

PLASA Standards News

Late July 2015 Volume 19, Number 14

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PLASA TSP Public Reviews

Nine PLASA standards are in public review on the TSP website at http://tsp.plasa.org/tsp/documents/public_review_docs.php. Most of the documents have public reviews that run through the end of the day 28 September 2015, but one ends at the end of the day on 3 August 2015. Listed in order by working group, they are:

Control Protocols Working Group

BSR E1.31 - 20xx, Entertainment Technology - Lightweight streaming protocol for transport of DMX512 using ACN

This standard describes a mechanism to transfer DMX512-A packets over a TCP/IP network using a subset of the ACN protocol suite. It covers data format, data protocol, data addressing, and network management. It also outlines a synchronization method to help ensure that multiple sinks can process this data concurrently when supervised by the same controller. This revision includes the addition of DMX universe synchronization. The review runs through 28 September 2015; it is over when 29 September starts.

BSR E1.33 – 20xx, Entertainment Technology -- (RDMnet) -- Message Transport and Device Management of ANSI E1.20 (RDM) over IP Networks

This standard describes a method of implementing ANSI E1.20 Remote Device Management messaging over an IPv4 network. The primary anticipated use of the standard would be to complement ANSI E1.31 on an IPv4 entertainment lighting control network. This project was originally described as offering extensions to E1.31, but in fact the messages work alongside E1.31 in the same network environment. The review runs through 28 September 2015; it is over when 29 September starts.

Electrical Power Working Group

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 accordance with existing 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. The review runs through August 3; it is over when 4 August 2015 starts.

BSR E1.53 - 20xx, Overhead mounting of luminaires, lighting accessories, and other portable devices: specification and practice

The standard covers specifications for the primary and secondary mounting devices for portable stage and studio luminaires and accessories. It also covers these mounting devices for special effects equipment (e.g. fog machines and bubble machines) that are often mounted along with lighting equipment on trusses and rigging system battens. The standard gives guidance on how to properly affix these mounting devices. The review runs through 28 September 2015; it is over when 29 September starts.

Floors Working Group

BSR E1.46 - 20xx, Standard for the Prevention of Falls from Theatrical Stages and Raised Performance Platforms

The users of theatrical stages and raised platforms can suffer debilitating injuries from falls into orchestra pits, open stage lifts, and similar openings in stage floors. Health and safety regulations require action to prevent these falls by employees, but offer little guidance that is suitable for theatrical environments. This document would provide that guidance for all people at risk, including employees. The review runs through 28 September 2015; it is over when 29 September starts.

Rigging Working Group

BSR E1.4-1 - 201x, Entertainment Technology Manual Counterweight Rigging Systems

The current ANSI E1.4 – 2009 standard has been opened for revision. The intent is a suite of standards. BSR E1.4-1 applies to permanently installed, manually operated systems of stage rigging hardware for the raising, lowering, and suspension of scenery, lighting, and similar loads. The review runs through 28 September 2015; it is over when 29 September starts.

BSR E1.22-201X, Entertainment Technology – Fire Curtain Safety Systems

BSR E1.22-201x is a revision of the 2009 ANSI standard. It is being updated to better align it with the requirements stated in NFPA 80. The draft standard describes the materials, design, fabrication, installation, operation, testing, and maintenance of fire safety curtains and systems used for theatre proscenium opening protection. The review runs through 28 September 2015; it is over when 29 September starts.

BSR E1.43 - 201X, Entertainment Technology - Performer Flying Systems

This document establishes a minimum level of performance parameters for the design, manufacture, use, and maintenance of performer flying systems used in the production of entertainment events. The purpose of this guidance is to achieve the adequate strength, reliability, and safety of these systems to ensure safety of the performer under all circumstances. The review runs through 28 September 2015; it is over when 29 September starts.

Stage Lifts Working Group

BSR E1.42 – 201x, Entertainment Technology–Safety Standard for Orchestra Pit Lifts

Stage lifts, such as orchestra pit or theatre forestage lifts, are not the subject of any current national standard. As a result, safety requirements and inspections of them are inconsistent. E1.42 is being written to address this lack of a standard. The scope is limited to safety and to orchestra or forestage lifts that are installed as a part of the building and that are not custom-built for a single theatrical production. The review runs through 28 September 2015; it is over when 29 September starts.

Event Safety Summit Returns

The Event Safety Alliance has announced the return of the Event Safety Summit, a three-day safety conference and training opportunity designed to meet the unique demands of the live event industry. This year's Summit will take place 1-3 December 2015, at the rehearsal facilities of Rock Lititz in Lititz, Pennsylvania. More information is available at <https://eventsafetyalliance.org/event-safety-summit-2015>.

Comment Deadlines Suspended on FCC Rules for Preservation of UHF Channel for Wireless Microphones

On 16 June the FCC released a Notice of Proposed Rulemaking seeking comment on rules to preserve vacant television channels for shared use by white space devices and wireless microphones. On July 24 the National Association of Broadcasters (NAB) filed a Motion for Extension asking for a limited extension of the comment and reply comment deadlines in this proceeding. For the reasons set forth in NAB's motion and others, the FCC has suspend the comment and reply comment deadlines until further notice. More information is available at https://apps.fcc.gov/edocs_public/attachmatch/DA-15-867A1.pdf.

