

PLASA Standards News

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Five PLASA Standards in Public Review

Five PLASA standards are now in public review through the end of this year. Two are proposed reaffirmations of existing standards (no changes), two are revisions of standards, and one is a new standard. The public review materials for the five standards are available at http://tsp.plasa.org/tsp/documents/public_review_docs.php.

The two reaffirmations are for **ANSI E1.11-2008, Entertainment Technology — USITT DMX512-A — Asynchronous Serial Digital Data Transmission Standard for Controlling Lighting Equipment and Accessories**, and **ANSI E1.14 - 2001 (R2007), Entertainment Technology — Recommendations for Inclusions in Fog Equipment Manuals**. E1.11 is the well-know DMX512-A, a lighting control protocol that is now well over twenty years old, if we count back to the original USITT version. E1.14 offers advice for what should be in user manuals for fog machines. It's a short standard, and it's free at http://tsp.plasa.org/tsp/documents/published_docs.php. The reviews for these two standards run through 7 January 2013. The reviews are closed when the "Review End Date" of 8 January is reached.

ANSI E1.19 - 2009, Recommended Practice for the Use of Class A Ground-Fault Circuit Interrupters (GFCIs) Intended for Personnel Protection in the Entertainment Industry, is a standard that offers guidance on using GFCIs to protect personnel. However, one of the problems with GFCIs in electrically noisy environments is that they are prone to tripping even when there is no electrical fault from which people need to be protected. PLASA's Electrical Power Working Group is proposing to change section 4 in the existing standard so that it offers recommendations on how to reduce this nuisance tripping. The public review for the revision runs through 14 January 2013. It is closed when 15 January starts.

BSR E1.35 - 201x, Standard for Lens Quality Measurements for Pattern Projecting Luminaires Intended for Entertainment Use, is a revision of the existing ANSI E1.35 - 2007. The standard describes a method for measuring and reporting stage and studio luminaire lens quality, emphasizing contrast and image

sharpness. It also offers a way for presenting these results on a datasheet in a format that is readily understood by a typical end-user. The procedure specified in this revision is more accurate than the procedure specified in the published 2007 edition. The review runs through 21 January 2013. It's closed when January 22 starts.

BSR E1.45 - 201x, Unidirectional Transport of IEEE 802 data frames over ANSI E1.11 (DMX512-A), is draft of a new standard that defines a minimal method to transport IEEE 802 data frames unidirectionally over ANSI E1.11 physical links using an Alternate START Code. The primary motivation is to allow communication of 802 data to luminaires over an ANSI E1.11 DMX512-A datalink for data transmission from those luminaires using Visible Light Communication, IEEE 802.15.7. However, this standard may be used to transport any 802 data for any purpose. Its review runs through 14 January. When January 15 starts, "*La Commedia è finita!*"

Stage Pin Connectors To Be Required to Fit!

On Friday, November 16, Underwriters Laboratories announced revisions to ANSI/UL 498, Standard for Safety for Attachment Plugs and Receptacles. The revised standard is now available from the Comm 2000 website (<http://www.comm-2000.com/>). The important revisions for Standards News readers are:

- Revision to Include Reference to ANSI E1.24-2012, Entertainment Technology Dimensional Requirements for Stage Pin Connectors
- Revision to the Scope to Exclude Single Pole Locking-Type Separable Connectors Covered by UL 1691

The first revision listed above is the culmination of a long process, started by USITT twenty or thirty years ago (people can't remember), to adopt a configuration standard for stage pin connectors. The 20 A connectors commonly used North American theatres have the pins and sockets so configured that male and female connectors from different manufacturers fit together fairly well, but this inter-manufacturer compatibility is not always there in the larger ampacity pin connectors. It is not uncommon to have 100 ampere males from one manufacturer not fit at all into the females from another manufacturer, or fit so poorly that the connectors overheat. The connectors might be Listed by UL, but without a configuration standard for a generic pin connector, the males and females from a manufacturer are only tested with each other, not with other brands, and thus are only Listed for use with connectors of the same brand. USITT started years ago to develop a USITT configuration standard for pin connectors. USITT's completed standard, S3-1997, was turned over to ESTA to have it adopted as an American National Standard, and was published as ANSI E1.24 -2006. However, that standard was not adopted by UL, so connectors Listed under UL 498 still did not necessarily mate with other brands. Now, the latest version, ANSI E1.24 - 2012, published by PLASA, has been incorporated by reference into UL 498, so compliance with a generic configuration standard will be a requirement for Listing.

