



ESTA Standards Watch

March 2022 Volume 26, Number 5

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Six ESTA docs in public review

Half a dozen documents are available for public review on the ESTA TSP website at https://tsp.esta.org/tsp/documents/public_review_docs.php. The downloads are free.

E1.26, Entertainment Technology -- Recommended Testing Methods and Values for Shock Absorption of Floors Used in Live Performance Venues, sets out the energy absorption requirements for floors in venues used for live performances, and the methods for testing them. This document is to be used in conjunction with all applicable local building codes and requirements. The existing American National Standard is being considered for reaffirmation. Comments are due no later than 21 March 2022. If you wait until the 22nd, "Aw, you missed it."

E1.36, Model Procedure for Permitting the Use of Tungsten-Halogen Incandescent Lamps and Stage and Studio Luminaires in Vendor Exhibit Booths in Convention and Trade Show Exhibition Halls, is a model set of procedures that can be used by convention center and trade show exhibition hall staff to mitigate the risks perceived to be associated with the use of tungsten-halogen lamps and stage and studio luminaires. The standard gives guidance to allow T-H lamps and luminaires to be used in a safe manner in convention centers and trade show exhibition halls. The existing American National Standard is being considered for reaffirmation. Comments are due no later than 21 March 2022.

BSR ES1.18, Event Safety – Rigging, addresses the roles, responsibilities, and general requirements for design, planning, installation, set-up, removal, and operation of rigging activities for special events. It does not address system, hardware or component requirements. Comments are due no later than 21 March 2022.

BSR E1.4-1, Manual Counterweight Rigging Systems, addresses the requirements for manually operated counterweight rigging systems used in entertainment. Its scope covers design, manufacture, installation, and use of these systems. It does not address building structural requirements. The updates in this version maintain consistency with changing technology and with changes in accepted industry practice. Comments are due no later than 21 March 2022.

BSR E1.6-4, Design, Inspection, and Maintenance of Portable Fixed Speed Electric Chain Hoist Control Systems in the Entertainment Industry, partitions the existing ANSI E1.6-4 into two separate but related standards (E1.6-4 and E1.6-5) because some functions of the standard are deemed to require different or higher levels of expertise than other functions of the standard. This part addresses design, inspection, and maintenance aspects, which focus more on the roles and responsibilities of the equipment designer and manufacturer. Comments are due no later than 21 March 2022.

BSR E1.6-5, Selection and Use of Portable Chain Hoist Controls in the Entertainment Industry, is related to ANSI E1.6-4. This part addresses selection and use, pertaining more to the user's responsibilities and requirements. Comments are due no later than 21 March 2022.

Nachtkritik.plus offers a portal on digitality in theater

DTHG has announced the launch of a knowledge platform at nachtkritik.plus offering articles on various technical tools, tutorials, and workshop discussions explaining digital technologies, their application, or people's reflections on their experiences with them. The portal is designed as an open platform; participation is encouraged. The platform's current content comes primarily from DTHG's digital.DTHG team and from the Academy for Theater and Digitality in Dortmund.

Check it out if you are interested in “digitality”—and, as I write this, there are interesting videos by and about Ukrainian performing groups on the site. The website is primarily in German, but an “EN” button in the upper right corner gives the pages in English—and they look like full translations. (This is not always the case. DIN's English pages offer minimal text.)

Highlights of the upcoming 2022 New World Rigging Symposium

The 2022 New World Rigging Symposium will take place online 5-7 April. The symposium will carry nine ETCP education renewal credits for re-certification. The cost is \$99. A full listing of sessions and presenters, and a link to register is available [on the ESTA website](#).

Planned sessions include “Rope 201,” a follow-up to the popular session on ropes at the 2021 NWRS. Subject matter experts Stu Cox, Eric Rouse, and Andy Schmitz will cover the intended uses, benefits, and drawbacks of ropes, lines, and ties. “Rope Access in Entertainment: Training and Usage” will address rope access in the entertainment industry, and how it can be used in the field to solve problems. Other sessions will cover touring overseas, the challenges of hanging shows in venues not designed for the loads, the complications of loading a show into a university venue, and much more. It's online, so even people in the Old World can attend the New World Rigging Symposium.

