



Technical Standards Program

ESTA Standards Watch

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A quartet of ESTA standards in public review

Four ESTA standards—three new and one reaffirmation—are available for public review and comment on the ESTA website at <http://estalink.us/pr>. The downloads are free. Comments on three are due before 4 April 2023, the other before 25 April.

BSR E1.14, Entertainment Technology - Recommendations for Inclusions in Fog Equipment Manuals, is a project to reaffirm the existing standard. The standard applies to the instruction manuals for fog-making equipment manufactured for use in the entertainment industry. The standard was written to address concerns from ESTA dealers who were selling equipment with manuals that essentially said, “Fill with fluid. Plug in. Wait for light to go out. Make fog!” That’s seriously deficient. Fog users must have some general knowledge of the technology, have a clear understanding of how to operate the fog system, and be aware of the potential hazards related to the use of fog and fog systems. This standard establishes guidelines for manufacturers to provide the user with the necessary information for the safe and responsible use of fog equipment. This public review is to identify errors or serious omissions. Comments are due no later than 3 April, before April 4. April 4 is too late!

BSR E1.72, Powered Floor Machinery, establishes requirements for the design, manufacture, installation, inspection, operation, and maintenance of powered Stage Floor Machinery for performance, presentation, and theatrical production. It covers the machinery, mechanisms, machine safety devices, and control interface requirements for equipment and systems, installed permanently or temporarily. A non-exhaustive list of examples would include wagons, turntables, treadmills, slip stages, and trap covers. This draft reflects changes made as a result of the first public review comments. Comments also are due no later than 3 April.

The next two draft standards in public review are projects in the Event Safety Working Group, a working group formed in partnership with the Event Safety Alliance to update chapters from the *Event Safety Guide* and turn them into American National Standards. As American National Standards, it will be harder for people in charge of event management to ignore their good advice with the defense “Who knew?” when things go wrong.

BSR ES1.17, Electrical Safety & Lighting, applies to the application, assessment, and documentation of safe electrical working practices during the installation, event performance, and dismantling of event electrical systems and equipment. This includes the identification and assessment of specific event electrical hazards and the potential impacts of unsafe electrical working practices. Comments also are due no later than 3 April.

BSR ES1.2, Event Safety - Planning, Management, and Major Incident, describes a process for event organizers and supporting staff to create and implement event-related plans for health and safety management. This process includes a framework, guidelines, and recommended practices that can be used to reduce risk as much as reasonably practical and to respond appropriately when an incident occurs. Comments are due no later than 24 April 2023. The 25th is too late. Plan ahead to comment on planning!

Registration open for WTO events on climate change and plastics regulation

The World Trade Organization (WTO) has opened registration for March webcasts covering plastics regulation and regulatory cooperation on climate change.

Plastics Regulation (March 7)

The WTO's Thematic Session on Plastics Regulation will be moderated by David Jankowski, director of agricultural affairs, Office of the United States Trade Representative Executive Office of the President, with speaker Kate Beers, circular economy program lead at NIST. The session will provide an opportunity to share experiences and good practices in the area of plastic regulation and policy, which aim to minimize plastic waste leakage and plastic pollution while encouraging trade and innovation. Members and stakeholders will represent a variety of roles in the life cycle of plastic production, consumption, and end of life management.

Presentations will encompass current approaches to manage plastic waste and promote reuse, recycling, and innovation, including those that may involve certification or labeling, voluntary initiatives, suitability, costs and opportunities of viable alternatives, and supply chain and manufacturing considerations, with a focus on identification of best practices for facilitation of trade. The session also will address approaches to reduce plastic waste and plastic pollution, as well as to promote reuse, recycling, and innovation. It will also include information on how WTO Technical Barriers to Trade (TBT) principles contribute to effective policies to manage plastic waste and plastic pollution, among other topics.

