



Technical Standards Program

ESTA Standards Watch

Late September 2019

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Last chance to order Behind the Scenes holiday cards

There is less than a week left to order 2019 BTS Holiday Cards. Final order deadline for personalized cards is 30 September. Order them before you can't at <https://behindthescenescharity.org/product-category/cards/>.

Three card ordering options are offered: card packs of 10 with a standard greeting, personalized cards with a company logo and custom message (whatever you want to say) in a minimum order of 250, and JPG or PDF versions for delivery by email. All proceeds benefit the Behind the Scenes charity, which provides financial assistance to entertainment technology professionals who are seriously ill or injured.

Three draft ESTA standards available for public review

Three new or revised standards are available for public review on the ESTA TSP website at <http://estalink.us/pr>. Anyone materially affected by the documents is invited to review them and to offer comments before the deadline. The review documents are available for free. They are listed below in order of action due-date. Note that the reviews do not all end on the same day.

BSR E1.62, Minimum specifications for mass-produced portable platforms, ramps, stairs, and choral risers for live performance events, is being offered for a fourth public review. The proposed 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 entertainment and 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. The scope also covers the railings provided as fall protection accessories, and the legging systems. The public review runs through September 23; by the start of September 24 the review is finished.

BSR E1.4-3, Entertainment Technology — Manually Operated Hoist Rigging Systems, is a standard for permanently installed, human-powered manually operated hoists, used as part of rigging systems for raising, lowering, and suspension of scenery, properties, lighting, and similar loads. This standard establishes requirements for the design, manufacture, installation, inspection, and maintenance of manual hoist systems for lifting and suspension of loads for performance, presentation, and theatrical production. The public review runs through October 7. It is finished when October 8 starts.

BSR E1.21, Entertainment Technology — Temporary Structures Used for Technical Production of Outdoor Entertainment Events, is a revision of ANSI E1.21-2013 to deepen the requirements for operations management plans, designated person responsibilities, and related requirements. E1.21 establishes a minimum acceptable level of design and performance parameters to ensure structural reliability, safety, and to establish a reasonable standard of care for temporary special event structures. The public review runs through October 28. It is over when October 29 starts.

Register for 2020 NAMM Show with ESTAATNAMM

ESTA has announced that registration is now open for the 2020 NAMM Show, running from January 16 through 19 in Anaheim, California. Registration is \$25 with the code ESTAATNAMM through November 1. Rates will double on November 2 and double again on January 6. The NAMM Show badge gets you free access to all of ESTA's curated education sessions, five days of training in Rigging, Safety, Lighting & Electrical, and Lighting Networking.

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 TBTs, you can protest through your representative to the World Trade Organization. See the guidance documents at <http://tsapps.nist.gov/notifyus/data/guidance/guidance.cfm> or <http://ec.europa.eu/growth/tools-databases/tbt/en/tbt-and-you/being-heard/> for advice on filing objections.

Macao China Notification MAC/14

Date issued: 19 September 2019

Agency responsible: Macau Economic Services

National inquiry point: Macau Economic Services

Products covered: Lights, domestic appliances; sound equipment and audio-visual equipment; information technology equipment; hand-held power tools; toys.

Title: Recognizing the Safety Standards for Products under the Categories of Lights, Domestic Appliances, Sound Equipment and Audio-Visual Equipment, Information Technology Equipment, Hand-held Tools, as well as Toys (9 pages, in Chinese and Portuguese)

Description of content: This Decision sets out the safety standards recognized for products under the categories of lights, domestic appliances, sound equipment and audio-visual equipment, information technology equipment, hand-held tools, as well as toys.

Objective and rationale: Protection of human health or safety

Relevant documents: - Macao Special Administrative Region Official Gazette No. 13 Series I, Chief Executive's Decision No. 61/2014 of 31 March 2014.

