage.cfm

BSR/NECA 100-202X, Symbols for Electrical Construction Drawings (revision of ANSI/NECA 100-2006 (R2013))

This publication describes graphic symbols used to represent electrical wiring and equipment on construction drawings. In this publication, the term"electrical" is used to include electrical, electronic, and communications systems covered by the National Electrical Code (NFPA 70). This publication also summarizes recommended drawing practices for electrical construction drawings.

Single copy price: Member- \$30.00/Nonmember- \$60.00

Access and offer comments at https://neca-neis.org/about-neis/neis-review

BSR C81.61-202X, Electric Lamp Bases - Specifications for Bases (Caps) for Electric Lamps (revision of ANSI C81.61-2019)

This standard sets forth the specifications for bases (caps) used on electric lamps.

Single copy price: \$500.00

Order from and send comments to michael.erbesfeld@nema.org

Due 12 June 2023

BSR/ASHRAE Addendum 62.1ab-202x, Ventilation and Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2022)

Using CO₂ to control outdoor air ventilation rates, called Demand Control Ventilation (DCV), has become increasingly popular to achieve energy savings in buildings that have varying occupancy rates. This proposed addendum adds differential CO₂ concentration limits above ambient to Table 6-1 specifically for use with CO₂ DCV systems. CO₂ limits shown in Table 6-1 are the differential concentration above ambient. In recognition of the uncertainty due to the range of assumptions, and for ease of use, the resulting differential CO₂ concentration limits

were then rounded off to the nearest multiple of 300 ppm. Some occupancies have CO₂ limits listed as "NA", meaning DCV is not applicable. This public review draft shows changes from the previous public review. Single copy price: \$35.00

Access and offer comments at https://www.ashrae.org/technicalresources/standards-and-guidelines/public-review-drafts

BSR/GBI 02-202x, Green Globes Assessment Protocol for Existing Buildings (new standard)

The standard includes criteria and practices for resource-efficient, healthy, resilient, and environmentally preferable construction of commercial existing buildings. Six areas of green building design will be included: environmental, social, and governance management, site, energy, water, materials, and indoor environment quality.

Single copy price: Paper \$25.00 USD; Online \$0 USD

Acces and offer comments at https://thegbi.org/green-building-standards/green-building-standards-eb/

BSR/HSI 2000-202X, Performance Standard: Healthcare Germicidal Light Whole-Room Surface Disinfection (new standard)

An American committee of infection control professionals, researchers, industrial hygienists, microbiologists, physicians, ultraviolet experts, and equipment manufacturers convened to write a patient-centric performance standard to assist healthcare facilities evaluate and rate the plethora of germicidal light offerings. Certified BioSafety Level 2 third party testing facilities are to perform the testing. Germicidal light emitters of various wavelengths and form factors are eligible for testing to this performance standard in high fidelity patient care test rooms. Emitters may undergo testing in a patient room/bathroom, operating room, or both. Specifications are provided regarding the healthcare test room's size, temperature, humidity, reflectance, and furnishings. Realworld healthcare associated infection (HAI) pathogens (C. diff & MRSA) are inoculated onto material and texture specific carriers with 104 to 105 microbes per carrier. 50 sites are specified in each test room as most likely to be contaminated and pose the greatest risk to the patient. At each of the 50 sites, only the carrier with the higher log10 reduction is utilized for awarding points per the rubric in enclosed tables is used to determine the letter grade for the system based upon the sum of points awarded at each site.

Single copy price: Free!

Order from and send comments to Lee Webster < webster@ingenesis.com>

BSR/NECA 500-202X, Recommended Practice 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 1,000 volts or less installed indoors and commonly used in commercial and retail buildings, including, but not necessarily limited to, 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; (5) Track lighting systems. In addition to luminaires, this standard includes construction materials related to luminaires, including, but not necessarily limited to, lamps, conductors, wiring methods, various special screws and clips, and structural suspension components.