[Access more information and register for the event.](#)

Regulatory Cooperation on Climate Change (March 7)

The WTO TBT Committee Thematic Session on Regulatory Cooperation between Members on Climate Change, moderated by Aashish Chandorkar, counsellor, Permanent Mission of India to the WTO, with speaker Alexa Burr, vice president of standards and segment services global industry services, American Petroleum Institute (API), will examine the role of technical regulations, standards, and conformity assessment procedures in contributing to members' strategies to address climate change. Members will share experiences and good practices on the adoption of technical regulations and standards that contribute to achieving the goals and principles of the United Nations Framework Convention on Climate Change (UNFCCC) and its Paris Agreement, while adhering to the disciplines of the TBT Agreement.

The session also will address:

1. What are the key challenges members face when adopting and implementing technical regulations in the area of trade and climate change?
2. How can developing countries be supported further in order to increase their participation in the development of, and conformance to, international standards related to trade and climate change?
3. How can government bodies help the private sector, including producers and innovators, build their capacity to understand trade and climate change standards?

[Access more information and register for the event.](#)

IWA 42, Net Zero Guidelines, for free

The ISO's IWA 42:2022, Net Zero Guidelines, is available for a free download from [ANSI](#) and [ISO](#). (Free! Cheap at twice the price.) This International Workshop Agreement provides guiding principles and recommendations to enable a global approach to achieving net-zero greenhouse gas emissions through alignment of voluntary initiatives and the adoption of standards, policies, and national and international regulation. Net-Zero is a goal for carbon neutrality to reduce harmful emissions. This supports the [United Nations Sustainable Development Goals](#), Goal #13, Climate Action – take urgent action to combat climate change and its impacts.

Gamble for good at the USITT Stage Expo

The Long Reach Long Riders and Behind the Scenes will host their annual fundraising raffle at the USITT Stage Expo March 16-18 in St. Louis, MO. This year's raffle will celebrate the 20th Anniversary of the Long Reach Long Riders annual charity motorcycle ride. The Riders, who have raised over \$1,000,000 for charity in their years of touring, will be riding June 3-9 in Southern California. The Behind the Scenes Boutique also will be open for business during the show featuring an assortment of industry-themed holiday decorations and the famous Long Reach Long Rider T-shirts and kazoos.

Tickets for the raffle are \$5 each or five for \$20 and can be purchased at the Behind the Scenes booth #821 throughout the show. Winning tickets for nine regular prizes and one grand prize will be drawn at 1pm on Saturday, the final day of Stage Expo. The prizes, provided by our generous donors, are: Grand Prize, Spotlight with Renderworks from Vectorworks; Ghostlight from Altman Lighting; American Express Gift Card from Barbizon; Event Safety Summit 2023 Registration from the Event Safety Alliance; Nespresso CitiZ Espresso Machine with Aeroccino Milk Frother from IA Stage; ETCNomad Education Edition with Gadget II from Musson Theatrical; \$250 Gift Certificate from Sapsis Rigging; Online CM-ET Basic Motor Course from Showtech Australia; USITT 2024 Full Conference Registration from USITT and a \$250 Gift Voucher to Production Advantage Powered by VLS from Vincent Lighting Systems.

For additional information about Behind the Scenes, visit www.behindthescenescharity.org or call 1-212-244-1421. For more information about the Long Reach Long Riders, visit www.lrlr.org.

WTO Technical Barrier to Trade notifications

The World Trade Organization has announced a Technical Barrier to Trade filing 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.

USA Notification USA 1966

Date issued: 14 February 2023

Agency responsible: Department of Resources Recycling and Recovery, State of California

National inquiry point: USA WTO TBT Enquiry Point, usatbtep@nist.gov

Products covered: Recycling, plastic content

Title: Plastic Content Reporting and Compliance (17 pages in English)