WTO Technical Barrier to Trade notifications

Notify US, the U.S. Department of Commerce's service to announce Technical Barrier to Trade filings, has announced TBTs that may be of interest to *Standards Watch* readers. If you have a problem with any TBT, you can protest through your representative to the World Trade Organization.

Canada Notification CAN/666

Date issued: 10 March 2022

Agency responsible: Department of Innovation, Sciences and Economic Development

National inquiry point: Notification Authority and Enquiry Point Global Affairs Canada

Products covered: Radiocommunications

Title: Consultation of RSS-236, Issue 2 (10 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-236, Issue 2, General Radio Service Equipment Operating in the Band 26.960 MHz to 27.410 MHz (Citizens Band) sets out the requirements for the certification of radio apparatus that is used for the General Radio Service, also known as the Citizens Band (CB), operating in the 26.960-27.410 MHz frequency band.

Comments can also be submitted via the following Web site: <https://www.rabc-cccr.ca/ised-radio-standards-specification-rss-236-issue-2-march-2022-general-radio-service-equipment-operating-in-the-band-26-960-mhz-to-27-410-mhz-citizens-band/>

Objective and rationale: Consultation; Other

Relevant documents: <https://www.rabc-cccr.ca/ised-radio-standards-specification-rss-236-issue-2-march-2022-general-radio-service-equipment-operating-in-the-band-26-960-mhz-to-27-410-mhz-citizens-band/> (English)

<https://www.rabc-cccr.ca/fr/isde-cahier-des-charges-sur-les-normes-radioelectriques-cnr-236-2e-edition-march-2022-materiel-du-service-radio-general-fonctionnant-dans-la-bande-26960-mhz-a-27410-mhz-bande-publique/> (Français)

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 17 May 2022

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 18 April 2022

BSR/UL 325-202x, Standard for Safety for Door, Drapery, Gate, Louver, and Window Operators and Systems (revision of ANSI/UL 325-2017)

This proposal for UL 325 covers: (1) Revision of the glossary definition of entrapment to change "object" to "person" is caught; (2) Bifold gates; (3) Reference corrections to include vehicular gate operators; (4) Relocation of additional feature requirements to new section within vehicular gate section; (5) Type B1 Test clarification; (6) Editorial interconnection cable reference correction in paragraph 54.1; (7) Puncture Resistance Test clarification to include gates; (8) CGI proposed changes to 60.8; (9) Revision of the important safety instructions in 60.8.5 to add "severe" Injury to WARNING; (10) Revision of the important safety instructions in 60.8.5 to change reference from "emergency release" to "manual release"; and (11) Editorial revision of table B.1.

Single copy price: Free

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

BSR/UL 1449-202x, Standard for Safety for Surge Protective Devices (revision of ANSI/UL 1449-2016)

The following changes in requirements are being proposed: (1) Addition of UL 969A as alternate option for marking and labeling; (2) Types 1, 2, and 3 enclosed SPDs incorporating a replaceable SPD module; (3) Clarifications and updates to table 48.1 (Test Program); (4) Revisions to capacitor testing; (5) Clarification and additional text to SA8.3 – SA8.4 covering current tests; (6) Clarification to SB7 for testing SPDs that permit follow current; (7) Clarification of clause SB8.2 regarding SCCR levels; (8) Correction to number of test samples in clause SB10.1; (9) Clearances for altitude over 2000 m; (10) Type 4 component assemblies surge testing; and (11) Temperature testing of plug blades in direct plug-in SPDs.

Single copy price: Free

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

Due 25 April 2022

BSR/ACI CODE-355.2-202x, Post-Installed Mechanical Anchors in Concrete - Qualification Requirements and Commentary (new standard)

ACI 355.2 prescribes testing programs and evaluation requirements for post-installed mechanical anchors intended for use in concrete under the design provisions of ACI 318. Criteria are prescribed for determining whether anchors are acceptable for use in uncracked concrete only, or in cracked as well as uncracked concrete. Performance categories for anchors are established, as are the criteria for assigning anchors to each category. The anchor performance categories are used by ACI 318 to assign capacity reduction factors and other design parameters.

