



Technical Standards Program

ESTA Standards Watch

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Table of Contents

Eight ESTA TSP documents in public review.....	1
ANSI E1.34 - 2009 (R2019) is published.....	2
New project: BSR E1.67, Hand-operated Chain- and Lever Hoists.....	3
UL seeks members for STP 1640, Portable Power-Distribution Equipment and Devices.....	3
ESA now accepting 2019 Event Safety Summit proposals.....	4
WTO Technical Barrier to Trade notifications.....	4
United States of America Notification USA/1444.....	4
Kuwait Notification KWT/513.....	4
Kuwait Notification KWT/516.....	5
Ukraine Notification UKR/150.....	5
China Notification CHN/1312.....	6
ANSI public review announcements.....	6
Due 15 April 2019.....	6
Due 22 April 2019.....	6
Due 8 May 2019.....	7
Notices of withdrawal.....	9
New ANS projects.....	9
Final actions on American National Standards.....	10
Draft IEC & ISO documents.....	11
Recently published IEC & ISO documents.....	11
TSP meeting schedule.....	12
TSP Donors Who Have Made Long-Term, Multi-Year Pledges.....	13
Investors in Innovation, supporters of ESTA's Technical Standards Program.....	14

Eight ESTA TSP documents in public review

As this is being written, eight ESTA documents are available for public review at <http://estalink.us/pr>. Comments on seven of these standards are due before 9 April 2019—but comments on an eighth one are due before 23 April, and that document is specially noted. The reviews are **over** when the designated day starts. In alphanumeric order, they are:

BSR E1.6-3, Selection and use of serially manufactured chain hoists in the Entertainment Industry

ANSI E1.6-3-2012 is being revised. It is one of a 4-part set of standards covering motorized rigging used in the entertainment and special events industry. This standard addresses minimum safety requirements for the selection and use of serially manufactured chain hoists, having capacity of two tons or less. The standard is being updated to address outdated references, errors, and new technologies.

BSR ES1.9, Crowd Management

This standard is part of a suite of standards currently in development to address requirements for special event safety. It defines "crowd management" as distinguished from "crowd control," provides an overview of crowd

management theory, and applies this theory to reasonably foreseeable risks associated with live events. The standard identifies minimum standards and requirements, and provides suggestions to help event organizers make reasonable choices for their events.

BSR E1.21, Entertainment Technology--Temporary Structures Used for Technical Production of Outdoor Entertainment Events

ANSI E1.21-2013 is being revised to enhance the requirements for operations management plans, designated person responsibilities, and related requirements. ANSI E1.21 establishes a minimum acceptable level of design and performance parameters to ensure structural reliability, safety, and to establish a reasonable standard for care temporary special event structures.

BSR E1.44, Common Show File Exchange Format for Entertainment Industry Automation Control Systems

This is a public review for reaffirmation of ANSI E1.44 - 2014, which addresses common show file requirements for automated stage machinery control systems used in entertainment venues. It establishes a minimum level of design and performance guidelines for the integrated software design of processor-based machinery control equipment. The purpose of this guidance is to ensure that users will be able to transfer, modify and customize a 'least common denominator' show file for the data required to tour entertainment productions from one facility to another, even when the facilities' physical conditions, hoist inventories, machinery placements, and the machinery control consoles and data topology differ. [Comments on this document are due before 23 April.](#)

BSR E1.47, Recommended Guidelines for Entertainment Rigging System Inspections

ANSI E1.47-2017 is being revised to expand and to add clarity to its recommendations for inspections of rigging systems used in the entertainment industry.

BSR E1.59, Entertainment Technology--Object Transform Protocol (OTP)

This standard describes a mechanism to transfer object transform information such as position, orientation and velocity over an IP network using a subset of the [ACN] protocol suite. It covers data format, data protocol, data addressing, and network management. Data transmitted is intended to coordinate visual and audio elements of a production and should not be used for safety critical applications.

BSR E1.62, Minimum specifications for mass-produced portable platforms, ramps, stairs, and choral risers for live performance events

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

The Introduction to Modern Atmospheric Effects, 6th edition

The Introduction to Modern Atmospheric Effects was written to be an introductory text on fog and haze effects, offering a factual presentation on all types of popular atmospheric fog effects. A 6th edition has been developed to give some information about formal monitoring techniques and air sampling methods that may be needed to control fog exposure. The new text is designed to introduce the reader to these monitoring methods; the details on how to do air sampling are given in other publicly available sources cited by the Introduction. This new 6th edition is offered for review to give the public a chance to point out errors or omissions and to make suggestions for possible improvements.

