



Technical Standards Program

ESTA Standards Watch

Late September 2016

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Four ESTA Standards Approved by ANSI

On September 16, ANSI's Board of Standards Review approved three ESTA standards. One week later, they approved another one. All four standards are now posted for free download at http://tsp.esta.org/tsp/documents/published_docs.php, thanks to the sponsorship of Prosight Specialty Insurance. The standards also may be purchased from ANSI at <http://webstore.ansi.org/> and from IHS at <https://global.ihs.com/>. In alphanumeric order, the new standards are:

ANSI E1.15 - 2016, Entertainment Technology—Recommended Practices and Guidelines for the Assembly and Use of Theatrical Boom & Base Assemblies, is a reaffirmation of the standard first published in 2006. The standard sets minimum specifications for the assembly and use of variable and fixed-height luminaire support devices, commonly referred to as "boom and base assemblies." This standard is intended to be used by the worker in the field, so the list price is set low at \$15.

ANSI E1.40 - 2016, Recommendations for the Planning of Theatrical Dust Effects, is a revision of the 2011 standard. It gives a mixture of guidance "should" statements and mandatory "shall" statements to help people to avoid inappropriate dust effect materials, to select those that are least likely to cause health or safety problems,

and to use them with care. The revision was done primarily to add deflagration as a potential fire hazard with dust effects. Previously the standard had only mentioned dust explosions. Those makes the news when a grain silo or sugar factory blows up, but the more likely problem with dust for the entertainment industry is deflagration—a wall of flame racing through the dust cloud, burning all in its path. List price is \$40.00.

ANSI E1.41 - 2016, Recommendations for the Measurement of Entertainment Luminaires Utilizing Solid State Light Sources, is a revision of the existing standard from 2012. The revision adds the Fidelity Index (R_f) rating, as defined in IES TM-30-15, IES Method for Evaluating Light Source Color Rendition, for reporting the production of white light of a reported CCT. The existing ANSI E1.41 standard requires reporting the CQS score, which works, but CQS is not widely used in the market. TM-30-15 seems to have more support, and it works, too. List price is \$40.00.

ANSI E1.55 - 2016, Standard for Theatrical Makeup Mirror Lighting, is a revision of the 2015 standard. The revision is to add the Fidelity Index (R_f) rating per IES TM-30-15, IES Method for Evaluating Light Source Color Rendition, for the same reasons that it's being added to E1.41. CRI will probably be an adequate measure for most broad-band makeup mirror sources and will be listed on general purpose lamp specifications for a long time, but it would be better to move away from that flawed metric. List price is \$40.00.

Event Safety Alliance Announces Launch of *Event Safety Insights*

The Event Safety Alliance has announced the launch of *Event Safety Insights*, a quarterly publication focused on safety issues relevant to all segments of the live event industry. Event Safety Insights aims to provide readers with the latest safety-related news, features, practices, and technology, and shine a spotlight on companies, non-profit organizations, and individuals helping to create a safer future for those working at or attending live events.

Event Safety Insights can be viewed and downloaded at <http://eventsafetyinsights.com>. Print versions of the magazine will also be available at select Event Safety Alliance appearances, including LDI: Live Outside (October 21–22) and the Event Safety Summit (November 29–December 1).

Preparing the Next Generation of Standardizers

“Zero to Hero: Standards Know-How Isn’t Just for Nerds” is free conference being offered by ANSI from 09:00 to 16:00 on Tuesday, 25 October 2016, at the FHI 360 Conference Center, 1825 Connecticut Avenue, NW, in Washington, DC. The event is part of the [World Standards Week](#) series of meetings and celebrations hosted annually by ANSI. “Zero to Hero” is designed to bring together companies, educators, and professionals to discuss how we can ensure that the U.S. has a standards-savvy workforce. The keynote address will be by Kenneth Hyatt, Acting Under Secretary for International Trade, U.S. Department of Commerce.

Attendance is free of charge, but advance registration is required. To sign up for this and other World Standards Week events, visit the [registration page at https://eseries.ansi.org/source/Events/Event.cfm?EVENT=WSWEEK_16](https://eseries.ansi.org/source/Events/Event.cfm?EVENT=WSWEEK_16).

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.