Single copy price: Member- \$30.00/Nonmember- \$60.00

Access and offer comments at https://neca-neis.org/about-neis/neis-review

BSR/SERI R2v3 (3.1)-202x, The Sustainable Electronics Reuse & Recycling (R2) Standard (addenda to ANSI/SERI R2-V3-2020)

The quantity of photovoltaic (PV) modules and other associated equipment in the market is increasing. Once this PV equipment reaches the end of its first use, sustainable solutions for its safe and environmentally sound reuse and recycling are required. The review and revision of the R2 Standard to include PV equipment will ensure that R2 facilities that handle PV modules identify key risks associated with processing this equipment; and R2 facilities are enabled to demonstrate their operations meet the defined R2 sustainable practices for processing PV modules; and provide generators of PV equipment insight into how it is safely and sustainably managed. Single copy price: Free!

Access and offer comments at https://sustainableelectronics.org/r2-pv-public-comments/

BSR/UL 1686-202x, The Standard for Safety for Pin and Sleeve Configurations (revision of ANSI/UL 1686-2014 (R2018))

This fifth edition of the Standard for Pin and Sleeve Configurations is being proposed as a Trinational Standard with ANCE and CSA.

Single copy price: Free!

Access and offer comments at https://csds.ul.com/ProposalAvailable

BSR/UL 4200A-202x, UL Standard for Safety for Products Incorporating Button or Coin Cell Batteries of Lithium Technologies (revision of ANSI/UL 4200A-2021)

(1) Proposed revision of title of standard and standard scope; (2) Proposed addition of 5.4A Tension Test – Seams; (3) Proposed revision of 5.6 to provide clarification to captive screws exemptions; (4) Proposed clarification to 5.5 - opens with two independent and simultaneous movements; (5) Proposed addition of definitions for Hand-Held Products and Portable Devices and proposed revision to Drop Test; (6) Proposed addition of Compression Test; (7) Proposed addition of Torque Test; (8) Proposed addition of Tension Test; (9) Proposed revision to 6.3.5.1 to increase applied force in Compliance for Accessibility Probe Compliance Test; (10) Proposed revisions for requirements for Marking 7A General; (11) Proposed revisions for requirements for 7B Packaging Markings; (12) Proposed revisions for requirements for 7C Product Markings; (13) Proposed addition of 7E Permanence of Markings requirements; (14) Proposed addition of Instructions 8A General clause 8A.1, 8A.2, and 8A.3.

Single copy price: Free!

Access and offer comments at https://csds.ul.com/Home/ProposalsDefault.aspx

Due 19 June 2023

BSR/ASHRAE Standard 224-202x, Standard for the Application of Building Information Modeling (new standard)

ASHRAE Standard 224-202x provides minimum requirements for the application of Building Information Modeling (BIM) to the planning, design, construction, and operation of buildings. This standard defines how to incorporate BIM requirements in design, construction, and operations services contracts.

Single copy price: \$35.00

Access and offer comments at http://www.ashrae.org/standards-research--technology/public-reviewdrafts

BSR/ASME A13.1-202x, Scheme for the Identification of Piping Systems (revision of ANSI/ASME A13.1-2020)

This standard establishes a common system to assist in identification of fluids conveyed in piping and their characteristics. The standard describes requirements for the identification of aboveground piping used in industrial, commercial, transmission, distribution, and institutional installations, and in buildings used for public assembly. It does not apply to electrical conduits. An alternative system for identification is acceptable if (a) the system is described in writing, (b) employees are trained to recognize the contents of the piping based on the system, and (c) the system meets local jurisdictional requirements.

Single copy price: Free

Obtain an electronic copy from https://cstools.asme.org/csconnect/PublicReviewPage.cfm Send comments to Riad Mohamed MohamedR@asme.org

BSR/B11.0-202x, Safety of Machinery (revision of ANSI B11.0-2020)

This type-A standard applies to new, existing, modified or rebuilt power driven machines, not portable by hand while working, that are used to process materials by cutting; forming; pressure; electrical, thermal or optical techniques; lamination; or a combination of these processes. This includes associated equipment used to transfer material or tooling, including fixtures, to assemble/disassemble, and to inspect or test. The associated equipment, including logic controller(s) and associated software or logic together with the machine actuators and sensors, are considered a part of the industrial machinery.

Single copy price: \$199.00

Order from and send comments to David Felinski <dfelinski@b11standards.org>

BSR/TIA 568.7-202x, Balanced single twisted-pair cabling and components standard for industrial premises (new standard)

Create a standard for defining the transmission requirements for industrial cabling and components supporting single balanced twisted-pair cabling for MICE2 and MICE3 environments. Specify components that meet the transmission requirements for cabling for industrial premises. This standard establishes performance and technical criteria in support of single-pair applications such as Ethernet.