Comments Sought on Proposed New ISO Field of Activity on Vape and Vapor Products

The International Organization for Standardization has submitted a proposal for a new field of activity on vape and vapor products. The new work item proposal, submitted by AFNOR, the Organization of the French Standardization System, notes that the work program would focus on the following:

- The development of ISO standards on vapor products (devices and consumables) and emissions during use;
- The development of ISO standards on general terminology; and
- Other deliverables and work addressing risks related to the use of vapor products in view of the safety of the user and surrounding persons.

Vape or vapor products—an emerging technical and economic field—refers to devices used to transform consumables into an inhalable aerosol, and also refers to the e-liquids intended for transformation into an aerosol. This encompasses a wide range of devices including electronic cigarettes, e-cigars, e-pipes, and e-chichas, which may be disposable or refillable by means of a refill container and a tank, or rechargeable with single-use cartridges.

The proposal is available at <http://plasa.me/pawwl>. Comments on the proposal from US citizens should be submitted to Steven Cornish, ANSI director of international policy (scornish@ansi.org), by Friday, 14 August 2015. Comments from citizens of other nations should be submitted to their ISO representatives.

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 News* readers. If you have a problem with these notices, you can protest through your representative to the WTO. In the US, that is NIST (notifyus@nist.gov). See

<http://ec.europa.eu/enterprise/tbt/> for European TBT objections.

United States of America Notification USA/1011

Date issued: 20 July 2015

Agency responsible: Environmental Protection Agency (EPA) ; National Highway Traffic Safety Administration (NHTSA)

National inquiry point: USA WTO TBT Inquiry Point

Products covered: Medium and heavy-duty vehicle emissions

Title: Greenhouse Gas Emissions and Fuel Efficiency Standards for Medium- and Heavy-Duty Engines and Vehicles - Phase 2

Description of content: EPA and NHTSA, on behalf of the Department of Transportation, are each proposing rules to establish a comprehensive Phase 2 Heavy- Duty (HD) National Program that will reduce greenhouse gas (GHG) emissions and fuel consumption for new on-road heavy-duty vehicles. This technology-advancing program would phase in over the long-term, beginning in the 2018 model year and culminating in standards for model year 2027, responding to the President's directive on 18 February 2014, to develop new standards that will take us well into the next decade. NHTSA's proposed fuel consumption standards and EPA's proposed carbon dioxide (CO₂) emission standards are tailored to each of four regulatory categories of heavy-duty vehicles: Combination tractors; trailers used in combination with those tractors; heavy-duty pickup trucks and vans; and vocational vehicles. The proposal also includes separate standards for the engines that power combination tractors and vocational vehicles. Certain proposed requirements for control of GHG emissions are exclusive to EPA programs. These include EPA's proposed hydrofluorocarbon standards to control leakage from air conditioning systems in vocational vehicles, and EPA's proposed nitrous oxide (N₂O) and methane (CH₄) standards for heavy-duty engines. Additionally, NHTSA is addressing misalignment in the Phase 1 standards between EPA and NHTSA to ensure there are no differences in compliance standards between the agencies. In an effort to promote efficiency, the agencies are also proposing to amend their rules to modify reporting requirements, such as the method by which manufacturers submit pre-model, mid-model, and supplemental reports. EPA's proposed HD Phase 2 GHG emission standards are authorized under the Clean Air Act and NHTSA's proposed HD Phase 2 fuel consumption standards authorized under the Energy Independence and Security Act of 2007. These standards would begin with model year 2018 for trailers under EPA standards and 2021 for all of the other heavy-duty vehicle and engine categories. The agencies estimate that the combined standards would reduce CO₂ emissions by approximately 1 billion metric tons and save 1.8 billion barrels of oil over the life of vehicles and engines sold during the Phase 2 program, providing over \$200 billion in net societal benefits. As noted, the proposal also includes certain EPA-specific provisions relating to control of emissions of pollutants other than GHGs. EPA is seeking comment on non- GHG emission standards relating to the use of auxiliary power units installed in tractors. In addition, EPA is proposing to clarify the classification of natural gas engines and other gaseous-fueled heavy-duty engines, and is proposing closed crankcase standards for emissions of all pollutants from natural gas heavy-duty engines. EPA is also proposing technical amendments to EPA rules that apply to emissions of non-GHG pollutants from light-duty motor vehicles, marine diesel engines, and other nonroad engines and equipment. Finally, EPA is proposing to require that rebuilt engines installed in new incomplete vehicles meet the emission standards applicable in the year of assembly, including all applicable standards for criteria pollutants.

Objective and rationale: Protection of the environment

Relevant documents: 80 Federal Register (FR) 40137, 13 July 2015; Title 40 Code of Federal Regulations (CFR) Parts 9, 22, 85, 86, 600, 1033, 1036, 1037, 1039, 1042, 1043, 1065, 1066 and 1068; Title 49 Code of Federal Regulations (CFR) Parts 512, 523, 534, 535, 537 and 538. 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: 11 September 2015

Full text URL: <http://www.gpo.gov/fdsys/pkg/FR-2015-07-13/pdf/2015-15500.pdf>

Israel Notification ISR/815

Date issued: 17 July 2015

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)

Products covered: Low-voltage switchgear and control gear assemblies (HS 853710, 853720)

Title: SI 61439 Part 4 - Low-Voltage Switchgear and Controlgear Assemblies: Particular Requirements for Assemblies for Construction Sites (ACS)

Description of content: Revision of the Mandatory Standard SI 1419 part 4 dealing with low-voltage switchgear and control gear assemblies to be replaced with SI 61439 Part 4. This draft revision adopts the International Standards IEC 61439-4 - Edition 1.0: 2012-11 and therefore is significantly differs from the old standards.