Description of content: Proposed rule - The Department of Resources Recycling and Recovery (CalRecycle) is proposing permanent regulations per Public Resources Code (PRC) section 14547 in response to Assembly Bill (AB) 793 that would adopt definitions for postconsumer recycled material, post-industrial recycled material, plastic material reclaimer, manufacturer of postconsumer recycled plastic, and clarify definitions for food-grade, and bottle-grade terms; recordkeeping and compliance requirements for beverage manufacturers; reporting

requirements for beverage manufacturers, plastic material reclaimers, and manufacturers of postconsumer recycled plastic; petition requirements for an association to petition CalRecycle's Director to adjust the minimum postconsumer recycled content standard; and, requirements for beverage manufacturers to submit corrective action plans and requests for reducing administrative penalties. These proposed regulations would also amend section 2100 to make clear that failure to file a required report correctly and accurately by a beverage manufacturer, a plastic material reclaimer, or a manufacturer of postconsumer

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

Proposed date of adoption: To be determined

Proposed date of entry into force: To be determined

Final date for comments: 21 March 2023

Full text: https://members.wto.org/crnattachments/2023/TBT/USA/23_1077_00_e.pdf

Canada Notification CAN 690

Date issued: 20 February 2023

Agency responsible: Department of Innovation, Science and Economic Development

National inquiry point: Canada's Notification Authority and Enquiry Point, enquiry@international.gc.ca

Products covered: Telecommunications

Title: Consultation on RSS-199, Issue 4 (10 pages, available in English and French)

Description of content: RSS-199 Issue 4, *Broadband Radio Service (BRS) Equipment Operating in the Band 2500–2690 MHz*, sets out the requirements for the certification of equipment used in the broadband radio service (BRS) operating in the frequency band 2500-2690 MHz.

Objective and rationale: Consultation

Final date for comments: 29 March 2023

Full text: The regulatory text can be found and comments submitted at

<https://www.rabc-cccr.ca/rss-199-draft-issue-4-broadband-radio-service-brs-equipment-operating-in-the-band-2500-2690-mhz/> (English)

<https://www.rabc-cccr.ca/fr/cnr-199-ebauche-de-la-4e-edition-materiel-du-service-radio-a-large-bande-srlb-fonctionnant-dans-la-bande-2-500-2-690-mhz/> (French)

Canada Notification CAN 693

Date issued: 21 February 2023

Agency responsible: Department of Innovation, Science and Economic Development

National inquiry point: Canada's Notification Authority and Enquiry Point, enquiry@international.gc.ca

Products covered: Telecommunications

Title: Consultation on RSS-247, Issue 3 (26 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-247 (Issue 3) *Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices*. This standard sets out certification requirements for radio apparatus operating in the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz employing frequency hopping, digital modulation and/or a combination (hybrid) of both techniques. It also includes licence-exempt local area network (LE-LAN) devices operating in the bands 5150-5250 MHz, 5250-5350 MHz, 5470-5725 MHz, 5725-5850 MHz, and 5850-5895 MHz as specified in SP-5150 MHz and in SMSE-012-22 *Decision on the Technical and Policy Framework for Radio Local Area Network Devices in the 5850-5895 MHz Band and for the Intelligent Transportation Systems in the 5895-5925 MHz Band*.

Objective and rationale: Consultation

Final date for comments: 3 May 2023

Full text: The regulatory text can be found and comments submitted at

<https://www.rabc-cccr.ca/ised-radio-standards-specification-rss-247-issue-3-february-2023-digital-transmission-systems-dtss-frequency-hopping-systems-fhss-and-licence-exempt-local-area-network-le-lan-devic/> (English)

<https://www.rabc-cccr.ca/fr/isde-cahier-des-charges-sur-les-normes-radioelectriques-cnr-247-3e-edition-fevrier-2023-systemes-de-transmission-numerique-stn-systemes-a-sauts-de-frequence-ssf-et-dispositifs-de-reseaux-lo/> (French)

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 27 March 2023

BSR/ASHRAE/ICC/IES/USGBC Addendum ao to BSR/ASHRAE/ICC/IES/USGBC Standard 189.1-202x, 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)