<https://images.io.gov.mo/bo/i/2014/13/despce-61-2014.pdf>

Proposed date of adoption: 29 June 2014 [sic]

Proposed date of entry into force: 29 June 2014 [sic]

Final date for comments: Not given by country

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/MAC/full_text/pdf/MAC14\(Portuguese\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/MAC/full_text/pdf/MAC14(Portuguese).pdf) and [https://tsapps.nist.gov/notifyus/docs/wto_country/MAC/full_text/pdf/MAC14\(traditional_chinese\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/MAC/full_text/pdf/MAC14(traditional_chinese).pdf)

Canada Notification CAN/599

Date issued: 16 September 2019

Agency responsible: Department of Innovation, Sciences and Economic Development

National inquiry point: Foreign Affairs, Trade and Development Canada

Products covered: Radiocommunications

Title: Notice No. SMSE-007-19 - Release of: RSS-123, Issue 4 (6 pages, available in English and French) RSS-181, Issue 2 (9 pages, available in English and French) RSP-100, Issue 12 (25 pages, available in English and French)

Description of content: Notice is hereby given by the Ministry of Innovation, Science and Economic Development Canada that the following have been published at

http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/h_sf06129.html:

- RSS-123, Issue 4, Licensed Wireless Microphones sets out the certification requirements for wireless microphones.
- RSS-181, Issue 2, Coast and Ship Station Equipment operating in the Maritime Service in the Frequency Range 1 605-28 000 kHz sets out certification requirements for equipment operating in the maritime service in the frequency range 1605-28000 kHz.
- RSP-100, Issue 12, Certification of Radio Apparatus sets out the certification procedure for radio apparatus and broadcasting equipment that fall under Radio Standards Specifications (RSSs) and Broadcasting Equipment Technical Standards (BETSs), respectively

Objective and rationale: Spectrum Management

Relevant documents: Canada Gazette, Part I, 7 September 2019, (available in English and French):

<http://www.gazette.gc.ca/rp-pr/p1/2019/2019-09-07/html/index-eng.html>

Proposed date of adoption: 29 August 2019

Proposed date of entry into force: 29 August 2019

Final date for comments: 29 October 2019

Saint Lucia Notification LCA/55

Date issued: 23 September 2019

Agency responsible: St. Lucia Bureau of Standards (SLBS)

National inquiry point: St. Lucia Bureau of Standards (SLBS)

Products covered: Measuring instruments subject to pattern or type approval under Saint Lucia's Metrology Act Chapter 13.18. 8413.11 Fuel dispensers 8413.91 Other 8423.20 Scales for continuous weighing of goods on conveyors 8423.30 Constant weight scales and scales for discharging a predetermined weight of material into a bag or container, including hopper scales 8423.81 Having a maximum weighing capacity not exceeding 30 kg 8423.82 Having a maximum weighing capacity exceeding 30 kg but not exceeding 5,000 kg 8423.89 Other 8423.90 Weighing machine weights of all kinds; parts of weighing machinery 9016.00 Balances of a sensitivity of 5 cg or better, with or without weights. 9017.80 Other instruments 9018.90 Blood pressure monitors 9024.80 Other machines and appliances 9025.11 Liquid-filled, for direct reading 9025.19 Other 9026.20 For measuring or checking pressure 9027.80 Breathalyzers 9028.10 Gas meters 9028.20 Water meters 9028.30 Electrical energy meters 9031.80 Other instruments

Title: Statutory Instrument No.98 of 2019

Description of content: The procedure for pattern or type approval of measuring instruments, as given in the Metrology Act Chapter 13.18, has been amended.

Objective and rationale: Alignment of Saint Lucia's procedure for type or pattern approval of measuring instruments with international best practice as per OIML publications and conformity assessment principles; Harmonization; Other

Relevant documents: Metrology Act Cap. 13.18, Statutory Instrument No. 98 of 2019

Proposed date of adoption: 1 October 2019

Proposed date of entry into force: 1 October 2019

Final date for comments: 1 November 2019

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/LCA/full_text/pdf/LCA55\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/LCA/full_text/pdf/LCA55(english).pdf)

Argentina Notification ARG/373

Date issued: 18 September 2019

Agency responsible: Secretariat of Domestic Trade

National inquiry point: TBT-WTO Focal Point of the Argentine Republic

Products covered: Light-emitting diode (LED) lamps for general lighting services; electric filament or discharge lamps, including sealed beam lamp units and ultra-violet or infra-red lamps; arc-lamps (HS 8539)

Title: Etiquetado de rendimiento o eficiencia energética de lámparas de diodos emisores de luz (LED) para iluminación general (Performance and energy efficiency labelling of light-emitting diode (LED) lamps for general lighting services) (13 pages in Spanish)

Description of content: The notified text establishes the entry into force of the mandatory certification regime on the performance and energy efficiency labelling of household electrical products (SICyM Resolution No. 319/1999 and the amendments thereto), with regard to LED lamps for general lighting services.