Single copy price: Free

Order from and send comments to Shannon Banchemo, shannon.banchemo@concrete.org

BSR/ASHRAE Addendum 62.1ag-202x, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2019)

This proposed addendum replaces the calculation method in current Normative Appendix B2 (Separation of Exhaust Outlets and Outdoor Air Intakes) with a new method based upon ASHRAE Research Project 1635 (2016). This research was sponsored by ASHRAE Technical Committee (TC) 4.3. The purpose of this Research Project is to provide a simple, yet accurate procedure for calculating the minimum distance required between the outlet of an exhaust system, and the outdoor air intake to a ventilation system to avoid re-entrainment of exhaust gases. The new procedure addresses the technical deficiencies in the simplified equations and tables that are currently in Standard 62.1-2019, Ventilation for Acceptable Indoor Air Quality, and model building codes.

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

BSR/ASHRAE/IES Addendum ag to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019)

Addendum ag introduced a new proposed method to Standard 90.1 entitled the "Total System Performance Ratio (TSPR)" that would provide an additional path for mechanical system compliance. This third public review ISC draft takes consideration of various comments received by committee members and reviewers of the previous two drafts. A full list of changes is provided in the foreword. In summary: clarifications have been made to better identify system parameters, heat pump supplementing control limits, and DOAS efficiency inputs; software testing requirements are more thoroughly detailed; and new text is added to validate the use of part-load adjustment methods in addition to part-load curves. This ISC also addresses concerns related to building geometry limitations associated with the simplified block model by allowing zoning configurations with greater complexity.

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

BSR/ASHRAE/IES Addendum am to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019)

This ISC makes additional revisions to the lighting control requirements in Table 9.4.2-2. In response to comments received during the first public review of addendum am, walkways of all widths have been combined into one category and walkway LPAs are now based on W/linear ft (W/linear m) instead of area.

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

BSR/ASHRAE/IES Addendum ap to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019)

Addendum ap introduces a new section to Standard 90.1 for the use of energy credits to enable a modest increase to the stated baseline efficiency requirements. A total of 33 measures are included for use in all climate zones, covering eight building types. The credit requirement is about a 4-5% additional energy cost savings for most buildings, based on national average energy prices used for ASHRAE 90.1 analysis. While selection of measures is flexible for individual buildings, the requirements were based on a cost-effective demonstration package identified for each building type and climate zone. In this ISC, the number of credits associated with several measures has been revised, in most cases, based on an updated analysis. Thresholds have also been modified for all project types: new buildings, additions, alterations, and build-outs. Various comment-based

changes have been implemented such as removal of the service water heating measure previously used to demonstrate cost effectiveness for multifamily buildings. Substantive changes have been made to H02/H03 (calculating HVAC efficiency), H06 (proration of DOAS credits), W01/02/03 (use of COP or UEF, combination systems, removal of exhaust air limitation), and a new measure H07 for Guideline 36 control sequences was introduced. In lighting, the simplified building method is now an option for L03 and the maximum LPD reduction for L06 was lowered from 15% to 10%. Finally, load management and renewable measures can now be combined to achieve up to 60% of the required credits.

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

BSR/ASHRAE/IES Addendum aq to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019)

Addendum aq introduces requirements for service water heating piping insulation and reorganization of existing pipe insulation tables developed for space heating. The purpose of this ISC is to propose two new exceptions to the insulation requirements where piping passes through a framing member or connects to a vertical support.

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

BSR/ASHRAE/IES Addendum av to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019)

Addendum av was first launched during revision of 90.1-2016 following the publication of ASHRAE Research Project 1365 which found that unaccounted heat flow through the cumulative impact of thermal bridges can increase the annual energy consumption associated with the building envelope. This ISC is a continuation of exhaustive efforts to respond to previous review comments and primarily includes revisions for clarity throughout Section 5.5.5.1 and Appendix J.

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

BSR/ASHRAE/IES Addendum ay to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019)

This addendum is in response to an update making AHRI-1230-2021 the DOE-approved test procedure for Variable Refrigerant Flow (VRF) equipment. In the first public review draft, the new test procedure was added for VRF equipment in Tables 6.8.1-8 and 6.8.1-9. In this ISC, the corresponding EER values for VRF equipment are being lowered between 4.2 and 6.7% to account for the increased stringency of the test procedure, which has resulted in lower ratings for the same equipment. With these changes, minimum fullload efficiency is still expected to increase by 8-10%.

