

ESTA Standards Watch

June 2016 Volume 20, Number 11

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Four ESTA Standards In Public Review: Last Call for Three

This is the last call for the three of the four draft standards posted on the Technical Standards Program public review page. Check 'em out at http://tsp.esta.org/tsp/documents/public_review_docs.php. Anyone who would be materially affected by the publication of these documents as American National Standards is invited to submit comments.

Due before 28 June 2016

BSR E1.40-201x, Recommendations for the Planning of Theatrical Dust Effects

A wide variety of products are used to create dust effects in motion picture and television production, and also in live theatrical productions and theme parks. The use of dust aerosols raises concerns for potential hazards, including combustibility and health effects from inhalation or ingestion, which are well-known in some industrial sectors, but are poorly understood in others. This document would provide recommendations for how to plan the use and assess the safety of such effects.

This document was last approved as an American National Standard in 2011 and is being revised to warn against deflagration--deflagration being the technical term for the wave of flame that burned hundreds of people at a water park in Taiwan last year. Other changes include a regrouping of types of dusts and changing MSDS references to SDS references.

BSR E1.41 - 201x, Recommendations for Measuring and Reporting Photometric Performance Data for Entertainment Luminaires Utilizing Solid State Light Sources

This standard is intended to be used for the presentation of photometric data for luminaires employing solid state light sources used in the entertainment and performance industries. This standard defines photometric data that may be presented on documents purporting to accurately describe the photometric performance of these luminaires when producing both white and colored light.

Originally approved as an American National Standard in 2012, E1.41 is being revised to specify that the Fidelity Index (R_f) rating, as defined in IES TM-30-15, be used for reporting the production of white light of a reported CCT. The existing ANSI E1.41 standard requires reporting the CQS score, but CQS has no hold in the lighting market. CRI is a flawed metric, not suitable for narrow-band emitters, so we are encouraging its replacement.

BSR E1.55 - 201x, Standard for Theatrical Makeup Mirror Lighting

The standard offers recommendations and requirements for makeup mirror lighting in performer dressing rooms and similar locations. It defines a range of acceptable lamp CCTs and color-rendering ratings, and also specifies illumination levels and lighting angles for illuminating the performer's face.

This standard was approved as an American National Standard last year, but is being opened for revision to add the Fidelity Index (R_f) rating per IES TM-30-15, IES Method for Evaluating Light Source Color Rendition, as an acceptable rating to meet the requirements for color rendering.

Due before 2 August 2016

BSR E1.51 - 201x, The Selection, Installation, and Use of Single-Conductor Portable Power Feeder Cable Systems for Use at 600 Volts Nominal or Less for the Distribution of Electrical Energy in the Television, Film, Live Performance, and Event Industries in Canada

E1.51 is intended to offer guidance, in the context of applicable standards and regulations in Canada, on how to select, install, use, and maintain single-conductor portable feeder cables used to supply power for television, film, live performance, and special events in Canada.

This is the fifth public review for this Electrical Power Working Group draft standard. During the third public review, a comment was offered and approved which deleted some text. That text was not removed before the fourth public review, so a fifth review is required with the text removed. In addition to that change, the publication year has been included for the edition of the Canadian Electrical Code referenced in the document.

ANSI Seeks Comments on New ISO Field of Activity on Organizational Governance

The International Organization for Standardization (ISO) has circulated a proposal for a new field of activity on organizational governance. As the U.S. member body to ISO, the American National Standards Institute (ANSI)

invites all relevant and interested stakeholders to submit comments on the proposal by the end of the business day on Friday, 1 July 2016.

According to the proposal, submitted by the British Standards Institution (BSI), "governance" may be defined as a "system by which the whole organization is directed, controlled, and held accountable to achieve its core purpose over the long term." The standardization of organizational governance includes aspects of accountability, direction, and control (which may include principles of governance, anti-bribery, conflict of interest, due diligence, whistleblowing, compliance, remuneration structures, and external reporting, among others).

A technical committee in this subject area would develop and maintain standards applicable for all organizations to improve the effective delivery of governance. Furthermore, the proposal recognizes that, although interrelated, there is an important distinction between "management" and "governance." Whereas management can be considered as the act of bringing people together to accomplish goals and objectives, and using available resources in an efficient, effective, and risk-aware manner, governance deals with the accountability of a whole organization to all of its stakeholders and helps ensure that the organization, as a whole, fulfills its purpose. Work in this area would be applicable to all types and sizes of organizations, whether large or small, public or private, listed or unlisted, not-for-profit or for-profit.

All interested stakeholders are invited to review the proposal, which is at http://estalink.us/u1u8h in PDF format. The proposal includes related standards and a listing of relevant countries where the subject of the proposal is important to their national commercial interests. Please submit comments to Steve Cornish, ANSI senior director of international policy (scornish@ansi.org), by close of business on Friday, 1 July 2016. ANSI will provide a position and comments to ISO before their deadline for voting on this proposal. An explanatory information document on ANSI's development of U.S. positions on issues and activities under consideration by ISO and IEC is available in PDF format at http://estalink.us/nhmvb.

FCC Fines Manufacturer and User of Signal Jammer

On 25 May 2016, the Federal Communications Commission (FCC) issued a \$48,000 fine against Jason R. Humphreys for using a cell phone jamming device in his car during his daily work commute to and from Tampa, Florida. Mr. Humphreys' illegal operation of the jammer continued for up to two years, caused interference to cellular service along Interstate 4, and disrupted police communications.