Objective and rationale: Consumer information, labelling; Prevention of deceptive practices and consumer protection; Protection of human health or safety; Quality requirements.

Relevant documents:

- SICyM Resolution No. 319/1999 - consolidated text (G/TBT/Notif.99/498)
- SCI Resolution No. 262/2019 - consolidated text (G/TBT/N/ARG/294/Add.7)

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 17 November 2019

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/ARG/full_text/pdf/ARG373\(spanish\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/ARG/full_text/pdf/ARG373(spanish).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 28 October 2019

BSR/AWS B2.1/B2.1M-201x, Specification for Welding Procedure and Performance Qualification (revision of ANSI/AWS B2.1/B2.1M-2013)

This specification provides the requirements for qualification of welding procedure specifications, welders, and welding operators for manual, semiautomatic, mechanized, and automatic welding. The welding processes included are electrogas welding, electron-beam welding, electroslag welding, flux-cored arc welding, gas metal arc welding, gas tungsten arc welding, laser beam welding, oxyfuel gas welding, plasma arc welding, shielded metal arc welding, stud arc welding, and submerged arc welding. Base metals, filler metals, qualification variables, welding designs, and testing requirements are also included.

Single copy price: \$132.00

Order from: Jennifer Rosario, jrosario@aws.org

Send comments to: adavis@aws.org

BSR/CTA 2006-C-201x, Testing and Measurement Methods for In-Vehicle Audio Amplifiers (revision and redesignation of ANSI/CTA 2006-B-2009 (R2019))

This standard defines characteristics that, considered collectively, describe the performance of power amplifiers designed for in-vehicle applications. Power amplifiers designed for in-vehicle applications include, but are not limited to, separate single- and multichannel amplifiers, integrated amplifiers, and bandwidth-limited amplifiers that are connected to and rely solely on the vehicle's primary electrical system for power input and have output power ratings of greater than 5 W when measured in accordance with this standard.

Single copy price: Free

Order from and send comments to: standards@cta.tech

BSR/E1.21-201x, Entertainment Technology - Temporary Structures Used for Technical Production of Outdoor Entertainment Events (revision of ANSI E1.21-2013)

BSR E1.21, Entertainment Technology - Temporary Structures Used for Technical Production of Outdoor Entertainment Events, is a revision of ANSI E1.21-2013 to deepen 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 of care for temporary special event structures.

Single copy price: Free

Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php

Send comments to: Richard Nix, standards@esta.org

BSR/UL 970-201x, Standard for Safety for Retail Fixtures and Merchandise Displays (new standard)

This proposed first edition of the Standard for Retail Fixtures and Merchandise Displays covers non-refrigerated or heated commercial displays and other case goods used in retail establishment, including bakeries and restaurants. The term “display(s)” is used to refer to all of the types of products covered by this standard. The products are used in accordance with the National Electrical Code, ANSI/NFPA 70. They are intended for dry, damp, or wet locations and include both electrified and non-electrified products and may include, but are not limited to: shelving units (Gondolas); merchandise kiosks (e.g., mini-stores in the middle of a mall); Point of Sale (POS); motorized displays; hanging displays; wall systems; showcases; display cases; cash wraps, check-out stands (motorized & non-motorized); temporary displays; and product platforms. These requirements cover products rated 600 V ac or less, including those powered by primary or secondary batteries.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Follow the instructions to enter comments at: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Due 4 November 2019

BSR/ASSP A10.46.201X, Hearing Loss Prevention for Construction and Demolition Workers (revision of ANSI/ASSP A10.46-2013)

This standard applies to all construction and demolition workers with potential noise exposures (continuous, intermittent, and impulse) of 85 dBA and above. It is intended to help employers prevent occupational hearing loss among construction and demolition workers.