What's this mean?

- Users can expect less frequent struggles to mate connectors from different manufacturers and fewer overheated connectors as old connectors are replaced with new ones conforming to the standard.
 - Pin connector manufacturers need to review the construction of their connectors and possibly modify them to conform to the revised standard if they are to maintain their Listing.
 - Single-pole connectors will covered by their own, product-specific standard, not this general one.
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ANSI Seeks Comments on ISO Anti-Bribery Systems Proposal

The British Standards Institute has submitted a proposal for a new international standard that would assist organizations in developing and implementing effective anti-bribery measures. As the U.S. member body to ISO, the American National Standards Institute invites all interested U.S. stakeholders to submit comments on the proposal by Friday, 14 December 2012. Comments should be sent to Steven Cornish, ANSI senior director for international policy, at isot@ansi.org.

According to the proposal, the standard would create a set of requirements to address bribery risks in the public, private, and voluntary sectors, and would be applicable to organizations of all sizes and types. The standard would address only bribery as defined by the laws of the country a given organization is operating in and would not provide guidelines for reducing related criminal offenses such as fraud or money laundering. In addition, the proposed standard would take into consideration information and guidelines contained in a number of relevant documents, including ISO 27001:2005, Information technology - Security techniques - Information security management systems - Requirements, and the United Nations Convention Against Corruption (http://www.unodc.org/documents/treaties/UNCAC/Publications/Convention/08-50026_E.pdf). The proposal filed by BSI is available at <http://plasa.me/ryvmt>.

ANSI Public Review Announcements

The following recent ANSI public review announcements are likely to be of interest to *Standards News* readers. Please send your comments before the deadline to the person indicated and to the Board of Standards Review at the American National Standards Institute, psa@ansi.org.

Due 24 December 2012

BSR ASA S12.9-Part 3-201x, Quantities and Procedures for Description and Measurement of Environmental Sound - Part 3: Short-term Measurements with an Observer Present (revision of ANSI ASA S12.9-Part 3-1993 (R2008))

Describes recommended procedures for measurement of short-term, time-average environmental sound outdoors at one or more locations in a community for environmental assessment or planning for compatible land uses and other purposes, such as demonstrating compliance with a regulation. These measurements require having an observer present. Methods are given to correct for the influence of background sound.

Single copy price: \$100.00

Order from and send comments to: Susan Blaeser, sblaeser@aip.org

BSR/ISA 92.04.01 Part 1-2007 (R201x), Performance Requirements for Instruments Used to Detect Oxygen-Deficient/Oxygen-Enriched Atmospheres (reaffirmation of ANSI/ISA 92.04.01 Part 1-2007)

This standard addresses the details of construction, performance, and testing of portable, mobile, and stationary electrical instruments used to provide a warning of the presence of oxygen-deficient or oxygen-enriched atmospheres. Single copy price: \$60.00

Order from and send comments to: Eliana Brazda, ebrazda@isa.org

INCITS/ISO/IEC 14496-10:2012, Information technology -- Coding of audiovisual objects -- Part 10: Advanced Video Coding (identical national adoption of ISO/IEC 14496-10:2012)

This part of ISO/IEC 14496 specifies advanced video coding for coding of audio-visual objects. Single copy price: \$285.00

Obtain an electronic copy from: <http://webstore.ansi.org>

Send comments to: Deborah Spittle, dspittle@itic.org

BSR C136.23-201x, Standard for Roadway and Area Lighting Equipment - Enclosed Architectural Luminaires (revision of ANSI C136.23-2006)

This standard is intended to cover physical, operating, maintenance, and light distribution features that permit use of architectural luminaires in roadway applications when so specified. The architectural luminaires covered by this standard include side-mounted, square, rectangular, cylindrical, spherical, and other types of decorative or nostalgic historical style luminaires that are considered to be any significant deviation from the luminaire style commonly known as the 'cobra head' style covered in ANSI C136.14. Single copy price: \$45.00