United States of America Notification USA/1187

Date issued: 16 September 2016

Agency responsible: Pipeline and Hazardous Materials Safety Administration (PHMSA), Department of Transportation (DOT)

National inquiry point: USA WTO TBT Enquiry Point

Products covered: Hazardous materials

Title: Hazardous Materials: Harmonization With International Standards (RRR) (91 pages, in English)

Description of content: The Pipeline and Hazardous Materials Safety Administration (PHMSA) proposes to amend the Hazardous Materials Regulations (HMR) to maintain consistency with international regulations and standards by incorporating various amendments, including changes to proper shipping names, hazard classes, packing groups, special provisions, packaging authorizations, air transport quantity limitations, and vessel stowage requirements. These revisions are necessary to harmonize the HMR with recent changes made to the International Maritime Dangerous Goods Code, the International Civil Aviation Organization's Technical Instructions for the Safe Transport of Dangerous Goods by Air, and the United Nations Recommendations on the Transport of Dangerous Goods--Model Regulations. Additionally, PHMSA proposes several amendments to the HMR that result from coordination with Canada under the U.S.-Canada Regulatory Cooperation Council.

Objective and rationale: Protection of the environment

Relevant documents: 81 Federal Register (FR) 61741, 7 September 2016; Title 49 Code of Federal Regulations (CFR) Parts 107, 171, 172, 173, 175, 176, 178 and 180. Will appear in the Federal Register when adopted.

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 7 November 2016

Full text URL: https://members.wto.org/crnattachments/2016/TBT/USA/16_3818_00_e.pdf

(Includes new rules for lithium batteries.)

South Africa Notification ZAF/207

Date issued: 14 September 2016

Agency responsible: National Regulator for Compulsory Specifications (NRCS)

National inquiry point: Standards Information Centre, South African Bureau of Standards (SABS)

Products covered: Lamp holders

Title: Compulsory Specification for Lampholders (VC 8011) (6 pages, in English)

Description of content: This compulsory specification covers safety requirements of lampholders and lampholders adapters. The scope of this compulsory specification includes: Edison screw lampholder, bayonet lampholders, and lampholders adapters.

Objective and rationale: Protection of human health or safety

Relevant documents: 1. SANS 61184, Bayonet lampholders; 2. SANS 60232, Edison screw lampholders

Proposed date of adoption: 30 August 2016

Proposed date of entry into force: 2 January 2017

Final date for comments: 13 November 2016

Full text: Not published but may be requested.

South Africa Notification ZAF/208

Date issued: 14 September 2016

Agency responsible: National Regulator for Compulsory Specifications (NRCS)

National inquiry point: Standards Information Centre, South African Bureau of Standards (SABS)

5. Products covered: Electric cables with extruded solid dielectric insulation for fixed installations

Title: Compulsory Specification for Safety of Electric Cables with Extruded Solid Dielectric Insulation for Fixed Installations (300/500 V TO 1 900/3 300 V) (7 pages, in English)

Description of content: This compulsory specification covers the safety of single-core and multi core extruded solid dielectric insulated cables of rated operating voltage (U_0/U) in the range (300/500 V to 1900/3300 V), for use in fixed installations.

Objective and rationale: Protection of human health or safety

Relevant documents: SANS 1507-1, Electric cables with extruded solid dielectric insulation for fixed installations (300/500 V to 1 900/3 300 V) and other relevant parts of SANS 1507

Proposed date of adoption: 30 August 2016
Proposed date of entry into force: 2 January 2017
Final date for comments: 13 November 2016
Full text: Not published but may be requested.

Canada Notification CAN/498

Date issued: 15 September 2016

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-016-16 - Release of RSS-210 (1 page, available in English and French)

Description of content: Notice is hereby given by the Ministry of Innovation, Science and Economic Development that the following document has been published on its Web site:

<http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/home?OpenDocument>

Radio Standards Specifications RSS-210, Issue 9, Licence-Exempt Radio Apparatus: Category I Equipment which sets out the requirements for equipment certification of licence-exempt low-power radio apparatus for different services.

Objective and rationale: Protection of the network

Relevant documents: Canada Gazette, Part I, 3 September 2016 (available in English and French):

<http://www.gazette.gc.ca/rp-pr/p1/2016/2016-09-03/html/notice-avis-eng.php>

Proposed date of adoption: 25 August 2016

Proposed date of entry into force: 25 August 2016

Final date for comments: 25 November 2016

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN498\[1\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN498[1](english).pdf)

[https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN498\[2\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN498[2](english).pdf)

(Annex G in part 2 covers "Low-Power Radio Apparatus Operating in the Television Bands")

ANSI Notices of Withdrawal

ANSI has announced the withdrawal of several standards that have not been reaffirmed or revised within the five-year period following approval as an ANS. They shall be withdrawn on October 16. Ninety-seven IEEE standards are among those being withdrawn; the following list is a selection of them that might be of interest to *Standards Watch* readers.