That same day, the FCC also issued a \$34.9 million fine against C.T.S. Technology, a Chinese electronics manufacturer and online retailer, for marketing and selling signal jamming devices to U.S. consumers. So-called "jammers" are radio frequency transmitters that intentionally block, jam, or interfere with wireless communications, such as cellphone calls, GPS systems, Wi-Fi networks, and first-responder communications. It is a violation of federal law to market, sell, import, or use a signal jammer in the United States.

More information about the FCC's jammer enforcement efforts and a list of frequently asked questions is available at https://www.fcc.gov/jammers. To report the sale or use of an illegal jammer, contact the FCC through the FCC online complaint portal at https://consumercomplaints.fcc.gov/hc/en-us. Additional information, including the FCC Consumer Alert on the jamming prohibitions and the FCC Enforcement Advisories regarding illegal signal jammers, is available at www.fcc.gov/jammers.

WTO Technical Barrier to Trade Notifications

The U.S. Department of Commerce's service, Notify U.S., recently has announced WTO Technical Barrier to Trade notices that may be of interest to *Standards Watch* readers. If you have a problem with these notices, you can protest through your representative to 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/enterprise/tbt/ for advice on filing objections.

Israel Notification ISR/918

Date issued: 23 May 2016

Agency responsible: Israel WTO-TBT Enquiry Point, Ministry of Industry, Trade and Labor (MOITAL) **National Inquiry Point**: Israel WTO-TBT Enquiry Point, Ministry of Industry, Trade and Labor (MOITAL)

Notified under Article: 2.9.2

Products covered: Electrical accessories (HS 853620)

Title: SI 61008 part 1 Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs): General rules

Description of content: Revision of the Mandatory Standard SI 61008 part 1, dealing with circuit-breakers. This draft standard revision adopts the International Standard IEC 61008-1 - Edition 3.2 -2013-09, with a few changes that appear in the standard's Hebrew section. The major differences between the old version and this new revised draft standard are due to the changes introduced in the new version of the adopted standard. In addition the standard Hebrew section adds to paragraph 4.6 the following: The use of AC type circuit-breakers with sensitivity of up to 30mA is prohibited in Israel. The use of A type and AC type circuit-breakers for current higher than 30mA is allowed according to the device characterization.

Objective and rationale: Protection of Human health or Safety

Relevant documents: . Israel Mandatory Standard SI 61008 part 1 (November 2007); . International

Standard IEC 61008-1 - Edition 3.2 - 2013-0 **Proposed date of adoption**: Not given by country **Proposed date of entry into force**: Not given by country

Final date for comments: 22 July 2016

Full text: https://tsapps.nist.gov/notifyus/docs/wto_country/ISR/full_text/pdf/ISR918(hebrew).pdf

Russian Federation Notification RUS/70

Date issued: 24 May 2016

Agency Responsible: Eurasian Economic Commission

National Inquiry Point: STANDARTINFORM

Products covered: Technical means that can cause electromagnetic interference, and (or) the quality of operation of which depends on the influence of the external electromagnetic interference

Title: Draft amendments to the Technical Regulation of the Customs Union "Electromagnetic Compatibility of Technical Means" (TR CU 020/2011)

Description of content: Alignment of certain provisions of the technical regulation, clarification of products

covered

Objective and rationale: Protection of Human health or Safety

Relevant documents: Draft amendments to the Technical Regulation of the Customs Union

"Electromagnetic Compatibility of Technical Means" (TR CU 020/2011):

http://www.eurasiancommission.org/ru/act/texnreg/deptexreg/tr/Pages/projectsPublic.aspx

Technical Regulation of the Customs Union "Electromagnetic Compatibility of Technical Means" (TR CU 020/2011): http://www.eurasiancommission.org/ru/act/texnreg/deptexreg/tr/Pages/Down_Volt.aspx

Proposed date of adoption: Not given by country Proposed date of entry into force: Not given by country

Final date for comments: 29 July 2016

Full text: https://tsapps.nist.gov/notifyus/docs/wto_country/RUS/full_text/pdf/RUS70(russian).pdf

Russian Federation Notification RUS/71

Date issued: 24 May 2016

Agency Responsible: Eurasian Economic Commission

National Inquiry Point: STANDARTINFORM Products covered: Low-voltage equipment

Title: Draft amendments to the Technical Regulation of the Customs Union "On Safety of Low-voltage

Equipment" (TR CU 004/2011)

Description of content: Alignment of certain provisions of the technical regulation, clarification of products covered, elimination of duplicate provisions

Objective and rationale: Protection of Human health or Safety

Relevant documents: Draft amendments to the Technical Regulation of the Customs Union "On Safety of Low-voltage Equipment" (TR CU 004/2011):

http://www.eurasiancommission.org/ru/act/texnreq/deptexreq/tr/Pages/projectsPublic.aspx

Technical Regulation of the Customs Union On Safety of Low-voltage Equipment (TR CU 004/2011):

http://www.eurasiancommission.org/ru/act/texnreg/deptexreg/tr/Pages/Down Volt.aspx

Proposed date of adoption: Not given by country
Proposed date of entry into force: Not given by country

Final date for comments: 29 July 2016

Full text: https://tsapps.nist.gov/notifyus/docs/wto_country/RUS/full_text/pdf/RUS71(russian).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 11 July 2016

BSR/ASA S1.11-201x/Part 2/IEC 61260-2:2016, Electroacoustics - OctaveBand and Fractional-Octave-Band Filters - Part 2: Pattern-Evaluation Tests (identical national adoption of IEC 61260-2:2016)

This part provides details of the tests necessary to verify conformance to all mandatory specifications given in ANSI/ASA S1.11-2014/Part 1/IEC 61260 -1:2014 for octave-band and factional-octave-band filters. Tests and test methods are applicable to class 1 and class 2 bandpass filters. The aim is to ensure that all testing laboratories use consistent methods to perform pattern-evaluation tests.