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

BSR/ASHRAE/IES Addendum bd to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019)

Proposes a new normative appendix (Appendix J) to list the chiller performance curve (A-X) inputs based on system type from Table 6.8.1-3. This provides a resource for Chapter 11 or Appendix G users to model minimally compliant chiller performance for budget and baseline building designs, and for a proposed building design when specific equipment performance is unknown. To accommodate different simulation programs, values are provided for both modeling inputs in IP and SI units. Section 11 and Appendix G were modified to include language pointing users to Appendix J where performance curves are supported by their simulation program.

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

BSR/ASHRAE/IES Addendum bo to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019)

This addendum is an update to the fan power limits in Section 6.5.3.1. The effect of this update would be, on average, a 10% increase in stringency across most fan system types. The new requirements provide the following improvements as explained during the first public review: (1) actual electrical input power and efficiency of fan transmission, motor, or variable-speed controller are considered; (2) small, medium, and large air-handling

systems are covered; (3) the growing use of hot-gas reheat coils, water economizer coils, and series energy recovery is acknowledged with new fan power allowances; and (4) the scope is expanded to include fan systems that do not include a source of heating or cooling (e.g., large energy recovery ventilators), all fans serving interior spaces, and fans used in alterations. Finally, the power threshold has been reduced to 1 kW input power from 5 motor nameplate horsepower so that fewer fan systems are excluded. This second public review draft incorporates all of the above changes proposed during the first public review, but with an increase to the fan power allowance for alterations and revisions to correct errors identified in the fan power tables.

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

BSR/ASHRAE/IES Addendum bs to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019)

Updates the lighting power allowances (LPA) in Section 9.3, Simplified Building Method Compliance Path, to maintain alignment with the established method (0.9x the Building Area Method LPA values). This proposal also removes an exception that allowed alterations to meet an efficacy adjustment as that was to encourage the installation of LEDs now in widespread use. Finally, Table 9.3.1-1 was reformatted to clarify how compliance is achieved based on the total building LPA.

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

BSR/ASHRAE/IES Addendum bx to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019)

Modifies Table 6.8.1-5 for warm-air furnace efficiency requirements to more accurately distinguish between different products and test procedures based on locations in which they are used and their status as DOE- or non-DOE-covered products.

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

BSR/ASHRAE/IES Addendum cl to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019)

This addendum modifies defined terms to cover three existing definitions – “authority having jurisdiction,” “building official,” and “code official” – under one term, “code official.” This is intended to clarify application of the standard and create alignment with the 2021 IECC.

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

BSR/ASHRAE/IES Addendum cm to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019)

Updates Section 12 (Normative References) where applicable to reflect new effective dates and additional materials being cited in the standard.

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

BSR/ASHRAE/IES Addendum co to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019)

Proposes new performance requirements for alterations. Larger retrofit projects are allowed a 5% increase in Building Performance Factor (BPF) relative to new construction, while smaller projects – as defined by the percentage of HVAC, lighting, and envelope items being replaced – are now subject to a new Section G3.3.

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

BSR/ASTM E2257-202x, Test Method for Room Fire Test of Wall and Ceiling Materials and Assemblies (revision of ANSI/ASTM E2257-2017)

<https://www.astm.org/ansi-review>

Single copy price: Free

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

BSR/IES LP-16-202x, Lighting Practice: Documenting Control Intent Narratives and Sequence of Operations (new standard)

This document provides guidance on the documentation of Control Intent Narratives and Sequences of Operation (CIN and SOO). It is not intended to be a design guide, but rather a reference manual of best practices on how the design, once formulated, is included in the project documentation and communicated to the construction and commissioning teams.

Single copy price: \$25.00

Order from and send comments to pmcgillicuddy@ies.org

BSR/IES RP-43-202x, Recommended Practice: Lighting Exterior Applications (illuminance table only) (new standard)

The purpose of this Recommended Practice (RP) is to provide pedestrian-oriented illumination recommendations for the reassurance, safety, comfort, amenity, and enjoyment of people in outdoor environments in lighting zones LZ1 through LZ4. This RP includes recommendations beyond illuminance, which, when considered alone, is inadequate for addressing the visual needs of pedestrian-based tasks. Rather, it takes a comprehensive approach and makes recommendations based on lighting zone, glare avoidance, spectrum, and other visually influential conditions. Application of these recommendations will ultimately enhance the visual experience for people, while also respecting the environment.