ANSI/IEEE 1-2000 (R2005), Recommended Practice - General Principles for Temperature Limits in the Rating of Electrical Equipment and for the Evaluation of Electrical Insulation

ANSI/IEEE 726-1982 (R2006), Standard Real-Time BASIC for CAMAC (Computer Automated Measurement and Control)

ANSI/IEEE 758-1979 (R2006), Standard Subroutines for Computer Automated Measurement and Control (CAMAC)

ANSI/IEEE 802.1X-2004, Standard for Local and Metropolitan Area Networks - Port-Based Network Access Control

ANSI/IEEE 802.1ad-2005, Standard for Local and Metropolitan Area Networks - Virtual Bridged Local Area Networks - Amendment 4: Provider Bridges

ANSI/IEEE 802.15.3b-2005, Amendment to Standard for Telecommunications and Information Exchange Between Systems – Local and Metropolitan Area Networks Specific Requirements - Part 15.3: Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for High Rate Wireless Personal Area Networks (WPAN): Amendment to MAC Sublayer

ANSI/IEEE 828-2005, Standard for Software Configuration Management Plans

ANSI/IEEE 982.1-2005, Standard Dictionary of Measures of the Software Aspects of Dependability

ANSI/IEEE 1012-2004, Standard for Software Verification and Validation

ANSI/IEEE 1100-2005, Recommended Practice for Powering and Grounding Electronic Equipment

ANSI/IEEE 1220-2005, Standard for Application and Management of the Systems Engineering Process

ANSI/IEEE 1313.2-1999 (R2005), Guide for the Application of Insulation Coordination

ANSI/IEEE 1484.11.3-2005, Standard for Learning Technology Extensible Markup Language (XML) Schema Binding for Data Model for Content Object Communication

ANSI/IEEE 1484.12.3-2005, Standard for Learning Technology – Extensible Markup Language (XML) Schema Definition Language Binding for Learning Object Metadata

ANSI/IEEE 1666-2006, Standard System C Language Reference Manual

ANSI/IEEE C62.42-2005, Guide for the Application of Component Surge Protective Devices for Use in Low-Voltage (Equal to or Less than 1000 Vrms or 1200 Vdc) Circuits

ANSI/IEEE C62.48-2005, Guide on Interactions between Power System Disturbances and Surge Protective Devices

ANSI/IEEE C95.2-2005, Standard for Radio-Frequency Energy and Current Flow Symbols

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 31 October 2016

BSR A190.1-201x, Standard for wood products - Structural Glued Laminated Timber (revision of ANSI A190.1-2012)

This standard contains requirements for the manufacture and quality control of structural glued laminated timber.

Single copy price: Free

Order from and send comments to: Borjen Yeh, borjen.yeh@apawood.org

BSR/CRSI RB4.1-201x, CRSI Standard for Supports for Reinforcement Used in Concrete (revision of ANSI/CRSI RB4.1-2014)

This specification covers the design, use, material, and minimum performance requirements of reinforcement supports used in concrete to support various types of reinforcement, including but not limited to plain and deformed reinforcing bars, prestressing steel, post-tensioning tendons, steel wire, and plain and deformed steel welded wire reinforcement.

Single copy price: Free

Order from and send comments to: Anthony Felder, afelder@crsi.org

BSR C78.52-201X, Electric Lamps, Light Emitting Diode (LED) Direct Replacement Lamps - Method of Designation (new standard)

This standard describes a system for the designation of LED lamps that are direct replacements for existing ANSI standardized non-LED lamps. Lamps covered in this standard contain LED-based light sources. Direct replacement is defined as LED lamps that shall not require modification of existing equipment.

Single copy price: \$75.00

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

BSR/SI-0001-201x, Safe Use of Cleaning Chemicals (new standard)

Cleaning workers and patrons of facilities are injured or killed due to improper chemical handling. Accidents are frequently caused by what are considered to be "safe" household cleaning chemicals. On other occasions the accident is a result of misusing and/or mixing dangerous chemicals that have no place in a regular cleaning operation. Currently there is no available educational, testing and permit issuing process that cleaning workers may be required to pass to enter or remain in the occupations of custodian, janitor and housekeeper. There needs to be a standard and a compliance procedure to ensure that all cleaning workers understand basic chemical handling.

Single copy price: 49.95 (Paper copy)/\$19.95 (Electronic copy)

Obtain an electronic copy from: <http://simoninstitute.org/si-0001--draft--order--form/>

Send comments to: jim@simoninstitute.org

BSR A326.3-201x, Test Method for Measuring Dynamic Coefficient of Friction of Hard Surface Flooring Materials (new standard)

This standard describes the test method for measuring dynamic coefficient of friction (DCOF) of hard surface flooring materials.