Single copy price: \$182.00

Order from and send comments to: Neil Stremmel, asastds@acousticalsociety.org

BSR/ASA S1.11-201x/Part 3/IEC 61260-3:2016, Electroacoustics - OctaveBand and Fractional-Octave Band Filters - Part 3: Periodic Tests (identical national adoption of IEC 61620-3:2016)

Describes procedures for periodic testing of octave-band and fractional-octave-band filters that were designed to conform to the class 1 or class 2 specifications given in ANSI/ASA S1.11-2014/Part 1/IEC 61260-1:2014. The aim of this standard is to ensure that periodic testing is performed in a consistent manner by all laboratories. Single copy price: \$182.00

Order from and send comments to: Neil Stremmel, asastds@acousticalsociety.org

BSR/ASA S12.57-2011/ISO 3747-2010 (R201X), Acoustics – Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering/survey methods for use in situ in a reverberant environment (reaffirmation of ANSI/ASA S12.57-2011/ISO 3747-2010)

Specifies a method for determining sound power level or sound energy level of a noise source by comparing measured sound pressure levels emitted by a noise source (machinery or equipment) mounted in situ in a reverberant environment, with those from a calibrated reference sound source. Sound power level (or in the case of noise bursts or transient noise emission, the sound energy level) produced by the noise source, in frequency bands of width one octave, is calculated using those measurements.

Single copy price: \$167.00

Order from and send comments to: Neil Stremmel, asastds@acousticalsociety.org

BSR ASSE Z117.1-201X, Safety Requirements for Entering Confined Spaces (revision of ANSI ASSE Z117.1-2009)

This standard provides minimum safety requirements to be followed while entering, exiting and working in confined spaces at ambient atmospheric pressure.

Single copy price: \$77.00

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

BSR ASSE Z9.10-201X, Fundamentals Governing the Design and Operation of Dilution Ventilation Systems in Industrial Occupancies (revision and redesignation of ANSI AIHA Z9.10-2010)

This standard discusses fundamental good practices related to the commissioning, design, selection, installation, operation, maintenance, and testing of dilution ventilation (DV) or general exhaust ventilation (GEV) systems used for the control of employee exposure to airborne contaminants.

Single copy price: \$77.00

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

BSR/AWS A5.10/A5.10M-201x (ISO 18273-2004 MOD), Welding Consumables - Wire Electrodes, Wires and Rods for Welding of Aluminum and Aluminum-Alloys - Classification (revision of ANSI/AWS A5.10/A5.10M-1999 (R2007))

This standard specifies requirements for classification of solid wires and rods for fusion welding of aluminum and aluminum alloys. The classification of the solid wires and rods is based on their chemical composition.

Single copy price: \$36.50

Order from and send comments to: Rakesh Gupta, (305) 443-9353, x 301, gupta@aws.org

BSR B11.26-201x, Functional Safety for Equipment (Electrical/Fluid Power Control Systems) - Application of ISO 13849 General Principles for Design (new standard)

This American National Standard provides guidance in understanding and implementing safety-related control functions (functional safety) as they relate to electrical, electronic, pneumatic, and hydraulic components and systems.

Single copy price: \$75.00

Order from and send comments to: David Felinski, dfelinski@b11standards.org

BSR/UL 1640-201x, Standard for Safety for Portable Power-Distribution Equipment (revision of ANSI/UL 1640-2016)

The following are proposed new and revised requirements for UL 1640: (1) Revision of the scope of UL 1640; (2) Clarification of the requirements of paragraph 1.3; (3) Editorial corrections to types of connector configurations; (4) Update references to standards UL 50 and UL 50E in UL 1640; (5) Addition of requirements for the use of "weather resistant" receptacles for equipment rated for outdoor use; 6) Addition of requirements for GFCI protection for portable equipment; 7) Clarification for requirements for thermocouples in paragraph 19.4; and (8) Editorial correction of paragraph 61.1.

Single copy price: Contact comm2000 for pricing and delivery options Obtain an electronic copy from: comm2000, http://www.comm-2000.com

Send comments to: Derrick Martin, Derrick.L.Martin@ul.com

Due 18 July 2016

BSR/UL 60034-1-201X, Standard for Safety for Rotating Electrical Machines- Part 1: Rating and Performance (identical national adoption of IEC 60034-1)

UL proposes to adopt the requirements of IEC 60034-1, which covers rating and performance criteria applicable to all rotating electrical machines.