ANSI E1.34 - 2009 (R2019) is published

On Friday 8 March 2019 the ANSI Board of Standards Review approved the reaffirmation of **ANSI E1.34, Entertainment Technology—Measuring and Specifying the Slipperiness of Floors Used in Live Performance Venues**. On Monday 11 March it was published.

ANSI E1.34 describes a very simple drag-sled for measuring the slipperiness of a performance floor, and two procedures to use with the sled. One uses standardized stainless steel feet on the sled to give a coefficient of

friction number that can be used to describe the floor in a general way. The second procedure measures the slipperiness with a performer's shoe sole materials. ANSI E1.34 is intended for performance floors; it is not intended for measuring the slipperiness of normal walking surfaces, such as hallways and sidewalks. ANSI E1.48 – 2014 (R2019) published

The new edition is available at <https://tsp.esta.org/freestandards> at no cost—the free download being made possible by the generous sponsorship of ProSight Specialty Insurance. It also is available for purchase for \$15.00 from [ANSI](#) and [IHS](#).

New project: BSR E1.67, Hand-operated Chain- and Lever Hoists

ESTA's Rigging Working Group has approved the start of a new project to draft a new standard, BSR E1.67, Design, Inspection, Maintenance, Selection, and Use of Hand-operated Chain- and Lever Hoists for the Entertainment Industry." The standard is to cover pretty much what the title says. These type of hoists are widely used in the entertainment industry to lift and sometimes suspend loads overhead. Currently, ASME standards B30.16 and B30.21, which cover these topics for hand-operated chain and lever hoists, are not relevant to how these hoists are used in the entertainment industry. Having a standard covering these type of hoists as they are specifically used in the entertainment industry, will help to make the industry safer by documenting the practices that are widely acceptable and agreed-upon by the entertainment industry users.

Anyone interested in working on this project can do it in either or both of two ways:

1. look for the document to be posted in public review and comment then, or
2. join the Rigging Working Group to help work on drafting the text.

An application form to join the Rigging Working Group—or any of the working groups—can be found at https://tsp.esta.org/tsp/documents/procedural_docs.html. The Rigging Working Group is particularly interested in having people who might be in the Designer interest category join.

UL seeks members for STP 1640, Portable Power-Distribution Equipment and Devices

Underwriters Laboratories is seeking representatives from the following interest categories to serve on STP 1640:

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

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

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

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

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

Anyone who is interested in applying for membership on STP 1640 should go to the [STP Application Page](#) to complete and submit an application for STP 1640 to UL. They will be informed of the status of their application soon after UL's receipt of their completed applications.

ESA now accepting 2019 Event Safety Summit proposals

Event Safety Alliance is now accepting session proposals for the 2019 Event Safety Summit. The Event Safety Summit is a conference and networking opportunity focused exclusively on live event safety. The Summit brings together hundreds of thought leaders from all segments of the industry for three days of presentations, workshops, and social activities. Don't worry if you're not a professional presenter. If you have ideas or insights on any aspect of live event safety that you feel will educate and inspire your colleagues the ESA wants to hear from you.

Requirements and submission form can be found [here](#). If you have questions please email them to info@eventsafetyalliance.org.

WTO Technical Barrier to Trade notifications

Notify US, the U.S. Department of Commerce's service to announce Technical Barrier to Trade filings, has announced some TBTs that may be of interest to Standards Watch readers. If you have a problem with a TBTs, you can protest through your representative to the World Trade Organization. (So far the USA is still a member of the WTO.) See "Guidance for Comment Submissions by U.S. Industry on TBT Notifications" at <http://tsapps.nist.gov/notifyus/data/guidance/guidance.cfm> or <http://ec.europa.eu/growth/tools-databases/tbt/en/tbt-and-you/being-heard/> for advice on filing objections.

United States of America Notification USA/1444

Date issued: 7 March 2019

Agency responsible: Agricultural Marketing Service (AMS)

National inquiry point: Not available

Products covered: Potatoes

Title: Irish Potatoes Grown in Colorado; Handling Regulation for Area No. 2 (3 pages in English)

Description of content: This proposed rule invites comments on a recommendation to revise the size requirements currently prescribed under the federal marketing order for Irish potatoes grown in Colorado. This action would revise the minimum size requirement for U.S. No. 2 or better grade round potatoes to align with the current size requirements for all other types of U.S. No. 2 or better grade potatoes. In addition, this rule would revise the size requirements for smaller size profile U.S. Commercial grade or better potatoes.