Single copy price: \$10.00

Order from and send comments to pmcgillicuddy@ies.org

BSR/IES RP-6-202x, Recommended Practice: Lighting Sports and Recreational Areas (revision of ANSI/IES RP-6-2020)

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

Single copy price: \$25.00

Order from and send comments to pmcgillicuddy@ies.org

BSR B77.1-202x, Passenger Ropeways - Aerial Tramways, Aerial Lifts, Surface Lifts, Tows and Conveyors -Safety Standard (revision of ANSI B77.1-2017)

This document establishes a standard for the design, manufacture, construction, operation, and maintenance of passenger ropeways. Passenger ropeway categories include:

- aerial tramways (single and double reversible);
- aerial lifts (detachable lifts, chair lifts, and similar equipment);
- surface lifts (T-bars, J-bars, platter lifts, and similar equipment);
- tows (wire rope and fiber rope tows); and
- conveyors.

Single copy price: \$35.00

Order from and send comments to Michael Lane, mlane@nsaa.org

Due 31 May 2022

The NFPA has announced the first draft reports for several standards. The NFPA's procedures say that comments on the first draft reports are due by 31 May 2022, but ANSI listed them in *Standards Action* as being due 11 April. Whatever Here they are.

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

This standard shall provide the minimum requirements for the procedures, methods, and documentation associated with remote inspections and tests, automated inspection and testing, and distance monitoring.

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

BSR/NFPA 3-202x, Standard for Commissioning of Fire Protection and Life Safety Systems (revision of ANSI/NFPA 3-2021)

This standard shall provide the required procedures, methods, and documentation for the commissioning of active and passive fire protection and life safety systems and their interconnections with other building systems.

Access and offer comments at www.nfpa.org/3Next

BSR/NFPA 4-202x, Standard for Integrated Fire Protection and Life Safety System Testing (revision of ANSI/NFPA 4-2021)

The standard shall provide the minimum requirements for testing of integrated fire protection and life safety systems where such testing is required by the design documents, commissioning plan, governing laws, codes, regulations, or standards. These requirements include protocol for testing procedures, responsibilities of various parties, methods and documentation for verifying the operational readiness and sequence of integrated systems. The standard is designed to ensure that interconnected active and passive fire protection and life safety systems operate as intended. It is not the intent of this standard to require implementation of emergency response procedures, evacuation drills, or other exercises that require facility staff or fire department response.

Access and offer comments at www.nfpa.org/4Next

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.

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. 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

CSA public review announcements

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

Due 24 April 2022

ASC/CSA B651, Accessible Design for the built environment (new edition)

This standard specifies technical requirements on how to make buildings and the exterior built environment accessible and safely usable by persons with physical, sensory, or cognitive disabilities.

Due 6 May 2022

CSA 0125, Mechanically Laminated Timber – Production and Qualification Specification (new standard)

This standard provides minimum requirements for manufactures of prefabricated MLT using lumber species specified in CSA O86. The MLT layups contain lumber laminations connected to adjacent laminations on the wide face using either steel or wooden fasteners, with the laminations loaded on edge. The fibre directions of all laminations within MLT are parallel to each other. Two qualification paths are provided for prescriptive and custom MLT respectively in this standard.

Due 9 May 2022

Z432, Safeguarding of machinery

This standard applies to the protection of workers from the hazards arising from the use of mobile or stationary machinery. It provides the criteria to be observed and the description, selection, and application of guards and protective devices. Where a current CSA Standard exists for a specific type of machinery (e.g., CSA B167, CAN/CSA-B354.2, CSA M424.1, CSA Z142, CAN/CSA-Z248, and CAN/CSA-Z434), it is to be used in conjunction with this standard to provide the most effective protection.

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/ASHRAE Standard 240P-202x, Evaluating Greenhouse Gas (GHG) and Carbon Emissions in Building Design, Construction, and Operation (new standard)

This standard establishes how to measure and verify the greenhouse gas (GHG) and carbon emissions of a building or group of buildings over the entire life-cycle. This standard provides consistent procedures and data to be referenced by other standards that address new and existing building performance.

Contact Connor Barbaree, CBarbaree@ashrae.org

BSR/ASIS CAN-202x, Cannabis Security (new standard)

This standard provides guidance for the design, implementation, monitoring, evaluation, and maintenance of a cannabis security program. It also provides guidance and minimum-security requirements on the identification, application, and management of physical protection systems (PPS) to safeguard an organization's assets (e.g., people, property, and information) for cannabis operations, as well as the storage and transport of products and currency.

