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## American National Standards

### Call for comment on proposals listed

This section solicits public comments on proposed draft new American National Standards, including the national adoption of ISO and IEC standards as American National Standards, and on proposals to revise, reaffirm or withdraw approval of existing American National Standards. A draft standard is listed in this section under the ANSI-accredited standards developer (ASD) that sponsors it and from whom a copy may be obtained. Comments in connection with a draft American National Standard must be submitted in writing to the ASD no later than the last day of the comment period specified herein. Such comments shall be specific to the section(s) of the standard under review and include sufficient detail so as to enable the reader to understand the commenter's position, concerns and suggested alternative language, if appropriate. Please note that the ANSI Executive Standards Council (ExSC) has determined that an ASD has the right to require that interested parties submit public review comments electronically, in accordance with the developer's procedures.

#### Ordering Instructions for "Call-for-Comment" Listings

1. **Order from the organization indicated for the specific proposal.**
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3. **Include remittance with all orders.**
4. **BSR proposals will not be available after the deadline of call for comment.**

Comments should be addressed to the organization indicated, with a copy to the Board of Standards Review, American National Standards Institute, 25 West 43rd Street, New York, NY 10036. Fax: 212-840-2298; e-mail: [psa@ansi.org](mailto:psa@ansi.org)

\* Standard for consumer products

## Comment Deadline: March 20, 2016

### NSF (NSF International)

#### Revision

BSR/NSF 7-201x (i9r1), Commercial Refrigerators and Freezers (revision of ANSI/NSF 7-2014)

This Standard contains requirements for refrigerators and freezers used to store and/or display cold food. The types of refrigerators and freezers covered by this Standard include, but are not limited to: storage refrigerators (e.g., reach-in, under counter, walk-in, roll-in); storage freezers (e.g., reach-in, under counter, walk-in, roll-in); rapid pull-down refrigerators and freezers; refrigerated food transport cabinets; refrigerated buffet units; refrigerated food preparation units; display refrigerators; beverage coolers; and ice cream cabinets.

[Click here to view these changes in full](#)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Allan Rose, (734) 827-3817, [arose@nsf.org](mailto:arose@nsf.org)

### NSF (NSF International)

#### Revision

BSR/NSF 41-201x (i7r1), Non-Liquid Saturated Treatment Systems (revision of ANSI/NSF 41-2011)

This Standard contains minimum requirements for treatment systems that do not utilize a liquid-saturated media as a primary means of storing or treating human excreta or human excreta mixed with other organic household materials. It addresses treatment systems that treat both solid and liquid waste, as well as those that only treat solid waste. Management methods for the end products of these systems are not addressed by this Standard.

[Click here to view these changes in full](#)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Lauren Panoff, (734) 769-5197, [lpanoff@nsf.org](mailto:lpanoff@nsf.org)

### NSF (NSF International)

#### Revision

BSR/NSF 58-201x (i72r1), Reverse Osmosis Drinking Water Treatment Systems (revision of ANSI/NSF 58-2014)

The purpose of this Standard is to establish minimum requirements for materials, design and construction, and performance of reverse-osmosis drinking-water treatment systems. This Standard also specifies the minimum product literature that manufacturers shall supply to authorized representatives and owners, as well as the minimum service-related obligations that manufacturers shall extend to system owners.

[Click here to view these changes in full](#)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Monica Leslie, (734) 827-5643, [mleslie@nsf.org](mailto:mleslie@nsf.org)

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 25-201x, Standard for Safety for Meters for Flammable and Combustible Liquids and LP-Gas (revision of ANSI/UL 25-2010 (R2014))

This proposal is being issued to revise the Moist Ammonia-Air Stress Cracking Test.

[Click here to view these changes in full](#)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Marcia Kawate, (408) 754-6743, [Marcia.M.Kawate@ul.com](mailto:Marcia.M.Kawate@ul.com)

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 25A-201x, Standard for Safety for Meters for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 - E85) (revision of ANSI/UL 25A-2015)

This proposal is being issued to revise the Moist Ammonia-Air Stress Cracking Test.

[Click here to view these changes in full](#)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Marcia Kawate, (408) 754-6743, [Marcia.M.Kawate@ul.com](mailto:Marcia.M.Kawate@ul.com)

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 25B-201x, Standard for Safety for Meters for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil (revision of ANSI/UL 25B-2015)

This proposal is being issued to revise the Moist Ammonia-Air Stress Cracking Test.

[Click here to view these changes in full](#)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Marcia Kawate, (408) 754-6743, [Marcia.M.Kawate@ul.com](mailto:Marcia.M.Kawate@ul.com)

## Comment Deadline: April 4, 2016

### AAMI (Association for the Advancement of Medical Instrumentation)

#### Revision

BSR/AAMI/ISO 16142-1-201x, Medical devices - Recognized essential principles of safety and performance of medical devices - Part 1: General essential principles and additional specific essential principles for all non-IVD medical devices and guidance on the selection of standards (revision and partition of ISO 16142)

This part of ISO 16142 identifies significant standards and guides that can be used in the assessment of conformity of a medical device to the recognized essential principles that, when met, indicate a medical device is safe and performs as intended and describes the six general essential principles of safety and performance that apply to all medical devices, including IVD medical devices (in vitro diagnostic).

Single copy price: Free

Obtain an electronic copy from: [https://standards.aami.org/kws/public/document?document\\_id=8055&wg\\_abbrev=PUBLIC\\_REV](https://standards.aami.org/kws/public/document?document_id=8055&wg_abbrev=PUBLIC_REV)

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Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [wvargas@aami.org](mailto:wvargas@aami.org)

### AGMA (American Gear Manufacturers Association)

#### Revision

BSR/AGMA 6013-B-201x, Standard for Industrial Enclosed Gear Drives (revision and redesignation of ANSI/AGMA 6013-A-2006 (R2011))

This standard includes design, rating, lubrication, testing, and selection information for enclosed gear drives, including foot-mounted, shaft-mounted, screw conveyor drives and gearmotors. These drives may include spur, helical, herringbone, double helical, or bevel gearing in single or multistage arrangements, and wormgearing in multistage drives, as either parallel, concentric, or right-angle configurations.

Single copy price: \$180.00

Order from: [tech@agma.org](mailto:tech@agma.org)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [tech@agma.org](mailto:tech@agma.org)

## **ASABE (American Society of Agricultural and Biological Engineers)**

### **Revision**

BSR/ASAE EP484.3 MONYEAR-201x, Diaphragm Design of Metal-Clad, Wood-Frame Rectangular Buildings (revision of ANSI/ASAE EP484.2-AUG98 (R2012))

This Engineering Practice is a consensus document for the analysis and design of metal-clad wood-frame buildings using roof and ceiling diaphragms, alone or in combination. The roof (and ceiling) diaphragms, endwalls, intermediate shearwalls, and building frames are the main structural elements of a structural system used to efficiently resist the design lateral (wind) loads. This Engineering Practice gives acceptable methods for analyzing and designing the elements of the diaphragm system. The provisions of this Engineering Practice are limited to the analysis of single-story buildings of rectangular shape.

Single copy price: \$58.00

Obtain an electronic copy from: [vangilder@asabe.org](mailto:vangilder@asabe.org)

Order from: Carla VanGilder, (269) 932-7015, [vangilder@asabe.org](mailto:vangilder@asabe.org)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Same

## **ASSE (ASC Z359) (American Society of Safety Engineers)**

### **Revision**

BSR/ASSE Z359.1-201X, Requirements for the ANSI/ASSE Z359 Fall Protection Code (revision of ANSI/ASSE Z359.1-2007)

The Fall Protection Code is a set of standards that covers program management; system design; training; qualification and testing; equipment, component, and system specifications for the processes used to protect workers at height in a managed fall protection program. This standard identifies those standards and establishes their role in the Code and their interdependence. Please note change of title and scope

Single copy price: \$80.00

Obtain an electronic copy from: [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

Order from: Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Same

## **ASSE (ASC Z359) (American Society of Safety Engineers)**

### **Revision**

BSR/ASSE Z359.2-201X, Minimum Requirements for a Comprehensive Managed Fall Protection Program (revision of ANSI/ASSE Z359.2-2007)

This standard establishes guidelines and requirements for an employer's managed fall protection program, including policies, duties and training; fall protection procedures; eliminating and controlling fall hazards; rescue procedures; incident investigations; and evaluating program effectiveness.

Single copy price: \$80.00

Obtain an electronic copy from: [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

Order from: Tim Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Same

## **HL7 (Health Level Seven)**

### **Revision**

BSR/HL7 V3 PACMET, R2-201x, HL7 Version 3 Standard: Patient Administration CMETs, Release 2 (revision and partition of ANSI/HL7 V3 CPM CMET, R2-2015)

This document updates the CMETs that are currently out of sync with the current version of the Patient Administration models.

Single copy price: Free to members; Free to non-members 90 days following ANSI approval and HL7 publication

Obtain an electronic copy from: [Karenvan@HL7.org](mailto:Karenvan@HL7.org)

Order from: Karen Van Hentenryck, (734) 677-7777, [Karenvan@HL7.org](mailto:Karenvan@HL7.org)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Same

## **HL7 (Health Level Seven)**

### **Revision**

BSR/HL7 V3 SPL, R7-201x, HL7 Version 3 Standard: Structured Product Labeling, Release 7 (revision of ANSI/HL7 V3 SPL, R6-2015)

Structured Product Labeling, Release 7 is the data exchange format to support ISO IDMP Technical Specifications. This version encompasses all EU/EMA requirements for EU implementation, utilizing HL7 SPL to support their legislative requirements for product registration and PV. It also includes an updated IDMP and CPM/SPL element mapping and gap analysis.

Single copy price: Free to members; Free to non-members 90 days following ANSI approval and HL7 publication

Obtain an electronic copy from: [Karenvan@HL7.org](mailto:Karenvan@HL7.org)

Order from: Karen Van Hentenryck, (734) 677-7777, [Karenvan@HL7.org](mailto:Karenvan@HL7.org)

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## **NEMA (ASC C78) (National Electrical Manufacturers Association)**

### **Withdrawal**

BSR/IEC C78.682-1997 (R2010), Standard for Electric Lamps: Standard Method of Measuring the Pinch Temperature of Quartz Tungsten-Halogen Lamps (withdrawal of ANSI/IEC C78.682-1997 (R2010))

This standard specifies details of the type of thermocouple to be used to measure the pinch temperature of quartz-tungsten-halogen lamps, the methods of preparation of the lamp and thermocouple, and the measurement to be made.

Single copy price: \$100.00

Order from: Michael Erbesfeld, 703-841-3262, [Michael.Erbesfeld@nema.org](mailto:Michael.Erbesfeld@nema.org)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Same

## **ROHVA (Recreational Off-Highway Vehicle Association)**

### **Revision**

BSR/ROHVA 1-201X, Standard for Recreational Off-Highway Vehicles (revision of ANSI/ROHVA 1-2014)

This standard establishes minimum requirements for recreational off-highway vehicles (ROVs). These vehicles are intended by the manufacturer for recreational use by one or more persons and may have secondary general utility applications. This standard addresses design, configuration, and performance aspects of ROVs, including, among other items, requirements for accelerator, clutch and gearshift controls; engine controls; lighting; tires; service and parking brake/parking mechanism performance; lateral and pitch stability; occupant handholds; Roll Over Protective Structure (ROPS); Occupant Retention System (ORS); and requirements for safety labels and owner's manual.

Single copy price: \$60.00

Order from: ROHVA

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [tyager@rohva.org](mailto:tyager@rohva.org)

**SCTE (Society of Cable Telecommunications Engineers)****Revision**

BSR/SCTE 130-4-201x, Digital Program Insertion-Advertising Systems Interfaces - Part 4: Content Information Service (CIS) (revision of ANSI/SCTE 130-4-2011)

This document, SCTE 130 Part 4, describes the Digital Program Insertion Advertising Systems Interfaces' Content Information Service (CIS) messaging and data type specification using XML, XML Namespaces, and XML Schema.

Single copy price: \$50.00

Obtain an electronic copy from: [standards@scte.org](mailto:standards@scte.org)

Order from: Global Engineering Documents, (800) 854-7179, [www.global.ihs.com](http://www.global.ihs.com)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [standards@scte.org](mailto:standards@scte.org)

**TIA (Telecommunications Industry Association)****New National Adoption**

BSR/TIA 455-234-A-201x, Optical Fibres - Part 1-52: Measurement Methods and Test Procedures - Change of Temperature (identical national adoption of IEC-60793-1-52)

This is an adoption of the IEC document 60793-1-52 on Measurement Methods and Test Procedures - Change of Temperature. This part of IEC 60793 provides a practical method for evaluating fibre performance in a defined environment. The purpose of this standard is to define a test that determines the suitability of optical fibres (types A1a to A1d and B1 to B4) to withstand the environmental condition of changes in temperature which may occur in actual use, storage, and/or transport.

Single copy price: \$61.00

Obtain an electronic copy from: [standards@tiaonline.org](mailto:standards@tiaonline.org)

Order from: TIA; [standards@tiaonline.org](mailto:standards@tiaonline.org)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Same

**TIA (Telecommunications Industry Association)****Revision**

BSR/TIA 921-C-201x, Network Model for Evaluating Multimedia Transmission Performance Over Internet Protocol (revision and redesignation of ANSI/TIA 921-B-2011)

Revise TIA-921 (PN-3-0062RV2) to better model the mechanisms that contribute to packet delay, jitter, and loss: layer 4 protocols, interfering streams, queue delays in network elements, and the characteristics of specific and additional access technologies. The intent is to provide more realism than the earlier version.

Single copy price: \$200.00

Obtain an electronic copy from: [standards@tiaonline.org](mailto:standards@tiaonline.org)

Order from: TIA; [standards@tiaonline.org](mailto:standards@tiaonline.org)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Same

**UL (Underwriters Laboratories, Inc.)****New National Adoption**

BSR/UL 62841-3-1-201x, Standard for Safety for Electric Motor-Operated Hand-Held Tools, Transportable Tools And Lawn And Garden Machinery - Safety - Part 3-1: Particular Requirements for Transportable Table Saws (national adoption with modifications of IEC 62841-3-1)

(1) Proposed adoption of the first edition of IEC 62841-3-1, Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 3-1: Particular Requirements for Transportable Table Saws, as the first edition of UL 62841-3-1. (2) Proposed addition of active injury mitigation system (AIMS requirements for table saws.

Single copy price: Contact comm2000 for pricing and delivery options

Obtain an electronic copy from: <http://www.comm-2000.com>

Order from: comm2000

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Beth Northcott, (847) 664-3198, [Elizabeth.Northcott@ul.com](mailto:Elizabeth.Northcott@ul.com)

**UL (Underwriters Laboratories, Inc.)****Revision**

BSR/UL 746A-201x, Standard for Safety for Polymeric Materials - Short Term Property Evaluations (revision of ANSI/UL 746A-2014d)

This proposal addresses concentrations of UV-Stabilizer in Table 9.1 of UL 746A.

Single copy price: Contact comm2000 for pricing and delivery options

Obtain an electronic copy from: <http://www.comm-2000.com>

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Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Derrick Martin, (408) 754-6656, [Derrick.L.Martin@ul.com](mailto:Derrick.L.Martin@ul.com)

**Comment Deadline: April 19, 2016****IEEE (Institute of Electrical and Electronics Engineers)****Addenda**

BSR/IEEE 802.1Qca-20XX, IEEE Standard for Local and metropolitan area networks - Media Access Control (MAC) Bridges and Virtual Bridged Local Area Networks Amendment: Path Control and Reservation (addenda to ANSI/IEEE 802.1Q-2012)

This amendment to IEEE Std 802.1Q specifies explicit path control, bandwidth reservation, and redundancy (protection, restoration) for data flows.

Single copy price: \$166.00 (pdf)

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Karen Evangelista, (732) 562-3854, [k.evangelista@ieee.org](mailto:k.evangelista@ieee.org)

**IEEE (Institute of Electrical and Electronics Engineers)*****New Standard***

BSR/IEEE 45.3-201x, Recommended Practice for Shipboard Electrical Installations - Systems Engineering (new standard)

This document provides recommendations for systems engineering, design, and integration of electric power systems at the total ship level from concept design through the establishment of the design baseline prior to detail design.

Single copy price: \$89.00 (pdf); \$110.00 (print)

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**IEEE (Institute of Electrical and Electronics Engineers)*****New Standard***

BSR/IEEE 802.22b-201x, Standard for Information Technology - Telecommunications and information exchange between systems - Wireless Regional Area Networks (WRAN) - Specific requirements - Part 22: Cognitive Wireless RAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications: Policies and Procedures for Operation in the TV Bands - Amendment 2: Enhancement for Broadband Services and Monitoring Applications (new standard)

This amendment specifies alternate Physical Layer (PHY) and necessary Medium Access Control Layer (MAC) enhancements to IEEE std. 802.22-2011 for operation in Very High Frequency (VHF)/Ultra High Frequency (UHF) TV broadcast bands between 54 MHz and 862 MHz to support enhanced broadband services and monitoring applications. The standard supports aggregate data rates greater than the maximum data rate supported by the IEEE Std. 802.22-2011.