Single copy price: \$50.00

Order from and send comments to: Katelyn Simpson, KSimpson@tileusa.com

Due 7 November 2016

BSR/ASSE Z359.18-201x, Safety Requirements for Anchorage Connectors for Active Fall Protection Systems (new standard)

This standard specifies requirements for the performance, design, testing, marking, and instructions for use of anchorage connectors in travel restraint, fall arrest, rescue, positioning, rope access, and suspended component/tieback line systems only.

Single copy price: \$100.00

Order from and send comments to: Tim Fisher, TFisher@ASSE.Org

BSR/AWS J1.2M/J1.2-201X, Guide to Installation and Maintenance of Resistance Welding Machines (new standard)

While resistance welding machines vary considerably in size and complexity, there are basic principles applicable to the installation, operation, maintenance, and troubleshooting. This document is intended to provide basic information to the users of the resistance welding equipment to supplement the instructions and recommendations of the equipment manufacturer.

Single copy price: \$32.00

Order from: Annik Babinski, ababinski@aws.org

Send comments to: adavis@aws.org

BSR/BICSI 001-201x, Information and Communication Technology Systems Design and Implementation Best Practices for Educational Institutions and Facilities (revision of ANSI/BICSI 001-2009)

This standard provides requirements, recommendations, and best practices for the design and implementation of information communication technology systems and their infrastructure for educational institutions and facilities.

Single copy price: Free

Order from and send comments to: Jeff Silveira, (813) 903-4712, jsilveira@bicsi.org

BSR/ISTA Procedure 3E-201x, Similar Packaged-Products in Unitized Loads for Truckload Shipment (new standard)

Procedure 3E covers the testing of unitized loads, made up of either single or multiple products or packages of similar products prepared for shipment via a Full Truckload (FTL) delivery system carrier. FTL is defined as motor carrier shipment, where an entire trailer-load is filled with unitized packaged products, often of similar retail packaged products, intended for one destination.

Single copy price: Free (ISTA Members); \$95.00 (Non-ISTA Members)

Order from and send comment: Eric Hiser, ehiser@ista.org

BSR/NASBLA 101-201X, Basic Boating Knowledge – Human-Propelled Boats (new standard)

This is the minimum standard that applies to all human-propelled boating courses in the United States and territories and DC. The purpose is to establish the national standard for course providers to meet the needs of recreational boaters for human-propelled boating knowledge in order to identify and reduce primary risk factors and mitigate their effects on recreational boating.

Single copy price: Free

Order from and send comments to: Pamela Dillon, pam@nasbla.org

BSR Z535.1-201x, Standard on Safety Colors (revision of ANSI Z535.1-2006 (R2011))

This standard sets forth the technical definitions, color standards, and color tolerances for safety colors.

Single copy price: \$98.00

Order from and send comments to: Kevin.Connelly@nema.org

CSA Public Review Announcements

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

Due 2 October 2016

C22.2 No. 96, Portable power cables (new edition)

The standard specifies construction and testing requirements for portable power cables normally used in applications where the cables are subject to frequent flexing and where installation is in accordance with CSA M421 and/or the *Canadian Electrical Code, Part I*. Single-conductor portable power feeder cable is included.

Due 13 November 2016

C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4140, GFCI protection for cords used in itinerant midways, carnivals, fairs, and festivals. (amendment)

Add Rule 66-400 (3)(c)(iv) and amend Rule 66-404 as shown.

66-400 Wiring methods

- (1) Except as permitted in Rules 66-450 to 66-458, wiring methods shall be in accordance with Section 12 and suitable for the condition of use.
- (2) Cords, cables, conduits, and other electrical equipment shall be protected from physical damage.
- (3) Cords shall be of the hard-usage type, in good repair, and
 - (a) provided with strain relief where they enter into enclosures and plug-in connectors;
 - (b) if exposed to the weather, be of a type suitable for outdoor use; and
 - (c) where plug-in connections are used,
 - (i) have connectors and receptacles that are rated in amperes and designed so that differently rated devices cannot be connected together;
 - (ii) have the female connector attached to the load end of the cord; ~~and~~
 - (iii) be polarized if an ac multi-conductor connector is used; ~~and~~
 - (iv) be protected by a ground fault circuit interrupter of the Class A type, where utilized outdoors or in damp locations and connected to a receptacle of CSA configuration 5-15R or 5-20R.
- (4)

66-404 Receptacles

Receptacles having CSA configuration 5-15R or 5-20R installed ~~in~~ for itinerant midways, carnivals, fairs, and festivals and intended to supply loads in outdoor or damp locations shall be protected by ground fault circuit interrupters of the Class A type.