Objective and rationale: Quality requirements; Cost saving and productivity enhancement

Relevant documents:

- 84 Federal Register (FR) 572, 31 January 2019; Title 7 Code of Federal Regulations (CFR) Parts 948. Will appear in the Federal Register when adopted.
- G/TBT/N/USA/1174 and G/TBT/N/USA/1174/Add.1 - Irish Potatoes Grown in Colorado; Modification of the Handling Regulation for Area No. 2

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 1 April 2019

Full text: https://members.wto.org/cnattachments/2019/TBT/USA/19_1323_00_e.pdf

Kuwait Notification KWT/513

Date issued: 6 March 2019

Agency responsible: Public Authority for Industry, Kuwait Standards and Metrology Department (PAI/KUWSMD)

National inquiry point: Public Authority for Industry, Kuwait Standards and Metrology Department (PAI/KUWSMD)

Products covered: All products fall under scope of KWS IEC 61347-1:2019 Lamp controlgear - Part 1: General and safety requirements
Title: Lamp controlgear - Part 1: General and safety requirements
Description of content: Specifies general and safety requirements for lamp controlgear for use on d.c. supplies up to 250 V and/or a.c. supplies up to 1 000 V at 50 Hz or 60 Hz
Objective and rationale: Protection of human health or safety
Relevant documents: IEC 61347-1:2015+AMD1:2017 CSV
Proposed date of adoption: 3 March 2019
Proposed date of entry into force: 1 September 2019
Final date for comments: 5 May 2019
Full text not published.

Kuwait Notification KWT/516

Date issued: 6 March 2019
Agency responsible: Public Authority for Industry, Kuwait Standards and Metrology Department (PAI/KUWSMD)
National inquiry point: Public Authority for Industry, Kuwait Standards and Metrology Department (PAI/KUWSMD)
Products covered: All products fall under scope of KWS IEC 60227-1:2019 Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 1: General requirements
Title: Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 1: General requirements
Description of content: Applies to rigid and flexible cables with insulation, and sheath if any, based on polyvinyl chloride, of rated voltages U_o/U up to and including 450/750 V used in power installations of nominal voltage not exceeding 450/750 V a.c. The particular types of cables are specified in IEC 60227-3, IEC 60227-4, etc
Objective and rationale: Protection of human health or safety
Relevant documents: IEC 60227-1:2007
Proposed date of adoption: 3 March 2019
Proposed date of entry into force: 1 September 2019
Final date for comments: 5 May 2019
Full text not published.

Ukraine Notification UKR/150

Date issued: 7 March 2019
Agency responsible: Ministry of Economic Development and Trade
National inquiry point: WTO National Enquiry Point & Information Processing Centre
Products covered: Electrical and electronic equipment
Title: The Draft of the Resolution of Cabinet of Ministers of Ukraine «On Amendments to the Resolution of Cabinet of Ministers of Ukraine dated March 10, 2017 . 139» (7 pages in Ukrainian)
Description of content: The Technical regulation on the restriction of the use of certain hazardous substances in electrical and electronic equipment was approved by the Resolution of the Cabinet of Ministers of Ukraine No 139 of 10 March 2017.
The Draft of the Resolution provides for the postponement of expiration terms of certain exceptions from the restrictions of use of certain hazardous substances in electrical and electronic equipment, supplement by certain components and materials as well as supplement a list of products that is not covered by current Technical Regulation by the new species.
Objective and rationale: The Draft of the Resolution has been developed in order to bring the provisions of the Technical Regulation in compliance with the standards of the EU Directive by making appropriate changes to the Annexes.
Relevant documents: G/TBT/N/UKR/106, G/TBT/N/UKR/106/Add.1
Proposed date of adoption: Not given by country
Proposed date of entry into force: Not given by country
Final date for comments: 6 May 2019
Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/UKR/full_text/pdf/UKR150\(ukrainian\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/UKR/full_text/pdf/UKR150(ukrainian).pdf)

China Notification CHN/1312

Date issued: 11 March 2019

Agency responsible: Standardization Administration of China (SAC)

National inquiry point: General Administration of Quality Supervision and Inspection and Quarantine of the People's Republic of China (AQSIQ)

Products covered: Wooden toothpick (HS:4421991090); Other articles of wood (HS 4421)

Title: National Standards of the P.R.C., Wooden Toothpick (11 pages in Chinese)

Description of content: Wooden tooth pick, as a kind of disposable contact material, is a sanitary product directly contacting with human oral cavity and closely related to human health. Therefore, in this standard the indicators relating to microorganism limitations affecting health are mandatory. The contents of this standard are: terminology and definitions, classification, specifications and tolerances, appearance quality inspections and microorganism limitation, inspection rules, labeling, packaging, transportation and storage.