Single copy price: \$178.00 (pdf); \$222.00 (print)

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**IEEE (Institute of Electrical and Electronics Engineers)*****New Standard***

BSR/IEEE 1505.3-201x, Standard for the Universal Test Interface Framework and Pin Configuration for Portable/Benchtop Test Requirements Utilizing IEEE 1505(TM) Receiver Fixture Interface Standard (new standard)

The scope of this standard is the definition of a universal framework/footprint and pin configuration utilizing IEEE 1505 Receiver-Fixture Interface (RFI) framework and connector specifications for portable and bench top test applications. The pin configuration defined within this standard shall apply to commercial, aerospace, and military automatic test equipment (ATE) testing applications.

Single copy price: \$49.00 (pdf); \$61.00 (print)

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**IEEE (Institute of Electrical and Electronics Engineers)*****New Standard***

BSR/IEEE 1657a-201x, Recommended Practice for Personnel Qualifications for Installation and Maintenance of Stationary Batteries - Amendment 1: Updated Safety Sections (new standard)

This recommended practice defines the areas of recommended knowledge for installers and maintainers of stationary batteries and related systems to the extent that they affect the battery. Design of the dc system and sizing of the dc battery charger(s) are beyond the scope of this recommended practice. This document covers lead-acid and nickel-cadmium battery technologies.

Single copy price: \$48.00 (pdf); \$61.00 (print)

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**IEEE (Institute of Electrical and Electronics Engineers)*****New Standard***

BSR/IEEE 1671.5-201x, Standard for Automatic Test Markup Language (ATML) Test Adapter Description (new standard)

This standard defines an exchange format, utilizing eXtensible Markup Language (XML), for both the static description of a test adapter by defining the interface between the unit under test (UUT) and the test station, and the specific description of test adapter instance information.

Single copy price: \$56.00 (pdf); \$61.00 (print)

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**IEEE (Institute of Electrical and Electronics Engineers)*****New Standard***

BSR/IEEE 1671.6-201x, Standard for Automatic Test Markup Language (ATML) Test Station Description (new standard)

This standard defines an exchange format, utilizing eXtensible Markup Language (XML), for both the static description of a test station, and the specific description of test station instance information.

Single copy price: \$71.00 (pdf); \$89.00 (print)

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**IEEE (Institute of Electrical and Electronics Engineers)*****New Standard***

BSR/IEEE 1788-201x, Standard for Interval Arithmetic (new standard)

This standard specifies basic interval arithmetic (IA) operations selecting and following one of the commonly used mathematical interval models. This standard supports the IEEE 754 floating-point formats of practical use in interval computations. Exception conditions are denied, and standard handling of these conditions is specified. Consistency with the interval model is tempered with practical considerations based on input from representatives of vendors, developers, and maintainers of existing systems.

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**IEEE (Institute of Electrical and Electronics Engineers)*****New Standard***

BSR/IEEE 1873-201x, Standard for Robot Map Data Representation for Navigation (new standard)

This standard specifies a map data representation of environments of a mobile robot performing a navigation task. The standard provides data models and data formats for two-dimensional metric and topological maps.

Single copy price: \$72.00 (pdf); \$89.00 (print)

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**IEEE (Institute of Electrical and Electronics Engineers)*****New Standard***

BSR/IEEE 1894-201x, Guide for Online Monitoring and Recording Systems for Transient Overvoltages in Electric Power Systems (new standard)

This guide presents methods for online monitoring and recording of the transient overvoltages in three-phase AC power system, the voltage level is higher than 1kV. It applies to the qualitative measurement of transient overvoltages in substations, power stations, and transmission lines. The results are used for power-system operating-condition analyses.

Single copy price: \$72.00 (pdf); \$90.00 (print)

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Karen Evangelista, (732) 562-3854, [k.evangelista@ieee.org](mailto:k.evangelista@ieee.org)

**IEEE (Institute of Electrical and Electronics Engineers)*****New Standard***

BSR/IEEE 1901.2a-201x, Standard for Low-Frequency (less than 500 kHz) Narrowband Power Line Communications for Smart Grid Applications - Amendment 1 (new standard)

The scope of the amendment includes changes to clarify how and when to encrypt header and payload information elements, update the interleaver design in order to eliminate some drawbacks in certain channels, a new PHY data-primitive attribute so sub-band SNR data can be obtained from the PHY, modification to the frame counter size for security to make it consistent with IEEE Std 802.15.4e™-2012, adding a beacon attribute, and changing the zero-crossing detector text.

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**IEEE (Institute of Electrical and Electronics Engineers)*****New Standard***

BSR/IEEE 2030.1.1-201x, Standard Technical Specifications of a DC Quick Charger for Use with Electric Vehicles (new standard)

This standard specifies the design interface of electric vehicles and DC quick chargers that promote rapid charging of battery electric vehicles.

Single copy price: \$166.00 (pdf)

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**IEEE (Institute of Electrical and Electronics Engineers)*****New Standard***

BSR/IEEE 2401-201x, Standard Format for LSI-Package-Board Interoperable Design (new standard)

This standard defines a common interoperable format that will be used for the design of (a) Large Scale Integrated (LSI) circuits, (b) Packages for such LSI circuits, and (c) Printed Circuit Boards on which the packaged LSI circuits are interconnected. Collectively such designs are referred to as "LSI-Package-Board" designs. The format provides a common way to specify information/data about the project management, netlists, components, design rules, and geometries used in LSI-Package-Board designs.

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**IEEE (Institute of Electrical and Electronics Engineers)*****New Standard***

BSR/IEEE 11073-10417-201x, Health informatics - Personal health device communication - Part 10417: Device Specialization - Glucose Meter (new standard)

Within the context of the ISO/IEEE 11073 family of standards for device communication, this standard establishes a normative definition of communication between personal telehealth glucose meter devices and compute engines (e.g., cell phones, personal computers, personal health appliances, and set top boxes) in a manner that enables plug-and-play interoperability.

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**IEEE (Institute of Electrical and Electronics Engineers)*****New Standard***

BSR/IEEE C37.30.2-201x, Guide for Wind-Loading Evaluation of High-Voltage (>1000 V) Air-Break Switches (new standard)

This guide provides evaluation methods and application considerations for high-voltage (>1000 V) switches, as covered in IEEE Std C37.30.1TM-2011, under wind-loading conditions. This guide includes testing methods to meet both usual and unusual wind conditions.

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**IEEE (Institute of Electrical and Electronics Engineers)*****New Standard***

BSR/IEEE C37.243-201x, Guide for Application of Digital Line Current Differential Relays Using Digital Communication (new standard)

This guide presents practical line current differential schemes using digital communications. Operating principles, synchronization methods, channel requirements, current transformer requirements, external time reference requirements, backup considerations, testing considerations, and troubleshooting are included. It also provides specific guidelines for various application aspects including multi-terminal lines, series compensated lines, mutually coupled lines, line charging current, in-zone transformers and reactors, single-phase tripping and reclosing, as well as communications channel requirements.

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**IEEE (Institute of Electrical and Electronics Engineers)*****New Standard***

BSR/IEEE C57.153-201x, Guide for Paralleling Regulating Transformers (new standard)

This paralleling guide describes and compares control methods of paralleling regulating transformers. The control methods include: master/follower, circulating current, power factor, circulating reactive current, and negative reactance methods.

Single copy price: \$171.00 (pdf); \$213.00 (print)

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**IEEE (Institute of Electrical and Electronics Engineers)*****New Standard***

BSR/IEEE C57.163-201x, Guide for Establishing Power Transformer Capability while under Geomagnetic Disturbances (new standard)

This guide describes the effects of Geomagnetic Disturbances (GMD) on power transformers when there is the presence of Geomagnetically Induced Current (GIC) in a power transformer. It establishes specification parameters and performance characteristics for power transformers to help minimize the risk and impact when GIC is present in the power system.

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**IEEE (Institute of Electrical and Electronics Engineers)*****New Standard***

BSR/SBR/IEEE 62582-5-201x, Nuclear Power Plants - Instrumentation and control important to safety - Electrical equipment condition monitoring methods - Part 5: Optical time domain reflectometry (new standard)

This part of IEC/IEEE 62582 contains methods for monitoring the attenuation condition of optical fibres and cables in instrumentation and control systems using optical time domain reflectometer (OTDR) measurements in the detail necessary to produce accurate and reproducible measurements. It includes the requirements for the measurement system and conditions, and the reporting of the measurement results.

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**IEEE (Institute of Electrical and Electronics Engineers)*****Revision***

BSR/IEEE 383-201x, Standard for Qualifying Electric Cables and Splices for Nuclear Facilities (revision of ANSI/IEEE 383-2003 (R2008))

This standard provides general requirements and methods for qualifying electric cables, and splices for nuclear facilities. Cable, wire, and splices within or integral to other devices (e.g., instruments, panels, motors, etc.) should be qualified using the requirements in the applicable device standard or IEEE Std 323™. However, this standard's requirements may be applied to the cable, wire, and splices within these devices.

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**IEEE (Institute of Electrical and Electronics Engineers)*****Revision***

BSR/IEEE 487-201x, Standard for the Electrical Protection of Communications Facilities Serving Electric Supply Locations - General Considerations (revision of ANSI/IEEE 487-2007)

This Standard presents general consideration for special high-voltage protection systems intended to protect telecommunication facilities serving electric supply locations. This Standard contains material common to all of the family including basic protection theory and fundamental electrical protection concepts and designs.

Single copy price: \$137.00 (pdf); \$171.00 (print)

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**IEEE (Institute of Electrical and Electronics Engineers)*****Revision***

BSR/IEEE 1278.2-201x, Standard for Distributed Interactive Simulation (DIS) - Communication Services and Profiles (revision of ANSI/IEEE 1278.2-1995 (R2002))

This standard establishes the requirements for the communication services to be used in a DIS simulation. This standard supports IEEE Std 1278.1™ -2012. This standard may also be used with other versions of IEEE Std 1278.1.

Single copy price: \$54.00 (pdf); \$67.00 (print)

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**IEEE (Institute of Electrical and Electronics Engineers)*****Revision***

BSR/IEEE 1290-201x, Guide for Motor-Operated Valve (MOV) Motor Application, Protection, Control, and Testing in Nuclear Power-Generating Stations (revision of ANSI/IEEE 1290-1996 (R2005))

This guide applies to motors used to drive valve operators in nuclear power generating stations.

Single copy price: \$89.00 (pdf); \$110.00 (print)

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**IEEE (Institute of Electrical and Electronics Engineers)****Revision**

BSR/IEEE 1453-201x, Recommended Practice for the Analysis of Fluctuating Installations on Power Systems (revision of ANSI/IEEE 1453-2011)

This recommended practice provides background on light flicker caused by fluctuations in power demands of variable loads. A flicker measurement method is presented using a meter that is completely described in IEC

61000-4-15. The short-term ( $P_{st}$ ) and long-term ( $P_{lt}$ ) flicker indices used for the analysis of flicker data are defined. Flicker limits for various voltage levels are presented. An assessment procedure for evaluating flicker compliance against emission limits is described. Methodologies to analyze background flicker to identify the flicker contribution of single loads are also presented.

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**IEEE (Institute of Electrical and Electronics Engineers)****Revision**

BSR/IEEE 1667-201x, Standard for Discovery, Authentication, and Authorization in Host Attachments of Storage Devices (revision of ANSI/IEEE 1667-2009)

This standard defines discovery, authentication, and authorization protocols between hosts and storage devices over multiple transports. This standard specifies a new Silo Type Identifier (STID) allocation process that uses the IEEE Registration Authority.

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**IEEE (Institute of Electrical and Electronics Engineers)****Revision**

BSR/IEEE 15288-201x, ISO/IEC/IEEE International Standard - Systems and software engineering - System life cycle processes (revision of ANSI/IEEE 15288-2008)

This International Standard establishes a common framework of process descriptions for describing the life cycle of systems created by humans. It defines a set of processes and associated terminology from an engineering viewpoint. These processes can be applied at any level in the hierarchy of a system's structure. Selected sets of these processes can be applied throughout the life cycle for managing and performing the stages of a system's life cycle.

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**IEEE (Institute of Electrical and Electronics Engineers)****Revision**

BSR/IEEE 15289-201x, ISO/IEC/IEEE International Standard Systems and software engineering - Content of life-cycle information items (documentation) (revision of ANSI/IEEE 15289-2011)

This International Standard specifies the purpose and content of all identified systems and software life-cycle and service management information items (documentation). This International Standard provides a mapping of ISO/IEC 15288:2008 (IEEE Std 15288-2008), ISO/IEC 12207:2008 (IEEE Std 12207-2008), and ISO/IEC 20000-1:2011 (IEEE Std 20000-1:2013) and ISO/IEC 20000-2 (IEEE Std 20000-2:2013) clauses with a set of information items.

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**IEEE (Institute of Electrical and Electronics Engineers)****Revision**

BSR/IEEE 23026-201x, Systems and software engineering - Engineering and management of websites for systems, software, and services information (revision and redesignation of ANSI/IEEE 2001-2002 (R2010))

This International Standard (IS) defines system engineering and management requirements for the life cycle of websites including strategy, design, engineering, testing and validation, and management and sustainment for Intranet and Extranet environments. This IS applies to those using web technology to present information and communications technology (ICT) information, such as user documentation for systems and software; life-cycle documentation for systems and software engineering projects; and documentation of policies, plans, and procedures for IT service management.

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**IEEE (Institute of Electrical and Electronics Engineers)****Revision**

BSR/IEEE C37.14-201x, Standard for DC (3200 V and below) Power Circuit Breakers Used in Enclosures (revision of ANSI/IEEE C37.14-2002 (R2008))

This standard covers the following types, preferred ratings, and testing requirements of enclosed dc power circuit breakers: (a) Stationary or drawout type of one- or two-pole functional construction, (b) Having rated maximum voltages of up to 3200 V, (c) Manually operated or power operated, and (d) With or without overcurrent trip devices

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**IEEE (Institute of Electrical and Electronics Engineers)****Revision**

BSR/IEEE C37.20.1-201x, Standard for Metal-Enclosed Low-Voltage (1000 Vac and below, 3200 Vdc and below) Power Circuit Breaker Switchgear (revision of ANSI/IEEE C37.20.1-2002 (R2008))

This standard covers metal-enclosed low-voltage power circuit breaker switchgear assemblies containing, but not limited to, such devices as low-voltage power circuit breakers (fused or unfused); other interrupting devices; switches, control, instrumentation, and metering; and protective and regulating equipment. This standard is concerned with enclosed, rather than open, indoor and outdoor switchgear assemblies. It includes types of equipment that are part of secondary unit substations.

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**IEEE (Institute of Electrical and Electronics Engineers)****Revision**

BSR/IEEE C37.20.2-201x, Standard for Metal-Clad Switchgear (revision of ANSI/IEEE C37.20.2-1999 (R2005))

This standard covers metal-clad (MC) switchgear containing, but not limited to, devices such as power circuit breakers, other interrupting devices, switches, control, instrumentation and metering, and protective and regulating equipment. It includes, but is not specifically limited to, equipment for the control and protection of apparatus used for power generation, conversion, and transmission and distribution

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**IEEE (Institute of Electrical and Electronics Engineers)****Revision**

BSR/IEEE C37.103-201x, Guide for Differential and Polarizing Relay Circuit Testing (revision of ANSI/IEEE C37.103-2003 (R2010))

This guide covers tests required to help ensure correct connections of differential relays and polarizing circuits of phase and ground relays. Although other preparatory tests are mentioned in this guide, these tests are not discussed in detail.

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**IEEE (Institute of Electrical and Electronics Engineers)****Revision**

BSR/IEEE C57.12.34-201x, Standard Requirements for Pad-Mounted, Compartmental-Type, Self-Cooled, Three-Phase Distribution Transformers, 10 MVA and Smaller; High-Voltage, 34.5 kV Nominal System Voltage and Below; Low-Voltage, 15 kV Nominal System Voltage and Below (revision of ANSI/IEEE C57.12.34-2010)

This standard covers certain electrical, dimensional, and mechanical characteristics and takes into consideration certain safety features of three-phase, 60 Hz., liquid filled, self-cooled, pad-mounted, compartmental-type distribution transformers. These transformers are rated 10 MVA and smaller, with the high-voltage limit of 34.5 kV system nominal voltage and below, and with low-voltage limit of 15 kV system nominal voltage and below. These transformers are generally used for step-down purposes from an underground primary cable supply.

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**IEEE (Institute of Electrical and Electronics Engineers)****Revision**

BSR/IEEE C57.12.37-201x, Standard for the Electronic Reporting of Distribution Transformer Test Data (revision of ANSI/IEEE C57.12.37-2006)

This standard provides a basis for electronic reporting of transformer test data on liquid immersed distribution transformers. This standard defines the standard test data when electronic reporting is specified. In addition, it defines an extended set of data for those users who have a need for data.

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**IEEE (Institute of Electrical and Electronics Engineers)****Revision**

BSR/IEEE C57.12.59-201x, Guide for Dry-Type Transformer Through-Fault Current Duration (revision of ANSI/IEEE C57.12.59-2002 (R2006))

This guide for dry-type transformer through-fault current duration applies to dry-type distribution and power transformers built in accordance with IEEE Std C57.12.01™ Standard, General Requirements for Dry-Type Distribution and Power Transformers.

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**IEEE (Institute of Electrical and Electronics Engineers)****Revision**

BSR/IEEE C57.125-201x, Guide for Failure Investigation, Documentation, Analysis, and Reporting for Power Transformers and Shunt Reactors (revision of ANSI/IEEE C57.125-2005)

This guide recommends a procedure to be used to perform and document a failure analysis and the reporting and statistical analysis of reliability of power transformers and shunt reactors used on electric power systems.