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 C137.2-201x, Standard for Lighting Systems – Cybersecurity Requirements for Lighting Systems for Parking Facilities (new standard)

To provide cybersecurity requirements for Lighting Systems used in Parking Facilities with public access. This standard provides specifications for the protection of signals and data to, from and within the lighting system, potentially including those that may initiate, control, or monitor non-lighting functions. This standard is not intended to address parking facilities with enhanced security requirements, such as critical infrastructure sectors. This standard does not apply to cybersecurity for safety-related cybersecurity.

Contact: Karen Willis, Karen.willis@nema.org

BSR/AWS B5.5-201x, Specification for the Qualification of Welding Educators (revision of ANSI/AWS B5.5-2011)

This specification establishes the attributes required for determining the qualification of welding educators for career technical education programs and other welder training programs, and Associates of Applied Science Welding Technology programs by qualifying as Welding Educator and Welding Technology Educator, respectively. Welder training programs may be part of a school, college, technical center, independent laboratory, manufacturing plant, or other party. This document becomes mandatory when invoked by a referencing document such as a state educational standard, specification, or contract document.

Contact: Stephen Hedrick, steveh@aws.org

BSR/AWS C1.5-201x, Specification for the Qualification of Resistance Welding Technicians (revision of ANSI/AWS C1.5-2015)

This specification establishes the requirements for qualification of resistance welding technicians (RWT) employed in the welding industry. The minimum experience, examination, application, qualification, and requalification requirements and methods are defined in this standard. This specification is a method for technicians to establish a record of their qualification and abilities in welding industry work such as development of machine troubleshooting, processes controls, quality standards, problem solving, etc.

Contact: Annik Babinski, ababinski@aws.org

BSR/AWS C6.1-201x, Recommended Practices for Friction Welding (revision of ANSI/AWS C6.1-2009)

This recommended practice describes friction-welding fundamentals and basic equipment requirements. Suggested procedure qualification, inspection methods, and joint designs are detailed. Typical mechanical property data are referenced.

Contact: Annik Babinski, ababinski@aws.org

BSR/AWS D8.8M-201x, Specification for Automotive Weld Quality -Arc Welding of Steel (revision of ANSI/AWS D8.8M-2014)

This specification describes weld geometry and workmanship criteria essential to ensure the quality of automotive and light truck weldments. This specification covers the arc and hybrid arc welding of coated and uncoated steels.

Contact: Annik Babinski, ababinski@aws.org

BSR/BOMA Z65.2-201x, Industrial Buildings: Standard Methods of Measurement (revision of ANSI/BOMA Z65.2-2012)

This standard outlines the dominant North American market practices for measuring the area of industrial properties. It contains two methods: Method A or the exterior wall method, and method B or the drip line method. Definitions and illustrations supporting and clarifying the different methods are also present. This standard is not intended to be submitted for consideration as an ISO or ISO/IEC JTC-1 standard.

Contact: Tanner Johnston, tjohnston@boma.org

BSR/BOMA Z65.3-201x, Gross Areas of a Building: Standard Methods of Measurement (revision of ANSI/BOMA Z65.3-2009)

These methods are intended for application to buildings containing all types of occupancies, including office, retail, industrial, single and multiunit residential, hospitality, entertainment, and institutional buildings, both private and public. They can be applied to both new and existing buildings containing single or multiple stories that are either owner occupied or leased to one or multiple tenants. They are not intended for application to site improvements other than buildings. This standard is not intended to be submitted for consideration as an ISO or ISO/IEC JTC-1 standard.

Contact: Tanner Johnston, tjohnston@boma.org

BSR/BOMA Z65.5-201x, Retail Buildings: Standard Methods of Measurement (revision of ANSI/BOMA Z65.5-2010)

This standard is intended for application to buildings containing retail types of occupancies. Its purpose is to establish a consistent, unambiguous measurement of gross leasable area, and to allow comparison of values on the basis of a clearly understood and generally agreed upon method of measurement. Although references are made to a development parcel, this standard is not intended for application to site improvements other than buildings. This standard is not intended to be submitted for consideration as an ISO or ISO/IEC JTC-1 standard.

Contact: Tanner Johnston, tjohnston@boma.org

BSR/BOMA Z65.6-201x, Mixed-Use Properties: Standard Methods of Measurement (revision of ANSI/BOMA Z65.6-2012)

These methods are intended for application to buildings containing two or more use components, including, but not limited to, office, retail, industrial, single and multi-unit residential, hospitality, entertainment, civic and institutional buildings, both private and public. They can be applied to both new and existing properties containing single or multiple floors or buildings, and properties that are either owner occupied or leased to single or multiple tenants. They are not intended for application to site improvements other than buildings, and do not address the measurement of spatial volume.