Single copy price: Contact comm2000 for pricing and delivery options Obtain an electronic copy from: comm2000, http://www.comm-2000.com

Send comments to: Jonette Herman, Jonette.A.Herman@ul.com

BSR/UL 1678-201x, Standard for Safety for Household, Commercial, and Institutional-Use Carts, Stands and Entertainment Centers for Use with Audio and/or Video Equipment (revision of ANSI/UL 1678-2012)

(1).Revisions to address potential injury from different loading and unloading scenarios; (2) Additional requirements regarding the securement an audio or video device to the cart, stand or entertainment center; (3)Revisions to address polymeric components whose failure would cause the supported weight of the audio or video product to be released; (4) Addition ofrequirements for testing wide handles with the load distributed between two 3-inch areas on the single handle; and (5) Revision to Figure 16.6 (Appurtenance loading). Single copy price: Contact comm2000 for pricing and delivery options

Obtain an electronic copy from: comm2000, http://www.comm-2000.com

Send comments to: Ritu Madan, ritu.madan@ul.com

Due 26 July 2016

BSR/IEEE 1062-201x, Recommended Practice for Software Acquisition (new standard)

This recommended practice describes a set of useful quality considerations that can be selected and applied during one or more steps in a software acquisition process. The recommended practices can be applied to software that runs on any computer system regardless of the size, complexity, or criticality of the software. The software supply chain may include integration of commercial-off-the-shelf (COTS), custom, or Free and Open Source Software (FOSS).

Single copy price: \$72.00 (pdf); \$90.00 (print)
Order from: online: http://standards.ieee.org/store

Send comments to: Karen Evangelista, k.evangelista@ieee.org

BSR/IEEE C57.32-201x, Standard for Requirements, Terminology, and Test Procedures for Neutral Grounding Devices (new standard)

This standard applies to devices used for the purpose of controlling the ground current or the potentials to ground of an alternating current system. These devices are: grounding transformers, ground-fault neutralizers, resistors, reactors, or combinations of these devices.

Single copy price: \$89.00 (pdf); \$111.00 (print) Order from: online: http://standards.ieee.org/store

Send comments to: Karen Evangelista, k.evangelista@ieee.org

BSR/IEEE 802.15.4-201x, Standard for Low-Rate Wireless Personal Area Networks (WPANs) (revision of ANSI/IEEE 802.15.4-2011)

This standard defines the physical layer (PHY) and medium access control (MAC) sublayer specifications for low-data-rate wireless connectivity with fixed, portable, and moving devices with no battery or very limited battery consumption requirements. In addition, the standard provides modes that allow for precision ranging. Physical layers (PHYs) are defined for devices operating various license-free bands in a variety of geographic regions.

Single copy price: \$370.00 (pdf); \$462.00 (print) Order from: online: http://standards.ieee.org/store

Send comments to: Karen Evangelista, k.evangelista@ieee.org

BSR/IEEE 1801-201x, Standard for Design and Verification of Low-Power, Energy-Aware Electronic Systems (revision of ANSI/IEEE 1801-2015)

This standard defines the syntax and semantics of a format used to express power intent in energy-aware electronic system design. Power intent includes the concepts and information required for specification and validation, implementation and verification, and modeling and analysis of power-managed electronic systems. This standard also defines the relationship between the power intent captured in this format and design intent captured via other formats (e.g., standard hardware description languages and cell libraries).

Single copy price: \$390.00

Order from: online: http://standards.ieee.org/store

Send comments to: Karen Evangelista, k.evangelista@ieee.org

Standards Australia Public Review Announcements

Standards Australia has announced some draft standards for Australia that may be of interest to Standards News readers. These are identified as Australian standards, but they adoptions with modifications of ISO standards. The text of the base ISO standard is not provided. Standards Australia can be accessed at http://www.standards.org.au/Pages/default.aspx.

Due 20 June 2016

DR AS NZS 3000-2016 Electrical installations (known as the Australian New Zealand Wiring Rules) This Standard sets out requirements for the design, construction and verification of electrical installations, including the selection and installation of electrical equipment forming part of such electrical installations. The requirements are intended to protect persons, livestock, and property from electric shock, fire, and physical injury hazards that may arise from an electrical installation that is used with reasonable care and with due regard to the intended purpose of the electrical installation.

Due 1 July 2016

DR AS/NZS 3112:2016 Approval and test specification - Plugs and socket-outlets

This Standard specifies essential safety requirements for plugs and socket-outlets, as defined in Clause 1.4, intended for use at extra low or low voltages and a rated current not exceeding 32 A for household or similar purposes.

Due 8 August

AS/NZS 60598.1 Luminaires-Part1: General requirements and tests

The objective of this Standard is to specify general requirements for luminaires, incorporating electric light sources for operation from supply voltages up to 1 000 V. The requirements and related tests of this Standard cover: classification, marking, mechanical construction and electrical construction.

BSI Public Review Announcements

BSI Standards has announced draft documents for public review that might be of interest to *Standards Watch* readers. The documents may be commented on at http://drafts.bsigroup.com/.

Due 28 June 2016

EN 14298 Sawn timber - Assessment of drying quality

This European Standard defines a method of assessment of drying quality. It applies to a lot of dried sawn timber (surfaced or not). It applies to both softwood and hardwood with a thickness not greater than 100 mm. The quality of drying is expressed in terms of target and average moisture content of the lot as well as defining the moisture content variation between individual pieces expressed as allowable upper and lower limits. An option for specifying the degree of case-hardening is included.

Due 30 June 2016

EN 50289-1-11 Communication cables - Specifications for test methods - Part 1-11: Electrical test methods - Characteristic impedance, input impedance, return loss

This Part of EN 50289 details the test methods to determine characteristic impedance, input impedance and return loss of cables used in analogue and digital communication systems.