Objective and rationale: Protection of human health or safety

Relevant documents: - Israel Mandatory Standard SI 1419 Part 4 (October 2002) - International Standard IEC 61439-4 – Edition 1.0: 2012-11

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 17 September 2015

Full text: [https://tsapps.nist.gov/NotifyUS/docs/wto_country/ISR/full_text/pdf/ISR815\(hebrew\).pdf](https://tsapps.nist.gov/NotifyUS/docs/wto_country/ISR/full_text/pdf/ISR815(hebrew).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 23 August 2015

BSR/ASHRAE/USGBC/IES Addendum 189.1d-201x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014)

This addendum corrects and clarifies a potentially confusing requirement in which a designer may conclude that bonus lighting power control factors from Table 9.6.3 Control Factors Used in Calculating Additional Interior LPD of ANSI/ASHRAE/IES Standard 90.1 cannot be used. The changes in full are;

7.4.6.1.1 Interior Lighting Power Densities (LPDs)

c. Any of the cControl factors from Table 9.6.3 in ANSI/ASHRAE/IES Standard 90.1 shall be permitted to be applied ~~not be used for any~~ provided that the corresponding control methodologies is not required in by this standard (ASHRAE Standard 189.1).

Send comments to: <http://www.ashrae.org/standards-research--technology/public-review-drafts>

BSR/ASHRAE/USGBC/IES Addendum 189.1e-201x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014)

This addendum provides control credits for institutional tuning that are in addition to the control factors that already exist in ANSI/ASHRAE/IES Standard 90.1-2013. The changes in full can be seen at <http://plasa.me/day9j>.

Send comments to: <http://www.ashrae.org/standards-research--technology/public-review-drafts>

Due 24 August 2015

BSR/ASNT CP-105-201x, ASNT standard topical outlines for qualifications of nondestructive testing personnel (revision of ANSI/ASNT CP-105-2011)

An essential element in the effectiveness of nondestructive testing (NDT) is the qualification of the personnel who are responsible for and who perform nondestructive testing. Formal training is an important and necessary element in acquiring the skills necessary to effectively perform nondestructive tests. The American Society for Nondestructive Testing, Inc. (ASNT) has, therefore, undertaken the preparation and publication of this standard which specifies the body of knowledge to be used as part of a training program qualifying and certifying NDT personnel.

Single copy price: Free electronic copy

Obtain an electronic copy from: <http://www.asnt.org/cp105review>

Send comments to: Charles Longo, clongo@asnt.org

BSR/ASNT CP-189-201x, ASNT Standard for qualification and certification of Nondestructive testing personnel (revision of ANSI/ASNT CP-189-2011)

This standard establishes the minimum requirements for the qualification and certification of nondestructive testing (NDT) and predictive maintenance (PdM) personnel. This standard details the minimum training, education, and experience requirements for NDT personnel and provides criteria for documenting qualifications and certification. This standard requires the employer to establish a procedure for the

certification of NDT personnel. This standard requires that the employer incorporate any unique or additional requirements in the certification procedure.

Single copy price: Free electronic copy

Obtain an electronic copy from: <http://www.asnt.org/cp189review>

Send comments to: Charles Longo, clongo@asnt.org

BSR/AWS J1.2M/J1.2-201X, Guide for 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. Where there is conflict, the equipment manufacturers' document shall take precedence.

Single copy price: \$25.00

Order from: Efram Abrams, eabrams@aws.org

Send comments to: Andrew Davis, adavis@aws.org

BSR/AWS C1.4M/C1.4-201X, Specification for Resistance Welding of Carbon and Low Alloy Steels (revision of ANSI/AWS C1.4M/C1.4-2009)

This specification establishes welding equipment requirements and welding procedures used to produce welds of acceptable quality in coated and uncoated carbon and low-alloy steels, including mild steels and high-strength low-alloy (HSLA) steels. Since this standard relies on a pulled button to validate the welding procedure, it may not apply to the welding of Advanced High-Strength Steels (AHSS) including: dual-phase (DP), transformation induced plasticity (TRIP), complex-phase (CP), and martensitic steels (MART); or to Hot-Stamped Steels (HSS).

Single copy price: \$25.00

Order from: Efram Abrams, eabrams@aws.org

Send comments to: Andrew Davis, adavis@aws.org

BSR/AWS D1.9/D1.9M-201x, Structural Welding Code - Titanium (revision of ANSI/AWS D1.9/D1.9M-2007)

The code contains the requirements for designing, fabricating, and inspecting of titanium structures. When the code is stipulated in contract documents, conformance with all provisions of the code shall be required, except for those provisions that the Engineer or contract documents specifically modify or exempt. Annex A of the code contains requirements for the ballistic testing of structural titanium welds.