This draft modifies Section 10. Construction and Plans for Operation in the following ways. Section 10.4.2, IAQ Construction Management and System Startup, is modified to reference specific subsections of Standard 62.1 and to eliminate duplication. This section was previously modified by addendum ax which is published and available on the ASHRAE website. Section 10.7.1, building flush out requirements is deleted, because the committee believes it was little used due to practical limitations and lack of hard data on its effectiveness. The goal of additional ventilation prior to occupancy and during initial occupancy is met by requirements in new Sections 10.7.2 and 10.10.5. Section 10.7.2, Post-Construction, Pre-Occupancy IAQ monitoring of 36 constituents is deleted. In its place, section 10.10.7 Contaminant Monitoring requires monitoring of two properties or air and four contaminants, during initial occupancy, and providing to the owner a report with graphical trends and recommendations. A new Section 10.7 contains requirements for IAQ preparations prior to occupancy, including the early start of ventilation described above. Sections 10.9.4 and 10.9.7 are deleted. Some of the requirements were duplication of those already incorporated by reference to Standard 62.1. Others of these requirements are now found, with modifications, in a new Section 10.10, Plan for Operation: IAQ-Related Activities. A new Section 10.10 contains all the elements of the plan for operation, some of which are described above. It collects requirements in one section that were previously in several non-contiguous sections.

Single copy price: \$35.00

Obtain an electronic copy from standards.section@ashrae.org

Offer comments at <https://www.ashrae.org/technical-resources/standards-andguidelines/public-review-drafts>

BSR MH29.3-202X, Safety Requirements for Industrial Turntables (new standard)

This standard applies to industrial turntables designed to rotate in the horizontal plane that are activated manually, or by hydraulic, pneumatic, mechanical, or electro-mechanical means. Industrial turntables can be stationary or movable, and manual or powered. They are used to rotate, position, feed, transfer, load, or unload materials only. Industrial turntables are not intended to move personnel.

Single copy price: \$50.00

Obtain an electronic copy from: pdavison@mhi.org

Order from and send comments to Patrick Davison <pdavison@mhi.org>

BSR/NECA 91-202x, Recommended Practice for Maintaining Electrical Equipment (new standard)

This recommended practice describes quality, performance, and workmanship aspects of general maintenance procedures for operating, servicing, inspecting, testing, maintaining, calibrating, repairing, and reconditioning building electrical systems, equipment, and components and is intended to provide information on how to accomplish maintenance of electrical equipment that aligns with NFPA 70B, Standard for Electrical Equipment Maintenance. This recommended practice essentially includes industry-accepted practices and is intended to be used in conjunction with equipment-specific manufacturer instructions.

Single copy price: \$30.00 Members; \$60.00 Nonmembers

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

BSR NEMA 61800-1-202x, Adjustable Speed Drives Electrical Power Drive Systems - Part 1: General Requirements - Rating Specifications for Low Voltage Adjustable Speed DC Power Drive Systems (identical national adoption of IEC 61800-1:2021)

Applies to adjustable speed electric power drive systems intended to feed DC motors from a BDM/CDM connected to line-to-line voltages up to and including 1 kV AC 50 Hz or 60 Hz and/or voltages up to and including 1,5 kV DC input.

Single copy price: \$485.00

Obtain an electronic copy from <https://webstore.ansi.org/standards/bsi/bseniec618002021>

Send comments to David Richmond <David.Richmond@nema.org>

BSR NEMA 61800-2-202x, Adjustable speed electrical power drive systems - Part 2: General requirements Rating specifications for adjustable speed AC power drive systems (identical national adoption of IEC 61800-2:2021)

Applies to adjustable speed electric power drive systems intended to feed AC motors from a BDM or CDM connected to line-to-line voltages up to and including 35 kV AC 50 Hz or 60 Hz and/or voltages up to and including 1,5 kV DC.