It is to be read in conjunction with EN 50289-1-1, which contains essential provisions for its application.

Due 12 July 2016

EN 131-3 Ladders — Part 3: Marking and user instructions

This European Standard advises on the safe use of ladders covered by the scope of EN 131-1 and fulfilling the requirements of EN 131-1, EN 131-2 and, for single or multiple hinged-joint ladders, EN 131-4, for telescopic ladders EN 131-6 and for mobile platform ladders EN 131-7.

Due 17 July 2016

BS 4573+A5 Specification for 2-pin reversible plugs and shaver socket-outlets

Changes are being proposed to section 2.12 Marking to include the marking of sockets as well as plugs.

Due 18 July 2016

EN 363 Personal fall protection equipment. Personal fall protection systems

This European Standard specifies the general characteristics and assembly of personal fall protection systems. It gives examples for the specific types of personal fall protection systems and describes how components may be assembled into systems.

ENISO 11554 Optics and photonics — Lasers and laser-related equipment — Test methods for laser beam power, energy and temporal characteristics

This International Standard specifies test methods for determining the power and energy of continuous wave and pulsed laser beams, as well as their temporal characteristics of pulse shape, pulse duration and pulse repetition rate. Test and evaluation methods are also given for the power stability of cw-lasers, energy stability of pulsed lasers and pulse duration stability. The test methods given in this International Standard are used for the testing and characterization of lasers.

CSA Public Review Announcements

The CSA Group has announced draft documents for public review that might be of interest to *Standards Watch* readers, including changes to the Canadian Electrical Code. To participate in the public reviews please visit: http://publicreview.csa.ca/.

Due 26 June 2016

C22.2 No. 137 Electric luminaires for use in hazardous locations (New Edition)

This Standard applies to fixed and portable luminaires for installation and use in hazardous locations Class I Divisions 1 and 2, Groups A,B,C,D; Class II, Divisions 1 and 2, Groups E,F,G; Class III, Divisions 1 and 2 in accordance with the Rules of the Canadian Electrical Code, Part I

Due 1 August 2016

CAN/CSA-C61089-11 (R2015) Round wire concentric lay overhead electrical stranded conductors (Amendment)

Proposed amendments include changes to 5.4.4 Lay ratios, and 5.7 Conductor strength.

Due 31 July 2016

C22.1 C22.1, C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4097, Protection of conductors in cable trays located not more than 1.5 m from grade. (Amendment)

Amend clause 12-2202 Conductors in cable trays as follows:

- (1) Conductors for use in cable trays shall be as listed in Table 19 and, except as permitted in Subrules (2) and (3), shall have a continuous metal sheath or interlocking armour.
- (2) Type TC tray cable shall be permitted in cable trays in areas of industrial establishments that are inaccessible to the public, provided that the cable is
 - (a) installed in conduit, other suitable raceway, or direct buried, when not in cable tray;
 - (b) provided with mechanical protection where subject to damage either during or after installation;
 - (c) no smaller than No. 1/0 AWG if a single conductor is used; and
 - (d) installed only where qualified persons service the installation.
- (3) Conductors having moisture-resistant insulation and flame-tested non-metal coverings or sheaths of a type listed in Table 19 shall be permitted in ventilated or non-ventilated cable trays where not subject to damage during or after installation in
 - (a) electrical equipment vaults and service rooms; and
 - (b) other locations that are inaccessible to the public and are constructed as a service room where a deviation has been allowed in accordance with Rule 2-030.
- (4) Single conductors shall be fastened to prevent excessive movement due to fault-current magnetic forces.
- (5) Where single conductors are fastened to cable trays, precautions shall be taken to prevent overheating of the fasteners due to induction.
- (6) <u>Cables in cable trays in industrial establishments, below 1.5 meters from grade, shall have additional mechanical protection if located beside service able equipment or walk ways.</u>

Due 2 August 2016

C22.1 C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4096, Conditions of use for CSA type designation ACIC. (Amendment)

Revisions to Table 19, Conditions of use and maximum allowable conductor temperature of wires and cables other than flexible cords, portable power cables, and equipment wires, are being proposed to include ACIC as a CSA type designation.

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, or (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 A190.1-201x, Standard for Wood Products - Structural Glued Laminated Timber (revision of ANSI A190.1-2012)

Covers the manufacturing, qualification, quality assurance, and installation requirements for structural glued laminated timberproducts.

Contact: Borjen Yeh, borjen.yeh@apawood.org

BSR ASSE Z15.3-201X, Safe Practices for Motor Vehicle Operations of Autonomous Vehicles on Public Thoroughfares (new standard)

This ANSI/ASSE standard provides organizations with a document for the definition and development of policies, procedures, and management processes to assist in the control of risks and exposures associated with the operation of autonomous vehicles on public thoroughfares.

Contact: Ovidiu Munteanu, OMunteanu@ASSE.org

BSR C63.15-201x, Standard Recommended Practice for the Immunity Assessment of Electrical and Electronic Equipment (revision of ANSI C63.15-2010)

The amended standard will update radiated and conducted immunity test methods using updated references of common immunity test methods published by the IEC, MIL STD, ISO, and SAE. The ISO and SAE test method addition applies to automobiles. There is also the addition of testing for quasi-static fields, proximity fields, and fields from overhead power lines.