Single copy price: \$146.00

Order from and send comments to Teesha Jenkins < standards-process@tiaonline.org>

Due 27 June 2023

BSR/UL 8802-202x, Standard for Safety for Ultraviolet (UV) Germicidal Equipment and Systems (new standard)

This proposal is to create a new ANS for Ultraviolet (UV) Germicidal Equipment and Systems. This standard covers UV Germicidal Equipment, UV Emitter Assemblies, UV Germicidal Systems, UV Germicidal Retrofit Kits, and Contained UV Germicidal Equipment intended for installation and use in accordance with the U.S. National Electrical Code (NEC), ANSI/NFPA 70 and in accordance with the Canadian Electrical Code, Part I (CEC), CSA C22.1. This standard does not apply to UV equipment covered by other (UL or CSA) standards for safety. Single copy price: Free

Access and offer comments at https://csds.ul.com/ProposalAvailable

CSA public review announcement

The CSA Group has announced a proposal 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 9 June 2023

Z797, Code of practice for access scaffold

The purpose of this standard is to provide criteria for the safe erection, use, and inspection of access scaffold (as covered in CSA S269.2 and engineered systems) and for the training of erectors and users of such equipment. This standard applies to the erection, use, and inspection of access scaffold, and training requirements for access scaffold that is supported on a surface; hung from multiple points, but is not capable of moving vertically or horizontally; or mounted on wheels. It addresses key hazards, including fall hazards, structural instability, platform failures, and material handling issues.

DIN public review announcements

The Deutsches Institut für Normung has announced documents possibly of interest to *Standards Watch* readers open for public review from 12 May until 12 July 2023. After you register with DIN at http://www.entwuerfe.din.de/, you may purchase a copies of the draft standards from Beuth Verlag. They are in German.

Due 12 July 2023

DIN 56920-3, Veranstaltungstechnik - Begriffe für bühnentechnische Einrichtungen im Theater

(Entertainment technology - Terms for stage equipment in the theater)

Dieser Norm-Entwurf legt Begriffe für bühnentechnische Einrichtungen in Veranstaltungs- und Produktionsstätten sowie für deren Betrieb erforderlichen Anlagenteile fest.

(This draft standard specifies terms for stage equipment in event and production facilities as well as components required for their operation.)

DIN 56929, Veranstaltungstechnik - LED-Wandsysteme und Zubehör, Schnittstellen und sicherheitstechnische Anforderungen (Entertainment Technology - LED wall systems and accessories, interfaces and safety requirements)

Dieses Dokument gilt für LED-Wandsysteme die als Arbeitsmittel der Veranstaltungs- und Medientechnik temporär aber auch als dauerhaft ortsfeste Einrichtungen für Veranstaltungen und Produktionen zusammengestellt und in Betrieb genommen werden. Es macht Vorgaben und gibt Hinweise zur Herstellung, Bereitstellung, Installation, Nutzung und Außerbetriebnahme von LED-Wandsystemen. Festgelegt werden konstruktive und sicherheitstechnische Anforderungen an LED-Wandsysteme, ihre Bestandteile und deren

Wechselwirkung insbesondere unter Beachtung der aus dem modularen Aufbau möglichen Konfigurationen. Hierbei wird insbesondere die vorwiegende Installation als Lasten über oder im direkten Einflussbereich von Personen berücksichtigt. Dieses Dokument legt darüber hinaus die Mindestanforderungen an die zwischen Hersteller und Benutzer auszutauschenden Informationen und die erforderlichen Angaben über die bestimmungsgemäße Verwendung von LED-Wandsystemen fest. Aus dem Bauordnungsrecht können zusätzliche Anforderungen an LED-Wandsysteme entstehen, wenn diese als bauliche Anlagen einzuordnen sind.

(This document applies to LED wall systems that are assembled and commissioned as temporary or permanently fixed event and media technology equipment for events and productions. It specifies requirements and provides information on the manufacture, provision, installation, use and decommissioning of LED wall systems. It specifies design and safety requirements for LED wall systems, their components and their interaction, in particular taking into account the configurations possible from the modular design. In particular, the predominant installation as loads above or in the direct sphere of influence of persons is taken into account. This document also specifies the minimum requirements for the information to be exchanged between the manufacturer and the user and the necessary information on the intended use of LED wall systems. Additional requirements for LED wall systems may arise from the building code if they are classified as structural installations.)