Objective and rationale: Prevention of deceptive practices and consumer protection; Protection of human health or safety; Quality requirements

Relevant documents: None

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 10 May 2019

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/CHN/full_text/pdf/CHN1312\(simplified_chinese\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CHN/full_text/pdf/CHN1312(simplified_chinese).pdf)

ANSI public review announcements

The following documents have been announced for public review by ANSI. Please send your comments before the deadline to the person indicated and to ANSI's Board of Standards Review at psa@ansi.org.

Due 15 April 2019

BSR/ASSP Z359.3-201x, Safety Requirements for Lanyards and Positioning Lanyards (revision and redesignation of ANSI/ASSE Z359.3-2017)

This standard establishes requirements for the performance, design, marking, qualification, and verification testing and instructions for lanyards and positioning lanyards for users within the capacity range of 130 to 310 pounds (59 to 140 kg).

Single copy price: \$110.00

Order from and send comments to: Ovidiu Munteanu, OMunteanu@ASSP.org

BSR/NECA 303-201X, Standard for Installing and Maintaining Closed-Circuit Television (CCTV) (new standard)

This standard describes installation procedures for closed-circuit television system equipment installed for video surveillance and for protection of building interiors, building perimeter, and surrounding property. This publication applies to closed-circuit television (CCTV) systems and accessories as required for a complete and functional closed circuit television system for security and monitoring activities in non-hazardous locations both indoors and outdoors. It also covers periodic routine maintenance procedures for closedcircuit television systems.

Single copy price: \$25.00 (NECA members); \$55.00 (non-members)

Order from and send comments to: neis@necanet.org

Due 22 April 2019

BSR/AWS B2.1-1-018-201x, Standard Welding Procedure Specification (SWPS) for Self-Shielded Flux Cored Arc Welding of Carbon Steel (M-1/P-1, Group 1 or 2) 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, E71T-8, in the As-Welded Condition, Primarily Plate and Structural Applications (new standard)

This standard contains the essential welding variables for carbon steel in the thickness range of 1/8 inch (3 mm) through 1-1/2 inch (38 mm), using semiautomatic self-shielded flux-cored arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet and groove welds. This SWPS was developed primarily for plate and structural applications.

Single copy price: \$136.00

Order from: Jennifer Rosario, jrosario@aws.org

Send comments to: adavis@aws.org

BSR/AWS A5.8M/A5.8-201x, Specification for Filler Metals for Brazing and Braze Welding (revision of ANSI/AWS A5.8M/A5.8-2011)

This specification prescribes the requirements for the classification of brazing filler metals for brazing and braze welding. The chemical composition, physical form, and packaging of more than 120 brazing filler metals are specified. The brazing filler metal groups described include aluminum, cobalt, copper, gold, magnesium, nickel, palladium, silver, titanium, and brazing filler metals for vacuum service. Information is provided concerning the liquidus, the solidus, the brazing temperature range, and general areas of application recommended for each brazing filler metal. Additional requirements are included for manufacture, sizes, lengths, and packaging. A guide is appended to the specification as a source of information concerning the classification system employed and the intended use of the brazing filler metals for brazing and braze welding. This specification makes use of both the International System of Units (SI) and U.S. Customary Units. Since these are not equivalent, each must be used independently of the other.

Single copy price: \$38.00 (Nonmembers)/\$29.00 (AWS Members)

Order from and send comments to: Kevin Bulger; kbulger@aws.org

BSR/AWS D1.1/D1.1M-201x, Structural Welding Code - Steel (revision of ANSI/AWS D1.1/D1.1M-2015)

This code covers the welding requirements for any type of welded structure made from the commonly used carbon and low-alloy constructional steels. Clauses 1 through 10 constitute a body of rules for the regulation of welding in steel construction. There are normative and informative annexes in this code.

Single copy price: \$288.00

Order from and send comments to: Jennifer Molin, jmolin@aws.org

BSR/IAPMO Z1349-201x, Electronic Plumbing Supply System Integrity Protection Devices (new standard)

This standard covers electronic plumbing supply system integrity detection devices for commercial and residential applications and specifies requirements for materials, physical characteristics, performance testing, and markings. Electronic plumbing supply system integrity detection devices covered by this standard can include the following features: (a) Monitoring of the hydraulic conditions (pressure, temperature, flow) within the main or branch circuit; (b) Automatic shut-off or electronic alarm notification and/or isolation of the supply piping when conditions are detected that indicate a leak or equipment malfunction; (c) Iterative analysis of high-resolution readings of system conditions to ensure integrity; and (d) Micro leak testing (drip detection).