Single copy price: \$60.00

Order from: Peter Portela, pportela@aws.org

Send comments to: Andrew Davis, adavis@aws.org

BSR/NECA 781-201X, Recommended Practice for Installing and Maintaining Lightning Protection Systems (new standard)

This standard covers quality and performance criteria and best practices for lightning protection system design and installation for both new construction and existing structures. The basic components of lightning protection systems are covered as well as basic information related to lightning protection system design and system maintenance.

Single copy price: \$40.00

Order from and send comments to: Sofia Arias, sofia.arias@necanet.org

BSR/NECA 90-201X, Standard for Commissioning Building Electrical Systems (revision of ANSI/NECA 90-2004 (R2010))

This standard describes installation procedures for commissioning common newly installed or retrofitted building electrical systems and equipment. It defines the process of commissioning building electrical systems and provides sample guidelines for attaining optimum system performances that conform to design, specification, and industry-accepted codes and standards. This standard is not intended to cover commissioning processes for every type of electrical system and references other specific NEIS documents where such information is provided.

Single copy price: \$40.00

Order from and send comments to: Sofia Arias, sofia.arias@necanet.org

BSR/NECA 130-201X, Standard for Installing and Maintaining Wiring Devices (revision of ANSI/NECA 130-2010)

This standard describes the installation and maintenance procedures for wiring devices.

Single copy price: \$40.00

Order from and send comments to: Sofia Arias, sofia.arias@necanet.org

BSR/NECA 169-201X, Standard for Installing and Maintaining Arc-Fault Circuit Interrupters (AFCIs) and Ground-Fault Circuit Interrupters (GFCIs) (revision of ANSI/NECA 169-2010)

This standard describes the installation and maintenance procedures for arcfault circuit interrupters (AFCIs) and ground-fault circuit interrupters (GFCIs).

Single copy price: \$40.00

Order from and send comments to: Sofia Arias, sofia.arias@necanet.org

BSR/NECA 230-201X, Standard for Selecting, Installing, and Maintaining of Electric Motors and Motor Controllers (revision of ANSI/NECA 230-2010)

This standard describes recommended procedures for selecting and installing stationary electric motors and motor controllers rated 1,000 volts or less. It also covers routine maintenance procedures to be followed after the installation is complete.

Single copy price: \$40.00

Order from and send comments to: Sofia Arias, sofia.arias@necanet.org

BSR/TIA 5017-201x, Telecommunications - Physical Network Security Standard (new standard)

This document covers the security of telecom cables, pathways, spaces, and other elements of the physical infrastructure. It includes design guidelines, installation practices, administration, and management. It addresses guidelines for new construction as well as renovation of existing buildings. The document also provides installation guidelines, for implementing security cabling systems for premise security systems with an integrated security approach. Justification: This standard will enable the planning and installation of physical network security systems that protect critical telecommunications infrastructure elements.

Single copy price: \$60.00

Order from and send comments to: Telecommunications Industry Association, standards@tiaonline.org

BSR/TIA 568.1-D-201x, Commercial Building Telecommunications Infrastructure Standard (revision and redesignation of ANSI/TIA 568-C.1 -2009, ANSI/TIA 568-C.1.1-2012, and ANSI/TIA 568-C.1.2-2011)

This standard specifies requirements for telecommunications cabling within a commercial building and between commercial buildings in a campus environment. It defines terms, specifies cabling topology, lists cabling requirements, establishes cabling distances, sets telecommunications outlet/connector configurations, and provides additional useful information.

Single copy price: \$60.00

Order from and send comments to: Telecommunications Industry Association, standards@tiaonline.org

BSR/TIA 607-C-201x, Generic Telecommunications Grounding (Earthing) and Bonding for Customer Premises (revision, redesignation and consolidation of ANSI/TIA 607-B-2011, ANSI/TIA 607-B-1-2013, and ANSI/TIA 607-B-2-2013)

This standard specifies requirements for a generic telecommunications bonding and grounding infrastructure and its interconnection to electrical systems and telecommunications systems. This standard may also be used as a guide for the renovation or retrofit of existing systems. Revision needed to incorporate addenda, update references, and harmonize with ISO/IEC 30129.

Single copy price: \$60.00

Order from and send comments to: Telecommunications Industry Association, standards@tiaonline.org

BSR/TIA 862-B-201x, Structured Cabling Infrastructure Standard for Intelligent Building Systems (revision and redesignation of ANSI/TIA 862-A -2011)

This standard specifies minimum requirements for intelligent building system cabling infrastructure including cabling topology, architecture, design and installation practices, test procedures, and components. The cabling infrastructure specified by this standard is intended to support a wide range of systems, particularly those that utilize or can utilize IP-based infrastructure. Justification: Revision of the document to include additional information regarding cabling supporting intelligent building systems.

Single copy price: \$60.00

Order from and send comments to: Telecommunications Industry Association, standards@tiaonline.org

Due 31 August 2015

BSR/AWS B2.1/B2.1M:2014-AMD1-201x, Specification for Welding Procedure and Performance Qualification (addenda to ANSI/AWS B2.1 -2004)

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

Single copy price: \$132

Order from: Jennifer Rosario, jrosario@aws.org

Send comments to: adavis@aws.org

BSR/CEA 709.5-201x, Control Networking Protocol Specification: Part 5: Implementation - Application-Layer Guidelines (new standard)

This specification contains all the information necessary to facilitate the exchange of data and control information in an interoperable fashion using ANSI/CEA 709.1 and its associated data-transport media specifications. This specification establishes a minimal set of rules for compliance. It allows for extended services to be provided, given that the rules are adhered-to within the system. This standard permits extended services to coexist and defines the bounds in which those services function, including the format for internal device-documentation of those services. Services outside the scope of this specification so long as they are adherent of the system are permitted but will not necessarily be interoperable with any other devices and shall not be essential for the functioning of the device. Seeking users of control networking systems.