Single copy price: \$417.00

Obtain an electronic copy from <https://webstore.ansi.org/standards/iec/iec61800ed2021-2435291>

Send comments to David Richmond <David.Richmond@nema.org>

Due 3 April 2023

BSR/ASHRAE/ICC/IES/USGBC Addendum ao to BSR/ASHRAE/ICC/IES/USGBC Standard 189.1-202x, 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)

This draft modifies Section 10. Construction and Plans for Operation in the following ways: Section 10.4.2, IAQ Construction Management and System Startup, is modified to reference specific subsections of Standard 62.1 and to eliminate duplication. This section was previously modified by addendum ax which is published and available on the ASHRAE website. Section 10.7.1, Building Flush Out requirements is deleted, because the committee believes it was little used due to practical limitations and lack of hard data on its effectiveness. The goal of additional ventilation prior to occupancy and during initial occupancy is met by requirements in new Sections 10.7.2 and 10.10.5. Section 10.7.2, Post-Construction, Pre-Occupancy IAQ monitoring of 36 constituents is deleted. In its place, Section 10.10.7, Contaminant Monitoring, requires monitoring of two properties of air and four contaminants, during initial occupancy, and providing to the owner a report with graphical trends and recommendations. A new Section 10.7 contains requirements for IAQ preparations prior to occupancy, including the early start of ventilation described above. Sections 10.9.4 and 10.9.7 are deleted. Some of the requirements were duplication of those already incorporated by reference to Standard 62.1. Others of these requirements are now found, with modifications, in a new Section 10.10, Plan for Operation: IAQ-Related Activities. A new Section 10.10 contains all the elements of the plan for operation, some of which are described above. It collects requirements in one section that were previously in several non-contiguous sections.

Single copy price: \$35.00

Obtain an electronic copy from standards.section@ashrae.org

Send comments to <https://www.ashrae.org/technical-resources/standards-andguidelines/public-review-drafts>

BSR/ASHRAE Standard 514P-202x, Risk Management for Building Water Systems: Physical, Chemical, and Microbial Hazards (new standard)

The independent substantive changes to the previous public review draft shown reflect input from comments received during the first publication public review. The full text of the proposed ASHRAE Standard 514P was previously available for public comment during an Advisory Public Review (APR) and subsequent 1st full Publication Public Review (PPR).

Single copy price: \$35.00

Access and offer comments at <https://www.ashrae.org/technical-resources/standards-and-guidelines/publicreview-drafts>

BSR/NFPA 915-202x, Standard for Remote Inspections (new standard)

This standard shall provide the minimum requirements for the procedures, methods, transmission, data collection, and documentation associated with remote inspections and tests, automated inspection and testing, and distance monitoring performed in accordance with other governing laws, codes, and standards.

Access and offer comments at www.nfpa.org/915Next

BSR/NFPA 51B-202x, Standard for Fire Prevention During Welding, Cutting, and Other Hot Work (revision of ANSI/NFPA 51B-2019)

This standard shall cover provisions to prevent injury, loss of life, and loss of property from fire or explosion as a result of hot work. Cutting and welding processes using electric arcs or oxy-fuel gas flames are a necessary part of our industrial world. Too often, however, the persons who use, contract, or supervise the use of these processes do not fully appreciate that their improper use can result in loss of life and property by fire and

explosion. Approximately 6 percent of fires in industrial properties and many fires in other properties have been caused by cutting and welding, primarily with portable equipment in areas not specifically designed or approved for such work. Cutting and certain arc welding operations produce literally thousands of ignition sources in the form of sparks and hot slag. Electric arcs or oxy–fuel gas flames and hot work pieces are also inherent ignition sources. The majority of fires in which cutting and welding are factors have been caused by sparks. These globules of molten metal have scattered horizontally as far as 35 ft (11 m), setting fire to all kinds of combustible materials. They have also fallen... [sic]

Access and offer comments at www.nfpa.org/51BNext

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 AHJ requirements.