Single copy price: \$10.00

Order from and send comments to: Kyle Thompson, standards@iapmostandards.org

Due 8 May 2019

BSR/NFPA 70E-201x, Standard for Electrical Safety in the Workplace (revision of ANSI/NFPA 70E-2018)

This article contains only those definitions essential to the proper application of this standard. It is not intended to include commonly defined general terms or commonly defined technical terms from related codes and standards. In general, only those terms that are used in two or more articles are defined in Article 100. Other definitions are included in the article in which they are used but may be referenced in Article 100. The definitions in this article shall apply wherever the terms are used throughout this standard.

Obtain an electronic copy and comment at: <http://www.nfpa.org/70Enext>

BSR/NFPA 73-201x, Standard for Electrical Inspections for Existing Dwellings (revision of ANSI/NFPA 73-2016)

This standard provides criteria for identification of hazardous conditions of electrical systems in existing one-family, two-family, and multifamily dwellings, including mobile homes and manufactured homes.

Obtain an electronic copy and comment at: <http://www.nfpa.org/73next>

BSR/NFPA 101-201x, Life Safety Code (revision of ANSI/NFPA 101-2018)

The Code addresses those construction, protection, and occupancy features necessary to minimize danger to life from the effects of fire, including smoke, heat, and toxic gases created during a fire. It establishes minimum criteria for the design of egress facilities so as to allow prompt escape of occupants from buildings or, where desirable, into safe areas within buildings. It addresses other considerations that are essential to life safety in recognition of the fact that life safety is more than a matter of egress. It also addresses protective features and systems, building services, operating features, maintenance activities, and other provisions in recognition of the

fact that achieving an acceptable degree of life safety depends on additional safeguards to provide adequate egress time or protection for people exposed to fire. It also addresses other considerations that provide for occupant protection during emergency events involving hazardous materials. Incidents involving hazardous materials are capable of posing significant life safety challenges in buildings. It recognizes this potential and includes technical requirements to address concerns related to hazardous material inventories and associated emergencies. It also addresses reducing injury to occupants from falls. It also addresses other considerations that provide for communications to occupants under emergency conditions and to others. It also addresses other considerations that, while important in fire conditions, provide an ongoing benefit in other conditions of use, including non-fire emergencies.

Obtain an electronic copy and comment at: <http://www.nfpa.org/101next>

BSR/NFPA 160-201x, Standard for the Use of Flame Effects Before an Audience (revision of ANSI/NFPA 160-2016)

This standard shall provide requirements for the protection of the audience, support personnel, performers, operator, assistants, and property where flame effects are used.

Obtain an electronic copy and comment at: <http://www.nfpa.org/160next>

BSR/NFPA 220-201x, Standard on Types of Building Construction (revision of ANSI/NFPA 220-2018)

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.

Obtain an electronic copy and comment at: <http://www.nfpa.org/220next>

BSR/NFPA 221-201x, Standard for High Challenge Fire Walls, Fire Walls, and Fire Barrier Walls (revision of ANSI/NFPA 221-2018)

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.

Obtain an electronic copy and comment at: <http://www.nfpa.org/221next>

BSR/NFPA 703-201x, Standard for Fire-Retardant-Treated Wood and Fire-Retardant Coatings for Building Materials (revision of ANSI/NFPA 703-2018)

This standard provides criteria for defining and identifying fire-retardant-treated wood and fire-retardant-coated building materials.

Obtain an electronic copy and comment at: <http://www.NFPA.org/703next>

BSR/NFPA 791-201x, Recommended Practice and Procedures for Unlabeled Electrical Equipment Evaluation (revision of ANSI/NFPA 791-2018)

This document covers recommended procedures for evaluating unlabeled electrical equipment in conjunction with the applicable nationally recognized standards and any requirements of the Authority Having Jurisdiction.

Obtain an electronic copy and comment at: <http://www.nfpa.org/791next>

BSR/NFPA 1126-201x, Standard for the Use of Pyrotechnics before a Proximate Audience (revision of ANSI/NFPA 1126-2016)

This standard shall provide requirements for the protection of property, operators, performers, support personnel, and the viewing audiences where pyrotechnic effects are used indoors or outdoors with a proximate audience.

Obtain an electronic copy and comment at: <http://www.nfpa.org/1126next>

BSR/NFPA 1192-201x, Standard on Recreational Vehicles (revision of ANSI/NFPA 1192-2018)

This standard shall cover fire and life safety criteria for recreational vehicles.

Obtain an electronic copy and comment at: <http://www.nfpa.org/1192next>

BSR/NFPA 1194-201x, Standard for Recreational Vehicle Parks and Campgrounds (revision of ANSI/NFPA 1194-2017)

This standard shall provide minimum construction requirements for safety and health for occupants using facilities supplied by recreational vehicle parks and campgrounds offering temporary living sites for use by recreational vehicles, park model recreational vehicles, and other camping units.