Single copy price: \$140.00

Order from and send comments to: TFisher@ASSP.Org

BSR/AWS B2.1-1-002-201x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Carbon Steel, (M-1/P-1, Group 1 or 2), 3/16 inch [5 mm] through 7/8 inch [22 mm], ER70S-2, ER70S-3, in the As-Welded Condition, Primarily Plate and Structural Applications (new standard)

This standard contains the essential welding variables for carbon steel plate and pipe in the thickness range of 3/16 inch [5 mm] through 7/8 inch [22 mm], using manual gas tungsten 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/BOMA Z65.2-201x, BOMA 2019 for Industrial Buildings: Standard Methods of Measurement (revision of ANSI/BOMA Z65.2 -2012)

The primary objectives of this standard are: To promote an unambiguous framework for determining the areas of Industrial Buildings with a strong focus on Rentable Area calculations. To facilitate transparency and clear communication of building measurement concepts among all participants in the commercial real estate industry. To allow a comparison of values on the basis of a clearly understood and generally agreed upon method of measurement. To align concepts and measurement methodologies with the International Property Measurement Standards: Industrial Buildings (January 2018) document.

Single copy price: Free

Obtain an electronic copy from and send comments to: tjohnston@boma.org and lprats@boma.org

BSR/IAPMO USHGC 1-201x, Uniform Solar, Hydronics and Geothermal Code (revision of ANSI/IAPMO USHGC 1-2018)

The provisions of this code applies to the erection, installation, alteration, repair, relocation, replacement, addition to, use, or maintenance of solar energy, hydronic, and geothermal energy systems including but not

limited to equipment and appliances intended for space heating or cooling; water heating; swimming pool heating or process heating; and snow and ice melt systems.

Single copy price: \$10.00

Order from and send comments to: Hugo Aguilar, Hugo.Aguilar@iapmo.org

BSR C82.77-4-201X, Standard for Lighting Equipment - Electromagnetic Compatibility (EMC) Testing and Measurement Techniques - Power Frequency Magnetic Field Immunity Test (national adoption with modifications of IEC 61000-4-8 Edition 2 2009)

This standard is a Nationally Acknowledged International Standard (NAIS) of IEC 61000-4-8 with regional deviations.

Single copy price: \$50.00

Order from and send comments to: Michael Erbesfeld, Michael.Erbesfeld@nema.org

BSR/UL 508A-201X, Standard for Safety for Industrial Control Panels (revision of ANSI/UL 508A-2018)

Recirculate the following topics from the previous ballot: (1) ECBT2 connectors in control circuits; (4) Sizing of branch circuit protection for heater loads; (5) Emergency stop devices in panels; (6) Wire positioning devices in panels; (7) Sizing the feeder: same approach for all panels; (10) SB 4.3.3 - Addition of Class CF; (11) 55.4 Multiple Disconnect sign; (13) Revision of 31.4.1(c) to correlate with NEC 430.53(C)(1); (14) Bus bar construction requirements for 100kA SCCR without testing; (16) Color coding; (17) Correction of 700A Class T fuse lethrough in Table SB4.2; and (18) Add UL 61010-2-201 to Par. 42.2.3.1 Ex. 2.

Single copy price: ???

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Enter comments at: <https://csds.ul.com/Home/ProposalsDefault.aspx>

BSR/UL 588-201X, Standard for Safety for Seasonal and Holiday Decorative Products (revision of ANSI/UL 588-2018)

Proposals for (1) new requirements for CXTW-IS and CXTW-S; (2) miscellaneous revisions; (3) clarification of marking requirement and addition of references to UL 62368-1 and UL 2749 for Class 2 power supplies; (4) clarification of minimum number of lamps in all year-use string lights; (5) addition of requirements for commercial-use lighting strings; (6) mechanical securement; and (7) series connected lighting strings employing E12/E17 male screw-base termination.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Enter comments at: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Due 14 November 2019

BSR/NFPA 1937-201x, Standard for the Selection, Care, and Maintenance of Rescue Tools (new standard)

This document shall specify the selection, care, and maintenance of rescue tools and associated components, to also include shoring and stabilization equipment used in vehicle extrication.