Access and offer comments at www.nfpa.org/78Next

BSR/NFPA 220-202x, Standard on Types of Building Construction (revision of ANSI/NFPA 220-2021)

This standard defines types of building construction based on the combustibility and the fire resistance rating of a building's structural elements. Fire walls, nonbearing exterior walls, nonbearing interior partitions, fire barrier walls, shaft enclosures, and openings in walls, partitions, floors, and roofs are not related to the types of building construction and are regulated by other standards and codes, where appropriate. It is necessary for the user to consider the influence of location, occupancy, exterior exposure, possibility of mechanical and physical damage to fire-resistant material, and other features that could impose additional requirements for safeguarding life and property, as commonly covered in building codes. For information on the construction of fire walls and fire barrier walls, see NFPA 221, Standard for High Challenge Fire Walls, Fire Walls, and Fire Barrier Walls. For the installation of opening protection, see NFPA 80, Standard for Fire Doors and Other Opening Protectives and NFPA 90A, Standard for the Installation of Air-Conditioning and Ventilating Systems.

Access and offer comments at www.nfpa.org/220Next

BSR/NFPA 221-202x, Standard for High Challenge Fire Walls, Fire Walls, and Fire Barrier Walls (revision of ANSI/NFPA 221-2021)

This standard specifies requirements for the design and construction of high challenge fire walls, fire walls, and fire barrier walls including protection of openings and penetrations.

Access and offer comments at www.nfpa.org/221Next

BSR/NFPA 703-202x, Standard for Fire-Retardant-Treated Wood and Fire-Retardant Coatings for Building Materials (revision of ANSI/NFPA 703-2021)

This standard provides criteria for defining and identifying fire retardant–treated wood and fire retardant–coated building materials. Fire resistance ratings measured on an hourly basis are not covered in this standard. To establish such ratings, tests should be made in accordance with NFPA 251.

Access and offer comments at www.nfpa.org/703Next

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.

Access and offer comments at www.nfpa.org/1078Next

Due 18 April 2023

BSR/UL 1598C-202x, Standard for Safety for Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits (revision of ANSI/UL 1598c-2017)

These requirements apply to light-emitting diode (LED) retrofit luminaire conversion kits that are intended to replace existing light sources and systems including incandescent, fluorescent, induction, and high intensity discharge (HID) light sources in previously installed luminaires that already comply with the requirements in the Standard for Luminaires, UL 1598. The kits are intended for use on: Luminaires where specific luminaire model or part numbers are identified in the kit installation instructions; or One or more generic type luminaires that meet specific criteria identified in the installation kit instructions. It contains requirements that supplement the luminaire requirements contained in the Standard for Luminaires, UL 1598, that apply to the retrofit kit and the luminaire.

There are additional requirements for LED retrofit luminaire conversion kits intended for marine luminaires (marine-type fixtures), and for *LED retrofit luminaire conversion kits intended for stage and studio luminaires* [emphasis added]. The proposed second edition of UL 1598C includes the following proposed changes in requirements:

- A. UL 1598C revisions including Scope expansion and restructuring of requirements; New Annex for LED retrofit kits for low voltage luminaires; New Annex for LED retrofit kits for commercial refrigerators and freezers; and New and revised retrofit kit markings and instructions; and
- B. Enhanced delivery of installer information

Single copy price: Free

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

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 28 March 2023

C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4799 - Revised requirements for the interconnection of grounding electrodes (amendment)

Request: Modify Rule 10-104 as follows:

10-104 Spacing and interconnection of grounding electrodes (see Appendix B)

1) Where ~~there are~~ multiple grounding electrodes exist at a building; for grounding multiple supply services, they shall be

a) separated by at least 2 m from each other; and

b) Have no interconnection made between the respective ground conductors, other than that achieved through the earth.

2) Where one or more grounding electrodes are provided at a building for purposes other than grounding a supply authority system, they shall be

a) separated by at least 2 m from each other;

b) interconnected with each other, and with one grounding electrode of a solidly grounded system supplied by the supply authority where such a system exists, by a conductor

i) made of material prescribed for grounding conductors;

ii) sized as prescribed for grounding conductors; and

iii) protected from mechanical damage as required for grounding conductors; and

c) in the case of lightning protection systems, interconnected in accordance with Item b) at or below ground level.