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## **ITI (INCITS) (InterNational Committee for Information Technology Standards)**

### ***New Standard***

BSR INCITS 488-201x, Information technology - Fibre Channel Framing and Signaling 4 (FC-FS-4) (new standard)

This standard describes the framing and signaling interface of a high performance serial link for support of FC-4s associated with upper-level protocols (e.g., SCSI, IP, SBCCS, VI). This standard is based on FC-FS-3 (INCITS 470-2011) with subsequent modifications approved by the member body that originally authored and approved FC-FS-3.

Single copy price: \$60.00

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## **ITI (INCITS) (InterNational Committee for Information Technology Standards)**

INCITS/ISO/IEC TR 29189:2015 [2016], Information technology - Biometrics - Evaluation of examiner assisted biometric applications (technical report)

The purpose of this Technical Report is to identify and characterize those aspects of performance testing that are unique to examiner-assisted biometric applications. An examiner-assisted biometric system has the following characteristics:

- reliant on the interaction and skill of a human examiner for one or more stages of the complete biometric process, be it data capture, enrollment, template generation, or final decision;
- can incorporate identification functionality, verification functionality, or both;
- will use a combination of the examiner's input and the functionality of the biometric algorithm to execute the complete biometric process;
- will likely have inbuilt examination toolsets to assist the human examiner when enrolling biometric samples or when comparing the match results provided by the biometric algorithm.

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# Call for Members (ANS Consensus Bodies)

Directly and materially affected parties who are interested in participating as a member of an ANS consensus body for the standards listed below are requested to contact the sponsoring standards developer directly and in a timely manner.

## **AAMI (Association for the Advancement of Medical Instrumentation)**

**Office:** 4301 N Fairfax Drive  
Suite 301  
Arlington, VA 22203-1633

**Contact:** *Hae Choe*

**Phone:** (703) 253-8268

**Fax:** (703) 276-0793

**E-mail:** HChoe@aami.org; customerservice@aami.org

BSR/AAMI/IEC 60601-2-2-201x, Medical electrical equipment - Part 2-2:

Particular requirements for the basic safety and essential performance of high-frequency surgical equipment and high-frequency surgical accessories (identical national adoption of IEC 60601-2-2 and revision of ANSI/AAMI/IEC 60601-2-2-2009 (R2014))

BSR/AAMI/ISO 16142-1-201x, Medical devices - Recognized essential

principles of safety and performance of medical devices - Part 1: General essential principles and additional specific essential principles for all non-IVD medical devices and guidance on the selection of standards (revision and partition of ISO 16142)

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## **ASSE (ASC Z359) (American Society of Safety Engineers)**

**Office:** 520 N. Northwest Highway  
Park Ridge, IL 60068

**Contact:** *Tim Fisher*

**Phone:** (847) 768-3411

**Fax:** (847) 296-9221

**E-mail:** TFisher@ASSE.org

BSR/ASSE Z359.1-201X, Requirements for the ANSI/ASSE Z359 Fall Protection Code (revision of ANSI/ASSE Z359.1-2007)

Obtain an electronic copy from: Tim Fisher

BSR/ASSE Z359.2-201X, Minimum Requirements for a Comprehensive Managed Fall Protection Program (revision of ANSI/ASSE Z359.2-2007)

Obtain an electronic copy from: Tim Fisher

## **IICRC (The Institute of Inspection, Cleaning and Restoration Certification)**

**Office:** 4043 South Eastern Avenue  
Las Vegas, NV 89119

**Contact:** *Mili Washington*

**Phone:** (702) 850-2710

**Fax:** (360) 693-4858

**E-mail:** mili@iicrc.org

BSR/IICRC S100-201x, Standard for Professional Cleaning of Textile Floor Coverings (revision of ANSI/IICRC S100-2015)

BSR/IICRC S500-201X, Standard for Professional Water Damage Restoration (revision of ANSI/IICRC S500: 2015)

BSR/IICRC S520-201x, Standard for Professional Mold Remediation (revision of ANSI/IICRC S520-2015)

BSR/IICRC S550-201x, Standard for Professional Water Damage Restoration of Commercial Structures (new standard)

BSR/IICRC S800-201x, Standard for Professional Inspection of Textile Floorcovering (revision of ANSI/IICRC S800-2013)

## **ISA (International Society of Automation)**

**Office:** 67 Alexander Drive  
Research Triangle Park, NC 27709

**Contact:** *Charles Robinson*

**Phone:** (919) 990-9213

**Fax:** (919) 549-8288

**E-mail:** crobinson@isa.org

BSR/ISA 95.00.04-201x, Enterprise-Control System Integration - Part 4: Object model attributes for manufacturing (revision of ANSI/ISA 95.00.04-2012)

## **ITI (INCITS) (InterNational Committee for Information Technology Standards)**

**Office:** 1101 K Street NW  
Suite 610  
Washington, DC 20005-3922

**Contact:** *Rachel Porter*

**Phone:** (202) 626-5741

**Fax:** 202-638-4922

**E-mail:** comments@itc.org

BSR/INCITS 488-201x, Information technology - Fibre Channel Framing and Signaling 4 (FC-FS-4) (new standard)

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## **KCMA (Kitchen Cabinet Manufacturers Association)**

**Office:** 1899 Preston White Drive  
Reston, VA 20191

**Contact:** *Thomas Wilson*

**Phone:** 703-264-1690

**E-mail:** twilson@kcma.org

BSR/KCMA A161.1-201X, Performance and Construction Standard for Kitchen and Vanity Cabinets (revision of ANSI/KCMA A161.1-2012)

**NEMA (ASC C136) (National Electrical Manufacturers Association)**

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Rosslyn, VA 22209

**Contact:** *Karen Willis*

**Phone:** (703) 841-3277

**Fax:** (703) 841-3378

**E-mail:** Karen.Willis@nema.org

BSR C136.31-201x, Standard for Roadway and Area Lighting  
Equipment - Luminaire Vibration (revision of ANSI C136.31-2010)

**TIA (Telecommunications Industry Association)**

**Office:** 1320 North Courthouse Road  
Suite 200  
Arlington, VA 22201

**Contact:** *Teesha Jenkins*

**Phone:** (703) 907-7706

**Fax:** (703) 907-7727

**E-mail:** standards@tiaonline.org

BSR/TIA 455-234-A-201x, Optical Fibres - Part 1-52: Measurement  
Methods and Test Procedures - Change of Temperature (identical  
national adoption of IEC-60793-1-52)

Obtain an electronic copy from: TIA

BSR/TIA 568-C.2-1-201x, Balanced Twisted-Pair Telecommunications  
Cabling and Components Standard - Addendum 1: Specifications for  
100 Next Generation Cabling (addenda to ANSI/TIA 568-C.2-2009)

Obtain an electronic copy from: TIA

BSR/TIA 921-C-201x, Network Model for Evaluating Multimedia  
Transmission Performance Over Internet Protocol (revision and  
redesignation of ANSI/TIA 921-B-2011)

Obtain an electronic copy from: TIA

BSR/TIA 4957.500-201x, Smart Utility Network - Security (new  
standard)

**UL (Underwriters Laboratories, Inc.)**

**Office:** 455 E. Trimble Rd.  
San Jose, CA 95131-1230

**Contact:** *Marcia Kawate*

**Phone:** (408) 754-6743

**Fax:** (408) 754-6743

**E-mail:** Marcia.M.Kawate@ul.com

BSR/UL 25-201x, Standard for Safety for Meters for Flammable and  
Combustible Liquids and LP-Gas (revision of ANSI/UL 25-2010  
(R2014))

Obtain an electronic copy from: <http://www.comm-2000.com>

## **Call for Members (ANS Consensus Bodies)**

### **Call for Committee Members**

#### **ASC O1**

Are you interested in contributing to the development and maintenance of valuable industry safety standards? The ASC O1 is currently looking for members in the following categories:

- General Interest
- Government
- Producer
- User

If you are interested in joining the ASC O1, contact WMMA Associate Director Jennifer Miller at [jennifer@wmma.org](mailto:jennifer@wmma.org).

# Final Actions on American National Standards

The standards actions listed below have been approved by the ANSI Board of Standards Review (BSR) or by an ANSI-Audited Designator, as applicable.

## AAMI (Association for the Advancement of Medical Instrumentation)

### Reaffirmation

ANSI/AAMI/ISO 11607-1-2006/A1-2014 (R2015), Packaging for terminally sterilized medical devices - Part 1: Requirements for materials, sterile barrier systems and packaging (reaffirmation of ANSI/AAMI/ISO 11607-1-2006 (R2010)): 2/11/2016

ANSI/AAMI/ISO 11607-2-2006,A1-2014 (R2015), Packaging for terminally sterilized medical devices - Part 2: Validation requirements for forming, sealing and assembly processes (reaffirmation of ANSI/AAMI/ISO 11607-2-2006 (R2010)): 2/11/2016

## API (American Petroleum Institute)

### Revision

ANSI/API MPMS Chapter 14.3.2, 5th Ed.-2016, Concentric, Square-Edged Orifice Meters-Specification and Installation Requirements (revision of ANSI/API MPMS Chapter 14.3, Part 2-2000 (R2011)): 2/11/2016

## ASC X9 (Accredited Standards Committee X9, Incorporated)

### Revision

ANSI X9.121-2016, Balance and Transaction Reporting Standard BTRS Version 3 (BTR3) (revision of ANSI X9.121-2014): 2/16/2016

## ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)

### Addenda

ANSI/ASHRAE Addendum 62.1f-2016, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2013): 1/28/2016

ANSI/ASHRAE/IES 90.1bx-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 1/28/2016

ANSI/ASHRAE/IES 90.1by-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 1/28/2016

## AWWA (American Water Works Association)

### Revision

ANSI/AWWA C750-2016, Transit-Time Flowmeters in Full Closed Conduits (revision of ANSI/AWWA C750-2010): 2/17/2016

## BHMA (Builders Hardware Manufacturers Association)

### Revision

\* ANSI/BHMA A156.8-2015, Door Controls - Overhead Stops and Holders (revision of ANSI/BHMA A156.8-2010): 12/29/2015

## ESTA (Entertainment Services and Technology Association)

### New Standard

ANSI E1.43-2016, Entertainment Technology - Performer Flying Systems (new standard): 2/12/2016

### Reaffirmation

ANSI E1.3-2001 (R2016), Entertainment Technology - Lighting Control Systems - 0 to 10V Analog Control Specification (reaffirmation of ANSI E1.3-2001 (R2010)): 2/17/2016

ANSI E1.30-1-2010 (R2016), EPI 23. Device Identification Subdevice Specification (reaffirmation of ANSI E1.30-1-2010): 2/17/2016

### Withdrawal

ANSI E1.30-7-2009, EPI 29, Allocation of Internet Protocol Version 4 Addresses to ACN Hosts (withdrawal of ANSI E1.30-7-2009): 2/17/2016

## HL7 (Health Level Seven)

### Reaffirmation

ANSI/HL7 V3 COMT, R3-2010 (R2015), HL7 Version 3 Standard: Shared Messages, Release 3 (reaffirmation of ANSI/HL7 V3 COMT, R3-2010): 2/12/2016

## IESNA (Illuminating Engineering Society of North America)

### Addenda

ANSI/IESNA RP-16-2005, Addendum c-2016, Nomenclature and Definitions for Illuminating Engineering - Addendum C (addenda to ANSI/IESNA RP-16-2005): 2/16/2016

## ITI (INCITS) (InterNational Committee for Information Technology Standards)

### New Standard

INCITS 526-2016, Information technology - Next Generation Access Control - Generic Operations and Data Structures (NGAC-GOADS) (new standard): 2/17/2016

## NEMA (National Electrical Manufacturers Association)

### Revision

\* ANSI/NEMA WD6-2016, Wiring Devices - Dimensional Specifications (revision of ANSI/NEMA WD 6-2012): 2/11/2016

## SCTE (Society of Cable Telecommunications Engineers)

### New Standard

ANSI/SCTE 226-2015, Cable Facility Classification Definitions and Requirements (new standard): 2/11/2016

## TCIA (ASC A300) (Tree Care Industry Association)

### New Standard

\* ANSI A300 (Part 10)-2016, Tree Care Operations - Tree, Shrub, and Other Woody Plant Management - Standard Practices (Integrated Pest Management) (new standard): 2/11/2016

## UL (Underwriters Laboratories, Inc.)

### New National Adoption

ANSI/UL 61010-2-040-2016, Standard for Safety for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2:040: Particular Requirements for Sterilizers and Washer-Disinfectors Used to Treat Medical Materials (identical national adoption of IEC 61010-2-040): 1/15/2016

***New Standard***

- \* ANSI/UL 7003-2016, Standard for Sustainability for Household Clothes Washers (new standard): 2/11/2016

***Revision***

ANSI/UL 98-2016, Standard for Safety for Enclosed and Dead-Front Switches (Proposal dated 02-20-15) (revision of ANSI/UL 98-2014): 2/12/2016

ANSI/UL 1332-2016, Standard for Safety for Organic Coatings for Steel Enclosures for Outdoor Use Electrical Equipment (revision of ANSI/UL 1332-2005 (R2010)): 2/12/2016

**VITA (VMEbus International Trade Association (VITA))**

***New Standard***

ANSI/VITA 76-2016, High Performance Cable Standard (new standard): 2/11/2016

# Project Initiation Notification System (PINS)

ANSI Procedures require notification of ANSI by ANSI-accredited standards developers (ASD) of the initiation and scope of activities expected to result in new or revised American National Standards (ANS). Early notification of activity intended to reaffirm or withdraw an ANS and in some instances a PINS related to a national adoption is optional. The mechanism by which such notification is given is referred to as the PINS process. For additional information, see clause 2.4 of the ANSI Essential Requirements: Due Process Requirements for American National Standards.

Following is a list of proposed actions and new ANS that have been received recently from ASDs. Please also review the section in Standards Action entitled "American National Standards Maintained Under Continuous Maintenance" for additional or comparable information with regard to standards maintained under the continuous maintenance option. To view information about additional standards for which a PINS has been submitted and to search approved ANS, please visit [www.NSSN.org](http://www.NSSN.org), which is a database of standards information. Note that this database is not exhaustive.

Directly and materially affected interests wishing to receive more information or to submit comments are requested to contact the standards developer directly within 30 days of the publication of this announcement.

## **ABYC (American Boat and Yacht Council)**

**Office:** 613 Third Street, Suite 10  
Annapolis, MD 21403

**Contact:** Lynn Lipsey

**E-mail:** [llipsey@abycinc.org](mailto:llipsey@abycinc.org)

### \* BSR/ABYC H-5-201x, Boat Load Capacity (revision of ANSI/ABYC H-5-2012)

**Stakeholders:** Boat manufacturers, insurance personnel, surveyors, trade organizations and consumers.

**Project Need:** This standard identifies safety issues with boat load capacity.

This standard is a guide for determining the maximum weight and persons capacity of boats.

## **AHRI (Air-Conditioning, Heating, and Refrigeration Institute)**

**Office:** 2111 Wilson Boulevard  
Suite 500  
Arlington, VA 22201

**Contact:** Daniel Abbate

**Fax:** (703) 562-1942

**E-mail:** [dabbate@ahrinet.org](mailto:dabbate@ahrinet.org)

### BSR/AHRI Standard 300-201x, Sound Rating and Sound Transmission Loss of Packaged Terminal Equipment (revision of ANSI/AHRI Standard 300-2009)

**Stakeholders:** This standard is intended for the guidance of the industry, including manufacturers, engineers, installers, contractors, and users.

**Project Need:** The purpose of this standard is to establish, for Packaged Terminal Equipment: Definitions; test requirements; rating requirements; minimum data requirements for Published Ratings; and conformance conditions. Additionally, this standard establishes a method to determine sound transmission loss for Packaged Terminal Equipment.

This standard applies to the indoor and outdoor sections of Factory-Made Packaged Terminal Equipment, as defined in AHRI Standard 310/380 (CSA-C744).

### BSR/AHRI Standard 350-201x, Sound Performance Rating of Non-Ducted Indoor Air-Conditioning and Heat Pump Equipment (revision of ANSI/AHRI Standard 350-2009)

**Stakeholders:** This standard is intended for the guidance of the industry, including manufacturers, engineers, installers, contractors, and users.

**Project Need:** The purpose of this standard is to establish for Non-Ducted Indoor Air-Conditioning and Heat-Pump Equipment: Definitions; test requirements; rating requirements; minimum data requirements for published ratings; marking and nameplate data; and conformance conditions.

This standard applies to the indoor portions of Factory-Made Non-Ducted Air-Conditioning and Heat Pump Equipment, as defined in ANSI/AHRI Standards 210/240, 340/360, 310/380, 440, and 1230. Products covered include but are not limited to: fan coils, air-source unitary heat pumps as well as unitary air-conditioners, water-source heat pumps, packaged terminal equipment, and variable refrigerant flow (VRF) systems.

### BSR/AHRI Standard 580-201x, Performance Rating of Non-Condensable Gas Purge Equipment for Use with Low Pressure Centrifugal Liquid Chillers (revision of ANSI/AHRI Standard 580-2010)

**Stakeholders:** This standard is intended for the guidance of the industry, including manufacturers, engineers, installers, contractors, and users.