Contact: Tanner Johnston, tjohnston@boma.org

BSR/ICC 1100-201x, Standard for Spray-Applied Polyurethane Foam Plastic Insulation (new standard)

The standard will establish the minimum physical and performance properties as well as application requirements for spray-applied foam plastic insulations.

Contact: Edward Wirtschoreck, ewirtschoreck@iccsafe.org

BSR/IEEE 1722-201x/Cor 1-201x, Standard for a Transport Protocol for Time Sensitive Applications in a Bridged Local Area Network Corrigendum 1 (new standard)

Correct additional fields text in Section I.2.6. Project Need: Section I.2.6 contains incorrect additional fields text.

Contact: Lisa Weisser, l.weisser@ieee.org

BSR/IEEE 3001.4-201x, Recommended Practice for Estimating the Costs of Industrial and Commercial Power Systems (new standard)

This recommended practice describes how to estimate the costs of industrial and commercial power systems, both new and those undergoing expansion or modernization. This recommended practice is restricted to the development of the relative capital cost of industrial and commercial power distribution systems. While this document briefly points out considerations related to total cost or true cost, as well as some technical considerations, other standards and references should be referred to for a thorough analysis of these aspects of power distribution systems.

Contact: Lisa Weisser, l.weisser@ieee.org

BSR/IEEE 473-201x, Recommended Practice for an Electromagnetic Site Survey (10 kHz to 40 GHz) (new standard)

This recommended practice sets the framework for performing an Electromagnetic (EM) Site Survey in the frequency range of 10 kHz to 40 GHz. The EM Site Survey is intended to be a systematic, documented investigation of the measurable characteristics of the electromagnetic fields at one or more frequencies and

locations as necessary during a designated time period, which yields results that are interpretable and communicable among subsequent investigators.

Contact: Lisa Weisser, l.weisser@ieee.org

BSR/IEEE 802.16s-201x, Standard for Air Interface for Broadband Wireless Access Systems Amendment: Fixed and Mobile Wireless Access in Channel Bandwidth up to 1.25 MHz (new standard)

This project specifies Wireless MAN-OFDMA TDD operation in exclusively licensed spectrum with channel bandwidth from 100 kHz up to 1.25 MHz, including 1 MHz explicitly. The amendment will target operation in the 700 MHz band but will also support operation in other VHF/UHF bands. The project amends Clause 12 of IEEE Std 802.16, adding a new system profile and amending other clauses as required to support the narrower channel widths. The range and data rate supported by the added profile are commensurate with those of the base standard, as scaled by the reduced channel bandwidth.

Contact: Lisa Weisser, l.weisser@ieee.org

BSR/IEEE 802.1Qcr-201x, Standard for Local and Metropolitan Area Networks -Bridges and Bridged Networks Asynchronous Traffic Shaping (new standard)

This project specifies procedures and managed objects for a bridge to perform asynchronous traffic shaping over full-duplex links with constant bit data rates. Asynchronous traffic shaping provides an additional layer of shaped egress queues to merge flows into the existing queue structure. The required minimum number of independent queues at an egress port is adjustable and is at least the number of ingress ports of the particular bridge that require merging. The project provides an informative framework for worst-case delay analysis in static networks/configurations.

Contact: Lisa Weisser, l.weisser@ieee.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/ASHRAE/IES 90.1ay-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 30 August 2016

ANSI/ASHRAE/IES 90.1bd-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 30 August 2016

ANSI/ASHRAE/IES 90.1bs-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 30 August 2016

ANSI/ASHRAE/IES 90.1cb-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 30 August 2016

ANSI/ASHRAE/IES 90.1cf-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 30 August 2016

ANSI/ASHRAE/IES 90.1cm-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 30 August 2016

ANSI/ASHRAE/IES 90.1de-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 30 August 2016

ANSI/ASHRAE/IES 90.1ei-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 30 August 2016

ANSI/ASHRAE/IES 90.1i-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 30 August 2016

ANSI/ASHRAE/USGBC/IES 189.1j-2016, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014): 30 August 2016

ANSI/ASHRAE/USGBC/IES 189.1m-2016, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Addendum m to Standard 189.1-201x): 30 August 2016

ANSI/ASHRAE/USGBC/IES 189.1q-2016, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014): 30 August 2016

ANSI/IEEE 1789-2015, Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers (new standard): 7 September 2016

ANSI/IEEE 26531-2015, ISO/IEC/IEEE International Standards for Systems and software engineering - Content management for product life-cycle, user, and service management documentation (new standard): 7 September 2016

ANSI/IEEE 45.3-2015, Recommended Practice for Shipboard Electrical Installations - Systems Engineering (new standard): 12 September 2016