Contact: Susan Vogel, s.vogel@ieee.org

BSR C63.26-201x, Standard of procedures for compliance testing of licensed transmitters (revision of ANSI C63.26-2015)

Guidance for carrier aggregation and use of multi-technology or heterogeneous modulations; Minimum number of carriers, frequency range, and effective signal bandwidth, to be tested; Review guidance for broadband power measurements; Radiated emission measurement procedures; Procedures for millimeter wave (mmW) measurements (above 26 GHz); MBAN devices under FCC Part 95H, CBSDs under FCC Part 96, and mmW devices under developing FCC Part 30; MIMO procedures for applicability to emerging "massive" MIMO capabilities; Test procedures for devices employing integral antennas; Signal booster test methods; Minimum data for inclusion in compliance test reports.

Contact: Susan Vogel, s.vogel@ieee.org

BSR C63.9-201x, Standard for RF Immunity of Audio Office Equipment to General Use Transmitting Devices with Transmitter Power Levels up to 8 Watts (revision of ANSI C63.9-2008 (R2014))

This standard provides test methods and limits for assuring theradio frequency (RF) immunity of audio office equipment to general use transmitting portable electronic devices with transmitter powerup to 8 watts. Contact: Susan Vogel, s.vogel@ieee.org

BSR ISEA Z87.1-201x, Occupational and Educational Personal Eye and Face Protection Devices (revision of ANSI ISEA Z87.1-2015)

Sets forth requirements related to product performance, testing, and permanent markings. Also provides guidance on selection, use, and care of eye and face devices worn to protect against hazards including, but not limited to, liquid splash, impact by fragment, optical exposures related to welding activities. Certain occupational exposures and recreational activities are not addressed by this standard.

Contact: Cristine Fargo, cfarqo@safetyequipment.org

BSR/APA PRG 320-201x, Standard for Performance-Rated CrossLaminated Timber (revision of ANSI/APA PRG 320-2012)

Covers the manufacturing, qualification, quality assurance, and installation requirements for cross-laminated timber products.

Contact: Borjen Yeh, borjen.yeh@apawood.org

BSR/ISTA Procedure 3E-201x, Unitized Loads of Same PackagedProducts for Full Truckload Shipment (new standard)

Procedure 3E is a general simulation test for unitized loads. Unitized loads of packaged-products are shipped

through a motor carrier (truck) delivery system, where an entire trailer-load is filled with unitized packaged-products, often of the same packaged-products, intended for one destination. This type of shipment is called Full Truckload (FTL).

Contact: Eric Hiser, ehiser@ista.org

BSR/UL 8139-201X, **Standard for Safety for Electrical Systems of Electronic Cigarettes** (new standard) These requirements only cover the electrical systems of personal battery operated electronic cigarettes, also known as eCigarettes, and their battery charging systems. These requirements do not cover the consumable of the electronic cigarette. These requirements do not consider the physiological effects of any consumable used with the product.

Contact: Ross Wilson, Ross.Wilson@ul.com

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.

ANSI/ATIS 0600015.12-2016, Energy Efficiency for Telecommunication Equipment: Methodology for Measurement and Reporting Power Systems - Uninterruptible Power Supply Requirements (new standard), 27 May 2016

ANSI/INFOCOMM V202.01:2016, Display Image Size for 2D Content in Audiovisual Systems (new standard), 23 May 2016

ANSI/PSAI Z4.1-2016, Sanitation in Places of Employment: Minimum Requirements (revision of ANSI Z4.1-1986 (R2005)), 19 May 2016

ANSI/PSAI Z4.3-2016, Sanitation - Non-Sewered Waste Disposal Systems: Minimum Requirements (new standard), 19 May 2016

ANSI/PSAI Z4.4-2016, Sanitation in Fields and Temporary Labor Camps: Minimum Requirements (new standard), 19 May 2016

ANSI/UL 508C-2016, Standard for Safety for Power Conversion Equipment (revision of ANSI/UL 508C-2010c), 16 May 2016

ANSI/UL 508C-2016a, Standard for Safety for Power Conversion Equipment (revision of ANSI/UL 508C-2010c), 16 May 2016

ANSI/UL 508C-2016b, Standard for Safety for Power Conversion Equipment (revision of ANSI/UL 508C-2010), 16 May 2016

ANSI/UL 943-2016, Standard for Safety for Ground-Fault Circuit Interrupters (revision of ANSI/UL 943-2012), 17 May 2016

Draft IEC & ISO Standards

This section lists proposed standards that the International Electromechanical Commission (IEC) and International Organization for Standardization (ISO) are considering for approval. Standards Watch readers interested in reviewing and commenting on the 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 cegers@ansi.org. Comments from US citizens regarding ISO documents should be sent to Karen Hughes at isot@ansi.org. The prices, when shown, are for purchases through ANSI; prices elsewhere may differ.