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/E1.23-202x, Entertainment Technology - Design, Execution, and Maintenance of Atmospheric Effects (revision of ANSI/E1.23-2020)

The E1.23 document offers advice on the planning, execution, and maintenance of theatrical effects using glycol, glycerin, or white mineral oil fogs or mists in 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 reliably, safely. The revision is to add a requirement for a short summary of the measures being taken to assure reasonable safety.

Contact Karl Ruling <standards@esta.org>

BSR/TIA 607-E-202x, Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises (revision and redesignation of ANSI/TIA 607-D-2019)

This standard specifies requirements for a generic telecommunications bonding and grounding infrastructure and its interconnection to electrical systems and telecommunications systems. This standard may also be used as a guide for the renovation or retrofit of existing systems. The new revision needed to: Incorporate content of addendum ANSI/TIA-607-D-1; Update references; Any other updates.

Contact Teesha Jenkins <standards-process@tiaonline.org>

BSR/MHI ICWM-202x, Vocabulary, Performance, and Testing Requirements for Casters and Wheels (revision of ANSI/MHI ICWM-2018)

This standard provides manufacturers, specifiers and users with a common basis for evaluating the safety, durability, structural adequacy, and technical requirements for group-specific casters and wheels. The standard defines industry terms, specific tests, equipment/methods that can be used, the conditions of tests, and minimum acceptance levels to be used in evaluating these products.

Contact Patrick Davison <pdavison@mhi.org>

BSR/CTA 2120-202x, Design Requirements for a Label for IoT Device Cybersecurity (new standard)

This project will develop a standard consistent with the US national label program that defines a cybersecurity label design.

Contact Catrina Akers <cakers@cta.tech>

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/ASTM E84-2023, Test Method for Surface Burning Characteristics of Building Materials (revision of ANSI/ASTM E84-2022), 1 February 2023

ANSI/ASTM E1590-2023, Test Method for Fire Testing of Mattresses (revision of ANSI/ASTM E1590-2022), 1 February 2023

ANSI/PHTA/ICC-2-2023, Standard for Public Pool and Spa Operations and Maintenance (new standard), 10 February 2023

ANSI SAIA A92.9-2023, Mast-Climbing Work Platforms (revision of ANSI/SAIA A92.9-2011 (R2017)), 6 February 2023

ANSI SAIA A92.10-2023, Transport Platforms (revision of ANSI/SAIA A92.10-2009 (R2014)), 10 February 2023

Draft IEC & ISO documents

This section lists proposed documents 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 (isot@ansi.org), 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 (tzertuche@ansi.org). ISO and IEC Drafts can be made available by contacting ANSI's Customer Service department, sales@ansi.org.

ISO/DIS 56008, Innovation management - Tools and methods for innovation operation measurements – Guidance, 10 March 2023, \$125.00

34/1018/FDIS, IEC 62386-250 ED1: Digital addressable lighting interface - Part 250: Particular requirements - Integrated power supply (device type 49), 24 March 2023

34/1019/FDIS, IEC 62386-251 ED1: Digital addressable lighting interface - Part 251: Particular requirements - Memory bank 1 extension (device type 50), 24 March 2023

34/1020/FDIS, IEC 62386-252 ED1: Digital addressable lighting interface - Part 252: Particular requirements - Energy reporting (device type 51), 24 March 2023

22H/307A/CD, IEC 62040-1 ED3: Uninterruptible power systems (UPS) - Part 1: Safety requirements, 31 March 2023

ISO/DIS 16311-3, Maintenance and repair of concrete structures - Part 3: Design of repairs, 31 March 2023, \$88.00

ISO/DIS 16311-2, Maintenance and repair of concrete structures - Part 2: Assessment of existing concrete structures, 6 April 2023, \$112.00