Order from and send comments to: Megan Hayes, megan.hayes@nema.org

BSR/RESNA AT-1-201x, RESNA Standard for Assistive Technology - Volume 1: Emergency Stair Travel Devices used by Individuals with Disabilities (new standard)

The standard will cover devices used for travel along stairs during emergency evacuations. This standard will not cover stair-climbing devices, incline platform lifts, or stairway chairlifts. It will specify vocabulary, methods of measurement, test methods and requirements for: dimensions and weight; seating and positioning; performance measures; strength and durability testing; operating limitations; and disclosure requirements. Single copy price: \$75.00

Order from and send comments to: Peter Axelson, peter@beneficialdesigns.com

BSR/IAPMO Z124.5-201x, Plastic Toilet Seats (revision of ANSI/IAPMO Z124.5-2006)

This standard covers plastic toilet seats (including toilet seat covers) and specifies requirements for materials, construction, performance testing, and markings. Single copy price: \$40.00

Order from and send comments to: Abraham Murra, Abraham.murra@iapmo.org

Due 31 December 2012

BSR/BICSI-005-201x, Electronic Safety and Security (ESS) System Design and Implementation Best Practices (new standard)

This standard is written for use in the design and implementation of the structured cabling systems used within electronic safety and security systems. This standard also has application to electronic safety and security countermeasures and systems that are provided by a physical security professional. Performance specifications for the electronic safety and security systems are not offered in this standard unless it relates to the structured cabling systems. Single copy price: Free

Order from and send comments to: Jeff Silveira, jsilveira@bicsi.org

CSA Public Review Announcements

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

Due 27 November 2012

W178.2, Certification of welding inspectors (new edition)

This standard covers the certification of welding inspectors at four certification levels. It specifies the responsibilities and the basic technical functions associated with each level. It specifies the requirements for the periodic review of welding inspector certification, including vision tests, and defines principles of practice and conduct for maintaining certification.

Due 5 January 2013

ISO 26000, Guidance on Social Responsibility

This draft is an adoption of ISO 26000, with no Canadian deviations. Copies can be obtained from the originating organization for a fee.

Due 14 January 2013

Z259.2.2, Self-retracting devices (new edition)

This standard specifies the requirements for all self-retracting devices (SRDs) used as connecting components in fall protection systems. SRDs are classified in this standard according to method of use.

Draft IEC & ISO Documents

The International Electrotechnical Commission (IEC) and the International Organization for Standardization (ISO) are considering the following documents for approval that might be of interest to *Standards News* readers. The documents are available from your nation's representative organization to the IEC and ISO. Comments should be sent via your representative before the deadline date shown. Comments from citizens

of the United States of America on IEC drafts should be sent to Charles T. Zegers at czegers@ansi.org. Comments from Americans on ISO drafts should be sent to Rachel Howenstine at isot@ansi.org. The final date for offering comments is listed for each draft.

77A/801/CD, IEC 61000-4-19: Electromagnetic Compatibility (EMC) Part 4-19 - Testing and measurement techniques - Test for immunity to conducted, differential mode disturbances in the frequency range from 2 kHz to 150 kHz, at AC ports, 4 January 2013

ISO/IEC 14496-1/DAmD2, Information technology - Coding of audiovisual objects - Part 1: Systems - Amendment 2: Support for raw audio-visual data - 31 January 2013

ISO/DIS 24504, Ergonomics - Accessible design - Sound pressure levels of spoken announcements for products and public address systems - 28 January 2013

New ANS Projects

ANSI has announced the following new projects that might materially affect *Standards News* readers. Please contact the person listed if you are interested in more information or in becoming involved. You also may contact the developer if you object to the project and wish it to be abandoned, or if you would like to point out that its scope is covered by an existing standard, so the project might be redundant or conflicting.