Obtain an electronic copy and comment at: <http://www.nfpa.org/1194next>

BSR/NFPA 5000-201x, Building Construction and Safety Code (revision of ANSI/NFPA 5000-2018)

The Code addresses construction, protection, and occupancy features to minimize danger to life and property.

Obtain an electronic copy and comment at: <http://www.nfpa.org/5000next>

Notices of withdrawal

The following documents have not been revised or reaffirmed within ten years of their approval date, and are therefore withdrawn as American National Standards.

ANSI/IEEE 802.1ah-2008, Standard for Local and Metropolitan Area Networks - Virtual Bridged Local Area Networks - Amendment 6: Provider Backbone Bridges

ANSI/IEEE 802.11k-2008, Standard for Information Technology - Telecommunications and Information Exchange between Systems - Local and Metropolitan Area Networks - Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications - Amendment: Radio Resource Measurement of Wireless LANs

ANSI/IEEE 802.11r-2008, Standard for Information Technology - Telecommunications and Information Exchange between Systems - Local and Metropolitan Area Networks - Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications - Amendment 2: Fast BSS-Transition

ANSI/IEEE 802.20-2008, Standard for Local and Metropolitan Area Networks - Standard Air Interface for Mobile Broadband Wireless Access Systems Supporting Vehicular Mobility - Physical and Media Access Control Layer Specification

ANSI/IEEE 829-2008, Standard for Software and System Test Documentation

ANSI/IEEE 1394-2008, Standard for a High Performance Serial Bus

ANSI/IEEE 1541-2002 (R2008), Standard Prefixes for Binary Multiples

ANSI/IEEE C95.4-2002 (R2008), Recommended Practice for Determining Safe Distances from Radio Frequency Transmitting Antennas When Using Electric Blasting Caps During Explosive Operations

ANSI/IESNA LM-63-2002 (R2008), File Format for the Electronic Transfer of Photometric Data and Related Information

New ANS projects

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

BSR/C137.5-201X, Energy Reporting Requirements for Lighting Devices (new standard)

This standard will define the minimum performance requirements for lighting devices that report energy data. A set of requirements will be defined for one or more performance classes that meet the needs of stakeholders who use energy data to monitor and/or verify energy efficiency performance. Requirements that will be defined include the specific energy data types to be reported, the nominal and statistical accuracy performance for all

reported data types, and references to other standards that define the information model for all data types. Devices such as AC- and DC-powered light sources (including both integral replacement lamps and luminaires); LED drivers and other integral or remote power sources; lighting system or device controllers; and associated user interface devices are included in the scope of this standard. Devices that solely measure and/or aggregate energy data are excluded from the scope of this standard. Test methods to verify that devices meet minimum performance requirements are excluded from the scope of this standard.

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

BSR/CTA 2089-201x, Definitions and Characteristics of Artificial Intelligence (new standard)

This standard defines terms related to artificial intelligence and associated technologies.

Contact: Veronica Lancaster, vlancaster@cta.tech

BSR/CTA 709.1-D-2014 (R201x), Control Network Protocol Specification (reaffirmation of ANSI/CTA 709.1-D-2014)

This specification applies to a communication protocol for networked control systems. The protocol provides peer-to-peer communication for networked control and is suitable for implementing both peer-to-peer and primary-secondary control strategies.

Contact: Veronica Lancaster, vlancaster@cta.tech

BSR/ICC 1200-201x, Standard for Off-Site Construction: Planning, Design, Fabrication, and Assembly (new standard)

Development of a comprehensive standard to address all facets of the off-site construction process including: planning; designing; fabricating; transporting; and assembling commercial and residential building elements. This includes componentized, panelized, and modularized elements. This standard will not apply to HUD Manufactured Housing or “tiny homes.”

Contact: Karl Aittaniemi, kaittaniemi@iccsafe.org

BSR/ICC 1205-201x, Standard for Off-Site Construction: Inspection and Regulatory Compliance (new standard)

Development of a comprehensive standard to address the inspection, approval, and regulatory compliance of off-site residential and commercial construction components and their assembly and completion at the final building site. This includes: permitting; in-plant and on-site final inspections; third-party inspections; the role of Industrialized Building Departments, state modular programs, and the Authority Having Jurisdiction. Off-site construction includes componentized, panelized, and modularized elements. This standard will not apply to HUD Manufactured Housing or “tiny homes.”