**Project Need:** The purpose of this standard is to establish for Non-Condensable Gas Purge Equipment for use with Low-Pressure Centrifugal Liquid Chillers: definitions; test requirements; rating requirements; minimum data requirements for published ratings; marking and nameplate data; and conformance conditions.

This standard applies to Non-Condensable Gas Purge Equipment for use with Low-Pressure Centrifugal Liquid Chillers, as defined in Section 3. This standard defines general equipment requirements, test methods, and analysis techniques used to determine the performance rating for purge equipment that removes non-condensable gases from low-pressure centrifugal liquid chillers. This purge equipment is typically used in conjunction with chillers that operate with at least a portion of the system below atmospheric pressure.



BSR/AHRI Standard 680 (I-P)-201x, Performance Rating of Residential Air Filter Equipment (revision of ANSI/AHRI Standard 680 (I-P)-2010)

Stakeholders: This standard is intended for the guidance of the industry, including manufacturers, engineers, installers, contractors, and users.

Project Need: The purpose of this standard is to establish for residential Air Filter Equipment: Definitions; classifications; test requirements; rating requirements; minimum data requirements for published ratings; operating requirements; marking and nameplate data; and conformance conditions.

This standard applies to factory-made Air Filter Equipment and Air Filter Media, as used in such equipment, for removing particulate matter, when used in environmental conditioning of inhabited spaces in residential facilities. The standard evaluates the "combined" performance of Air Filter Equipment in all aspects: Initial Resistance, Final Resistance, Particle Size Efficiency, and Dust Holding Capacity. This offers both the user and specifier a complete view of the Air Filter Equipment for comparison purposes.

BSR/AHRI Standard 681 (SI)-201x, Performance Rating of Residential Air Filter Equipment (revision of ANSI/AHRI Standard 681 (SI)-2010)

Stakeholders: This standard is intended for the guidance of the industry, including manufacturers, engineers, installers, contractors, and users.

Project Need: The purpose of this standard is to establish for residential Air Filter Equipment: Definitions; classifications; test requirements; rating requirements; minimum data requirements for published ratings; operating requirements; marking and nameplate data; and conformance conditions.

This standard applies to factory-made Air Filter Equipment and Air Filter Media, as used in such equipment, for removing particulate matter, when used in environmental conditioning of inhabited spaces in residential facilities. The standard evaluates the "combined" performance of Air Filter Equipment in all aspects: Initial Resistance, Final Resistance, Particle Size Efficiency, and Dust Holding Capacity. This offers both the user and specifier a complete view of the Air Filter Equipment for comparison purposes.

BSR/AHRI Standard 911 (SI)-201x, Performance Rating of Indoor Pool Dehumidifiers (new standard)

Stakeholders: This standard is intended for the guidance of the industry, including manufacturers, engineers, installers, contractors, and users.

Project Need: The purpose of this standard is to establish for Indoor Pool Dehumidifiers: Definitions; classifications; test requirements; rating requirements; minimum data requirements for published ratings; operating requirements; marking and nameplate data; and conformance conditions.

This standard applies to factory-made residential, commercial and industrial Indoor Pool Dehumidifiers, as defined in Section 3.

BSR/AHRI Standard 550/590 (I-P)-201x, Performance Rating of Water-Chilling and Heat Pump Water-Heating Packages Using the Vapor Compression Cycle (revision of ANSI/AHRI Standard 550/590 (I-P)-2012 with Addendum 1)

Stakeholders: This standard is intended for the guidance of the industry, including manufacturers, engineers, installers, efficiency regulators, contractors, and users.

Project Need: The purpose of this standard is to establish for Water-Chilling and Heat-Pump Water-Heating Packages using the vapor compression cycle: Definitions; test requirements; rating requirements; minimum data requirements for published ratings; marking and nameplate data; conversions and calculations; nomenclature; and conformance conditions.

This standard applies to factory-made vapor compression refrigeration Water-Chilling and Water-Heating Packages including one or more compressors. These water-chilling and water-heating packages include: water-cooled, air-cooled, or evaporatively cooled condensers; water-cooled heat-recovery condensers; air-to-water heat pumps; and water-to-water heat pumps with a capacity greater or equal to 135,000 Btu/h. Water-to-water heat pumps with a capacity less than 135,000 Btu/h are covered by the latest edition of ASHRAE/ANSI/AHRI/ISO Standard 13256.

BSR/AHRI Standard 551/591 (SI)-201x, Performance Rating of Water-Chilling and Heat Pump Water-Heating Packages Using the Vapor Compression Cycle (revision of ANSI/AHRI Standard 551/591-2011)

Stakeholders: This standard is intended for the guidance of the industry, including manufacturers, engineers, installers, efficiency regulators, contractors, and users.

Project Need: The purpose of this standard is to establish for Water-Chilling and Heat-Pump Water-Heating Packages using the vapor compression cycle: Definitions; test requirements; rating requirements; minimum data requirements for published ratings; marking and nameplate data; conversions and calculations; nomenclature; and conformance conditions.

This standard applies to factory-made vapor compression refrigeration Water-Chilling and Water-Heating Packages including one or more compressors. These water-chilling and water-heating packages include: water-cooled, air-cooled, or evaporatively-cooled condensers; water-cooled heat-recovery condensers; air-to-water heat pumps; and water-to-water heat pumps with a capacity greater or equal to 135,000 Btu/h. Water-to-water heat pumps with a capacity less than 135,000 Btu/h are covered by the latest edition of ASHRAE/ANSI/AHRI/ISO Standard 13256.

BSR/AHRI Standard 270 with Addendum 1-201x, Sound Performance Rating of Outdoor Unitary Equipment (revision of ANSI/AHRI Standard 270-2009)

Stakeholders: This standard is intended for the guidance of the industry, including manufacturers, engineers, installers, contractors, and users.

Project Need: The purpose of this standard is to establish for outdoor unitary equipment: definitions; test requirements; rating requirements; minimum data requirements for published ratings; marking and nameplate data; and conformance conditions.

This standard applies to the outdoor sections of factory-made Air-Conditioning and Heat-Pump Equipment, as defined in ANSI/AHRI Standard 210/240, ANSI/AHRI Standard 340/360 (cooling capacity ratings of equal to or less than 40.0 kW), ANSI/AHRI Standard 1230, ANSI/AHRI Standard 1160 (I-P), and ANSI/AHRI Standard 1161 (SI). Products covered include: air-source unitary heat pumps, heat-pump pool heaters, unitary air-conditioners, and variable refrigerant flow (VRF) systems.

**AISC (American Institute of Steel Construction)**

**Office:** One East Wacker Drive  
Suite 700  
Chicago, IL 60601

**Contact:** *Cynthia Duncan*

**Fax:** (312) 986-9022

**E-mail:** duncan@aisc.org

BSR/AISC 303-201x, Code of Standard Practice for Steel Buildings and Bridges (new standard)

Stakeholders: Building owners, including municipalities, state and federal governments; structural steel fabricators; contractors; architects; structural engineers of record.

Project Need: This standard provides contractual requirements for steel buildings design and is referenced by other AISC standards.

This Code sets forth criteria for the trade practices involved in steel buildings, bridges, and other structures, where other structures are defined as those structures designed, fabricated, and erected in a manner similar to buildings with building-like vertical and lateral load resisting elements.

**APCO (Association of Public-Safety Communications Officials-International)**

**Office:** 351 N. Williamson Boulevard  
Daytona Beach, FL 32114-1112

**Contact:** *Crystal McDuffie*

**Fax:** (386) 944-2794

**E-mail:** mcduffiec@apointl.org; standards@apointl.org

BSR/APCO 2.106.1-201x, Public Safety Grade Site Hardening Requirements (new standard)

Stakeholders: Public Safety Communications users, producers, and general interest

Project Need: This standard shall address the requirements for "public safety grade" site hardening of wireless communications sites and facilities. The establishment of a standard is intended to assist public safety communications wireless network builders in constructing hardened public safety wireless networks and systems.

This effort documents public safety requirements regarding various characteristics to make mission critical communications wireless networks sufficiently robust to meet the service availability requirements of public safety. The effort will standardize what is required to make wireless network sites "public safety grade" or to the extent to which they are hardened. This effort specifically addresses hardening for wireless communications sites with both transmission and/or reception capabilities.

**ASCE (American Society of Civil Engineers)**

**Office:** 1801 Alexander Bell Dr  
Reston, VA 20191

**Contact:** *James Neckel*

**E-mail:** jneckel@asce.org

BSR/ASCE/EWRI XX-201x, BSR/ASCE/EWRI XX-201x, and BSR/ASCE/EWRI XX-201x, Standard Guidelines for the Design of Stormwater Impoundments, Standard Guidelines for the Installation of Stormwater Impoundments, and Standard Guidelines for the Operation and Maintenance of Stormwater Impoundments (new standard)

Stakeholders: Airports, roads, and other transportation systems; and industrial, commercial, residential, and recreation areas.

Project Need: The intent of these standard guidelines is to present design guidance for stormwater impoundments.

These guidelines intend to present design guidance for stormwater impoundments. The guidelines' purpose is to focus on local and regional impoundments to manage, treat, and/or attenuate stormwater runoff, thus reducing the impact of stormwater on downstream areas due to land-use changes from water discharge and water quality perspectives.

**ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)**

**Office:** 1791 Tullie Circle, NE  
Atlanta, GA 30329

**Contact:** *Stephanie Reiniche*

**Fax:** (678) 539-2159

**E-mail:** sreyniche@ashrae.org

BSR/ASHRAE Standard 220-201x, Method of Testing for Rating Small Commercial Blast Chillers, Chiller-Freezers, and Freezers (new standard)

Stakeholders: Electric-utility (or other) energy-efficiency program developers, Department of Energy Standards Program, Refrigeration equipment manufacturers, refrigeration equipment test laboratories, facility owners/operators, regulatory agencies, etc.

Project Need: This standard prescribes a uniform method of testing small commercial blast chillers, chiller-freezers, and freezers to determine energy consumption, product temperature performance, and other performance factors.

This standard establishes uniform methods of testing for determining laboratory performance of self-contained commercial blast chillers, chiller-freezers, and freezers of up to 500 ft<sup>3</sup> (14 m<sup>3</sup>) product volume used for quick chilling or freezing of food products; lists and defines terms used in the method of testing; defines standard measurements for net usable volume; and establishes test conditions for rating.

**CPLSO (Crane Power Line Safety Organization)**

**Office:** The Marchioness Building, Commercial Road  
Bristol, United Kingdom BS1 6TG

**Contact:** *Hugh Pratt*

**E-mail:** pratt.hugh@cplso.org

BSR/CPLSO-14-201x, Crane Insulators (new standard)

Stakeholders: Crane insulator manufacturers and users, crane manufacturers and users, construction industry.

Project Need: To attain an American National Standard covering crane insulators, for use by but not limited to, the construction industry including tag-line insulating links, in foundries, and for radio-frequency suppression.

Specifies requirements and related tests for crane insulators that are designed for use by operators of cranes and by the construction industry including tag-line insulating links, in foundries, and for radio-frequency suppression. This Standard specifies the characteristic mechanical and electrical performance levels required for these insulating devices.

**HL7 (Health Level Seven)**

**Office:** 3300 Washtenaw Avenue  
Suite 227  
Ann Arbor, MI 48104

**Contact:** *Karen Van Hentenryck*

**Fax:** (734) 677-6622

**E-mail:** Karenvan@HL7.org

BSR/V3 GELLO IG CDS MDL, R1-201x, HL7 Version 3 GELLO  
Implementation Guide: Clinical Decision Support; Model Definition  
Language for GELLO, Release 1 (new standard)

Stakeholders: Healthcare.

Project Need: Models used in decision support need to be accurately specified so that decision logic can be written against a precise model. As models are updated over time and vary between execution contexts a language is required to define models and extended data types. This grammar defines models for use in the GELLO environment.

This document specifies a grammar for describing models used to execute against in a GELLO environment.

**IICRC (The Institute of Inspection, Cleaning and Restoration Certification)**

**Office:** 4043 South Eastern Avenue  
Las Vegas, NV 89119

**Contact:** *Mili Washington*

**Fax:** (360) 693-4858

**E-mail:** mili@iicrc.org

BSR/IICRC S100-201x, Standard for Professional Cleaning of Textile  
Floor Coverings (revision of ANSI/IICRC S100-2015)

Stakeholders: Professional cleaners, carpet manufacturers, carpet retailers, janitorial, and maintenance companies.

Project Need: This revised Standard will set a standard of care for the carpet cleaning and maintenance industry.

This standard describes the procedures, methods, and systems to be followed when performing professional commercial and residential textile floor coverings (e.g., carpet and rugs) maintenance, and cleaning.

BSR/IICRC S500-201X, Standard for Professional Water Damage  
Restoration (revision of ANSI/IICRC S500-2015)

Stakeholders: Restoration companies and workers; those who investigate or assess abnormal water intrusion, prepare restoration specifications, procedures, and protocols, and manage restoration projects, (e.g., indoor environmental professionals (IEPs and other specialized experts); and other potential materially interested parties (e.g., consumers and occupants, property owners and managers, insurance company representatives, and government and regulatory bodies).

Project Need: To revise the current Standard, and separate the American National Standard from the IICRC Reference Guide.

This Standard provides a specific set of practical standards for water damage restoration. It does not attempt to teach comprehensive water damage restoration procedures; rather, it provides the foundation for basic principles of proper restoration practices. It does not attempt to include exhaustive performance characteristics or standards for the manufacture or installation of structural components, materials, and contents (personal property).

BSR/IICRC S520-201x, Standard for Professional Mold Remediation  
(revision of ANSI/IICRC S520-2015)

Stakeholders: Property owners and managers, occupants and tenants, professional remediators, those who investigate mold complaints, property restorers, indoor environmental professionals, environmental consultants, industrial hygienists, building engineers, insurance companies, and regulatory bodies.

Project Need: To revise the current Standard, and ensure consistency with the ANSI/IICRC S500 Standard.

This Standard describes the procedures to be followed and the precautions to be taken when performing mold remediation in residential, commercial and institutional buildings, and the systems and personal property contents of those structures. The Standard explains mold remediation techniques, the principles of which may apply to other microbial remediation projects or services. This Standard assumes that determining and correcting the underlying cause of mold contamination is the responsibility of a property owner and not the remediator, although a property owner may contract with a remediator or other professional to perform these services.

BSR/IICRC S550-201x, Standard for Professional Water Damage  
Restoration of Commercial Structures (new standard)

Stakeholders: Restoration companies and workers; those who investigate or assess abnormal water intrusion, prepare restoration specifications, procedures, and protocols, and manage restoration projects, (e.g., indoor environmental professionals (IEPs and other specialized experts); and other potential materially interested parties (e.g., consumers and occupants, property owners and managers, insurance company representatives, government and regulatory bodies).

Project Need: This would create a new water damage restoration standard that currently does not exist for the unique circumstances of a commercial structure.

The S550 is a procedural standard for performing water damage restoration in commercial, industrial institutional, and complex residential structures, systems and furniture, fixtures and equipment. The proposed standard includes: Building and Material Science; Drying Complex Materials and Systems; Safety and Health; Project Coordination, Documentation, Logistics and Risk Management; Inspections, Preliminary Determinations and Pre-Restoration Evaluations; Limitations, Complexities, Complications, and Conflicts; Specialized Experts; Restoration Procedures; HVAC; Evaluation and Furniture, Fixtures and Equipment; Historical Buildings; Government; and Healthcare Facilities.

BSR/IICRC S800-201x, Standard for Professional Inspection of Textile Floorcovering (revision of ANSI/IICRC S800-2013)

Stakeholders: IICRC registrants, carpet manufacturers, carpet retailers, carpet distributors, carpet installers, and carpet inspectors; others involved in the textile floorcovering inspection services.

Project Need: To revise the current Standard, and separate the American National Standard from the IICRC Reference Guide.

This standard describes the procedures, methods, and systems to be followed when inspecting light commercial and residential textile floor coverings and related products (e.g., carpet, cushion).

#### **ISA (International Society of Automation)**

**Office:** 67 Alexander Drive  
Research Triangle Park, NC 27709

**Contact:** Charles Robinson

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**E-mail:** crobinson@isa.org

BSR/ISA 95.00.04-201x, Enterprise-Control System Integration - Part 4: Object model attributes for manufacturing (revision of ANSI/ISA 95.00.04-2012)

Stakeholders: Processing/manufacturing companies in all sectors of industry.

Project Need: To update the Part 4 standard of ISA's Enterprise-Control System Integration series of standards.

This part 4 standard defines object models and attributes exchanged between Level 3 manufacturing operations management activities defined in ANSI/ISA 95.00.03.

#### **KCMA (Kitchen Cabinet Manufacturers Association)**

**Office:** 1899 Preston White Drive  
Reston, VA 20191

**Contact:** Thomas Wilson

**E-mail:** twilson@kcma.org

\* BSR/KCMA A161.1-201X, Performance and Construction Standard for Kitchen and Vanity Cabinets (revision of ANSI/KCMA A161.1-2012)

Stakeholders: Kitchen cabinet manufacturers and suppliers, architects, cabinet designers, builders and remodelers, and trade associations.

Project Need: This project is needed to revise the current standard.

The standard covers factory-manufactured, factory-finished kitchen and vanity cabinets. This is a performance and construction standard only. There is no intent to specify cabinet design (mechanics or appearance) or materials. This standard is intended to be used to measure how well a completed cabinet can be expected to perform when properly installed in accordance with manufacturer's instructions and normally used and maintained.