(sorted by comment due date)

ISO/DIS 2408, Steel wire ropes - Minimum requirements, 16 June 2016, \$40.00

ISO/DIS 3108, Steel wire ropes - Test method - Determination of measured breaking force, 16 June 2016, \$40.00

ISO/IEC DIS 24707, Information technology - Common Logic (CL) -A framework for a family of logic-based languages, 17 June 2016, \$146.00

ISO/DIS 12944-4, Paints and varnishes - Corrosion protection of steel structures by protective paint systems - Part 4: Types of surface and surface preparation, 19 June 2016, \$77.00

ISO/DIS 12944-5, Paints and varnishes - Corrosion protection of steel structures by protective paint systems - Part 5: Protective paint systems, 19 June 2016, \$93.00

ISO/DIS 12944-8, Paints and varnishes - Corrosion protection of steel structures by protective paint systems - Part 8: Development of specifications for new work and maintenance, 19 June 2016, \$102.00

ISO/IEC 14496-3/DAmd6, Information technology - Coding of audiovisual objects - Part 3: Audio - Amendment 6: Profiles, levels and downmixing method for 22.2 channel programs, 23 June 2016, \$46.00

ISO/IEC DIS 23000-17, Information technology – Multimedia application format (MPEG-A) - Part 17: Multiple sensorial media application format, 23 June 2016, \$71.00

ISO/DIS 14118, Safety of machinery - Prevention of unexpected startup, 25 June 2016, \$58.00

77B/758/FDIS, IEC 61000-4-31 - Electromagnetic Compatibility (EMC) - Part 4-31: Testing and measurement techniques - AC mains ports broadband conducted disturbance immunity test, 8 July 2016

82/1128/FDIS, IEC 61730-1 Ed.2: Photovoltaic (PV) module safety qualification - Part 1: Requirements for construction, 8 July 2016

82/1129/FDIS, IEC 61730-2 Ed.2: Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing, 8 July 2016,

CIS/I/522/FDIS, Electromagnetic compatibility of multimedia equipment - Immunity requirements, 8 July 2016

ISO/IEC DGuide 46, Comparative testing of consumer products and related services - General principles, 17 July 2016, \$51.00

ISO/DIS 18794, Coffee - Sensorial analysis - Vocabulary, 7 August 2016, FREE

ISO/DIS 19285, Non-destructive testing of welds - Phased Array technique (PA) - Acceptance criteria, 7 August 2016, \$82.00

ISO/DIS 80000-2, Quantities and units - Part 2: Mathematics, 7 August 2016, \$102.00

ISO/IEC 14496-4/DAmd46, Information technology - Coding of audiovisual objects - Part 4: Conformance testing - Amendment 4: Conformance testing for Internet Video Coding, 7 August 2016, \$53.00

ISO/IEC 14496-5/DAmd41, Information technology - Coding of audiovisual objects - Part 5: Reference software - Amendment 4: Reference software for internet video coding, 7 August 2016, \$29.00

ISO/IEC 14496-5/DAmd42, Information technology - Coding of audiovisual objects - Part 5: Reference software - Amendment 4: Reference software for the alternative depth information SEI message extension of AVC, 7 August 2016, \$29.00

ISO/IEC 23002-5/DAmd3, Information technology - MPEG video technologies - Part 5: Reconfigurable media coding conformance and reference software - Amendment 3: Reference Software for Parser Instantiation from BSD, 7 August 2016, \$29.00

81/513/CDV, **IEC 62561-4 Ed.2**: Lightning protection system components (LPSC) - Part 4: Requirements for conductor fasteners, 12 August 2016

81/514/CDV, **IEC 62561-5 Ed.2**: Lightning Protection System Components (LPSC) - Part 5: Requirements for earth electrode inspection housings and earth electrode seals, 12 August 2016

ISO/DIS 9455-14, Soft soldering fluxes - Test methods - Part 14: Assessment of tackiness of flux residues, 13 August 2016, \$33.00

34C/1215/CD, IEC 62384 Ed.2: DC or AC supplied electronic control gear for LED modules - Performance requirements, 19 August 2016

34C/1222/CD, IEC 62386-216 Ed.1: Digital addressable lighting interface - Part 216: Particular requirements for control gear – Load referencing (device type 15), 19 August 2016

34C/1223/CD, IEC 62386-217 Ed.1: Digital addressable lighting interface - Part 217: Particular requirements for control gear -Thermal gear protection (device type 16), 19 August 2016

34C/1224/CD, **IEC 62386-218 Ed.1**: Digital addressable lighting interface - Part 218: Particular requirements for control gear -Dimming Curve Selection (device type 17), 19 August 2016

34C/1225/CD, IEC 62386-220 Ed.1: Digital addressable lighting interface - Part 220: Particular requirements for control gear -Centrally Supplied DC Emergency Operation (device type 19), 19 August 2016

34C/1226/CD, IEC 62386-222 Ed.1: Digital addressable lighting interface - Part 222: Particular requirements for control gear -Thermal lamp protection (device type 21), 19 August 2016

34C/1227/CD, IEC 62386-224 Ed.1: Digital addressable lighting interface - Part 224: Particular requirements for control gear -Integrated light source (device type 23), 19 August 2016

ISO/IEC 23002-4/DAmd3, Information technology - MPEG video technologies - Part 4: Video tool library - Amendment 3: Graphics tool library (GTL) for the reconfigurable multimedia coding (RMC) framework, 7 November 2024 [sic], \$71.00

Recently Published IEC & ISO Standards

Listed here are documents recently approved by the IEC and ISO. A list of standards resellers is available at http://webstore.ansi.org/faq.aspx#resellers.