BSR/CEA 2006-C-201x, Testing & Measurement Methods for Mobile Audio Amplifiers (revision and redesignation of ANSI/CEA 2006-B-2009)

CEA-2006-C defines characteristics that, considered collectively, describe the performance of power amplifiers designed for use in mobile applications. Power amplifiers designed for use in mobile 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 watts when measured in accordance with CEA-2006-C. Contact: Shazia McGeehan, smcgeehan@ce.org

BSR/CEA 2015-A-201x, Mobile Electronics Cabling Standard (revision and redesignation of ANSI/CEA 2015-2007)

This standard defines size and performance requirements for power and speaker cabling used in mobile electronics applications. Contact: Shazia McGeehan, smcgeehan@ce.org

BSR/CSA C448-201x, Design and Installation of Earth Energy Systems (new standard)

This standard will apply to: (1) direct expansion ground source heat pumps and unitary single package or split system liquid source and earth energy heat pumps for all systems using groundwater, submerged heat exchangers, or ground heat exchangers as a thermal source or sink for heating and/or cooling, with or without a supplementary heating source; (2) thermal energy storage systems, and; (3) new and retrofit installations. This standard will cover minimum requirements for equipment, material selection, site survey, system design, installation, testing and verification, documentation, commissioning and decommissioning. Contact: Cathy Rake, cathy.rake@csagroup.org

BSR/IEEE 802.11aj-201x, IEEE Standard for Information technology--Telecommunications and information exchange between systems Local and metropolitan area networks--Specific requirements Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications - Amendment: Enhancements for Very High Throughput to support Chinese millimeter wave frequency bands (new standard)

The scope of this standard is to define one medium access control (MAC) and several physical layer (PHY) specifications for wireless connectivity for fixed, portable, and moving stations (STAs) within a local area. Contact: Lisa Yacone, l.yacone@ieee.org

BSR/IEEE 802.1AB-201x/Cor 1-201x, IEEE Standard for Local and metropolitan area networks-- Station and Media Access Control Connectivity Discovery - Corrigendum 1: Technical and editorial corrections (new standard)

The scope of this standard is to define a protocol and management elements, suitable for advertising information to stations attached to the same IEEE 802 LAN, for the purpose of populating physical topology and device discovery management information databases. The protocol facilitates the identification of stations connected by IEEE 802 LANs/MANs, their points of interconnection, and access points for management protocols. Contact: Lisa Yacone, l.yacone@ieee.org

BSR/IEEE 802.3bm-201x, IEEE Standard for Ethernet Amendment: Physical Layer Specifications and Management Parameters for 40 Gb/s and 100 Gb/s Operation Over Fiber Optic Cables (new standard)

This standard defines Ethernet local area, access and metropolitan area networks. Ethernet is specified at selected speeds of operation; and uses a common media access control (MAC) specification and management information base (MIB). The Carrier Sense Multiple Access with Collision Detection (CSMA/CD) MAC protocol specifies shared medium (half duplex) operation, as well as full duplex operation. Speed specific Media Independent Interfaces (MIIs) provide an architectural and optional implementation interface to selected Physical Layer entities (PHY). Contact: Lisa Yacone, l.yacone@ieee.org

Final Actions on American National Standards

The actions noted below have been approved by the ANSI Board of Standards Review or by an ANSI-Audited Designator. Final actions can include withdrawals as well as the adoption of new standards and the revision or reaffirmation of existing standards.

ANSI/ASHRAE Addendum ao to ANSI/ASHRAE Standard 135-2012, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2010): 27 October 2012

ANSI/ASHRAE Addendum i to ANSI/ASHRAE Standard 135-2012, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2010): 27 October 2012

ANSI/ASHRAE Addendum k to ANSI/ASHRAE Standard 135.1-2012, Method of Test for Conformance to BACnet (addenda to ANSI/ASHRAE Standard 135.1-2009): 27 October 2012

ANSI/ASHRAE Addendum m to ANSI/ASHRAE Standard 135.1-2012, Method of Test for Conformance to BACnet (addenda to ANSI/ASHRAE Standard 135.1-2009): 27 October 2012

ANSI/UL 891-2012, Standard for Safety for Switchboards (revision of ANSI/UL 891-2005): 31 October 2012