#### **NEMA (ASC C136) (National Electrical Manufacturers Association)**

**Office:** 1300 North 17th Street  
Suite 900  
Rosslyn, VA 22209

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**E-mail:** Karen.Willis@nema.org

BSR C136.31-201x, Standard for Roadway and Area Lighting Equipment - Luminaire Vibration (revision of ANSI C136.31-2010)

Stakeholders: Manufacturers, users, specifiers, and testing labs.

Project Need: This revision is needed to update the document with current industry practices.

This project is to update the standard with current test procedures, set-up and operation, and to further define and update pass/fail criteria. It covers the minimum vibration withstand capability and vibration test methods for roadway and area luminaires.

#### **TIA (Telecommunications Industry Association)**

**Office:** 1320 North Courthouse Road  
Suite 200  
Arlington, VA 22201

**Contact:** Teesha Jenkins

**Fax:** (703) 907-7727

**E-mail:** standards@tiaonline.org

BSR/TIA 4957.500-201x, Smart Utility Network - Security (new standard)

Stakeholders: Smart grid, smart metering, smart building industries.

Project Need: Create a new standard.

To define key management and other security protocols necessary to fully implement Layer-2 security for smart utility networks.

#### **UL (Underwriters Laboratories, Inc.)**

**Office:** 455 East Trimble Road  
San Jose, CA 95131-1230

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BSR/UL 61496-3-201X, Standard for Safety for Electro-sensitive protective equipment - Part 3: Particular requirements for Active Opto-electronic Protective Devices responsive to Diffuse Reflection (AOPDDR) (identical national adoption of IEC 61496-3)

Stakeholders: Manufacturers of active opto-electronic protective devices responsive to diffuse reflection, producers of active opto-electronic protective devices, producers of machine tools and manufacturing equipment, building owners, authorities having jurisdiction, producers of industrial control equipment, labor unions, government agencies such as OSHA, insurance companies and any other interested parties.

Project Need: To obtain national recognition of a standard covering active opto-electronic protective devices responsive to diffuse reflection (AOPDDRs).

The requirements of UL 61493-3 cover non-contact electro-sensitive protective equipment (ESPE) designed specifically to detect persons as part of a safety-related system, employing active opto-electronic protective devices responsive to diffuse reflection (AOPDDRs) for the sensing function.

# American National Standards Maintained Under Continuous Maintenance

The ANSI Essential Requirements: Due Process Requirements for American National Standards provides two options for the maintenance of American National Standards (ANS): periodic maintenance (see clause 4.7.1) and continuous maintenance (see clause 4.7.2). Continuous maintenance is defined as follows:

The standard shall be maintained by an accredited standards developer. A documented program for periodic publication of revisions shall be established by the standards developer. Processing of these revisions shall be in accordance with these procedures. The published standard shall include a clear statement of the intent to consider requests for change and information on the submittal of such requests. Procedures shall be established for timely, documented consensus action on each request for change and no portion of the standard shall be excluded from the revision process. In the event that no revisions are issued for a period of four years, action to reaffirm or withdraw the standard shall be taken in accordance with the procedures contained in the ANSI Essential Requirements.

The Executive Standards Council (ExSC) has determined that for standards maintained under the Continuous Maintenance option, separate PINS announcements are not required. The following ANSI Accredited Standards Developers have formally registered standards under the Continuous Maintenance option.

- AAMI (Association for the Advancement of Medical Instrumentation)
- AAMVA (American Association of Motor Vehicle Administrators)
- AGA (American Gas Association)
- AGSC (Auto Glass Safety Council)
- ASC X9 (Accredited Standards Committee X9, Incorporated)
- ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)
- ASME (American Society of Mechanical Engineers)
- ASTM (ASTM International)
- GBI (The Green Building Initiative)
- GEIA (Greenguard Environmental Institute)
- HL7 (Health Level Seven)
- IESNA (The Illuminating Engineering Society of North America)
- MHI (ASC MH10) (Material Handling Industry)
- NAHBRC (NAHB Research Center, Inc.)
- NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)
- NCPDP (National Council for Prescription Drug Programs)
- NISO (National Information Standards Organization)
- NSF (NSF International)
- PRCA (Professional Ropes Course Association)
- RESNET (Residential Energy Services Network)
- TIA (Telecommunications Industry Association)
- UL (Underwriters Laboratories, Inc.)

To obtain additional information with regard to these standards, including contact information at the ANSI Accredited Standards Developer, please visit *ANSI Online* at [www.ansi.org/asd](http://www.ansi.org/asd), select "Standards Activities," click on "Public Review and Comment" and "American National Standards Maintained Under Continuous Maintenance." This information is also available directly at [www.ansi.org/publicreview](http://www.ansi.org/publicreview).

Alternatively, you may contact the Procedures & Standards Administration department (PSA) at [psa@ansi.org](mailto:psa@ansi.org) or via fax at 212-840-2298. If you request that information be provided via E-mail, please include your E-mail address; if you request that information be provided via fax, please include your fax number. Thank you.

# ANSI-Accredited Standards Developers Contact Information

The addresses listed in this section are to be used in conjunction with standards listed in PINS, Call for Comment and Final Actions. This section is a list of developers who have submitted standards for this issue of *Standards Action* – it is not intended to be a list of all ANSI-Accredited Standards Developers. Please send all address corrections to Standards Action Editor at [standact@ansi.org](mailto:standact@ansi.org).

<p><b>AAMI</b> Association for the Advancement of Medical Instrumentation  4301 N Fairfax Drive Suite 301 Arlington, VA 22203-1633 Phone: (703) 647-2779 Web: <a href="http://www.aami.org">www.aami.org</a></p>	<p><b>ASABE</b> American Society of Agricultural and Biological Engineers  2950 Niles Road St Joseph, MI 49085 Phone: (269) 932-7015 Fax: (269) 429-3852 Web: <a href="http://www.asabe.org">www.asabe.org</a></p>	<p><b>CPLSO</b> Crane Power Line Safety Organization The Marchioness Building, Commercial Road Bristol, United Kingdom BS1 6TG</p>	<p><b>ITI (INCITS)</b> InterNational Committee for Information Technology Standards  1101 K Street NW Suite 610 Washington, DC 20005-3922 Phone: (202) 626-5746 Fax: (202) 638-4922 Web: <a href="http://www.incits.org">www.incits.org</a></p>
<p><b>ABYC</b> American Boat and Yacht Council 613 Third Street, Suite 10 Annapolis, MD 21403 Phone: (410) 990-4460 Web: <a href="http://www.abycinc.org">www.abycinc.org</a></p>	<p><b>ASC X9</b> Accredited Standards Committee X9, Incorporated  1212 West Street Suite 200 Annapolis, MD 21401 Phone: (410) 267-7707 Fax: (410) 267-0961 Web: <a href="http://www.x9.org">www.x9.org</a></p>	<p><b>ESTA</b> Entertainment Services and Technology Association  630 Ninth Avenue Suite 609 New York, NY 10036-3748 Phone: (212) 244-1505 Fax: (212) 244-1502 Web: <a href="http://www.plasa.org">www.plasa.org</a></p>	<p><b>KCMA</b> Kitchen Cabinet Manufacturers Association  1899 Preston White Drive Reston, VA 20191 Phone: 703-264-1690</p>
<p><b>AGMA</b> American Gear Manufacturers Association  1001 N Fairfax Street, 5th Floor Alexandria, VA 22314-1587 Phone: (703) 684-0211 Web: <a href="http://www.agma.org">www.agma.org</a></p>	<p><b>ASCE</b> American Society of Civil Engineers  1801 Alexander Bell Dr Reston, VA 20191 Phone: 703-295-6176 Web: <a href="http://www.asce.org">www.asce.org</a></p>	<p><b>HL7</b> Health Level Seven  3300 Washtenaw Avenue Suite 227 Ann Arbor, MI 48104 Phone: (734) 677-7777 Fax: (734) 677-6622 Web: <a href="http://www.hl7.org">www.hl7.org</a></p>	<p><b>NEMA (ASC C136)</b> National Electrical Manufacturers Association  1300 North 17th Street Suite 900 Rosslyn, VA 22209 Phone: (703) 841-3277 Fax: (703) 841-3378 Web: <a href="http://www.nema.org">www.nema.org</a></p>
<p><b>AHRI</b> Air-Conditioning, Heating, and Refrigeration Institute  2111 Wilson Boulevard Suite 500 Arlington, VA 22201 Phone: (703) 600-0327 Fax: (703) 562-1942 Web: <a href="http://www.ahrinet.org">www.ahrinet.org</a></p>	<p><b>ASHRAE</b> American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.  1791 Tullie Circle, NE Atlanta, GA 30329 Phone: (678) 539-1143 Fax: (678) 539-2159 Web: <a href="http://www.ashrae.org">www.ashrae.org</a></p>	<p><b>IEEE</b> Institute of Electrical and Electronics Engineers (IEEE)  445 Hoes Lane Piscataway, NJ 08854 Phone: (732) 562-3854 Fax: (732) 796-6966 Web: <a href="http://www.ieee.org">www.ieee.org</a></p>	<p><b>NEMA (ASC C78)</b> National Electrical Manufacturers Association  1300 N 17th St Rosslyn, VA 22209 Phone: 703-841-3262 Web: <a href="http://www.nema.org">www.nema.org</a></p>
<p><b>AISC</b> American Institute of Steel Construction  One East Wacker Drive Suite 700 Chicago, IL 60601 Phone: (312) 670-5410 Fax: (312) 986-9022 Web: <a href="http://www.aisc.org">www.aisc.org</a></p>	<p><b>ASSE (Safety)</b> American Society of Safety Engineers  520 N. Northwest Highway Park Ridge, IL 60068 Phone: (847) 768-3411 Fax: (847) 296-9221 Web: <a href="http://www.asse.org">www.asse.org</a></p>	<p><b>IESNA</b> Illuminating Engineering Society of North America  120 Wall St. 17th Floor New York, NY 10005 Phone: (212) 248-5000 Web: <a href="http://www.iesna.org">www.iesna.org</a></p>	<p><b>NEMA (Cavness)</b> National Electrical Manufacturers Association  1300 North 17th Street Suite 900 Rosslyn, VA 22209 Phone: (703) 841 3290 Fax: (703) 841 3390 Web: <a href="http://www.nema.org">www.nema.org</a></p>
<p><b>APCO</b> Association of Public-Safety Communications Officials- International  351 N. Williamson Boulevard Daytona Beach, FL 32114-1112 Phone: (919) 625-6864 Fax: (386) 944-2794 Web: <a href="http://www.apcolntl.org">www.apcolntl.org</a></p>	<p><b>AWWA</b> American Water Works Association  6666 W. Quincy Ave. Denver, CO 80235 Phone: (303) 347-6178 Fax: (303) 795-7603 Web: <a href="http://www.awwa.org">www.awwa.org</a></p>	<p><b>IICRC</b> the Institute of Inspection, Cleaning and Restoration Certification  4043 South Eastern Avenue Las Vegas, NV 89119 Phone: (702) 850-2710 Fax: (360) 693-4858 Web: <a href="http://www.thecleantrust.org">www.thecleantrust.org</a></p>	<p><b>NSF</b> NSF International  789 N. Dixboro Road Ann Arbor, MI 48105-9723 Phone: (734) 769-5197 Web: <a href="http://www.nsf.org">www.nsf.org</a></p>
<p><b>API</b> American Petroleum Institute  1220 L Street NW Washington, DC 20005 Phone: (202) 682-8073 Fax: (202) 962-4797 Web: <a href="http://www.api.org">www.api.org</a></p>	<p><b>BHMA</b> Builders Hardware Manufacturers Association  355 Lexington Avenue 15th Floor New York, NY 10017 Phone: (212) 297-2126 Fax: (212) 370-9047 Web: <a href="http://www.buildershardware.com">www.buildershardware.com</a></p>	<p><b>ISA (Organization)</b> International Society of Automation  67 Alexander Drive Research Triangle Park, NC 27709 Phone: (919) 990-9213 Fax: (919) 549-8288 Web: <a href="http://www.isa.org">www.isa.org</a></p>	<p><b>ROHVA</b> Recreational Off-Highway Vehicle Association  2 Jenner Street Suite 150 Irvine, CA 92618 Phone: (949) 255-2560 Fax: (949) 727-4216</p>

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# ISO & IEC Draft International Standards

This section lists proposed standards that the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) are considering for approval. The proposals have received substantial support within the technical committees or subcommittees that developed them and are now being circulated to ISO and IEC members for comment and vote. Standards Action readers interested in reviewing and commenting on these documents should order copies from ANSI.

## Comments

Comments regarding ISO documents should be sent to ANSI's ISO Team (isot@ansi.org); those regarding IEC documents should be sent to Tony Zertuche, General Secretary, USNC/IEC, at ANSI's New York offices (tzertuche@ansi.org). The final date for offering comments is listed after each draft.

## Ordering Instructions

**ISO and IEC Drafts can be made available by contacting ANSI's Customer Service department. Please e-mail your request for an ISO or IEC Draft to Customer Service at sales@ansi.org. When making your request, please provide the date of the Standards Action issue in which the draft document you are requesting appears.**

## ISO Standards

### **AIRCRAFT AND SPACE VEHICLES (TC 20)**

ISO/DIS 18170, Aerospace series - AC induction electric motor driven, variable delivery, hydraulic pumps - General requirements - 5/21/2016

ISO/DIS 18387, Aerospace - Linear hydraulic utility actuator - General specifications - 5/21/2016

### **BANKING AND RELATED FINANCIAL SERVICES (TC 68)**

ISO/DIS 20275, Financial services - Entity legal forms (ELF) - 5/21/2016, \$33.00

### **BASES FOR DESIGN OF STRUCTURES (TC 98)**

ISO/DIS 3010, Bases for design of structures - Seismic actions on structures - 5/14/2016

### **CAST IRON AND PIG IRON (TC 25)**

ISO/DIS 16112, Compacted (vermicular) graphite cast irons - Classification - 3/9/2016, \$88.00

### **DOCUMENT IMAGING APPLICATIONS (TC 171)**

ISO/DIS 22938, Document management - Electronic content/document management (CDM) data interchange format - 5/21/2016, \$33.00

### **ENVIRONMENTAL MANAGEMENT (TC 207)**

ISO/DIS 14052, Environmental management - Material flow cost accounting - Guidance for practical implementation in a supply chain - 5/21/2016

ISO/DIS 14055-1, Environmental management - Guidelines for establishing good practices for combating land degradation and desertification - Part 1: Good practices framework - 3/18/2016

### **IMPLANTS FOR SURGERY (TC 150)**

ISO/DIS 8637-1, Extracorporeal systems for blood purification - Part 1: Haemodialysers, haemodiafilters, haemofilters and haemoconcentrators - 5/21/2016, \$77.00

ISO/DIS 8637-2, Extracorporeal systems for blood purification - Part 2: Extracorporeal blood circuit for haemodialysers, haemodiafilters and haemofilters - 5/21/2016, \$67.00

ISO/DIS 8637-3, Extracorporeal systems for blood purification - Part 3: Plasmafilters - 5/21/2016, \$62.00

### **INDUSTRIAL TRUCKS (TC 110)**

ISO/DIS 22879, Castors and wheels - Requirements for castors for furniture - 3/13/2016, \$62.00

ISO/DIS 22882, Castors and wheels - Requirements for castors for hospital beds - 3/13/2016, \$58.00

### **INFORMATION AND DOCUMENTATION (TC 46)**

ISO/DIS 3901, Information and documentation - International Standard Recording Code (ISRC) - 5/7/2016

### **MATERIALS, EQUIPMENT AND OFFSHORE STRUCTURES FOR PETROLEUM AND NATURAL GAS INDUSTRIES (TC 67)**

ISO/DIS 21809-5, Petroleum and natural gas industries - External coatings for buried or submerged pipelines used in pipeline transportation systems - Part 5: External concrete coatings - 5/21/2016, \$93.00

### **NICKEL AND NICKEL ALLOYS (TC 155)**

ISO/DIS 6372, Nickel and nickel alloys - Terms and definitions - 3/9/2016, \$62.00

### **OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEMS (TC 283)**

ISO/DIS 45001, Occupational health and safety management systems - Requirements with guidance for use - 3/13/2016, \$125.00



**OPTICS AND OPTICAL INSTRUMENTS (TC 172)**

- ISO/DIS 18369-1, Ophthalmic optics - Contact lenses - Part 1: Vocabulary, classification system and recommendations for labelling specifications - 5/21/2016, \$125.00
- ISO/DIS 18369-2, Ophthalmic optics - Contact lenses - Part 2: Tolerances - 5/21/2016, \$46.00
- ISO/DIS 18369-3, Ophthalmic optics - Contact lenses - Part 3: Measurement methods - 5/21/2016, \$107.00
- ISO/DIS 18369-4, Ophthalmic optics - Contact lenses - Part 4: Physicochemical properties of contact lens materials - 5/21/2016, \$102.00

**RUBBER AND RUBBER PRODUCTS (TC 45)**

- ISO/DIS 10638, Rubber - Identification of antidegradants by gas chromatography/mass spectrometry - 5/14/2016

**SAFETY OF TOYS (TC 181)**

- ISO 8124-1/DAmD2, Safety of toys - Part 1: Safety aspects related to mechanical and physical properties - Amendment 2: Various - 5/11/2016, FREE
- ISO 8124-1/DAmD3, Safety of toys - Part 1: Safety aspects related to mechanical and physical properties - Amendment 3: Cords - 11/6/2007, FREE
- ISO 8124-1/DAmD4, Safety of toys - Part 1: Safety aspects related to mechanical and physical properties - Amendment 4: Acoustics - 5/11/2016, FREE