Contact Aivelis Opicka, standards@asisonline.org

BSR/PGMA G300-202x, Safety and Performance of Portable Generators (revision of ANSI/PGMA G300-2018)

This standard applies to 15 kW or smaller; single-phase; 300 V or lower; 60 hertz; gasoline, liquefied petroleum gas (LPG) and diesel engine driven portable generators intended for multiple use and intended to be moved, though not necessarily with wheels. Permanent stationary generators, 50-hertz generators, marine generators, trailer-mounted generators, generators in motor homes, generators intended to be pulled by vehicles, engine-driven welding power sources and portable generators with AC output circuits that are not compatible with NEMA receptacles are not covered.

Contact Joseph Harding, jharding@thomasamc.com

BSR/ATIS 0300097-202x, Structure for the Identification of Communications Connections for Information Exchange (revision of ANSI/ATIS 0300097-2017)

This standard provides the code and format structures necessary for identification of communications connections and describes the code structures with various combinations of data units represented within those structures. This standard contains clauses that cover its purpose and scope; describes format structures and data elements for message trunks; and message trunk groups, special services circuits, and facilities. It also contains definitions and references. Its intended use is to provide a standard that facilitates information exchange among humans and machines.

Contact Drew Greco, dgreco@atis.org

BSR/IES RP-Parks-202x, Recommended Practice: Exterior Lighting for Parks and Protected Areas (new standard)

This recommended practice contains recommendations for exterior night-time lighting to be used in parks and protected areas that minimize adverse effects on flora and fauna found within these environments. The recommended practices will identify the ecological impact of light spectrum, glare, light trespass, and skyglow and prescribe illumination levels for a range of applications.

Patricia McGillicuddy, pmcgillicuddy@ies.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.

ANSI A190.1-2022, Product Standard for Structural Glued Laminated Timber (revision of ANSI A190.1-2017), 17 February 2022

ANSI/ASHRAE/ICC/IES/USGBC Addendum n 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 February 2022

ANSI/ASHRAE/IES Addendum cb to ANSI/ASHRAE/IES Standard 90.1-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019), 1 March 2022

ANSI/ASHRAE/IES Addendum d to ANSI/ASHRAE/IES Standard 90.2-2018, Energy Efficient Design of Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.2-2018), 28 February 2022

ANSI/ASHRAE/IES Addendum z to ANSI/ASHRAE/IES Standard 90.1-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019), 28 February 2022

ANSI/ASME B30.16-2022, Overhead Underhung and Stationary Hoists (revision of ANSI/ASME B30.16-2017), 1 March 2022

ANSI/ASME B30.23-2022, Personnel Lifting (revision of ANSI/ASME B30.23-2016), 22 February 2022

ANSI/ASSP A1264.2-2022, Reducing Slip Missteps on Walking-Working Surfaces (revision and redesignation of ANSI/ASSE A1264.2-2012), 24 February 2022

ANSI/ASTM F1757-1996 (R2022), Guide for Digital Communication Protocols for Computerized Systems (reaffirmation of ANSI/ASTM F1757-2008 (R2015)), 22 February 2022

ANSI/C137.0-2022, Standard for Lighting Systems Terms and Definitions (revision of ANSI C137.0-2017), 3 March 2022

ANSI/C137.1-2022, 0-10V Dimming Interface for LED Drivers, Fluorescent Ballasts, and Controls (revision of ANSI/C137.1-2019), 3 March 2022

ANSI/CTA 2099-2022, Standard Method of Measurement for Matching In-Home Amplifiers and Loudspeakers (new standard), 22 February 2022

ANSI/NEMA WD6-2022, Wiring Devices - Dimensional Specifications (revision of ANSI/NEMA WD6-2016), 22 February 2022

ANSI/UL 1973-2022, Standard for Safety for Batteries for Use in Stationary and Motive Auxiliary Power Applications (revision of ANSI/UL 1973-2018), 25 February 2022

In case you missed it: a new standard for data tagging vocabulary in lighting

At the recent TSP meetings in Baltimore people mentioned a new NEMA standard, **ANSI C137.6-2021, Data Tagging Vocabulary (Semantic Model Elements) for Interoperability**. They felt it should be noted; here it is.