DIN 56950-5, Veranstaltungstechnik - Maschinentechnische Einrichtungen - Teil 5: Sicherheitstechnische Anforderungen an Elektrokettenzugsysteme (Entertainment technology - Machinery installations - Part 5: Safety requirements for electric chainhoist systems)

Dieser Norm-Entwurf gilt für Elektrokettenzugsysteme in der Veranstaltungs- und Produktionstechnik. In solchen Systemen werden Elektrokettenzüge und Steuerungen unterschiedlicher Bauart und Ausrüstung eingesetzt. Sie werden temporär und zeitlich begrenzt für Veranstaltungen und Produktionen zusammengestellt und in Betrieb genommen. Hierbei handelt es sich um Systeme aus Elektrokettenzügen nach DIN EN 14492-2 und/oder Kettenzügen, die die sicherheitstechnischen Anforderungen an maschinentechnische Einrichtung im Sinne der DIN 56950-1 erfüllen. Die Steuerungen von Elektrokettenzugsystemen sind nach DIN EN 60204-32 und/oder entsprechend der Anforderungen der DIN 56950-1 ausgeführt.

Elektrokettenzugsysteme müssen dem Anwendungsfall entsprechende Sicherheitsniveaus bezüglich der mechanischen und steuerungstechnischen Ausrüstung erreichen (siehe DIN 56950-1). Dabei werden folgende Anwendungsfälle unterschieden: - Halten von Lasten ohne Aufenthalt von Personen im Gefahrenbereich; - Bewegen von Lasten ohne Aufenthalt von Personen im Gefahrenbereich (Lasten über Personen); - Bewegen von Lasten mit Aufenthalt von Personen im Gefahrenbereich (Lasten über Personen); - Bewegen von Personen während künstlerischer Vorführungen und deren Proben. Dieses Dokument gilt nicht für die in der Veranstaltungs- und Produktionstechnik eingesetzten Lastaufnahmemittel und Anschlagmittel.

Dieser Norm-Entwurf definiert auch die Mindestanforderungen an die zwischen Hersteller und Benutzer auszutauschenden Informationen und die erforderlichen Angaben über die bestimmungsgemäße Verwendung der Kettenzugsysteme.

Die in diesem Teil 5 definierten Abweichungen gegenüber der DIN 56950-1 beruhen auf den besonderen Einsatzbedingungen für Elektrokettenzugsysteme und lassen sich nicht auf andere maschinentechnische Einrichtungen übertragen. Ortsfeste, dauerhaft in Veranstaltungs- und Produktionsstätten installierte maschinentechnische Einrichtungen sind immer nach DIN 56950-1 auszuführen.

(This draft standard applies to electric chain hoist systems in event and production technology. Electric chain hoists and control systems of various designs and equipment are used in such systems. They are assembled and put into operation temporarily and for a limited period of time for events and productions. These are systems consisting of electric chain hoists in accordance with DIN EN 14492-2 and/or chain hoists that meet the safety requirements for mechanical equipment as defined in DIN 56950-1. The control systems of electric chain hoist systems are designed in accordance with DIN EN 60204-32 and/or in accordance with the requirements of DIN 56950-1.

Electric chain hoist systems must achieve safety levels appropriate to the application in terms of mechanical and control equipment (see DIN 56950-1). A distinction is made between the following applications: - Holding loads without people being present in the danger zone; - Moving loads without people being present in the danger zone (loads above people); - Moving loads with people being present in the danger zone (loads above people); - Moving people during artistic performances and their rehearsals. This document does not apply to load lifting and slinging equipment used in event and production technology.

This draft standard also defines the minimum requirements for the information to be exchanged between the manufacturer and the user and the necessary data on the intended use of the chain hoist systems.

The deviations from DIN 56950-1 defined in this Part 5 are based on the special conditions of use for electric chain hoist systems and cannot be transferred to other mechanical engineering equipment. Stationary mechanical equipment permanently installed in event and production facilities must always be designed in accordance with DIN 56950-1.)