ANSI/UL 891-2012a, Standard for Safety for Switchboards (Proposal dated 03-30-12) (revision of ANSI/UL 891-2005): 31 October 2012

ANSI/UL 1313-2012, Standard for Safety for Nonmetallic Safety Cans for Petroleum Products (revision of ANSI/UL 1313-2003 (R2007)): 1 November 2012

ANSI/UL 1682-2012, Standard for Safety for Plugs, Receptacles, and Cable Connectors, of the Pin and Sleeve Type (revision of ANSI/UL 1682-2007): 1 November 2012

Newly Published IEC & ISO Documents

Listed here are documents recently approved by the International Electrotechnical Commission and the International Organization for Standardization. The prices shown are those if purchased from the ANSI

Electronic Standards Store at <http://webstore.ansi.org/>. The prices might be lower or higher from other vendors.

ISO/IEC 14143-6:2012, Information technology - Software measurement - Functional size measurement - Part 6: Guide for use of ISO/IEC 14143 series and related International Standards, \$104.00

ISO/IEC 14908-1:2012, Information technology - Control network protocol - Part 1: Protocol stack, \$235.00

ISO/IEC 15938-12:2012, Information technology - Multimedia content description interface - Part 12: Query format, \$235.00

ISO/IEC 23001-7/Amd1:2012, Information technology - MPEG systems technologies - Part 7: Common encryption in ISO base media file format files - Amendment 1: AES-CBC-128 and key rotation, \$16.00

ISO/IEC 25021:2012, Systems and software engineering - Systems and software Quality Requirements and Evaluation (SQuaRE) - Quality measure elements, \$135.00

ISO/IEC/IEEE 8802-11:2012, Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 11: Wireless LAN medium access control (MAC) and physical layer (PHY) specifications, \$235.00

TSP Meeting Schedule

The Stage Lifts Working Group normally meets by Webex on the second Monday of each month. For more information, contact Kurt Pragman at Kurt@pragmanassociates.com.

The meetings shown below are scheduled to be held at the Marriott Solana in Westlake, Texas.

Control Protocols Working Group	09:00 - noon	Saturday 26 January 2013
Control Protocols Plugfest	16:00 - 23:00	Friday 25 January 2013
	09:00 - 23:00	Saturday 26 January 2013
	09:00 - 23:00	Sunday 27 January 2013
	09:00 - noon	Monday 28 January 2013
Control Protocols E1.30-12 Task Group	14:00 – 18:00	Friday 25 January 2013
Control Protocols E1.33 Task Group	13:00 – 19:00	Saturday 26 January 2013
Electrical Power Working Group	09:00 - noon	Friday 25 January 2013
Fog & Smoke Working Group	19:00 - 23:00	Friday 25 January 2013
Photometrics Working Group	14:00 - 18:00	Saturday 26 January 2013
Rigging Working Group	19:00 - 23:00	Thursday 24 January 2013
Rigging BSR E1.39 Task Group	09:00 - 16:00	Friday 25 January 2013
Rigging BSR E1.44 Task Group	09:00 – 13:00	Friday 25 January 2013
Technical Standards Council	09:00 - 13:00	Sunday 27 January 2013
Working Group Chairs	14:00 - 18:00	Friday 25 January 2013

Reserve a hotel room at the Marriott Solana at a special rate at <http://plasa.me/lcvnz>.

The meetings shown below are scheduled to be held at the Hyatt Regency Milwaukee in conjunction with the USITT Conference and Stage Expo:

Control Protocols BSR E1.33 Mo RDM TG	13:00 - 18:00	Saturday, 23 March 2013
Control Protocols Working Group	09:00 - 13:00	Thursday, 21 March 2013
Electrical Power Working Group	09:00 - noon	Wednesday, 20 March 2013
Floors Working Group	08:00 - 11:00	Saturday, 23 March 2013
Rigging Working Group	19:00 - 23:00	Friday, 22 March 2013
Technical Standards Council	13:00 - 17:00	Wednesday, 20 March 2013

Reserve a hotel room for the March meetings at <http://plasa.me/etdnm>.

PLASA Standards News

is distributed as a benefit to PLASA members and as a project announcement medium for PLASA Technical Standards Program participants.

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