IEC 60598-2-13 Amd.2 Ed. 1.0 b:2016, Amendment 2 - Luminaires - Part 2-13: Particular requirements - Ground recessed luminaires, \$14.00

IEC 60598-2-13 Ed. 1.2 b:2016, Luminaires - Part 2-13: Particular requirements - Ground recessed luminaires, \$116.00

IEC 60838-1 Ed. 5.0 b:2016, Miscellaneous lampholders - Part 1: General requirements and tests, \$254.00

- **S+ IEC 60838-1 Ed. 5.0 en:2016** (Redline version), Miscellaneous lampholders Part 1: General requirements and tests, \$290.00
- **IEC 60947-5-1 Ed. 4.0 b:2016**, Low-voltage switchgear and controlgear Part 5-1: Control circuit devices and switching elements Electromechanical control circuit devices, \$375.00
- **S+ IEC 60947-5-1 Ed. 4.0 en:2016** (Redline version), Low-voltage switchgear and controlgear Part 5-1: Control circuit devices and switching elements Electromechanical control circuit devices, \$446.00
- IEC 60990 Ed. 3.0 b:2016, Methods of measurement of touch current and protective conductor current, \$339.00
- **S+ IEC 60990 Ed. 3.0 en:2016** (Redline version), Methods of measurement of touch current and protective conductor current, \$407.00
- **IEC 61008-1 Amd.1 Ed. 3.0 b cor.1:2016**, Corrigendum 1 Amendment 1 Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBS) Part 1: General rules, \$0.00
- **IEC 61340-5-1 Ed. 2.0 b:2016**, Electrostatics Part 5-1: Protection of electronic devices from electrostatic phenomena General requirements, \$121.0
- **S+ IEC 61340-5-1 Ed. 2.0 en:2016** (Redline version), Electrostatics Part 5-1: Protection of electronic devices from electrostatic phenomena General requirements, \$156.00
- **IEC 61557-8 Ed. 3.0 b cor.1:2016**, Corrigendum 1 Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1 500 V d.c. Equipment for testing, measuring or monitoring of protective measures Part 8: Insulation monitoring devices for IT systems, \$0.00
- **ISO 13184-2:2016**, Intelligent transport systems (ITS) Guidance protocol via personal ITS station for advisory safety systems Part 2: Road guidance protocol (RGP) requirements and specification, \$265.00
- **ISO 14122-1:2016**, Safety of machinery Permanent means of access to machinery Part 1: Choice of fixed means and general requirements of access, \$88.00
- **ISO 14122-2:2016**, Safety of machinery Permanent means of access to machinery Part 2: Working platforms and walkways, \$123.00
- **ISO 14122-3:2016**, Safety of machinery Permanent means of access to machinery Part 3: Stairs, stepladders and guard-rails, \$149.00
- **ISO 14122-4:2016**, Safety of machinery Permanent means of access to machinery Part 4: Fixed ladders, \$200.00
- **ISO/IEC/IEEE 24748-4:2016**, Systems and software engineering Life cycle management Part 4: Systems engineering planning, \$240.00
- **ISO/TR 27912:2016**, Carbon dioxide capture Carbon dioxide capture systems, technologies and processes, \$265.00

TSP Meeting Schedule

The chronological TSP meeting schedule is posted at http://www.esta.org/ESTA/meetings.php. The July meetings at the Roosevelt Hotel in New York City are in conjunction with the NATEAC conference. Our schedule runs immediately prior to the conference. The July meetings at the Roosevelt Hotel unless otherwise noted. All meetings are at the Roosevelt Hotel unless otherwise noted.

At the Roosevelt Hotel in New York City, Eastern Time (unless otherwise noted):			
Control Protocols Working Group (CPWG)	09:00 – 13:00	Thursday 14 July 2016	
CPWG Automation Study Group	14:00 – 18:00	Friday 15 July 2016	
CPWG BSR E1.20, RDM TG	09:00 – 13:00	Friday 15 July 2016	
CPWG BSR E1.33, RDMnet TG	14:00 – 18:00	Thursday 14 July 2016	
CPWG BSR E1.37-4, Firmware TG	13:00 – 16:00	Saturday 16 July 2016	
CPWG BSR E1.37-5, General PIDs TG	09:00 – noon	Saturday 16 July 2016	
Fog & Smoke Working Group	14:00 – 16:00	Friday 15 July 2016	
Photometrics Working Group	16:00 – 18:00	Friday 15 July 2016	
Rigging Working Group (RWG)	09:00 – 13:00	Friday 15 July 2016	
RWG BSR E1.4-1, Manual Counterweight TG	14:00 – 16:00	Saturday 16 July 2016	
RWG BSR E1.6-1, Powered Hoist TG (This meeting is at the ESTA office: 630 Ninth Ave., Suite 609)	14:00 – 17:00	Friday 15 July 2016	
RWG BSR E1.50, Video Systems TG	14:00 – 18:00	Thursday 14 July 2016	
RWG BSR E1.56, Rigging Points TG	09:00 – 13:00	Thursday 14 July 2016	
Stage Lifts Working Group (via WebEx)	11:00 – noon	Tuesday, 21 June 2016	
Stage Lifts Working Group Meeting cancelled	09:00 – 13:00	Saturday 16 July 2016	
Technical Standards Council	14:00 – 18:00	Thursday, 14 July 2016	

Note that there will be no coffee or other beverages offered in the July meetings. The Roosevelt Hotel charges dinner-prices for beverages at meetings, thus putting providing refreshments out of budget. There are many coffee and snack places within the hotel, next door, or across the street. Take your pick and bring your own.

ESTA Standards Watch

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