ANSI/IEEE 1657a-2015, Recommended Practice for Personnel Qualifications for Installation and Maintenance of Stationary Batteries - Amendment 1: Updated Safety Sections (new standard): 14 September 2016

ANSI/IEEE C37.20.2-2015, Standard for Metal-Clad Switchgear (new standard): 12 September 2016

ANSI/IEEE 15288-2015, ISO/IEC/IEEE International Standard -Systems and software engineering -- System life cycle processes (revision of ANSI/IEEE 15288-2008): 9 September 2016

ANSI/IEEE 15289-2015, ISO/IEC/IEEE International Standard Systems and software engineering - Content of life-cycle information items (documentation) (revision of ANSI/IEEE 15289-2011): 9 September 2016

ANSI/IEEE 23026-2015, Systems and software engineering -Engineering and management of websites for systems, software, and services information (revision and redesignation of ANSI/IEEE 2001-2002 (R2010)): 9 September 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 czegers@ansi.org. Comments from US citizens regarding ISO documents should be sent to Karen Hughes at isot@ansi.org. Any prices, if shown, are for purchases through ANSI; prices elsewhere may differ. The sort order is first by due date then by alphanumeric designation.

34A/1942/FDIS, IEC 62922 Ed.1: Organic light emitting diode (OLED) panels for general lighting - Performance requirements; 21 October 2016

34/350/NP, PNW 34-350: Lighting systems and related equipment -Vocabulary; 2 December 2016

34/353/NP, PNW 34-353: Apparatus for lighting purposes – Non-active mode power measurement; 2 December 2016

34C/1266/CD, IEC 62386-221 Ed. 1: Digital addressable lighting interface - Part 221: Particular requirements for control gear – Load Shedding (device type 20); 2 December 2016

34C/1268/NP, PNW 34C-1268: IEC 62386-104: Digital addressable lighting interface - Part 104: General requirements – Wireless system components; 2 December 2016

91/1382/CDV, IEC 61188-7 Ed.2: Printed boards and printed board assemblies - Design and use - Part 7: Electronic component zero orientation for CAD library construction; 9 December 2016

100/2730/CDV, IEC 62481-1-1/Ed1: Digital living network alliance (DLNA) home networked device interoperability guidelines – Part1 -1: Architecture and protocols; 9 December 2016

100/2731/CDV, IEC 62481-2/Ed3: Digital living network alliance (DLNA) home networked device interoperability guidelines – Part2: DLNA media formats; 9 December 2016

100/2732/CDV, IEC 62481-3/Ed3: Digital living network alliance (DLNA) home networked device interoperability guidelines – Part3: Link protection; 9 December 2016

100/2733/CDV, IEC 62481-4/Ed2: Digital living network alliance (DLNA) home networked device interoperability guidelines – Part4: DRM interoperability solutions; 9 December 2016

100/2734/CDV, IEC 62481-5/Ed2: Digital living network alliance (DLNA) home networked device interoperability guidelines – Part5: DLNA device profile guidelines; 9 December 2016

100/2735/NP, IEC 62481-1-2/Ed1: Digital living network alliance (DLNA) home networked device interoperability guidelines - Part1-2: Architectures and protocols - Extended digital media renderer; 9 December 2016

100/2736/CDV, IEC 62481-1-2/Ed1: Digital living network alliance (DLNA) home networked device interoperability guidelines - Part1-2: Architectures and protocols - Extended digital media renderer; 9 December 2016

100/2737/NP, IEC 62481-1-3/Ed.1 - Digital living network alliance (DLNA) home networked device interoperability guidelines - Part1-3: Architectures and protocols - Cloud access; 9 December 2016

100/2738/CDV, IEC 62481-1-3/Ed1: Digital living network alliance (DLNA) home networked device interoperability guidelines - Part1-3: Architectures and protocols - Cloud access; 9 December 2016

100/2739/NP, IEC 62481-6-1/Ed1 - Digital living network alliance (DLNA) home networked device interoperability guidelines - Part6-1: Remote user interface - HTML5; 9 December 2016

100/2740/CDV, IEC 62481-6-1/Ed1: Digital living network alliance (DLNA) home networked device interoperability guidelines - Part6-1: Remote user interface - HTML5; 9 December 2016

100/2741/NP, IEC 62481-6-2/Ed1 - Digital living network alliance (DLNA) home networked device interoperability guidelines - Part6-2: Remote user interface - RVU; 9 December 2016

100/2742/CDV, IEC 62481-6-2/Ed1: Digital living network alliance (DLNA) home networked device interoperability guidelines - Part6-2: Remote user interface - RVU; 9 December 2016