**SECURITY (TC 292)**

- ISO/DIS 22316, Security and resilience - Guidelines for organizational resilience - 5/14/2016, \$62.00

**TIMBER (TC 218)**

- ISO/DIS 13061-15, Physical and mechanical properties of wood - Test methods for small clear wood specimens - Part 15: Determination of radial and tangential swelling - 5/21/2016, \$33.00
- ISO/DIS 13061-16, Physical and mechanical properties of wood - Test methods for small clear wood specimens - Part 16: Determination of volumetric swelling - 5/21/2016, \$40.00

**TOBACCO AND TOBACCO PRODUCTS (TC 126)**

- ISO 15152/DAmD2, Tobacco - Determination of the content of total alkaloids as nicotine - Continuous-flow analysis method - Amendment 2 - 3/9/2016, \$29.00

**TRADITIONAL CHINESE MEDICINE (TC 249)**

- ISO/DIS 19610, General requirements for industrial manufacturing process of red ginseng (Panax ginseng C.A. Meyer) - 5/14/2016

**ISO/IEC JTC 1, Information Technology**

- ISO/IEC 14443-2/DAmD1, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 2: Radio frequency power and signal interface - Amendment 1: Parameters supporting active and passive PICC transmissions - 5/14/2016
- ISO/IEC 14496-10/DAmD3, Information technology - Coding of audio-visual objects - Part 10: Advanced Video Coding - Amendment 3: AVC compatible video-plus-depth extension - 11/9/2015, \$40.00

- ISO/IEC DIS 23000-18, Information Technologies - Multimedia Application Formats (MPEG-A) - Part 18: Media Linking Application Format - 3/13/2016, \$134.00

**IEC Standards**

- 2/1810/DTS, IEC 60034-32 TS Ed.1: Rotating electrical machines Part 32: Measurement of stator end winding vibration at form wound windings, 05/06/2016
- 2/1811/Q, Proposed technical corrigendum to IEC 60034-18-41 Ed.1 (2014-03), Rotating electrical machines - Part 18-41: Partial discharge free electrical insulation systems (Type I) used in electrical rotating machines fed from voltage converters - Qualification and quality control tests, 03/25/2016
- 2/1812/NP, Future IEC 60034-XY: Rotating electrical machines - Part XY: AC adjustable speed rolling mill main motor, 05/06/2016
- 2/1813/CD, IEC 60034-30-2 TS Ed.1: Rotating electrical machines - Part 30-2: Efficiency classes of variable speed AC motors (IE-code), 04/08/2016
- 4/308/CD, IEC 62364/Ed2: Hydraulic machines - Guide for dealing with hydro-abrasive erosion in Kaplan, Francis and Pelton turbines, 05/06/2016
- 9/2114/CDV, IEC 62888-1 Ed.1: Railway applications - Energy measurement on board trains - Part 1: General, 05/13/2016
- 22F/409/CDV, Amendment 2 - IEC 61954 Ed.2: Static VAR compensators (SVC) - Testing of thyristor valves, 05/13/2016
- 34B/1834/CDV, Amendment 1 to IEC 60238 Ed.9: Edison screw lampholders, 05/13/2016
- 34B/1835/CDV, Amendment 1 to IEC 60838-1 Ed.5: Miscellaneous lampholders - Part 1: General requirements and tests, 05/13/2016
- 38/498/CDV, IEC 61869-10: Instrument transformers - Part 10: Additional requirements for low power stand alone current sensors, 05/13/2016
- 38/501/FDIS, IEC 61869-6: Instrument transformers - Part 6: Additional general requirements for low-power instrument transformers, 03/25/2016
- 38/502/FDIS, IEC 61869-9: Instrument Transformers - Part 9: Digital interface for instrument transformers, 03/25/2016
- 46/592/FDIS, IEC 60966-2-5 Ed4.0: Radio Frequency and Coaxial Cable Assemblies - Part 2-5: Detail specification for cable assemblies for radio and TV receivers - Frequency range 0 MHz to 1 000 MHz, IEC 61169-2 connectors, 03/25/2016
- 46/593/FDIS, IEC 60966-2-6 Ed4.0: Radio Frequency and Coaxial Cable Assemblies - Part 2-6: Detail specification for cable assemblies for radio and TV receivers - Frequency range 0 MHz to 3 000 MHz, IEC 61169-24 connectors, 03/25/2016
- 46/595/CD, IEC 61935-1 Ed 5: Specification for the Testing of Balanced and Coaxial Information Technology Cabling - Part 1: Installed balanced cabling as specified in ISO/IEC 11801-1 and related standards, 05/06/2016
- 47/2284/NP, Future IEC 62951-7 Ed.1: Semiconductor devices - Flexible and stretchable semiconductor devices - Part 7: Test method for characterizing the barrier performance of thin film encapsulation for flexible organic semiconductor, 05/06/2016
- 47F/241/CD, IEC 62047-30 Ed.1: Semiconductor devices - Micro-electromechanical devices - Part 30: Measurement methods of electro-mechanical conversion characteristics of MEMS piezoelectric thin film, 05/06/2016

- 48B/2484/NP, IEC 6XXXX/Ed1: Rectangular connector - Detail specification for an interface for 4 pair balanced, individually shielded, fixed and free connectors with a characteristic impedance of 100 Ohms, covering a frequency range from DC up to 2500 MHz, 05/06/2016
- 48D/605/CDV, IEC 61587-1/Ed4: Mechanical structures for electrical and electronic equipment - Tests for IEC 60917 and IEC 60297 series - Part 1: Environmental requirements, test set-up and safety aspects for cabinets, racks, subracks and chassis under indoor conditions, 05/13/2016
- 57/1676/DTR, IEC 61850-90-17 TR Ed.1: Communication networks and systems for power utility automation - Part 90-17: Using IEC 61850 to transmit power quality data, 04/08/2016
- 61/5061/CDV, IEC 62115/Ed2: Electric toys - Safety, 05/13/2016
- 61/5065/CDV, IEC 60335-2-35-A1/Ed5: Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters, 05/13/2016
- 61/5067/CDV, IEC 60335-2-53-A1/Ed4: Household and similar electrical appliances - Safety - Part 2-53: Particular requirements for sauna heating appliances and infrared cabins, 05/13/2016
- 61/5069/CDV, IEC 60335-2-109-A2/Ed1: Household and similar electrical appliances - Safety - Part 2-109: Particular requirements for UV radiation water treatment appliances, 05/13/2016
- 61/5115/FDIS, IEC 60335-2-2-A2/Ed6: Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances, 03/25/2016
- 61/5116/FDIS, IEC 60335-1-A2/Ed5: Household and similar electrical appliances - Safety - Part 1: General requirements, 03/25/2016
- 61C/654/CDV, IEC 60335-2-34/Ed5: Particular requirements for motor-compressors, 05/13/2016
- 61J/628/FDIS, IEC 60335-2-67-A1/Ed4: Household and similar electrical appliances - Safety - Part 2-67: Particular requirements for floor treatment machines, for commercial use, 03/25/2016
- 61J/629/FDIS, IEC 60335-2-68-A1/Ed4: Household and similar electrical appliances - Safety - Part 2-68: Particular requirements for spray extraction machines, for commercial use, 03/25/2016
- 62D/1324/FDIS, Amendment 1 to IEC 60601-2-19: Medical electrical equipment - Part 2-19: Particular requirements for the basic safety and essential performance of infant incubators, 03/25/2016
- 62D/1326/FDIS, Amendment 1 to IEC 60601-2-21: Medical electrical equipment - Part 2-21: Particular requirements for the basic safety and essential performance of infant radiant warmers, 03/25/2016
- 62D/1327/FDIS, Amendment 1 to IEC 60601-2-50: Medical electrical equipment - Part 2-50: Particular requirements for the basic safety and essential performance of infant phototherapy equipment, 03/25/2016
- 62D/1328/FDIS, Amendment 1 to IEC 80601-2-35: Medical electrical equipment - Part 2-35: Particular requirements for the basic safety and essential performance of heating devices using blankets, pads and mattresses and intended for heating in medical use, 03/25/2016
- 65/617/CDV, IEC 62890 Ed. 1.0: Life-cycle management for systems and products used in industrial-process measurement, control and automation, 05/13/2016
- 65/622/NP, Industrial-process measurement, control and automation-Framework to bridge the requirements for safety and security, 05/06/2016
- 65/623/CDV, ISO/IEC 20140-5 Ed. 1.0: Automation systems and integration - Evaluating energy efficiency and other factors of manufacturing systems that influence the environment - Part 5: Environmental influence evaluation data, 05/06/2016
- 68/528/CDV, IEC 60404-8-6 Ed.3: Magnetic materials - Part 8-6: Specifications for individual materials - Soft magnetic metallic materials, 05/13/2016
- 78/1140/CDV, IEC 61482-2: Live working - Protective clothing against the thermal hazards of an electric arc - Part 2: Requirements, 05/13/2016
- 86A/1718/CD, IEC 60794-1-3/Ed1: Optical fibre cables - Part 1-3: Generic specification - Optical cable elements, 04/08/2016
- 86A/1720/CD, IEC 60794-1-31/Ed1: Optical fibre cables - Part 1-31: Sectional specification for cable element - Optical fibre ribbons, 04/08/2016
- 86A/1721/DTR, IEC 62691/TR/Ed2: Guide to the installation of optical fibre cables, 04/08/2016
- 86B/3966/CDV, IEC 61754-34/Ed1: Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 34: Type URM connector family, 05/13/2016
- 87/607/CD, IEC TS 62462: Ultrasonics - output test - Guide for the maintenance of ultrasound - Physiotherapy systems, 05/06/2016
- 91/1326/CDV, IEC 60068-2-69 Ed.3: Environmental testing: Part 2-69: Tests - Test Te: Solderability testing of electronic components and boards by the wetting balance (force measurement) method, 05/13/2016
- 91/1344/CD, IEC 62739-3 Ed. 1: Test method for erosion of wave soldering equipment using molten lead-free solder alloy - Part 3: Selection guidance of erosion test method, 04/08/2016
- 107/280/DTS, IEC 62668-2 TS Ed.2: Process management for avionics - Counterfeit prevention - Part 2: Managing electronic components from non-franchised sources, 05/06/2016
- 110/723/CDV, IEC 62679-3-3 Ed.1: Electronic Paper Displays - Part 3-3: Optical measuring methods with integrated lighting unit, 05/13/2016
- 110/737/CD, IEC/TR 62679-5-1 Ed.1: Electronic paper displays - Part 5-1: Legibility of EPD in spatial frequency, 04/08/2016
- 115/123/CD, IEC/TR 62978 Ed.1: Guidelines on Asset Management for HVDC Installations, 04/08/2016
- 116/277/FDIS, IEC 62841-2-8/Ed1: Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-8: Particular requirements for hand-held shears and nibblers, 03/25/2016
- 121A/73/NP, PNW 121A-73: Low-voltage switchgear and controlgear - Arc quenching devices, 05/06/2016
- CIS/B/653/DTR, CISPR TR 18-1: Radio interference characteristics of overhead power lines and high-voltage equipment - Part 1: Description of phenomena, 04/08/2016
- CIS/B/654/DTR, CISPR TR 18-2: Radio interference characteristics of overhead power lines and high-voltage equipment - Part 2: Methods of measurement and procedure for determining limits, 04/08/2016
- CIS/B/655/DTR, CISPR TR 18-3: Radio interference characteristics of overhead power lines and high-voltage equipment - Part 3: Code of practice for minimizing the generation of radio noise, 04/08/2016



# Newly Published ISO & IEC Standards

Listed here are new and revised standards recently approved and promulgated by ISO - the International Organization for Standardization – and IEC – the International Electrotechnical Commission. Most are available at the ANSI Electronic Standards Store (ESS) at [www.ansi.org](http://www.ansi.org). All paper copies are available from Standards resellers (<http://webstore.ansi.org/faq.aspx#resellers>).

## ISO Standards

### ADDITIVE MANUFACTURING (TC 261)

[ISO/ASTM 52915:2016](#), Specification for Additive Manufacturing File Format (AMF) Version 1.2, \$149.00

### AGRICULTURAL FOOD PRODUCTS (TC 34)

[ISO 6885:2016](#), Animal and vegetable fats and oils - Determination of anisidine value, \$88.00

[ISO 13904:2016](#), Animal feeding stuffs - Determination of tryptophan content, \$123.00

### AIRCRAFT AND SPACE VEHICLES (TC 20)

[ISO 12261:2016](#), Aerospace - Screws, pan head, internal offset cruciform ribbed or unribbed drive, pitch diameter shank, long length MJ threads, metallic material, coated or uncoated, strength classes less than or equal to 1 100 MPa - Dimensions, \$51.00

### ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

[ISO 5360:2016](#), Anaesthetic vaporizers - Agent-specific filling systems, \$149.00

[ISO 11197:2016](#), Medical supply units, \$149.00

### DENTISTRY (TC 106)

[ISO 9693-2:2016](#), Dentistry - Compatibility testing - Part 2: Ceramic-ceramic systems, \$88.00

### ERGONOMICS (TC 159)

[ISO 9241-391:2016](#), Ergonomics of human-system interaction - Part 391: Requirements, analysis and compliance test methods for the reduction of photosensitive seizures, \$123.00

### GAS CYLINDERS (TC 58)

[ISO 11119-4:2016](#), Gas cylinders - Refillable composite gas cylinders - Design, construction and testing - Part 4: Fully wrapped fibre reinforced composite gas cylinders up to 150 l with load-sharing welded metallic liners, \$200.00

### MATERIALS, EQUIPMENT AND OFFSHORE STRUCTURES FOR PETROLEUM AND NATURAL GAS INDUSTRIES (TC 67)

[ISO 16904:2016](#), Petroleum and natural gas industries - Design and testing of LNG marine transfer arms for conventional onshore terminals, \$240.00

[ISO 17348:2016](#), Petroleum and natural gas industries - Materials selection for high content CO<sub>2</sub> for casing, tubing and downhole equipment, \$123.00

[ISO 17349:2016](#), Petroleum and natural gas industries - Offshore platforms handling streams with high content of CO<sub>2</sub> at high pressures, \$200.00

### MECHANICAL VIBRATION AND SHOCK (TC 108)

[ISO 14835-1:2016](#), Mechanical vibration and shock - Cold provocation tests for the assessment of peripheral vascular function - Part 1: Measurement and evaluation of finger skin temperature, \$88.00

### METALLIC AND OTHER INORGANIC COATINGS (TC 107)

[ISO 11177:2016](#), Vitreous and porcelain enamels - Inside and outside enamelled valves and pressure pipe fittings for untreated and potable water supply - Quality requirements and testing, \$51.00

[ISO 28721-5:2016](#), Vitreous and porcelain enamels - Glass-lined apparatus for process plants - Part 5: Presentation and characterization of defects, \$123.00

### OTHER

[ISO 17229:2016](#), Leather - Physical and mechanical tests - Determination of water vapour absorption, \$51.00

[ISO 17236:2016](#), Leather - Physical and mechanical tests - Determination of extension set, \$51.00

### PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)

[ISO 17491-4/Amd1:2016](#), Protective clothing - Test methods for clothing providing protection against chemicals - Part 4: Determination of resistance to penetration by a spray of liquid (spray test) - Amendment 1, \$22.00

### PLASTICS (TC 61)

[ISO 19069-2:2016](#), Plastics - Polypropylene (PP) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties, \$88.00

### SMALL CRAFT (TC 188)

[ISO 11592-1:2016](#), Small craft - Determination of maximum propulsion power rating using manoeuvring speed - Part 1: Craft with a length of hull less than 8 m, \$88.00

### SOIL QUALITY (TC 190)

[ISO 15009:2016](#), Soil quality - Gas chromatographic determination of the content of volatile aromatic hydrocarbons, naphthalene and volatile halogenated hydrocarbons - Purge-and-trap method with thermal desorption, \$149.00

[ISO 22155:2016](#), Soil quality - Gas chromatographic determination of volatile aromatic and halogenated hydrocarbons and selected ethers - Static headspace method, \$149.00

### SPORTS AND RECREATIONAL EQUIPMENT (TC 83)

[ISO 20187:2016](#), Inflatable play equipment - Safety requirements and test methods, \$200.00

### STEEL (TC 17)

[ISO 4829-2:2016](#), Steels - Determination of total silicon contents - Reduced molybdosilicate spectrophotometric method - Part 2: Silicon contents between 0,01% and 0,05%, \$88.00

**TECHNICAL DRAWINGS, PRODUCT DEFINITION AND RELATED DOCUMENTATION (TC 10)**

[ISO 18388:2016](#), Technical product documentation (TPD) - Relief grooves - Types and dimensioning, \$88.00

**WELDING AND ALLIED PROCESSES (TC 44)**

[ISO 669:2016](#), Resistance welding - Resistance welding equipment - Mechanical and electrical requirements, \$200.00

**ISO Technical Reports****IRON ORES (TC 102)**

[ISO/TR 18336:2016](#), Guidelines for good XRF laboratory practice for the iron ore industry, \$173.00

**SAFETY OF TOYS (TC 181)**

[ISO/TR 8124-8:2016](#), Safety of toys - Part 8: Age determination guidelines, \$200.00