Single copy price: \$120.00

Order from and send comments to: Veronica Lancaster, vlancaster@ce.org

BSR/CEA 709.6-201x, Control Networking Protocol Specification: Part 6: Application Elements (new standard)

This standard will provide mechanisms through which various vendors of control networking systems may exchange information in a standardized way to ensure interoperability between various control networking protocol implementations. This standard will provide specifications for the Application Elements of Control Network Protocol packets as follows: Definitions of standardized packet (network-variable) data types; Definitions of device interface files; Definitions of standardized configuration-property types; Definitions of standardized enumeration types; Definitions of standardized functional profiles; Definition of the standardized method of file transfer between devices. It also defines the device interface for a device as specified, which is necessary to exchange data between various devices from different manufacturers.

Single copy price: \$455.00

Order from and send comments to: Veronica Lancaster, vlancaster@ce.org

BSR/ESD SP10.1-201x, ESD Association Standard Practice for the Protection of Electrostatic Discharge Susceptible Items – Automated Handling Equipment (AHE) (revision of ANSI/ESD SP10.1-2007)

This standard practice covers resistance-to-ground measurements of machine components and sources of charge in AHE. Two methods are described to measure sources of charge. One method measures charge indirectly by measuring the voltage or field associated with the charge. The second method directly measures the voltage induced on ESDS items.

Single copy price: \$135 list/\$105 for members for PDF

Order from and send comments to: Christina Earl, cearl@esda.org

Due 7 September 2015

BSR/ASHRAE Addendum aj to BSR/ASHRAE Standard 135-2012, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2012)

This is a review of Independent Substantive Changes. The addendum describes a mechanism by which IPv6 can be added to BACnet and remain backwards compatible with existing devices and also adds an additional method for VMAC determination.

Single copy price: \$35.00

Obtain an electronic copy from: <http://www.ashrae.org/standards-research--technology/public-review-drafts>

Send comments to: <http://www.ashrae.org/standards-research--technology/public-review-drafts>

BSR/ASHRAE Addendum be to ANSI/ASHRAE Standard 135-2012, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2012)

This addendum adds lighting-specific BIBBs and device profiles.

Single copy price: \$35.00

Obtain an electronic copy from: <http://www.ashrae.org/standards-research--technology/public-review-drafts>

Send comments to: <http://www.ashrae.org/standards-research--technology/public-review-drafts>

BSR/ASHRAE Addendum bf to ANSI/ASHRAE Standard 135-2012, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2012)

The Network Port object has a couple of limitations when applied to advanced network setups. This addendum adds Advanced Network Configuration. The addendum also addresses BVLL Responses for non-BBMD Devices.

Single copy price: \$35.00

Obtain an electronic copy from: <http://www.ashrae.org/standards-research--technology/public-review-drafts>

Send comments to: <http://www.ashrae.org/standards-research--technology/public-review-drafts>

BSR/ASHRAE/IES Addendum bg to Standard 90.1-2013, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013)

This proposal adds a new approach to Simplified Building Lighting for Retail Buildings and School Buildings. This method will provide a simplified method of compliance while saving energy through reduced LPDs and additional controls.

Single copy price: \$35.00

Obtain an electronic copy from: <http://www.ashrae.org/standards-research--technology/public-review-drafts>

Send comments to: <http://www.ashrae.org/standards-research--technology/public-review-drafts>

New ANS Projects

ANSI has announced the following new projects that might materially affect *Standards News* 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/ASSE Z590.3-2011 (R201x), Prevention through Design: Guidelines for Addressing Occupational Risks in Design and Redesign Processes (reaffirmation of ANSI/ASSE Z590.3-2011)

This standard provides guidance on including prevention through design concepts and processes as a specifically identified element in a safety and health management system so that decisions pertaining to occupational risks are incorporated into the design and redesign processes, including consideration of the life cycle of facilities, materials, and equipment.

Contact: Tim Fisher, TFisher@ASSE.org

BSR C137.1-201X, Zero to Ten Volt (0-10V) Analog Control Interface for Solid-State and Fluorescent Lighting (new standard)

The scope includes dimmable SSL drivers, dimmable fluorescent ballasts, and dimming controls that communicate via a 0-10 V analog interface. The drivers or ballasts may be internal or external to the luminaires. Controls include but are not limited to manual wall dimmers, sensors (such as light sensors) with control outputs, and converters from other wired or wireless protocols to 0-10 V. Intended applications are for general lighting, including but not limited to commercial, industrial, hospitality, residential, roadway, and area lighting. This standard describes both sides of the dimming interface, i.e., at the dimmable driver/ballast and at the dimming control. Use cases include a single control with one driver/ballast, one control with multiple driver/ballasts, or multiple controls on a circuit with one or more driver/ballasts. This standard does not address ANSI E1.3 devices; DALI, DMX, other digital protocols; or PWM or phase-cut dimming interfaces to driver/ballasts. Future revisions of this standard or companion standards may address other lighting technologies such as HID, induction, plasma, laser diode, etc.