Obtain an electronic copy from and offer comments at: www.nfpa.org/1937next

BSR/NFPA 12-201x, Standard on Carbon Dioxide Extinguishing Systems (revision of ANSI/NFPA 12-2018)

This standard contains minimum requirements for carbon dioxide fire-extinguishing systems. This standard includes only the necessary essentials to make it workable in the hands of those skilled in this field.

Obtain an electronic copy from and offer comments at: www.nfpa.org/12next

BSR/NFPA 12A-201x, Standard on Halon 1301 Fire Extinguishing Systems (revision of ANSI/NFPA 12A-2018)

This standard includes only the essentials to make it workable in the hands of those skilled in this field.

Obtain an electronic copy from and offer comments at: www.nfpa.org/12Anext

BSR/NFPA 33-201x, Standard for Spray Application Using Flammable or Combustible Materials (revision of ANSI/NFPA 33-2018)

This standard shall apply to the spray application of flammable or combustible materials, as defined in this standard, either continuously or intermittently by any of the following methods: (1) compressed air atomization, (2) Airless or hydraulic atomization, (3) Electrostatic application methods, and (4) Other means of atomized

application. This standard shall also apply to the application of flammable or combustible materials, as defined in this standard, either continuously or intermittently by any of the following methods: (1) Fluidized bed application methods, (2) Electrostatic fluidized bed application methods, and (3) Other means of fluidized application. Obtain an electronic copy from and offer comments at: www.nfpa.org/33next

BSR/NFPA 34-201x, Standard for Dipping, Coating, and Printing Processes Using Flammable or Combustible Liquids (revision of ANSI/NFPA 34-2018)

This standard shall apply to dipping, roll coating, flow coating, curtain coating, printing, cleaning, and similar processes, referred to in this standard as “coating processes” or “processes,” in which articles or materials are passed through tanks, vats, or containers, or passed over rollers, drums, or other process equipment that contain flammable or combustible liquids. This standard shall also apply to cleaning processes that utilize a solvent vapor. This standard applies to processes that use waterborne, water-based, and water-reducible materials containing combustible liquids or that produce combustible deposits or residues. Obtain an electronic copy from and offer comments at: www.nfpa.org/34next

BSR/NFPA 79-201x, Electrical Standard for Industrial Machinery (revision of ANSI/NFPA 79-2018)

The provisions of this standard shall apply to the electrical/electronic equipment or systems of industrial machines supplied from a nominal voltage of 1000 volts or less, and commencing at the point of connection of the supply circuit conductors to the electrical equipment of the machine. Obtain an electronic copy from and offer comments at: www.nfpa.org/79next

BSR/NFPA 92-201x, Standard for Smoke Control Systems (revision of ANSI/NFPA 92-2018)

This standard shall apply to the design, installation, acceptance testing, operation, and ongoing periodic testing of smoke control systems. Obtain an electronic copy from and offer comments at: www.nfpa.org/92next

BSR/NFPA 102-201x, Standard for Grandstands, Folding and Telescopic Seating, Tents, and Membrane Structures (revision of ANSI/NFPA 102-2016)

This standard addresses: (1) The construction, location, protection, and maintenance of grandstands and bleachers, folding and telescopic seating, tents, and membrane structures and (2) Seating facilities in the open air or within enclosed or semi-enclosed structures such as tents, membrane structures, and stadium complexes. Obtain an electronic copy from and offer comments at: www.nfpa.org/102next

BSR/NFPA 170-201x, Standard for Fire Safety and Emergency Symbols (revision of ANSI/NFPA 170-2018)

This standard presents symbols used for fire safety, emergency, and associated hazards. Obtain an electronic copy from and offer comments at: www.nfpa.org/170next

BSR/NFPA 225-201x, Model Manufactured Home Installation Standard (revision of ANSI/NFPA 225-2017)

This model standard shall cover the installation of manufactured homes wherever sited in the United States and its territories. The manufacturer’s installation instructions shall apply under either of the following conditions: (1) To items not covered by this standard and (2) Where the manufacturer’s approved installation instructions provide a specific method of performing a specific operation or assembly. Obtain an electronic copy from and offer comments at: www.nfpa.org/225next