**ISO Technical Specifications****SMALL TOOLS (TC 29)**

[ISO/TS 13399-307:2016](#), Cutting tool data representation and exchange - Part 307: Creation and exchange of 3D models - End mills for indexable inserts, \$240.00

[ISO/TS 13399-312:2016](#), Cutting tool data representation and exchange - Part 312: Creation and exchange of 3D models - Reamers for indexable inserts, \$200.00

**ISO/IEC JTC 1, Information Technology**

[ISO/IEC/IEEE 8802-1X/Amd1:2016](#), Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Part 1X: Port-based network access control - Amendment 1: MAC security key agreement protocol (MKA) extensions, \$265.00

**IEC Standards****AUDIO, VIDEO AND MULTIMEDIA SYSTEMS AND EQUIPMENT (TC 100)**

[IEC 62605 Ed. 2.0 en:2016](#), Multimedia systems and equipment - Multimedia e-publishing and e-books - Interchange format for e-dictionaries, \$411.00

[IEC 62760 Ed. 1.0 b:2016](#), Audio reproduction method for normalized loudness level, \$182.00

[IEC 62777 Ed. 1.0 en:2016](#), Quality evaluation method for the sound field of directional loudspeaker array system, \$73.00

**CABLES, WIRES, WAVEGUIDES, R.F. CONNECTORS, AND ACCESSORIES FOR COMMUNICATION AND SIGNALLING (TC 46)**

[IEC 61169-1 Ed. 2.0 en cor.1:2016](#), Corrigendum 1 - Radio frequency connectors - Part 1: Generic specification - General requirements and measuring methods, \$0.00

[IEC 61196-10 Ed. 1.0 en cor.1:2016](#), Corrigendum 1 - Coaxial communication cables - Part 10: Sectional specification for semi-rigid cables with polytetrafluoroethylene (PTFE) dielectric, \$0.00

**CAPACITORS AND RESISTORS FOR ELECTRONIC EQUIPMENT (TC 40)**

[IEC 60384-1 Ed. 5.0 b:2016](#), Fixed capacitors for use in electronic equipment - Part 1: Generic specification, \$351.00

[S+ IEC 60384-1 Ed. 5.0 en:2016 \(Redline version\)](#), Fixed capacitors for use in electronic equipment - Part 1: Generic specification, \$494.00

**ELECTRIC WELDING (TC 26)**

[IEC 62135-1 Ed. 2.0 b cor.1:2016](#), Corrigendum 1 - Resistance welding equipment - Part 1: Safety requirements for design, manufacture and installation, \$0.00

**NUCLEAR INSTRUMENTATION (TC 45)**

[IEC 61017 Ed. 1.0 b:2016](#), Radiation protection instrumentation - Transportable, mobile or installed equipment to measure photon radiation for environmental monitoring, \$278.00

**IEC Technical Reports****FIBRE OPTICS (TC 86)**

[IEC/TR 61282-12 Ed. 1.0 en:2016](#), Fibre optic communication system design guides - Part 12: In-band optical signal-to-noise ratio (OSNR), \$230.00

**IEC Technical Specifications****INSULATORS (TC 36)**

[IEC/TS 62073 Ed. 2.0 en:2016](#), Guidance on the measurement of hydrophobicity of insulator surfaces, \$121.00

# Proposed Foreign Government Regulations

## Call for Comment

U.S. manufacturers, exporters, regulatory agencies and standards developing organizations may be interested in proposed foreign technical regulations issued by Member countries of the World Trade Organization (WTO). In accordance with the WTO Agreement on Technical Barriers to Trade (TBT Agreement), Members are required to report proposed technical regulations that may significantly affect trade to the WTO Secretariat in Geneva, Switzerland. In turn, the Secretariat disseminates the information to all WTO Members. The purpose of this requirement is to provide global trading partners with an opportunity to review and comment on the regulations before they become final.

The National Center for Standards and Certification Information (NCSCI) at the National Institute of Standards and Technology

(NIST), distributes these proposed foreign technical regulations to U.S. stakeholders via an online service, Notify U.S. Notify U.S. is an e-mail and Web service that allows interested U.S. parties to register, obtain notifications, and read full texts of regulations from countries and for industry sectors of interest to them. To register for Notify U.S., please go to Internet URL: <http://www.nist.gov/notifyus/> and click on "Subscribe".

NCSCI is the WTO TBT Inquiry Point for the U.S. and receives all notifications and full texts of regulations to disseminate to U.S. Industry. For further information, please contact: NCSCI, NIST, 100 Bureau Drive, Gaithersburg, MD 20899-2160; Telephone: (301) 975-4040; Fax: (301) 926-1559; E-mail: [ncsci@nist.gov](mailto:ncsci@nist.gov) or [notifyus@nist.gov](mailto:notifyus@nist.gov).

# Information Concerning

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## American National Standards

### INCITS Executive Board

#### ANSI Accredited SDO and US TAG to ISO/IEC JTC 1, Information Technology

The InterNational Committee for Information Technology Standards (INCITS), an ANSI accredited SDO, is the forum of choice for information technology developers, producers and users for the creation and maintenance of formal de jure IT standards. INCITS' mission is to promote the effective use of Information and Communication Technology through standardization in a way that balances the interests of all stakeholders and increases the global competitiveness of the member organizations.

The INCITS Executive Board serves as the consensus body with its oversight of programs of its 40+ Technical Committees. Additionally, the INCITS Executive Board exercises international leadership in its role as the US Technical Advisory Group (TAG) to ISO/IEC JTC 1, Information Technology.

The INCITS Executive Board has eleven membership categories that can be viewed at <http://www.incits.org/participation/membership-info>. Membership in all categories is always welcome. INCITS also seeks to broaden its membership base and looks to recruit new participants in the following under-represented membership categories:

- **Producer – Hardware**

This category primarily produces hardware products for the ITC marketplace.

- **Producer – Software**

This category primarily produces software products for the ITC marketplace.

- **Distributor**

This category is for distributors, resellers or retailers of conformant products in the ITC industry.

- **User**

This category includes entities that primarily rely on standards in the use of a products/service, as opposed to producing or distributing conformant products/services.

- **Consultants**

This category is for organizations whose principal activity is in providing consulting services to other organizations.

- **Standards Development Organizations and Consortia**

- o "Minor" an SDO or Consortia that (a) holds no TAG assignments; or (b) holds no SC TAG assignments, but does hold one or more Work Group (WG) or other subsidiary TAG assignments.

- **Academic Institution**

This category is for organizations that include educational institutions, higher education schools or research programs.

- **Other**

This category includes all organizations who do not meet the criteria defined in one of the other interest categories.

Membership in the INCITS Executive Board is open to all directly and materially affected parties in accordance with INCITS membership rules. To find out more about participating on the INCITS Executive Board, please contact Jennifer Garner at 202-626-5737 or [jgarner@itic.org](mailto:jgarner@itic.org). Visit [www.INCITS.org](http://www.INCITS.org) for more information regarding INCITS activities.

### Calls for Members

#### Society of Cable Telecommunications

##### ANSI Accredited Standards Developer

SCTE, an ANSI-accredited SDO, is the primary organization for the creation and maintenance of standards for the cable telecommunications industry. SCTE's standards mission is to develop standards that meet the needs of cable system operators, content providers, network and customer premises equipment manufacturers, and all others who have an interest in the industry through a fair, balanced and transparent process.

SCTE is currently seeking to broaden the membership base of its ANS consensus bodies and is interested in new members in all membership categories to participate in new work in fiber-optic networks, advanced advertising, 3D television, and other important topics. Of particular interest is membership from the content (program and advertising) provider and user communities.

Membership in the SCTE Standards Program is open to all directly and materially affected parties as defined in SCTE's membership rules and operating procedures. More information is available at [www.scte.org](http://www.scte.org) or by e-mail from [standards@scte.org](mailto:standards@scte.org).

### PINS Withdrawal

#### UL 2875

UL has decided to no longer pursue the adoption of UL 2875, Modular Cable System Assemblies and Fittings for Industrial Control, Signal and Power Distribution, as an ANS and has withdrawn the previously published PINS. Questions? [Ross.Wilson@ul.com](mailto:Ross.Wilson@ul.com).

## ANSI Accredited Standards Developers

### Approval of Reaccreditation

#### Association for Challenge Course Technology (ACCT)

ANSI's Executive Standards Council has approved the reaccreditation of the Association for Challenge Course Technology (ACCT), an ANSI Member and Accredited Standards Developer, under its recently revised operating procedures for documenting consensus on ACCT-sponsored American National Standards, effective February 16, 2016. For additional information, please contact: Mr. Bill Weaver, Director of Operations, Association for Challenge Course Technology, P.O. Box 47, Deerfield, IL 60015; phone: 301.791.0281; e-mail: [bill@acctinfo.org](mailto:bill@acctinfo.org).



## FamilyFarms

ANSI's Executive Standards Council has approved the reaccreditation of FamilyFarms, an ANSI Member and Accredited Standards Developer, under its recently revised operating procedures for documenting consensus on FamilyFarms-sponsored American National Standards, effective February 17, 2016. For additional information, please contact: Ms. Marj Ocheltree, Program Manager, Praedium Ventures, LLC/FamilyFarms, P.O. Box 7598, Urbandale, IA 50323; phone: 515.362.7555; e-mail: ocheltrm@praediumventures.com.

## Rehabilitation Engineering and Assistive Technology Society of North America (RESNA)

ANSI's Executive Standards Council has approved the reaccreditation of the Rehabilitation Engineering and Assistive Technology Society of North America (RESNA), an ANSI Member and Accredited Standards Developer, under its recently revised operating procedures for documenting consensus on RESNA-sponsored American National Standards, effective February 17, 2016. For additional information, please contact: Ms. Yvonne Meding, Secretary, Assistive Technology Standards Board, RESNA, 1700 N. Moore Street, Suite 1540, Arlington, VA 22209-1903; phone: 703.524.6686, ext. 403; e-mail: ymeding@resna.org.

# International Organization for Standardization (ISO)

## Call for International (ISO) Secretariat

### ISO/TC 211 – Geographic information/Geomatics

ANSI has been informed by the ISO Technical Management Board (ISO/TMB) that Standards Norway (SN), the ISO delegated secretariat, wishes to relinquish the role of the secretariat. ISO/TC 211 operates under the following scope:

#### Standardization in the field of digital geographic information.

Note: This work aims to establish a structured set of standards for information concerning objects or phenomena that are directly or indirectly associated with a location relative to the Earth.

These standards may specify, for geographic information, methods, tools and services for data management (including definition and description), acquiring, processing, analyzing, accessing, presenting and transferring such data in digital / electronic form between different users, systems and locations.

The work shall link to appropriate standards for information technology and data where possible, and provide a framework for the development of sector-specific applications using geographic data.

Information concerning the United States acquiring the role of international secretariat may be obtained by contacting ANSI at [isot@ansi.org](mailto:isot@ansi.org).

## Call for U.S. TAG Administrator

### ISO/TC 282/SC 1 – Treated wastewater reuse for Irrigation

ANSI has been informed that the American Society of Agricultural and Biological Engineers (ASABE), the ANSI-accredited U.S. TAG Administrator for ISO/TC 282/SC 1, wishes to relinquish their role as U.S. TAG Administrator.

ISO/TC 282/SC 1 operates under the following scope:

Standardization in the field of Treated wastewater reuse for irrigation within the scope of ISO/TC 282:

Standardization of water re-use of any kind and for any purpose. It covers both centralized and decentralized or on-site water re-uses, direct and indirect ones as well as intentional and unintentional ones. It includes technical, economic, environmental and societal aspects of water re-use. Water re-use comprises a sequence of the stages and operations involved in uptaking, conveyance, processing, storage, distribution, consumption, drainage and other handling of wastewater, including the water re-use in repeated, cascaded and recycled ways. The scope of ISO/TC 282/SC 1 (Treated wastewater re-use for irrigation) is merged into the proposed new committee.

Excluded:

- the limit of allowable water quality in water re-use, which should be determined by the governments, WHO and other relevant competent organizations;
- all aspects of TC 224 scope (service activities relating to drinking water supply systems and wastewater systems -- Quality criteria of the service and performance indicators);
- methods for the measurement of water quality, which are covered by TC 147.

Organizations interested in serving as the U.S. TAG Administrator should contact ANSI's ISO Team ([isot@ansi.org](mailto:isot@ansi.org)).

### ISO/IEC JTC 1/SC 23 – Digitally Recorded Media for Information Interchange and Storage

ANSI has been informed that the InterNational Committee for Information Technology Standards (INCITS), the ANSI accredited U.S. TAG Administrator for ISO/IEC JTC 1/SC 23, wishes to relinquish their role as U.S. TAG Administrator.

ISO/IEC JTC 1/SC 23 operates under the following scope:

Standardization in the field of removable digital storage media utilizing optical, holographic and magnetic recording technologies, and flash memory technologies for digital information interchange, including:

- algorithms for the lossless compression of data
- volume and file structure
- methods for determining the life expectancy of digital storage media
- methods for error monitoring of digital storage media

Organizations interested in serving as the U.S. TAG Administrator should contact ISOT@ansi.org.

### ISO/IEC JTC 1/SC 34 – Document description and processing languages

ANSI has been informed that the InterNational Committee for Information Technology Standards (INCITS), the ANSI accredited U.S. TAG Administrator for ISO/IEC JTC 1/SC 34, wishes to relinquish their role as U.S. TAG Administrator.

ISO/IEC JTC 1/SC 34 operates under the following scope:

Standardization in the field of document description and processing languages,

within the scope of ISO/IEC JTC 1: Standardization in the field of information technology.

Organizations interested in serving as the U.S. TAG Administrator should contact ISOT@ansi.org.

## New Work Item Proposal

### Natural Bitumen (Mineral) – Specifications and Test Methods

**Comment Deadline: March 25, 2016**

ISIRI, the ISO member body for the Islamic Republic of Iran, has submitted to ISO a new work item proposal for development of an ISO standard on Natural Bitumen (Mineral) – Specifications and Test Methods, with the following scope statement:

The purpose of this standard is to determine the specifications and test methods of natural bitumen extracted from mines, used for different purposes in industries.

Anyone wishing to review the new work item proposal can request a copy of the proposal by contacting ANSI's ISO Team via e-mail: [isot@ansi.org](mailto:isot@ansi.org) with submission of comments to Steve Cornish ([scornish@ansi.org](mailto:scornish@ansi.org)) by close of business on Friday, March 25, 2016.

### Urban Pedestrian Bridge (Footbridge) Assemblies – Location

**Comment Deadline: March 25, 2016**

ISIRI, the ISO member body for the Islamic Republic of Iran, has submitted to ISO a new work item proposal for development of an ISO standard on Urban Pedestrian Bridge (Footbridge) Assemblies – Location, with the following scope statement:

This standard specifies location requirements of Urban pedestrian bridge (footbridge) assemblies in cities. Pedestrian bridges outside of cities are not covered by this standard. This International Standard is also intended to facilitate the understanding of installers of urban pedestrian bridges and municipalities.

Anyone wishing to review the new work item proposal can request a copy of the proposal by contacting ANSI's ISO Team via email: [isot@ansi.org](mailto:isot@ansi.org) with submission of comments to Steve Cornish ([scornish@ansi.org](mailto:scornish@ansi.org)) by close of business on Friday, March 25, 2016.

### New Work Item Proposal for a New Field of ISO Technical Activity

#### Safety Management of Complex Technical Systems

**Comment Deadline: April 8, 2016**

GOST R, the ISO member body for the Russian Federation, has submitted to ISO a new work item proposal for a new field of ISO technical activity on Safety Management of Complex Technical Systems, with the following scope statement:

Standardization in the field of complex technical systems, such as aerospace systems, including all their constituent elements (operators, manufacturers of industrial products, industrial infrastructures, maintenance and repair organizations, training centers, etc.) throughout the full Life Cycle – definition, classification of threats and risk factors, procedures for determining Safety Efficiency, including predictive risk modeling; recommendations on the practical application of risk management.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team ([isot@ansi.org](mailto:isot@ansi.org)), with a submission of comments to Steve Cornish ([scornish@ansi.org](mailto:scornish@ansi.org)) by close of business on Friday, April 8, 2016.

## Meeting Notices

### AAMI/CN

A meeting of AAMI/CN, US sub-TAG to ISO/TC 210/JWG4, Small-bore connectors, will be held from 10:00 – 11:30 am, Eastern, on March 14, 2016. It will be a WebEx meeting. The primary purpose of the meeting is to discuss the US position on ISO/FDIS 80369-3. Contact: [celliott@aami.org](mailto:celliott@aami.org).

### ASC Z87 – Safety Standards for Eye Protection

The Accredited Standards Committee Z87 on Safety Standards for Eye Protection will next meet as noted:

Tuesday, May 17, 2016 – 9:00 AM – 3:30 PM  
The Vision Council  
1700 Diagonal Road, Suite 500  
Alexandria, VA 22134

Meeting space is limited and is available on a first-come, first-serve basis. If you have questions or are interested in attending the Z87 Committee meeting, please contact Cristine Z. Fargo, Director-Member and Technical Services at 703-525-1695 or [cfargo@safetysafetyequipment.org](mailto:cfargo@safetysafetyequipment.org).