New ANS projects

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

BSR/BOMA Z65.3-202x, Gross Areas: Standard Methods of Measurement (revision of ANSI/BOMA Z65.3-2018)

The BOMA Gross Areas Standard was developed in direct response to requests for a floor measurement standard that could be applied to all building types and forms of occupancy—office, industrial, retail, multiunit residential, mixeduse and campus-style facilities. The Gross Areas Standard provides a comprehensive and consistent methodology for measuring all building types while presenting the data in ways that are useful to stakeholders. Contact Kia Lor <klor@boma.org>

BSR/ICC/THIA 1215-202x, Design, Construction, Inspection and Regulation of Tiny Houses for Permanent Occupancy (new standard)

This standard will provide minimum requirements for the design, construction, inspection, certification, and regulatory compliance of tiny houses used for permanent occupancy to assure public safety, sustainability, and resilience. The standard will include: consensus definitions for tiny houses and related terminology; prescriptive and performance based compliance methods for tiny house foundations and chassis; and plan review, inspection and certification requirements for tiny houses constructed onsite and off-site. The standard will address tiny houses built on a foundation and those with wheels and a permanent chassis intended for permanent occupancy. The 2021 International Residential Code (including Appendix AQ), and ICC/MBI Standards 1200 and 1205 will serve as the initial base documents with references to other existing standards. The standard will be written in mandatory code-intended language to support use by manufacturers and adoption by jurisdictions globally. This standard will not address tiny houses used for temporary or seasonal occupancy, or tiny house community development or microgrids.

Contact Karl Aittaniemi <kaittaniemi@iccsafe.org>

BSR/C137.11-202X, Standard for Lighting Systems - Configuration Requirements for Networked Lighting Control Systems that Respond to Grid Signals (new standard)

This standard defines requirements for networked lighting control systems that modify demand in response to grid signals, that may be communicated to the system from a Building Management System (BMS), directly from the grid, or from other external sources. These demand modifications are distinct from other control strategies implemented by networked lighting control systems, such as occupancy and daylighting. This standard specifies configuration requirements and does not specify the communication protocol or handling of confidential information.

Contact Michael Erbesfeld < Michael. Erbesfeld @nema.org >

BSR/ASTM E2159-202x, Standard Guide for Selection, Assignment, and Monitoring of Persons To Be Utilized as Assessors/Auditors or Technical Experts (new standard)

In a situation where an organization is performing an evaluation of another, either formally or informally, the single most important element in the evaluation may well be the selection and assignment of a properly qualified assessor/assessment team to perform an on-site assessment. Therefore, it is imperative that the person(s) performing the assessment be selected and assigned with care by the assessing organization. Two basic types of individuals normally participate in an on-site assessment: assessors/auditors and technical experts; each perform separate functions.

Contact Laura Klineburger accreditation@astm.org>

BSR/NFPA 470-202x, Hazardous Materials/Weapons of Mass Destruction (WMD) Standard for Responders (revision of ANSI/NFPA 470-2022)

This standard provides minimum requirements for personnel responding to incidents involving hazardous materials and weapons of mass destruction (WMD). 1.1.1 Even numbered Chapters 4 through 44 identify the minimum levels of competence required by responders to emergencies involving hazardous materials/WMD. 1.1.1.1 Even numbered Chapters 4 through 44 apply to any individual or member of any organization who responds to hazardous materials/WMD incidents. 1.1.1.2 Even numbered Chapters 4 through 44 cover the competencies for Awareness Level Personnel, Operations Level Responders, Hazardous Materials Technicians, Incident Commanders, Hazardous Materials Officers, Hazardous Materials Safety Officers, and other Specialist Employees. 1.1.2 Odd numbered Chapters 5 through 45 identify the minimum job performance requirements (JPRs) for personnel at the scene of a hazardous materials/WMD incident at the following levels: awareness, operations, operations mission-specific, Hazardous Materials Technician, and Incident Commander. 1.1.3 Chapters 6 through 46 identify the levels of competence required of emergency medical services (EMS) personnel who respond to incidents involving hazardous materials or WMD. 1.1.3.1 Chapters 46 through 48 cover the requirements for all levels of certified EMS personnel in the out-of-hospital setting. 1.1.3.2 Chapter 46 is based on the premise that all emergency medical responder (EMR) and... [sic] Contact Dawn Michele Bellis deelis@nfpa.org>

BSR/NFPA 475-202x, Recommended Practice for Organizing, Managing, and Sustaining a Hazardous Materials/Weapons of Mass Destruction Response Program (revision of ANSI/NFPA 475-2022)

This recommended practice provides the minimum criteria for organizing, managing, and sustaining a hazardous material response program (HMRP) based on the authority having jurisdiction's (AHJ) function and assessed level of risk. A review of the laws, regulations, consensus standards, and guidance documents in addition to guidance for risk assessment, HMRP planning, resource management, staffing, training, health and medical issues, financial management, programs influences, and developing relationships are covered in this recommended practice.