BSR/NFPA 501-201x, Standard on Manufactured Housing (revision of ANSI/NFPA 501-2017)

This standard shall cover all the equipment and installations used in the design, construction, transportation, fire safety, plumbing, heat-producing, and electrical systems of manufactured homes that are designed to be used as dwelling units. This standard shall establish performance requirements. In certain instances the use of specific requirements is necessary. Obtain an electronic copy from and offer comments at: www.nfpa.org/501next

BSR/NFPA 501A-201x, Standard for Fire Safety Criteria for Manufactured Home Installations, Sites, and Communities (revision of ANSI/NFPA 501A-2017)

This standard shall cover fire-safety requirements for the installation of manufactured homes and manufactured home sites, including accessory buildings, structures, and communities. Obtain an electronic copy from and offer comments at: www.nfpa.org/501Anext

BSR/NFPA 520-201x, Standard on Subterranean Spaces (revision of ANSI/NFPA 520-2016)

This standard addresses the safeguarding of life and property against fire, explosion, and related hazards associated with developed subterranean spaces. This standard does not cover the following types of subterranean spaces: (1) Tourist caverns, (2) Wine storage caverns, (3) Gas and oil storage reservoirs, (4) Hazardous waste repositories, (5) Utility installations such as pump stations, (6) Working mines, (7) Transportation and pedestrian tunnels, (8) Above-ground buildings with below-ground stories, and (9) Cut and cover underground structures specifically addressed in the building code.

Obtain an electronic copy from and offer comments at: www.nfpa.org/520next

BSR/NFPA 909-201x, Code for the Protection of Cultural Resource Properties - Museums, Libraries, and Places of Worship (revision of ANSI/NFPA 909-2017)

This code describes principles and practices of protection for cultural resource properties (including, but not limited to, museums, libraries, and places of worship), their contents, and collections, against conditions or physical situations with the potential to cause damage or loss. This code covers ongoing operations and rehabilitation and acknowledges the need to preserve culturally significant and character-defining building features and sensitive, often irreplaceable, collections; and to provide continuity of operations.

Obtain an electronic copy from and offer comments at: www.nfpa.org/909next

DIN public review announcement

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

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

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

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

New ANS projects

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

BSR/IES LM-85-201x, Approved Method: Optical and Electrical Measurements of LED Packages and LED Arrays (new standard)

To provide practical and improved measurement procedures for achieving accurate measurement results.

Contact: Patricia McGillicuddy, pmcgillicuddy@ies.org

BSR/IES TM-25-201x, Ray File Format for the Description of the Emission Property of Light Sources (new standard)

In the past few decades, the optical design of illumination systems (non-imaging optics) has benefited greatly from the advances in computer hardware and software. Many commercially available ray-tracing optical design and simulation software programs have been developed to support a wide variety of optical design tasks. All of these software packages can use ray files as source models. Ray files are typically generated by light source

manufacturers using either an optical simulation or physical measurements using near-field goniometers. These ray files are then put in a specific format for each optical design program, which allows optical engineers to integrate the light source characteristics into their optical system design simulations. Ray files describe light sources by a large number of rays with individual start location, direction, flux, and optional spectral and/or polarization data.

Contact: Patricia McGillicuddy, pmcgillicuddy@ies.org

BSR/UL 8400-201X, Standard for Safety for Virtual Reality, Augmented Reality and Mixed Reality Technology Equipment - Part 1: Safety (new standard)

This standard is applicable to the safety of electrical and electronic equipment within the field of virtual reality, augmented reality, and mixed reality technology with a rated voltage not exceeding 600 V. Examples include but are not limited to VR/AR/MR head-mounted displays, holographic displays, AR glasses, hand-held AR devices, and VR simulators. This standard does not address its physiological and psychological effects other than virtual reality sickness (whose symptoms are similar to motion sickness). The standard does not cover risk of electrical shock, fire, thermal burn, and other product safety aspects already covered by the UL/IEC 62368-1 requirements for wearable electronics other than by reference.