100/2743/NP, IEC 62481-7/Ed1 - Digital living network alliance (DLNA) home networked device interoperability guidelines - Part 7: Authentication; 9 December 2016

100/2744/CDV, IEC 62481-7/Ed1: Digital living network alliance (DLNA) home networked device interoperability guidelines – Part7: Authentication; 9 December 2016

100/2745/NP, IEC 62481-8/Ed1 - Digital living network alliance (DLNA) home networked device interoperability guidelines - Part 8: Diagnostics; 9 December 2016

100/2746/CDV, IEC62481-8/Ed1: Digital living network alliance (DLNA) home networked device interoperability guidelines – Part8: Diagnostics; 9 December 2016

100/2747/NP, IEC 62481-9/Ed1 - Digital living network alliance (DLNA) home networked device interoperability guidelines - Part 9: HTTP adaptive delivery; 9 December 2016

100/2748/CDV, IEC 62481-9/Ed1: Digital living network alliance (DLNA) home networked device interoperability guidelines – Part9: HTTP adaptive delivery; 9 December 2016

100/2749/NP, IEC 62481-10/Ed1 - Digital living network alliance (DLNA) home networked device interoperability guidelines – Part10: Low power mode; 9 December 2016

100/2750/CDV, IEC 62481-10/Ed1: Digital living network alliance (DLNA) home networked device interoperability guidelines – Part10: Low power mode; 9 December 2016

119/115/NP, Future IEC 62899-204: Printed electronics - Part 204: Materials - Insulator ink; 9 December 2016

121A/97/CDV, IEC 62683 Ed.3: Low-voltage switchgear and controlgear - Product data and properties for information exchange; 9 December 2016

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>.

CISPR 16-2-3 Ed. 4.0 b:2016, Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements, \$375.00

S+ CISPR 16-2-3 Ed. 4.0 en:2016 (Redline version), Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity -Radiated disturbance measurements, \$446.00

ISO 6385:2016, Ergonomics principles in the design of work systems, \$123.00

ISO 18646-1:2016, Robotics - Performance criteria and related test methods for service robots - Part 1: Locomotion for wheeled robots, \$123.00

TSP Meeting Schedule

The 2016 LDI meetings will take place at the Embassy Suites, 3600 Paradise Road, south of the Las Vegas Convention Center. You can view the full schedule of ESTA LDI 2016 meetings at <http://tsp.esta.org/tsp/meetings/index.php>.

At the Embassy Suites, 3600 Paradise Road (unless otherwise noted):		
Control Protocols Working Group (CPWG)	09:00 – 11:30	Thursday 20 October 2016
CPWG BSR E1.33, RDMnet TG	10:00 – 18:00	Monday 24 October 2016
CPWG BSR E1.37-6 PID Descriptions TG	14:00 – 17:00	Sunday 23 October 2016
CPWG BSR E1.59, Vector Transmission TG	14:00 – 18:00	Wednesday 19 October 2016
CPWG sACN IPv6 TG (This meeting is on the ESTA booth #2181)	13:00 – 17:00	Thursday 20 October 2016
Electrical Power Working Group (EPWG)	19:00 – 23:00	Friday 21 October 2016
Event Safety Working Group (ESWG)	09:00 – 13:00	Friday 21 October 2016
Floors Working Group (FWG)	15:00 – 18:00	Friday 21 October 2016
Rigging Working Group (RWG)	19:00 – 23:00	Wednesday 19 October 2016
RWG BSR E1.4-3, Manual Hoists TG	14:00 – 18:00	Wednesday 19 October 2016
RWG BSR E1.6-1, Powered Hoist TG	09:00 – 13:00	Thursday 20 October 2016
RWG BSR E1.56, Rigging Points TG	09:00 – 13:00	Thursday 20 October 2016
Technical Standards Council	14:00 – 18:00	Wednesday 19 October 2016

ESTA Standards Watch

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Editors:

Karl G. Ruling, Technical Standards Manager
Entertainment Services and Technology Association
630 Ninth Avenue, Suite 609
New York, NY 10036
USA
karl.ruling@esta.org
1 212 244 1505 ext. 703
Fax 1 212 244 1502

Erin Grabe, Asst. Technical Standards Manager
Entertainment Services and Technology Association
630 Ninth Avenue, Suite 609
New York, NY 10036,
USA
erin.grabe@esta.org
1 212 244 1505 ext. 606
Fax 1 212 244 1502

As of 15 April 2013, all of the standards published by ESTA's Technical Standards Program are available to download, free of charge, at <http://www.tsp.esta.org/freestandards>, courtesy of a partnership between ESTA and [ProSight Specialty Insurance](#).

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