ANSI C137.6-2021 contains a controlled vocabulary of terms for lighting systems. These terms enable the development of semantic model elements, like tags, that facilitate the exchange of data and metadata used in lighting controls and analytics. The terms contained in the standard are for use by available semantic models such as, but not limited to, the future ASHRAE 223P standard, Project Haystack and Brick. It is available on the NEMA Standards Store for \$90.

NEMA says the C137.6 standard was written for lighting controls manufacturers, utility companies, and municipalities. NEMA's Lighting Systems Division is seeking experts for C137 in the under-represented "user" and "general interest" categories. Please contact NEMA at lighting@nema.org if you are interested. Indicate your interest category and area of expertise.

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 on a document 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). The comments on ISO documents must be submitted electronically in the approved ISO template and as a Word document; other formats will not be accepted. US comments should be sent to Tony Zertuche, General Secretary, USNC/IEC, at ANSI's New York offices (tzertuche@ansi.org). Any prices shown are for purchases through ANSI. (Not all have prices.) The sort order is first by due date then by the project identifier alphanumeric. Some of the due dates are in the past, but the dates shown are what were given.

ISO/IEC FDIS 20897-2, Information security, cybersecurity and privacy protection - Physically unclonable functions - Part 2: Test and evaluation methods; 2021-01-17; \$93

ISO/IEC FDIS 22989, Information technology – Artificial intelligence - Artificial intelligence concepts and terminology; 2021-04-12; \$125

ISO/IEC FDIS 23053, Framework for Artificial Intelligence (AI) Systems Using Machine Learning (ML); 2021-04-12; \$102

ISO/DIS 23374-1, Intelligent transport systems - Automated valet parking systems (AVPS) - Part 1: System framework, requirements for automated driving, and communication interface; 2021-12-24; \$175

ISO/DIS 13855, Safety of machinery - Positioning of safeguards with respect to the approach of the human body; 2021-12-25; \$155

116/579/FDIS, IEC 63370 ED1: Lithium-ion batteries and charging systems – Safety; 2022-04-08;

100/3715(F)/CDV, IEC 62680-1-3 ED5: Universal serial bus interfaces for data and power - Part 1-3: Common components - USB TypeC Cable and Connector Specification; 2022-04-22;

100/3716(F)/CDV, IEC 62680-1-2 ED6: Universal serial bus interfaces for data and power - Part 1-2: Common components - USB Power Delivery specification; 2022-04-22;

121A/480/CD, IEC 60947-4-1 ED5: Low-voltage switchgear and controlgear - Part 4-1: Contactors and motor-starters -Electromechanical contactors and motor-starters; 2022-04-22;

ISO/DIS 23375, Intelligent transport systems - Collision Evasive Lateral Manoeuvre Systems (CELM) - Requirements and test procedures; 2022-05-14; \$98

125/55/CD, IEC 63281-2-1 ED1: Personal e-Transporters — Part 2-1: Test method for total run time of e-scooter with consideration to environmental conditions of actual use; 2022-05-20;

ISO/DIS 31101, Robotics - Application services provided by service robots - Safety management systems requirements; 2022-05-20; \$119

ISO/IEC DIS 23093-4, Information technology - Internet of media things - Part 4: Reference software and conformance; 2022-05-20; \$62

ISO/IEC DIS 17043, Conformity assessment – General requirements for the competence of proficiency testing providers; 2022-05-21; \$107

ISO/IEC DIS 23090-13, Information technology – Coded representation of immersive media - Part 13: Video decoding interface for immersive media; 2022-05-23; \$112

ISO/IEC DIS 22123-1, Information technology - Cloud computing -Part 1: Vocabulary; 2022-05-26; \$67

65E/851/CDV, IEC 62769-8 ED1: Field device integration (FDI) -Part 8:EDD to OPC-UA Mapping; 2022-05-27;

65E/852/CDV, IEC 62769-102-2 ED1: Field device integration (FDI) - Part 102-2: Profiles - EtherNet/IP; 2022-05-27;

65E/853/CDV, IEC 62769-151-1 ED1: Field device integration (FDI) - Part 150-1: Profiles - OPC UA; 2022-05-27;

65E/854/CDV, IEC 62769-1 ED3: Field Device Integration (FDI) -Part 1: Overview; 2022-05-27;