Contact: Paul Rodriguez, paul.rodriguez@nema.org

BSR/BOMA Z65.1-2010 (R201x), Office Buildings: Standard Methods of Measurement (revision of ANSI/BOMA Z65.1-2010)

The standard's purpose is to permit clear communication among all participants in the commercial real estate industry; to foster consistent, unambiguous measurement of rentable areas; and to allow comparison of values on the basis of a clearly understood and generally agreed upon method of measurement.

Contact: Kevin Fry, kfry@boma.org

BSR/IEEE SI 10-201x, Standard for Metric Practice (revision)

This document is the primary American National Standard on application of the metric system. It emphasizes use of the International System of Units (SI), which is the modern, internationally accepted metric system. It includes information on SI, a limited list of units recognized for use with SI, and a list of conversion factors, together with general guidance on style and usage. It also lists older "metric" units that shall no longer be used. The word "primary" implies that other metric standards in the United States should be consistent with this document. Project Need: This important standard needs minor updating in order to be kept current. A revision is required to bring the standard into line with current international recommendations.

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

BSR/IEEE 2040.2-201x, Standard for Connected, Automated and Intelligent Vehicles: Testing and Verification (new standard)

This standard defines an overarching framework of testing and verification of the connectivity, automation, and intelligence aspects and their combination for connected, automated, and intelligent vehicles. This standard identifies existing applicable standards for testing and verification, and defines the integration of these standards into a consistent testing environment.

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

BSR N42.59-201x, Standard for Measuring the Imaging Performance of Millimeter-Wave Systems for Security Screening of Humans (new standard)

This standard applies to security screening systems that utilize millimeter-wave radiation to inspect people who are not inside vehicles, containers, or enclosures. Specifically, this standard applies to systems used to detect objects carried on the body of the individual being screened. The following types of systems are included in the scope of this standard:

- Systems designated as fixed, portal, re-locatable, transportable, mobile, or gantry; and
- Systems that are primarily imaging but that also may have complementary features such as material discrimination or automated threat recognition. This standard will not address how to test these complementary features.

Contact: Michael Unterweger, michael.unterweger@nist.gov

BSR/NEMA WD 6-201x, Wiring Devices - Dimensional Specifications (revision of ANSI/NEMA WD 6-2012)

This standard covers dimensional requirements for plugs and receptacles rated up to 60 A and 600 V.

Project Need: New wiring devices additions.

Contact: Andrei Moldoveanu, and_moldoveanu@nema.org

BSR/UL 2900-1-201X, Standard for Software Cybersecurity for Connected Devices, Part 1: General Requirements (new standard)

This standard describes the method by which the security-related features of connected devices are evaluated at the product level and tested for known vulnerabilities and software security weaknesses while also establishing a minimum set of verification activities intended to reduce the likelihood of zero day vulnerabilities that may affect the device. This security evaluation standard is not limited to, but applies to the testing of: application software, embedded software, firmware, drivers, middleware, and operating systems

Contact: Megan Sepper, Megan.M.Sepper@ul.com

BSR/UL 2900-2-2-201X, Standard for Software Cybersecurity for Connected Devices, Part 2-2: Particular Requirements for Industrial Control Systems (new standard)

Describes the method by which the security-related features of industrial control system components are evaluated at the product level and tested for known vulnerabilities while also establishing a minimum set of verification activities intended to reduce the likelihood of zero day vulnerabilities that may affect the component. This standard applies to the testing of network connected components of ICS. It applies to the following components; PLC, DCS, PLC and DCS programming software/operator interfaces, historian or data

loggers, control server, the SCADA server, RTU, IED, HMI, data historian, IO server [sic], fieldbus, networking, and access equipment for ICS systems
Contact: Megan Sepper, Megan.M.Sepper@ul.com

BSR/UL 2900-2-3-201X, Standard for Software Cybersecurity for Connected Devices, Part 2-3: Particular Requirements for Network Devices (new standard)

This standard describes the method by which the security-related features of network components are evaluated at the product level and tested for known vulnerabilities while also establishing a minimum set of verification activities intended to reduce the likelihood of zero-day vulnerabilities that may affect the component. This security evaluation standard applies to the testing of connected components of networks. It applies to the following key components: switches, modems, routers, servers, firewalls, intrusion prevention systems, load balancers, universal threat management devices, and converged network server equipment.
Contact: Megan Sepper, Megan.M.Sepper@ul.com

BSR/UL 2900-3-2-201X, Standard for Organization and Product Development Lifecycle Processes for Connected Devices, Part 3-2: Particular Requirements for Product Development Security Lifecycle Processes for Network Connected Components of Industrial Control Systems (new standard)

This standard describes the software development and maintenance process activities by which the security-related features of industrial control system components are developed using a minimum set of verification activities intended to reduce the likelihood of both known vulnerabilities and zero-day vulnerabilities that may affect the component.
Contact: Megan Sepper, Megan.M.Sepper@ul.com

BSR/UL 2900-3-3-201X, Standard for Organization and Product Development Lifecycle Processes for Connected Devices, Part 3-3: Particular Requirements for Product Development Security Lifecycle Processes for Network Connected Devices (new standard)