Contact: Karl Aittaniemi, kaittaniemi@iccsafe.org

BSR/IES LS-2-20-201x, Lighting Science: Concepts and Language of Lighting (new standard)

Only the most important quantities and units used in lighting design and illuminating engineering that relate directly to optical radiation, light, and vision are described and defined in this TM. The technical words associated with lighting equipment, photometry, lighting calculations, color, and daylighting are defined in other documents in the IES Library, and they rely on an understanding of the material presented in this document.

Contact: Patricia McGillicuddy, pmcgillicuddy@ies.org

Final actions on American National Standards

The documents listed below have been approved by the ANSI Board of Standards Review or by an ANSI-Audited Designator on the date noted.

ANSI/ASME B89.1.7-2009 (R2019), Performance Standard for Steel Measuring Tapes (reaffirmation of ANSI/ASME B89.1.7-2009 (R2014)): 27 February 2019

ANSI/ASME B18.2.6-2019, Fasteners for Use in Structural Applications (revision, redesignation and consolidation of ANSI/ASME B18.2.6-2010 and ANSI/ASME B18.2.6 (Supplement)-2010): 27 February 2019

Draft IEC & ISO documents

This section lists proposed documents that the International Electromechanical Commission (IEC) or the International Organization for Standardization (ISO) are considering for approval. *Standards Watch* readers interested in reviewing and commenting on a document should order a copy from their national representative and submit their comments through them. Comments from US citizens on IEC and ISO documents should be sent to Charles T. Zegers at czegers@ansi.org and Karen Hughes at isot@ansi.org respectively. Any prices, if shown, are for purchases through ANSI. The sort order is by due date then alphanumeric.

64/2369/DTR, IEC TR 60479-4 ED3: Effects of current on human beings and livestock - Part 4: Effects of lightning strokes, 26 April 2019

34/592/FDIS, IEC 63128 ED1: Lighting control interface for dimming - Analogue voltage dimming interface for electronic current sourcing controlgear, 5 May 2019

34A/2133/FDIS, IEC 63146 ED1: LED packages for general lighting - Specification sheet, 5 May 2019

ISO/DIS 22313, Security and resilience - Business continuity management systems – Guidance, 11 May 2019, \$125.00

ISO/DIS 31022, Risk management - Guidelines for the management of legal risk, 23 May 2019, \$112.00

34/598/CD, IEC 63117 ED1: General requirements for lighting systems - Safety, 24 May 2019

This International Standard specifies the safety requirements of lighting systems, including but not limited to electrical safety and functional safety requirements. A lighting system as defined in IEC TS 63105 can comprise a set of products. Safety requirements of the products are specified in product safety standards. This standard does not specify safety aspect of information security. Depending on the type of the network, other standards, may be used.

34/597/CD, IEC 63116 ED1: Lighting systems - General requirements, 24 May 2019

This International Standard specifies general requirements for lighting systems. A lighting systems as defined in IEC TS 63105 can comprise a set of products. Requirements of the products are specified in product standards. For the general requirements of lighting systems, this standard prevails. This International Standard is not intended to provide detailed technical specifications for the construction of lighting systems but to specify requirements in general that will benefit lighting systems. This standard gives information for design, installation, operation and maintenance of a lighting system.

77B/798/CDV, IEC 61000-4-3 ED4: Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test, 24 May 2019

Recently published IEC & ISO documents

Listed here are documents recently approved by the IEC or ISO. Prices shown are if bought from ANSI.

IEC 60364-5-53 Ed. 4.0 en:2019, Low-voltage electrical installations - Part 5-53: Selection and erection of electrical equipment – Devices for protection for safety, isolation, switching, control and monitoring, \$352.00

IEC 62443-2-4 Amd.1 Ed. 1.0 b:2017, Amendment 1 - Security for industrial automation and control systems - Part 2-4: Security program requirements for IACS service providers, \$117.00

IEC 62443-2-4 Ed. 1.1 b:2017, Security for industrial automation and control systems - Part 2-4: Security program requirements for IACS service providers, \$645.00

IEC 62443-4-2 Ed. 1.0 b:2019, Security for industrial automation and control systems - Part 4-2: Technical security requirements for IACS components, \$375.00

ISO/IEC 19479:2019, Information technology for learning, education, and training - Learner mobility achievement information (LMAI), \$162.00

ISO/IEC 14496-33:2019, Information technology - Coding of audiovisual objects - Part 33: Internet video coding, \$232.00

ISO 20318-1:2019, Mechanical pencils and leads for general use - Classification, dimensions, quality and test methods - Part 1: Mechanical pencils, \$68.00

ISO/IEC 20546:2019, Information technology - Big data – Overview and vocabulary, \$68.00

ISO/IEC 21823-1:2019, Internet of things (IoT) - Interoperability for internet of things systems - Part 1: Framework, \$138.00