Contact Dawn Michele Bellis < dbellis@nfpa.org >

BSR/NFPA 1225-202x, Standard for Emergency Services Communications (revision of ANSI/NFPA 1225-2022)

This standard identifies the minimum job performance requirements (JPRs) for Public Safety Telecommunications Personnel, and provides minimum requirements for the installation, maintenance, and use of emergency services communications systems.

Contact Dawn Michele Bellis < dbellis@nfpa.org>

Final actions on American National Standards

The documents listed below may be of interest to *Standards Watch* readers and have been approved by the ANSI Board of Standards Review or by an ANSI-Audited Designator on the date noted. "Final actions" means "done for now." No standard is ever finished.

ANSI C63.10 Corrigendum-2023, Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (revision of ANSI C63.10-2020), 10 April 2023

INCITS/ISO/IEC 19770-8:2020 [2023], Information technology - IT asset management - Part 8: Guidelines for mapping of industry practices to/from the ISO/IEC 19770 family of standards (identical national adoption of ISO/IEC 19770 -8:2020), 17 April 2023

INCITS/ISO/IEC 19770-11:2021 [2023], Information technology - IT asset management - Part 11: Requirements for bodies providing audit and certification of IT asset management systems (identical national adoption of ISO/IEC 19770 -11:2021), 17 April 2023

INCITS/ISO/IEC 24773-1:2019 [2023], Software and systems engineering - Certification of software and systems engineering professionals - Part 1: General requirements (identical national adoption of ISO/IEC 24773-1:2019), 17 April 2023

INCITS/ISO/IEC 24773-3:2021 [2023], Software and systems engineering - Certification of software and systems engineering professionals - Part 3: Systems engineering (identical national adoption of ISO/IEC 24773-3:2021), 17 April 2023

INCITS/ISO/IEC 23396:2020 [2023], Systems and software engineering - Capabilities of review tools (identical national adoption of ISO/IEC 23396:2020), 17 April 2023

INCITS/ISO/IEC 23531:2020 [2023], Systems and software engineering - Capabilities of issue management tools (identical national adoption of ISO/IEC 23531:2020), 17 April 2023

INCITS/ISO/IEC 25020:2019 [2023], Systems and software engineering - Systems and software quality requirements and evaluation (SQuaRE) - Quality measurement framework (identical national adoption of ISO/IEC 25020:2019), 17 April 2023

INCITS/ISO/IEC 25030:2019 [2023], Systems and software engineering - Systems and software quality requirements and evaluation (SQuaRE) - Quality requirements framework (identical national adoption of ISO/IEC 25030:2019), 17 April 2023

INCITS/ISO/IEC 26552:2019 [2023], Software and systems engineering - Tools and methods for product line architecture design (identical national adoption of ISO/IEC 26552:2019), 17 April 2023

INCITS/ISO/IEC 26560:2019 [2023], Software and systems engineering - Tools and methods for product line product management (identical national adoption of ISO/IEC 26560:2019), 17 April 2023

INCITS/ISO/IEC 26561:2019 [2023], Software and systems engineering - Methods and tools for product line technical probe (identical national adoption of ISO/IEC 26561:2019), 17 April 2023

INCITS/ISO/IEC 26562:2019 [2023], Software and systems engineering - Methods and tools for product line transition management (identical national adoption of ISO/IEC 26562:2019), 17 April 2023

INCITS/ISO/IEC 26580:2021 [2023], Software and systems engineering - Methods and tools for the feature-based approach to software and systems product line engineering (identical national adoption of ISO/IEC 26580:2021), 17 April 2023

ANSI C82.16-2023, Light Emitting Diode Drivers - Methods of Measurement (revision of ANSI C82.16-2022), 17 April 2023