This standard describes the software development and maintenance process activities by which the security-related features of network-connected devices are developed using a minimum set of verification activities intended to reduce the likelihood of both known vulnerabilities and zero-day vulnerabilities that may affect the component.
Contact: Megan Sepper, Megan.M.Sepper@ul.com

BSR/ASSE Z590.3-2011 (R201x), Prevention through Design: Guidelines for Addressing Occupational Risks in Design and Redesign Processes (reaffirmation of ANSI/ASSE Z590.3-2011)

This standard provides guidance on including prevention through design concepts and processes as a specifically identified element in a safety and health management system so that decisions pertaining to occupational risks are incorporated into the design and redesign processes, including consideration of the life cycle of facilities, materials, and equipment.
Contact: Tim Fisher, TFisher@ASSE.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, as applicable.

ANSI ASA S3.41-2015, Audible Emergency Evacuation (E2) and Evacuation Signals with Relocation Instructions (ESRI) (revision of ANSI ASA S3.41-1990 (R2008)): 14 July 2015

ANSI/ASHRAE Addendum 62.1d-2015, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2013): 2 July 2015

ANSI/ASHRAE Addendum 62.1p-2015, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2013): 2 July 2015

ANSI/ASHRAE/USGBC/IES Addendum 189.1b-2015, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014): 2 July 2015

ANSI/ASHRAE/USGBC/IES Addendum 189.1by-2015, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014): 2 July 2015

ANSI/EASA AR100-2015, Recommended Practice for the Repair of Rotating Electrical Apparatus (revision of ANSI/EASA AR100-2010): 21 July 2015

ANSI/IES LM-80-2015, IES Approved Method for Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays and Modules (new standard): 8 July 2015

ANSI/ISA 101.01-2015, Human Machine Interfaces for Process Automation Systems (new standard): 9 July 2015

ANSI/NSF 50-2015 (i100r1), Equipment for Swimming Pools, Spas, Hot Tubs and Other Recreational Water Facilities (revision of ANSI/NSF 50-2014): 15 July 2015

ANSI/UL 1088-2015, Standard for Safety for Temporary Lighting Strings (new standard): 10 July 2015

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 News* readers interested in reviewing and commenting on the document should order a copy from their national representative and submit their comments through them. (The IEC and ISO don't want to hear from you directly; have your people talk to their people.) 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. The notices are sorted by comment deadline.

65C/817/CD, IEC 61784-3 Ed 3.0 Amendment 1: Industrial communication networks - Profiles - Part 3: Functional safety fieldbuses - General rules and profile definitions, 4 September 2015

76/524/Q, ISO/TC 94/SC 6/JWG 1 and IEC/TC 76/JWG 12 - ISO WD 19818: Requirements for eye and face protection against laser radiation, 4 September 2015

22G/306/FDIS, IEC 61800-7-1 Ed.2: Adjustable speed electrical power drive systems - Part 7-1: Generic interface and use of profiles for power drive systems - Interface definition, 11 September 2015

22G/307/FDIS, IEC 61800-7-201 Ed.2: Adjustable speed electrical power drive systems - Part 7-201: Generic interface and use of profiles for power drive systems - Profile type 1 specification, 11 September 2015

22G/308/FDIS, IEC 61800-7-202 Ed.2: Adjustable speed electrical power drive systems - Part 7-202: Generic interface and use of profiles for power drive systems - Profile type 2 specification, 11 September 2015

22G/309/FDIS, IEC 61800-7-203 Ed.2: Adjustable speed electrical power drive systems - Part 7-203: Generic interface and use of profiles for power drive systems - Profile type 3 specification, 11 September 2015

22G/310/FDIS, IEC 61800-7-204 Ed.2: Adjustable speed electrical power drive systems - Part 7-204: Generic interface and use of profiles for power drive systems - Profile type 4 specification, 11 September 2015

22G/311/FDIS, IEC 61800-7-301 Ed.2: Adjustable speed electrical power drive systems - Part 7-301: Generic interface and use of profiles for power drive systems - Mapping of profile type 1 to network technologies, 11 September 2015

22G/312/FDIS, IEC 61800-7-302 Ed.2: Adjustable speed electrical power drive systems - Part 7-302: Generic interface and use of profiles for power drive systems - Mapping of profile type 2 to network technologies, 11 September 2015

22G/313/FDIS, IEC 61800-7-303 Ed.2: Adjustable speed electrical power drive systems - Part 7-303: Generic interface and use of profiles for power drive systems - Mapping of profile type 3 to network technologies, 11 September 2015

22G/314/FDIS, IEC 61800-7-304 Ed.2: Adjustable speed electrical power drive systems - Part 7-304: Generic interface and use of profiles for power drive systems - Mapping of profile type 4 to network technologies, 11 September 2015

110/679/CD, IEC 62715-5-3 Ed.1: Flexible display devices - Part 5-3: Visual assessment, 18 September 2015

79/509/CD, IEC 62820-2 Ed.1: Building intercom systems - Part 2: Requirements for advanced security building intercom systems, 2 October 2015

100/2531/NP, IEC 60268-X - Sound System Equipment - Loudspeakers - Acoustical (Output Based) Measurements, 2 October 2015