Contact: Jennifer Fields, jennifer.fields@ul.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 E1.27-2-2009 (R2019), Entertainment Technology – Recommended Practice for Permanently Installed Control Cables for Use with ANSI E1.11 (DMX512-A) and USITT DMX512/1990 Products (reaffirmation of ANSI E1.27-2-2009 (R2014)): 9 September 2019

ANSI E1.30-10-2009 (R2019), EPI 32, Identification of Draft Device Description Language Modules (reaffirmation of ANSI E1.30-10-2009 (R2014)): 9 September 2019

ANSI E1.30-3-2009 (R2019), EPI 25, Time Reference in ACN Systems Using SNTP and NTP (reaffirmation of ANSI E1.30-3-2009 (R2014)): 9 September 2019

ANSI MH16.1-2012 (R2019), Specification for the Design, Testing and Utilization of Industrial Steel Storage Racks (reaffirmation of ANSI MH16.1 -2012): 12 September 2019

ANSI MH24.2-2019, Power-Operated Vertical Carousels and Vertical Lift Modules (revision of ANSI MH24.2-2016): 16 September 2019

ANSI/ASME B30.10-2019, Hooks (revision of ANSI/ASME B30.10-2014): 3 September 2019

ANSI/OPEI 60335-2-107-2019, (Standard) for Outdoor Power Equipment - Household and similar electrical appliances - Safety - Part 2-107: Particular requirements for robotic battery powered electrical lawnmowers (national adoption with modifications of IEC 60335-2-107): 5 September 2019

ANSI/TIA J-STD-025-B-3-2013 (R2019), Lawfully Authorized Electronic Surveillance (LAES) - Addendum 3: Support for BSID or Subnet (reaffirmation of ANSI/TIA J-STD-025-B-3-2013): 10 September 2019

ANSI/UL 60947-5-5-2019, Standard for Safety for Low-voltage Switchgear and Controlgear - Part 5-5: Control Circuit Devices and Switching Elements - Electrical (identical national adoption of IEC 60947-5-5 and revision of ANSI/UL 60947-5-5-2017): 13 September 2019

ANSI/UL 8800-2019, Standard for Safety for Horticultural Lighting Equipment and Systems (new standard): 30 August 2019

INCITS/ISO/IEC 20546:2019 [2019], Information technology - Big data - Overview and vocabulary (identical national adoption of ISO/IEC 20546:2019): 9 September 2019

Draft IEC & ISO documents

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

21/1021/Q, Revision of IEC 62902 Ed1 on “Secondary cells and batteries - Marking symbols for identification of their chemistry”, 2 October 2019

CIS/H/400/CDV, IEC 61000-6-3 ED3: Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for equipment in residential environments, 2 November 2019

CIS/H/401/CDV, IEC 61000-6-8 ED1: Electromagnetic compatibility (EMC) - Part 6-8: Generic standards - Emission standard for professional equipment in commercial and light-industrial locations, 2 November 2019

ISO/DIS 52127-1, Energy performance of buildings – Building management system - Part 1: Module M10-12, 25 November 2019, \$71.00

Recently published IEC & ISO documents

Listed here are documents recently approved by the IEC or ISO that may be of use or interest to *Standards Watch* readers. Prices shown are from the [ANSI Webstore](#).

IEC 60092-201 Ed. 5.0 en:2019, Electrical installations in ships – Part 201: System design - General, \$281.00

IEC 60092-302-2 Ed. 1.0 en:2019, Electrical installations in ships - Part 302-2: Low voltage switchgear and controlgear assemblies - Marine power, \$164.00

IEC 60092-SER Ed. 1.0 b:2019, Electrical installations in ships – ALL PARTS, \$3943.00

IEC 61293 Ed. 2.0 b:2019, Marking of electrical equipment with ratings related to electrical supply - Safety requirements, \$82.00

IEC 62657-2 Amd.1 Ed. 2.0 b:2019, Amendment 1 – Industrial communication networks - Wireless communication networks – Part 2: Coexistence management, \$117.00

IEC 62657-2 Ed. 2.1 b:2019, Industrial communication networks - Wireless communication networks - Part 2: Coexistence management, \$645.00

ISO 21723:2019, Buildings and civil engineering works – Modular coordination - Module, \$68.00

ISO 22111:2019, Bases for design of structures – General requirements, \$185.00

ISO/IEC 30106-4:2019, Information technology - Object oriented BioAPI - Part 4: C++ implementation, \$209.00

TSP October 2019 meeting schedule

The following meetings will be at the Marriott Solana in Westlake, TX. The meeting schedule is posted at <https://esta.org/ESTA/meetings.php>. Use the "Reserve a Hotel Room" link to reserve a hotel room. The rate is \$92 and the deadline is 16 October.