ANSI C82.18-2023, Light Emitting Diode Drivers - Performance Characteristics (revision of ANSI C82.18-2022), 17 April 2023

ANSI/UL 2743-2023, Standard for Portable Power Packs (revision of ANSI/UL 2743-2020), 14 April 2023

ANSI/UL 2900-1-2023, Software Cybersecurity for Network-Connectable Products, Part 1: General Requirements (revision of ANSI/UL 2900-1-2020), 14 April 2023

ANSI/UL 1008S-2012 (R2023), Standard for Safety for Solid-State Transfer Switches (reaffirmation of ANSI/UL 1008S -2012 (R2018)), 19 April 2023

ANSI/ASHRAE/ICC/IES/USGBC Addendum ah to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020), 28 April 2023

ANSI/ASHRAE/ICC/IES/USGBC Addendum ai to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020), 28 April 2023

ANSI/ASHRAE/ICC/IES/USGBC Addendum an to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020), 28 April 2023

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ANSI/AWS D1.7/D1.7M-2023, Guide for Strengthening and Repairing Existing Structures (new standard), 24 April 2023

ANSI/CSA C22.2 No. 340-2023, Battery Management Systems (new standard), 25 April 2023

ANSI/IES LS-3-2020 (R2023), Lighting Science: Physics and Optics of Radiant Energy (reaffirmation of ANSI/IES LS-3-2020), 28 April 2023

ANSI/IES LS-4-2020 (R2023), Lighting Science: Measurement of Light - The Science of Photometry (reaffirmation of ANSI/IES LS-4-2020), 28 April 2023

ANSI/IES LM-73-2004 (R2023), Approved Method: For Photometric Testing of Entertainment Lighting Luminaires Using Incandescent Filament Lamps or High Intensity Discharge Lamps (reaffirmation of ANSI/IES LM-73-2004 (R2017)), 28 April 2023

ANSI/IES LM-86-2020 (R2023), Approved Method: Measuring Luminous Flux and Color Maintenance of Remote Phosphor Components (reaffirmation of ANSI/IES LM-86-2020), 28 April 2023

ANSI/IES TM-26-2020 (R2023), Approved Method: Projecting Catastrophic Failure of LED Packages (reaffirmation of ANSI/IES TM-26-2020), 28 April 2023

ANSI/UL 8400-2023, Standard for Safety for Virtual Reality, Augmented Reality and Mixed Reality Technology Equipment (new standard), 28 April 2023

ANSI/UL 723-2018 (R2023), Standard for Safety for Test for Surface Burning Characteristics of Building Materials (reaffirmation of ANSI/UL 723-2018), 27 April 2023

ANSI/UL 1778-2023, Standard for Safety for Uninterruptible Power Systems (revision of ANSI/UL 1778-2017), 28 April 2023

Draft IEC & ISO documents

This section lists proposed documents listed in ANSI's *Standards Action* that the IEC or the ISO or both are considering for approval and that may be of interest to *Standards Watch readers*. Anyone interested in reviewing and commenting should order a copy from their national representative and submit their comments through them.

Comments from US citizens on ISO documents must be sent to the ISO Team (<u>isot@ansi.org</u>), and must be submitted electronically in the approved ISO template as a Word document. US comments on IEC documents should be sent to Tony Zertuche, General Secretary, USNC/IEC, at ANSI's New York offices (<u>tzertuche@ansi.org</u>). ISO and IEC Drafts can be made available by contacting ANSI's Customer Service department, <u>sales@ansi.org</u>.

ISO/DIS 3864-3, Graphical symbols - Safety colours and safety signs - Part 3: Design principles for graphical symbols for use in safety signs, 13 July 2023, \$88.00

111/702/CD, IEC TS 63428 ED1: Guidance on material circularity considerations in environmentally conscious design, 14 July 2023

ISO/IEC DIS 5259-1, Artificial intelligence - Data quality for analytics and machine learning (ML) - Part 1: Overview, terminology, and examples, 15 July 2023, \$77.00

ISO/IEC DIS 5259-3, Artificial intelligence - Data quality for analytics and machine learning (ML) - Part 3: Data quality management requirements and guidelines, 15 July 2023, \$82.00

ISO/IEC DIS 5259-4, Artificial intelligence - Data quality for analytics and machine learning (ML) - Part 4: Data quality process framework, 15 July 2023, \$88.00