ISO/IEC 23005-5:2019, Information technology - Media context and control - Part 5: Data formats for interaction devices, \$232.00

ISO/IEC 23008-3:2019, Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 3: 3D audio, \$232.00

ISO/IEC 30129/Amd1:2019, Information technology - Telecommunications bonding networks for buildings and other structures - Amendment 1, \$45.00

IWA 29:2019, Professional farmer organization - Guidelines, \$103.00

TSP meeting schedule

The most up to date schedule sorted by day is available at <https://esta.org/ESTA/meetings.php>. The following meetings will be at the Hyatt Regency Louisville, in conjunction with the USITT Conference:

Electrical Power Working Group	11:00 – 14:00	Friday 22 March 2019
Electrical Power Inspection Task Group	08:00 – 12:00	Thursday 21 March 2019
Event Safety Fire Safety Task Group	14:00 – 18:00	Saturday 23 March 2019
Event Safety Working Group	14:00 – 18:00	Saturday 23 March 2019
Floors Working Group	14:00 – 17:00	Wednesday 20 March 2019
Followspot Position Working Group	19:00 – 22:00	Friday 22 March 2019
Rigging Working Group	19:00 – 22:00	Thursday 21 March 2019
Rigging E1-6.2 Chain Hoist Task Group	08:00 – noon	Thursday 21 March 2019
Stage Machinery E1.64 TG	09:00 – 13:00	Wednesday 20 March 2019
Stage Machinery Working Group	14:00 – 17:00	Thursday 21 March 2019
Technical Standards Council	15:00 – 18:00	Friday 22 March 2019

But wait! There's more! The summer TSP meetings will be held at the Marriott Solana in Westlake, TX, Friday 19 July through Sunday 21 July. The schedule is not yet finished. Check <https://esta.org/ESTA/meetings.php> for the most up to date schedule.

TSP Donors Who Have Made Long-Term, Multi-Year Pledges

About the Stage
Altman Lighting
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Columbus McKinnon Corporation
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TMB
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Altman Lighting, Inc.

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German Light Products

Stage Rigging

JR Clancy

TMB

McLaren Engineering Group

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VISIONARY (\$500 & up; <20 employees/members)

About the Stage

Link

B-Hive Industries, Inc.

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Scott Blair

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Boston Illumination Group

Mike Wood Consulting

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Power Gems

Candela Controls Inc.

Reed Rigging

Clark Reder Engineering

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Tracey Cosgrove & Mark McKinney

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Sapsis Rigging Inc.

EGI Event Production Services

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Theatre Safety Programs

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Brian Lawlor

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Michael Lay

WNP Services

Limelight Productions, Inc.

INVESTOR (\$3,000–\$9,999; >100 employees/members)

Actors' Equity Association

Lex

Barbizon Lighting Company

NAMM

Golden Sea Professional Lighting Provider

Rosco Laboratories

IATSE Local 728

Texas Scenic Company

IATSE Local 891

INVESTOR (\$1,500–\$4,999; 20–100 employees/members)

American Society of Theatre Consultants

Lycian Stage Lighting

Area Four Industries

Morpheus Lights

BMI Supply

Niscon Inc.

City Theatrical Inc.

Syracuse Scenery and Stage Lighting

H&H Specialties, Inc.

Tomcat

InterAmerica Stage, Inc.

XSF Xtreme Structures and Fabrication

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

Benjamin Cohen
Bright Ideas Custom Electronics Inc.
Bruce Darden
Guangzhou Ming Jing Lighting Equipment Co.
Indianapolis Stage Sales & Rentals, Inc.
K5600, Inc.

Qdot Lighting Ltd.
Robert Scales
Stephen Vanciel
Suga Koubou Co., Ltd.
VU-Industry Vision Technology
Xpro Light

SUPPORTER (<\$3,000; >100 employees/members)

Ian Foulds, IATSE Local 873
Harlequin Floors

Thern Stage Equipment
USAI Lighting

SUPPORTER (<\$1,500; 20–100 employees/members)

Blizzard Lighting, LLC
Geiger Engineers
Guangzhou YaFeng Optoelectronic Equipment Co.
High Output
InCord
iWeiss
LA ProPoint, Inc.
Nanshi Lighting

Oasis Stage Werks
Stage Equipment & Lighting
Stagemaker
Taurus Light Co. Ltd.
Thermotex Industries, Inc.
Vincent Lighting Systems
Zhuhai Shengchang Electronics Co.

SUPPORTER (<\$200; <20 employees/members)

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DMX Pro Sales
Tony Giovannetti
Pat Grenfell
Mitch Hefter
John Huntington
Beverly and Tom Inglesby
Eddie Kramer
Jason Kyle

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