Control Protocols IPv6 PIDs (RDM) Task Group	14:00 – 18:00	Saturday 26 October 2019
Control Protocols Next Gen Task Group	09:00 – 13:00	Sunday 27 October 2019
Control Protocols Task Group (unregistered topic)	19:00 – 23:00	Friday 25 October 2019
Control Protocols Working Group	09:00 – 13:00	Saturday 26 October 2019
Electrical Power Working Group	19:00 – 23:00	Friday 25 October 2019
Event Safety Fire Safety TG	09:00 – 13:00	Saturday 26 October 2019
Event Safety Rigging Task Group	09:00 – 13:00	Friday 25 October 2019
Event Safety Working Group	14:00 – 18:00	Saturday 26 October 2019
Floors Working Group	09:00 – 13:00	Friday 25 October 2019
Fog & Smoke Working Group	14:00 – 18:00	Thursday 24 October 2019
Followspot Position Working Group	16:00 – 18:00	Friday 25 October 2019
Photometrics Working Group	14:00 – 18:00	Sunday 27 October 2019
Rigging E1.39	09:00 – 13:00	Saturday 26 October 2019
Rigging E1.67 TG	14:00 – 18:00	Friday 25 October 2019
Rigging Working Group	19:00 – 23:00	Saturday 26 October 2019
Stage Machinery Working Group	19:00 – 23:00	Thursday 24 October 2019
Stage Machinery E1.6-4 Task Group	09:00 – 13:00	Friday 25 October 2019
Stage Machinery E1.64 Task Group	14:00 – 18:00	Thursday 24 October 2019
Technical Standards Council	09:00 – 13:00	Sunday 27 October 2019

TSP January 2020 meeting schedule

The following meetings will be at the Wyndham Garden Anaheim in conjunction with the 2020 NAMM Show. If attending NAMM, use code ESTAATNAMM now through 1 November for a \$25 registration. It costs more without it!

Control Protocols E1.20 TG	14:00 – 18:00	Wednesday 15 January 2020
Control Protocols E1.37-4 TG	19:00 – 23:00	Friday 17 January 2020
Control Protocols E1.37-5 TG	19:00 – 23:00	Wednesday 15 January 2020
Control Protocols E1.59 Automation Feedback TG	08:00 – 23:00	Thursday 16 January 2020
Control Protocols E1.68 Compliance TG	14:00 – 18:00	Thursday 16 January 2020
Control Protocols Next Gen Library	19:00 – 23:00	Saturday 18 January 2020
Control Protocols Next Gen Overall CG	14:00 – 18:00	Friday 17 January 2020
Control Protocols Working Group	09:00 – 11:30	Friday 17 January 2020
Event Safety Fire Safety TG	09:00 - 13:00	Saturday 18 January 2020
Event Safety Working Group	14:00 - 18:00	Saturday 18 January 2020
Floors Working Group	09:00 - 13:00	Saturday 18 January 2020
Followspot Position Working Group	09:00 - 13:00	Thursday 16 January 2020
Photometrics Working Group	15:00 - 18:00	Friday 17 January 2020
Rigging Working Group:	19:00 - 23:00	Friday 17 January 2020
Stage Machinery E1.6-4 TG	14:00 - 18:00	Friday 17 January 2020
Stage Machinery E1.64 TG	09:00 - 13:00	Thursday 16 January 2020
Stage Machinery Working Group	14:00 - 18:00	Thursday 16 January 2020
Technical Standards Council	09:00 - 13:00	Sunday 19 January 2020

ESTA Standards Watch

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