65E/855/CDV, IEC 62769-2 ED3: Field Device Integration (FDI) -Part 2: FDI Client; 2022-05-27;

65E/856/CDV, IEC 62769-3 ED3: Field Device Integration (FDI) -Part 3: Server; 2022-05-27;

65E/857/CDV, IEC 62769-4 ED3: Field Device Integration (FDI) -Part 4: FDI Packages; 2022-05-27;

65E/858/CDV, IEC 62769-5 ED3: Field Device Integration (FDI) -Part 5: Information Model; 2022-05-27;

65E/859/CDV, IEC 62769-7 ED3: Field Device Integration (FDI) -Part 7: Communication Devices; 2022-05-27;

65E/860/CDV, IEC 62769-101-1 ED3: Field device Integration (FDI) - Part 101-1: Profiles - Foundation Fieldbus H1; 2022-05-27;

65E/861/CDV, IEC 62769-101-2 ED3: Field Device Integration (FDI) - Part 101-2: Profiles - Foundation Fieldbus HSE; 2022-05-27;

65E/862/CDV, IEC 62769-103-1 ED3: Field Device Integration (FDI) - Part 103-1: Profiles - PROFIBUS; 2022-05-27;

65E/863/CDV, IEC 62769-103-4 ED3: Field Device Integration (FDI) - Part 103-4: Profiles - PROFINET; 2022-05-27;

65E/864/CDV, IEC 62769-109-1 ED3: Field device integration (FDI) - Part 109-1: Profiles - HART and Wireless HART; 2022-05-27;

65E/865/CDV, IEC 62769-100 ED2: Field device integration (FDI) - Part 100: Profiles - Generic protocols; 2022-05-27;

65E/866/CDV, IEC 62769-150-1 ED2: Field device integration (FDI) - Part 150-1: Profiles - ISA100 WIRELESS; 2022-05-27;

65E/867/CDV, IEC 62769-6 ED3: Field Device Integration (FDI) -Part 6: Technology Mapping; 2022-05-27;

65E/868/CDV, IEC 62769-6-100 ED1: Field Device Integration (FDI) - Part 6-100: Technology Mapping - Net; 2022-05-27;

65E/870/CDV, IEC 62769-6-200 ED1: Field Device Integration (FDI) - Part 6-200: Technology Mapping - HTML5; 2022-05-27;

Recently published IEC & ISO documents

Listed here are documents recently approved by the IEC or ISO 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 62660-3 Ed. 2.0 b:2022, Secondary lithium-ion cells for the propulsion of electric road vehicles - Part 3: Safety requirements, \$221.00

ISO 24162:2022, Test method for energy consumption of refuse collection vehicles, \$73.00

ISO 31073:2022, Risk management - Vocabulary, \$48.00

ISO/IEC 21558-1:2022, Telecommunications and information exchange between systems - Future network architecture – Part 1: Switching and routing, \$73.00

ISO/IEC 21558-3:2022, Telecommunications and information exchange between systems - Future network architecture – Part 3: Networking of everything, \$149.00

ISO/IEC 21559-1:2022, Telecommunications and information exchange between systems - Future network protocols and mechanisms - Part 1: Switching and routing, \$149.00

ISO/IEC 21559-3:2022, Telecommunications and information exchange between systems - Future network protocols and mechanisms - Part 3: Networking of everything, \$200.00

ISO/IEC 23751:2022, Information technology - Cloud computing and distributed platforms - Data sharing agreement (DSA) framework, \$149.00

TSP meeting schedule

The meeting schedule is posted at <https://www.esta.org/ESTA/meetings.php>. The next set of meetings will be planned around the NAMM Show in Anaheim, but the schedule is not set yet. Attendance will be in-person and via WebEx.

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Editors:

Karl G. Ruling, Senior Technical Standards Manager
ESTA, Technical Standards Program
PO Box 23200
Brooklyn, NY 11202-3200 USA
karl.ruling@esta.org
1 212 244 1505 ext. 703

Richard Nix, Asst. Technical Standards Manager
ESTA, Technical Standards Program
PO Box 23200
Brooklyn, NY 11202-3200 USA
richard.nix@esta.org
1 212 244 1505 ext. 649

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The archive of *Standards Watch* issues back to the beginning of 2011 is available at <http://estalink.us/nn7a1>.

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