ISO/DIS 9241-5, Ergonomics of human-system interaction – Part 5: Workstation layout and postural requirements, 15 April 2023, \$93.00

ISO/DIS 9241-115, Ergonomics of human-system interaction Part 115: Guidance on conceptual design, user-system interaction design, user interface design, and navigation design, 15 April 2023, \$88.00

ISO/DIS 16311-4, Maintenance and repair of concrete structures - Part 4: Execution of repairs, 15 April 2023, \$119.00

ISO/DIS 8548-3, Prosthetics and orthotics - Limb deficiencies Part 3: Method of describing upper limb amputation stumps, 16 April 2023, \$71.00

ISO/DIS 18893, Mobile elevating work platforms – Safety principles, inspection, maintenance and operation, 21 April 2023, \$98.00

ISO/IEC DIS 27403, Cybersecurity - IoT security and privacy Guidelines for IoT-domotics, 27 April 2023, \$107.00

ISO/DIS 16368, Mobile elevating work platforms – Design, calculations, safety requirements and test methods, 27 April 2023, \$165.00

ISO/DIS 5942, Bamboo-wood composite for container flooring, 1 May 2023, \$67.00

35/1516/CD, IEC 60086-4 ED6: Primary batteries - Part 4: Safety of lithium batteries, 5 May 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 [ANSI Webstore](#).

IEC 61951-1 Amd.1 Ed. 4.0 b:2023, Secondary cells and batteries containing alkaline or other non-acid electrolytes Secondary sealed cells and batteries for portable applications Part 1: Nickel-cadmium, \$25.00

IEC 61951-1 Ed. 4.1 b:2023, Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary sealed cells and batteries for portable applications - Part 1: Nickel-cadmium, \$443.00

IEC 61969-1 Ed. 4.0 b:2023, Mechanical structures for electrical and electronic equipment - Outdoor enclosures - Part 1: Design guidelines, \$89.00

IEC/TS 63074 Ed. 1.0 en:2023, Safety of machinery – Security aspects related to functional safety of safety-related control systems, \$221.00

ISO 12911:2023, Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) – Framework for specification of BIM implementation, \$149.00

ISO 24089:2023, Road vehicles - Software update engineering, \$149.00

ISO/IEC 1989:2023, Information technology – Programming languages, their environments and system software interfaces – Programming language COBOL, \$250.00

ISO/IEC 22123-1:2023, Information technology – Cloud computing - Part 1: Vocabulary, \$48.00

ISO/IEC 27035-1:2023, Information technology – Information security incident management - Part 1: Principles and process, \$175.00

ISO/IEC 27035-2:2023, Information technology – Information security incident management – Part 2: Guidelines to plan and prepare for incident response, \$225.00

TSP meeting schedule

The next set of meetings will be held at the Wyndham Anaheim in conjunction with the NAMM Show. The ESTA [meetings](#) page has [a link to reserve a room](#) at the Wyndham Anaheim. The meetings will be via WebEx as well as in-person at the Wyndham Anaheim. All the times shown are Pacific Time.

Control Protocols Working Group	09:00 – 13:00 PDT	Thursday 13 April 2023
Electrical Power Working Group	14:00 – 17:00 PDT	Tuesday 11 April 2023
Event Safety Working Group	09:00 – 13:00 PDT	Friday 14 April 2023
Floors Working Group	19:00 – 23:00 PDT	Tuesday 11 April 2023
Fog & Smoke Working Group	09:00 – 13:00 PDT	Wednesday 12 April 2023
Photometrics Working Group	15:00 – 18:00 PDT	Thursday 13 April 2023
Rigging Working Group	19:00 – 23:00 PDT	Thursday 13 April 2023
Stage Machinery Working Group	14:00 – 18:00 PDT	Wednesday 12 April 2023
Technical Standards Council Council	14:00 – 18:00 PDT	Saturday 15 April 2023
Weapons Safety Working Group	09:00 – 13:00 PDT	Saturday 15 April 2023

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