ISO/DIS 19444-1, Document management - XML forms data format - Part 1: XFDF 3.0 - 4 October 2015, FREE

59/636/CDV, IEC 62849 Ed.1: Performance evaluation methods of mobile household robots, 9 October 2015

65E/459/CDV, IEC 62264-5 Ed. 2.0: Enterprise-Control System Integration - Part 5: Business to manufacturing transactions, 9 October 2015

79/510/CD, IEC 62820-1-2 Ed.1: Building intercom systems - Part 1-2: Requirements for IP building intercom systems, 9 October 2015

100/2503/CDV, IEC 61937-7 Ed.2 Amd.1: Digital audio -Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - Part 7: Non-linear PCM bitstreams according to the ATRAC, ATRAC2/3 and ATRAC-X formats (TA 4), 23 October 2015

100/2504/DTS, IEC TS 62436 Ed.1 Amd.1: Guideline for implementation of copy controlled multimedia interface (TA 4), 23 October 2015

81/489/CD, IEC 62561-5 Ed.2: Lightning protection system components (LPSC) - Part 5: Requirements for earth electrode inspection housings and earth electrode seals, 23 October 2015

81/490/CD, IEC 62561-6 Ed.2: Lightning protection system components (LPSC) - Part 6: Requirements for lightning strike counters (LSC), 23 October 2015

81/491/CD, IEC 62561-7 Ed.2: Lightning Protection System Components (LPSC) - Part 7: Requirements for earthing enhancing compounds, 23 October 2015

CIS/A/1111/CDV, Amendment 1 to CISPR 16-1-3: Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-3: Radio disturbance and immunity measuring apparatus - Ancillary equipment - Disturbance power, 23 October 2015

Recently Published IEC & ISO Documents

Listed here are documents recently approved by the IEC and ISO. The prices shown are for purchases from ANSI's eStandards Store, <http://webstore.ansi.org/>. Prices elsewhere may be different. A list of standards resellers is available at <http://webstore.ansi.org/faq.aspx#resellers>.

IEC 62443-2-4 Ed. 1.0 b:2015, Security for industrial automation and control systems - Part 2-4: Security program requirements for IACS service providers, \$363.00

IEC 62906-1-2 Ed. 1.0 en:2015, Laser display devices - Part 1-2: Vocabulary and letter symbols, \$61.00

IEC/TR 62443-2-3 Ed. 1.0 en:2015, Security for industrial automation and control systems - Part 2-3: Patch management in the IACS environment, \$339.00

ISO 14906/Amd1:2015, Electronic fee collection - Application interface definition for dedicated short-range communication - Amendment 1, \$149.00

ISO 15639-1:2015, Radio frequency identification of animals - Standardization of injection sites for different animal species – Part 1: Companion animals (cats and dogs), \$88.00

ISO 18323:2015, Jewellery - Consumer confidence in the diamond industry, \$88.00

ISO/IEC 13818-1/Amd1:2015, Information technology - Generic coding of moving pictures and associated audio information - Part 1: Systems - Amendment 1: Delivery of timeline for external data, FREE

ISO/IEC 13818-1/Amd1:2015, Information technology - Generic coding of moving pictures and associated audio information - Part 1: Systems - Amendment 1: Delivery of timeline for external data, FREE

ISO/IEC 15444-2/Amd3:2015, Information technology - JPEG 2000 image coding system: Extensions - Amendment 3: Box-based file format for JPEG XR, extended ROI boxes, XML boxing, compressed channel definition boxes, and representation of floating point, \$200.00

ISO/IEC 15444-2/Amd4:2015, Information technology - JPEG 2000 image coding system: Extensions - Amendment 4: Block coder extension, \$22.00

ISO/IEC 18092/Cor1:2015, Information technology - Telecommunications and information exchange between systems - Near Field Communication - Interface and Protocol (NFCIP-1) - Corrigendum, FREE

ISO/IEC 23001-8/Amd1:2015, Information technology – MPEG systems technologies - Part 8: Coding-independent code points - Amendment 1: New audio code points, \$22.00

ISO/IEC 29157:2015, Information technology – Telecommunications and information exchange between systems – PHY/MAC specifications for short-range wireless low-rate applications in the ISM band, \$240.00

TSP Meeting Schedule

The following meetings are scheduled to be held in person at the Westgate Las Vegas Casino and Resort in beautiful, bucolic Las Vegas, Nevada. All times listed in PDT. WebEx remote attendance will be available. Please visit our website at <http://tsp.plasa.org/tsp/meetings/index.php> for the most up-to-date meeting schedule.

CPWG BSR E1.31 TG	14:00 - 17:00	Sunday 25 October 2015
CPWG BSR E1.33 TG	10:00 - 18:00	Monday 26 October 2015
Control Protocols Working Group	09:00 – 13:00	Thursday 22 October 2015
Electrical Power Working Group	19:00 - 22:00	Friday 23 October 2015
Floors Working Group	11:00 - 14:00	Wednesday 21 October 2015
Photometrics Working Group	08:00 - 10:00	Saturday 24 October 2015
Rigging Working Group	19:00 - 23:00	Wednesday 21 October 2015
Stage Lifts Working Group	15:00 - 18:00	Friday 23 October 2015
Technical Standards Council	15:00 - 18:00	Wednesday 21 October 2015

PLASA Standards News

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