44/995/CDV, **IEC 62061/AMD1 ED2**: Amendment 1 - Safety of machinery - Functional safety of safety-related control systems, 21 July 2023

JTC1-SC43/53/NP, PNW TS JTC1-SC43-53 ED1: Information Technology - Brain-computer Interfaces - BCI data format for Non-Invasive brain information collection, 21 July 2023

JTC1-SC25/3148/CD, ISO/IEC 14763-5 ED1: Information technology - Implementation and operation of customer premises cabling - Part 5 Sustainability, 4 August 2023

Recently published ISO & IEC documents

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

ISO 21928-2:2023, Sustainability in buildings and civil engineering works - Sustainability indicators - Part 2: Framework for the development of indicators for civil engineering works, \$263.00

IEC 62769-103-4 Ed. 3.0 b:2023, Field Device Integration (FDI) - Part 103-4: PROFINET, \$278.00

IEC 62769-109-1 Ed. 3.0 b:2023, Field device integration (FDI) -Part 109-1: Profiles - HART and WirelessHART, \$329.00

IEC 62769-150-1 Ed. 2.0 b:2023, Field device integration (FDI) -Part 150-1: Profiles - ISA100, \$234.00

ISO/TS 5206-1:2023, Intelligent transport systems - Parking - Part 1: Core data model, \$263.00

ISO 13849-1:2023, Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design, \$263.00

ISO 22342:2023, Security and resilience - Protective security -Guidelines for the development of a security plan for an organization, \$77.00

TSP meeting schedule

The next set of TSP working group meetings will be held at the Marriott DFW hotel in bucolic Westlake, Texas near the Dallas/Ft. Worth Airport. The most up to date version of the meeting schedule and a link to "Reserve a Hotel Room" are at https://www.esta.org/ESTA/meetings.php.

Control Protocols Working Group	09:00 - 13:00 CDT	Saturday 22 July 2023
Electrical Power Working Group	19:00 – 23:00 CDT	Friday 21 July 2023
Event Safety Working Group	14:00 – 18:00 CDT	Saturday 22 July 2023
Floors Working Group	10:00 – 13:00 CDT	Friday 21 July 2023
Fog & Smoke Working Group	10:00 – 13:00 CDT	Thursday 20 July 2023
Followspot Working Group	14:00 – 15:00 CDT	Friday 21 July 2023
Photometrics Working Group	16:00 – 18:00 CDT	Friday 21 July 2023
Rigging Working Group	19:00 – 23:00 CDT	Saturday 22 July 2023
Stage Machinery Working Group	19:00 – 23:00 CDT	Thursday 20 July 2023
Technical Standards Council	09:00 - 13:00 CDT	Sunday 23 Jul;y 2023
Weapons Safety Working Group	14:00 – 18:00 CDT	Thursday 20 July 2023

ESTA Standards Watch

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Actors' Equity Association

Golden Sea Professional Lighting Provider

IATSE Local 728 IATSE Local 891

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.

INVESTOR (\$200-\$499; <20 employees/members)

Baxter Controls, Inc. ChamSix

Concept Smoke Systems Ltd. Bruce William Darden

lan Foulds Liberal Logic, Inc.

Luminator Technology Group

Lex NAMM

Texas Scenic Company

InterAmerica Stage, Inc. Lycian Stage Lighting

Niscon Inc.

Tomcat Staging, Lighting and Support Systems

Jessica Sanders

Sehr Gute GmbH David Thomas Techni-Lux

Tracy Underhill Ralph Weber

SUPPORTER (\$50 - \$2,999; >100 employees/members)

Harlequin Floors

SUPPORTER (\$50 - \$1,499; 20–100 employees/members)

High Output

InČord

iWeiss

Oasis Stage Werks

Stagemaker

SUPPORTER (\$50 - \$199; <20 employees/members)

Chip Scott Lighting Design

Matthew Douglas III

Beverly and Tom Inglesby

Inventions Guité **KASUGA**

Bill McCord

Motion FX

Syracuse Scenery and Stage Lighting Co., Inc.

Vincent Lighting Systems

Wuhan Zhongtian Jiaye Mechanical & Electrical Eng.

Northern Lights Electronic Design

Shanxi Tian Gong Sheng Optoelectronic Equipment

Technology Co.

Sigma Net

Stephen Vanciel

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