### AHRI Standards and Guidelines

#### Revision of AHRI Guideline Q-2010, Content Recovery and Proper Recycling of Refrigerant Cylinders

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) will be holding an online meeting on March 4 from 11 a.m. to 12 p.m. If you are interested in participating in the meeting or providing comments on the standard, please contact AHRI staff member Mikelann Scerbo at [mskerbo@ahrinet.org](mailto:mskerbo@ahrinet.org).

#### Revision of AHRI Standard 410-2001, Forced Circulation Air-Cooling and Air-Heating Coils.

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) will be holding an online meeting weekly on Wednesdays from 11 a.m. to 1 p.m. (February 24, March 2, March 9, and March 16). If you are interested in participating in the meeting or providing comments on the standard please contact AHRI staff member Mary Opalka at [mopalka@ahrinet.org](mailto:mopalka@ahrinet.org).

#### Revision of AHRI Standards 430 (I-P) and 431 (SI), Performance Rating of Central Station Air Handling Unit Supply Fans

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) will be holding an online meeting bi-weekly on Thursdays from 2 p.m. to 4 p.m. (February 25, March 10, March 24, April 7, April 21, May 5, May 19, June 2, June 16, June 30, July 14, July 28, August 11, August 25, September 8, September 22, October 6, October 20, and November 3). If you are interested in participating in the meeting or providing comments on the standard, please contact AHRI staff member Mary Opalka at [mopalka@ahrinet.org](mailto:mopalka@ahrinet.org).

#### Revision of ANSI/AHRI Standards 870 and 871-2005, Performance Rating of Direct Geexchange Heat Pumps

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) will be holding an online meeting on February 22 from 2 p.m. to 3 p.m. If you are interested in participating in the meeting or providing comments on the standard, please contact AHRI staff member Rupert Alfiler at [ralfiler@ahrinet.org](mailto:ralfiler@ahrinet.org).



## **Revision of ANSI/AHRI Standard 1230-2010, Performance Rating of Variable Refrigerant Flow Multi-Split Air Conditioning and Heat Pump Equipment**

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) will be holding an online meeting on February 25 from 9 a.m. to 2 p.m. If you are interested in participating in the meeting or providing comments on the standard, please contact AHRI staff member Richie Mohan at [rmohan@ahrinet.org](mailto:rmohan@ahrinet.org).

### **Green Building Initiative**

#### **GBI 01-201x Consensus Body**

The thirteenth meeting of the Green Building Initiative - GBI 01-201x Consensus Body will be held in-person in Chicago and via conference call / webinar:

Day 1: Monday, March 21st 1:00 PM to 7:30 PM CT

Day 2: Tuesday, March 22nd 7:30 AM to 6:30 PM CT

Day 3: Wednesday, March 23rd 7:30 AM to 2:00 PM CT

The purpose for these teleconferences is for the Consensus Body members to prepare responses to comments from the public comment period

The tentative agenda is posted on the GBI webpage for the standard at: <http://www.thegbi.org/ansi>. All meetings are open to the public. Any member of the public or subcommittee participant who would like to attend the meeting should contact the Secretariat, Maria Woodbury, preferably at least 15 days in advance of the meeting to ensure they are included in relevant communications in preparation for the meeting. Webinar access will be provided to those unable to attend in person.

To attend, and for additional information, please contact:

Maria Woodbury  
Secretariat for Green Building Initiative  
207-807-8666 (direct)  
[Maria@thegbi.org](mailto:Maria@thegbi.org)

# Information Concerning

## International Organization for Standardization (ISO)

### Call for International (ISO) Secretariat

#### ISO/IEC JTC 1/SC 37 – Biometrics

Currently, the U.S. holds a leadership position as secretariat of ISO/IEC JTC 1/SC 37 – *Biometrics*. The InterNational Committee for Information Technology Standards (INCITS) Executive Board has advised ANSI to relinquish its role as secretariat for this committee.

ISO/IEC JTC 1/SC 37 operates under the following scope:

*Standardization of generic biometric technologies pertaining to human beings to support interoperability and data interchange among applications and systems. Generic human biometric standards include: common file frameworks; biometric application programming interfaces; biometric data interchange formats; related biometric profiles; application of evaluation criteria to biometric technologies; methodologies for performance testing and reporting and cross jurisdictional and societal aspects.*

*Excluded is the work in ISO/IEC JTC 1/SC 17 to apply biometric technologies to cards and personal identification.*

*Excluded is the work in ISO/IEC JTC 1/SC 27 for biometric data protections techniques, biometric security testing, evaluations, and evaluations methodologies.*

ANSI is seeking organizations in the U.S. that may be interested in assuming the role of delegated secretariat for ISO/IEC JTC 1/SC 37. Alternatively, ANSI may be assigned the responsibility for administering an ISO secretariat. Any request that ANSI accepts to direct administration of an ISO secretariat shall demonstrate that:

1. The affected interests have made a financial commitment for not less than three years covering all defined costs incurred by ANSI associated with holding the secretariat;
2. the affected technical sector, organizations or companies desiring that the U.S. hold the secretariat request that ANSI perform this function;
3. the relevant US TAG has been consulted with regard to ANSI's potential role as secretariat; and
4. ANSI is able to fulfill the requirements of a secretariat.

If no U.S. organization steps forward to assume the ISO/IEC JTC 1/SC 37 secretariat, or if there is insufficient support for ANSI to assume direct administration of this activity, then ANSI will inform the ISO Central Secretariat that the U.S. will relinquish its leadership of the committee. This will allow ISO to solicit offers from other countries interested in assuming the secretariat role.

Information concerning the United States retaining the role of international secretariat may be obtained by contacting ANSI at [isot@ansi.org](mailto:isot@ansi.org).

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[Note – the changes are illustrated below using ~~strikeout~~ for proposed removal of existing text and gray highlights to indicate the proposed revised text. ONLY the highlighted text and strikeout text is within the scope of this ballot. Rationale Statements are in RED and only used to add clarity; these statements will NOT be in the finished publication]

NSF International Standard/  
for Food Equipment —

## Commercial refrigerators and freezers

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- 
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**9.13.2** Type I display refrigerators shall have a permanent label indicating that the equipment is intended for use in an area where the environmental conditions are controlled and maintained so that the ambient temperature typically does not exceed 75 °F (24 °C).

Type II display refrigerators shall have a permanent label indicating that the equipment is intended for use in an area where the environmental conditions are controlled and maintained so that the ambient temperature typically does not exceed 80 °F (27 °C).

Display refrigerators tested in accordance with 6.10.2 shall have a label indicating that the equipment is for use in ambient temperatures not exceeding 86 °F (30 °C).

Display refrigerators that contain a refrigerated buffet section or refrigerated food preparation section shall be exempt from 7.2.1.

### 9.14 Performance

#### 9.14.1 Performance requirement

Display refrigerators shall be capable of maintaining a product temperature of 41 °F (5 °C) or lower when tested in accordance with 9.14.2. This requirement shall not apply to display refrigerators that are not intended for the display of potentially hazardous foods and that are labeled in accordance with 9.13.3. This requirement shall not apply to display freezers.

Display refrigerators that conform to the performance requirements for storage refrigerators in 6.10 shall be considered acceptable in meeting this requirement.

A storage compartment in a Type I or Type II display refrigerator shall be tested in accordance with 6.10 with the ambient conditions described in 9.14.2. Compressor run time requirements shall not apply.

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A refrigerated buffet section or refrigerated food preparation section in a Type I or Type II display refrigerator shall be tested in accordance with 7.5 with the ambient conditions described in 9.14.2. Compressor run time requirements shall not apply.

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***Rationale: Language added to address how display refrigerators are tested when a storage compartment is included in the unit (FE-2013-5).***

***NOTE – This test is not required for remote refrigerators not supplied with refrigeration or beverage coolers labeled in accordance with 9.13.1.***

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## 2 Normative references

The following documents contain provisions that, through reference in this text, constitute provisions of this Standard. At the time of publication, the indicated editions were valid. All standards are subject to revision, and parties are encouraged to investigate the possibility of applying the recent editions of the standards indicated below.

American Public Health Association (APHA), American Water Works Association (AWWA) & Water Environment Federation (WEF): *Standard Methods for the Examination of Water and Wastewater*, 24<sup>th</sup> 22<sup>nd</sup> Edition, 2005<sup>12</sup> (hereinafter referred to as Standard Methods)<sup>3</sup>

NFPA 70®: *National Electrical Code®* (NEC®), 2014<sup>4</sup>

US EPA, *Code of Federal Regulations (CFR)*, Title 40: *Protection of Environment*, July 1, 2010<sup>5</sup>

US EPA, *Code of Federal Regulations (CFR)*, Title 40, Part 141: *National Primary Drinking Water Regulations*, July 1, 2010<sup>5</sup>

US EPA, *Code of Federal Regulations (CFR)*, Title 40, Part 143: *National Secondary Drinking Water Regulations*, July 1, 2010<sup>5</sup>

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<sup>3</sup> Standard Methods for the Examination of Water and Wastewater <[www.standardmethods.org](http://www.standardmethods.org)>.

<sup>4</sup> National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02269-7471 <[www.nfpa.org](http://www.nfpa.org)>.

<sup>5</sup> U.S. Government Printing Office, 732 North Capitol Street, NW, Washington, DC 20401 <[www.gpo.gov](http://www.gpo.gov)>.

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[Note – the changes are seen below using strikeout for removal of old text and gray highlights to show the suggested text. ONLY the highlighted text is within the scope of this ballot.]

NSF/ANSI Standard  
for Drinking Water Treatment Units –

Reverse osmosis  
drinking water treatment systems

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## 7 Elective performance claims – test methods

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### 7.1.3 Nitrate/nitrite reduction claims

Claims for nitrate/nitrite reduction shall be tested at a system pressure applicable to the intended end use in accordance with 7.1.3. To qualify for a nitrate/nitrite reduction claim, the system shall reduce the level of the contaminant from the influent challenge level so that the arithmetic mean of all product water sample results and 90% of the individual product water samples is less than or equal to the maximum allowable product water concentration in table 9.

**Table 9 – Contaminant reduction requirements**

Contaminant	Individual influent <sup>1</sup> sample point limits mg/L	Average influent challenge level mg/L	Maximum allowable product water level mg/L	USEPA method/s	Compounds
nitrate plus nitrite (as N) <sup>2</sup>	30.0 ± 20% OR 70+/-20%	30.0 ± 10%(added as 27 mg/L as N of Nitrate and 3 mg/L as N of Nitrite)  OR  70 +/-10% (Added as 65mg/L as N of Nitrate and 5 mg/L as N of Nitrite)	10.0 <sup>3</sup>	300	NaNO <sub>3</sub> NaNO <sub>2</sub>

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<sup>1</sup> Equals average influent challenge concentration variability plus one of the following, in order of availability:

- 1 Acceptable Continuing Calibration Verification (CCV) limits stated in the appropriate USEPA method.
2. Acceptable spike recoveries as stated in the appropriate USEPA method.
3. Opinion of laboratory professionals – no guidance available in USEPA method.

<sup>2</sup> Some public and private water supplies may exceed indicated influent nitrate (NO<sub>3</sub>) and nitrite (NO<sub>2</sub>) levels. Additional treatment or individual design, or both, shall be applied to ensure that the product water level consistently meets the MCLs for such water supplies.

<sup>3</sup> Of the 10 mg/L maximum product water level, no more than 1.0 mg/L shall be in the form of NO<sub>2</sub> as N.

#### 7.1.3.1 Apparatus

A test apparatus capable of providing specified flow rates and pressures shall be used. An example of an appropriate test apparatus appears in figure 2.

#### 7.1.3.2 Analytical methods

All analyses shall be conducted in accordance with the applicable methods referred to in 2.

#### 7.1.3.3 Test water

Chlorine free deionized water shall be used with the following specific characteristics maintained throughout the test:

turbidity	≤ 1 NTU
pH	7.5 ± 0.5
temperature	25 ± 1 °C (77 ± 2 °F)
total dissolved solids (TDS) <sup>1</sup>	750 ± 40 mg/L
<sup>1</sup> Added as NaCl.	

#### 7.1.3.4 Method

The method specified in 6.9.6 shall be followed, except that the initial dynamic pressure shall be applicable to the intended end use. The pressure shall not be readjusted, although the system may experience some change in dynamic pressure. Pre-membrane and post-membrane filters shall be removed prior to testing.

**7.1.3.4.1** Systems recommended for a minimum influent water system pressure lower than 280 kPa (40 psig) and higher than 140 kPa (20 psig) shall be tested at 210 kPa (320 psig).

**7.1.3.4.2** Systems recommended for a minimum influent water system pressure of 280 kPa (40 psig) or greater shall be tested at 350 kPa (540 psig).

**Reason: Revised per 2015 DWTU JC meeting discussion (May 13, 2015) to revise the method to state the actual pressure tested.**

## BSR/UL 25, Standard for Safety for Meters for Flammable and Combustible Liquids and LP-Gas

### 1. Revise the Moist Ammonia-Air Stress Cracking Test

#### PROPOSAL

#### 16 ~~10~~ Day Moist Ammonia-Air Stress Cracking Test

16.1 ~~After being subjected to the conditions described in 16.2 – 16.4, a brass part containing more than 15 percent zinc shall show no evidence of cracking when examined using 25X magnification.~~ After being subjected to the conditions described in 16.2 - 16.4, a pressure-confining brass part containing more than 15 percent zinc shall:

- a) Show no evidence of cracking, delamination, or degradation, or
- b) Perform as intended when tested as described in 16.4.

16.2 ~~Each test sample is to be subjected to the physical stresses normally imposed on or within a part as the result of assembly with other components. Such stresses are to be applied to the sample prior to and maintained during the test. Samples with threads, intended to be used for installing the product in the field are to have the threads engaged and tightened to the torque specified in Table 11.1. Teflon tape or pipe compound are not to be used on the threads. One test sample of each size is to be subjected to the physical stresses normally imposed on or within a part as the result of assembly with other components. Samples with female threads, intended to be used for installing the product in the field, are to have the threads engaged and tightened as specified in Table 11.1. Samples with female threads other than tapered pipe threads shall be torqued as specified by the manufacturer. Polytetrafluoroethylene (PTFE) tape or pipe compound are not to be used on any threads. Samples with male threads are evaluated as received.~~

16.3 ~~Three samples are to be degreased and then continuously exposed in a set position for ten days to a moist ammonia-air mixture maintained in a glass chamber approximately 305 by 305 by 305 mm having a glass cover. The samples are then to be tested in accordance with Apparatus, Section 6, Reagents and Materials, Section 7, Test Media, Section 8, Test Sample Preparation (9.3 - 9.4), Test Procedure (10.1 - 10.4) of the Standard Test Method for Ammonia Vapor Test for Determining Susceptibility to Stress Corrosion Cracking in Copper Alloys, ASTM B858-06, except the pH level of the test solution shall be High 10.5 ±0.1 and the exposure temperature shall be 25 ±1°C.~~

16.4 ~~Approximately 600 ml of aqueous ammonia having a specific gravity of 0.94 is to be maintained at the bottom of the glass chamber below the samples. The samples are to be positioned 1-1/2 inches (38.1 mm) above the aqueous ammonia solution and supported by an inert tray. The moist ammonia-air mixture in the chamber is to be maintained at atmospheric pressure and at a temperature of 34 ±2°C (93 ±5°F). After the exposure period, the samples are to be examined for cracks or other signs of stress corrosion using a microscope having a magnification of 25X. Pressure-confining parts exhibiting degradation as indicated in 16.1 as a result of the test exposure described in 16.2 and 16.3 shall withstand, without rupture, a hydrostatic test pressure of five times the rated pressure of the valve, for 1 minute.~~



## BSR/UL 25A, Standard for Safety for Meters for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 - E85)

### 1. Revise the Moist Ammonia-Air Stress Cracking Test

#### PROPOSAL

#### 18 ~~10~~ Day Moist Ammonia-Air Stress Cracking Test

18.1 ~~After being subjected to the conditions described in 18.2 – 18.4, a brass part containing more than 15 percent zinc shall show no evidence of cracking when examined using 25X magnification.~~ After being subjected to the conditions described in 18.2 - 18.4, a pressure-confining brass part containing more than 15 percent zinc shall:

- a) Show no evidence of cracking, delamination, or degradation, or
- b) Perform as intended when tested as described in 18.4.

18.2 ~~Each test sample is to be subjected to the physical stresses normally imposed on or within a part as the result of assembly with other components. Such stresses are to be applied to the sample prior to and maintained during the test. Samples with threads, intended to be used for installing the product in the field are to have the threads engaged and tightened to the torque specified in Table 16.1. Teflon tape or pipe compound are not to be used on the threads. One test sample of each size is to be subjected to the physical stresses normally imposed on or within a part as the result of assembly with other components. Samples with female threads, intended to be used for installing the product in the field, are to have the threads engaged and tightened as specified in Table 16.1. Samples with female threads other than tapered pipe threads shall be torqued as specified by the manufacturer. Polytetrafluoroethylene (PTFE) tape or pipe compound are not to be used on any threads. Samples with male threads are evaluated as received.~~ Each test sample is to be subjected to the physical stresses normally imposed on or within a part as the result of assembly with other components. Samples with female threads, intended to be used for installing the product in the field, are to have the threads engaged and tightened as specified in Table 16.1. Samples with female threads other than tapered pipe threads shall be torqued as specified by the manufacturer. Polytetrafluoroethylene (PTFE) tape or pipe compound are not to be used on any threads. Samples with male threads are evaluated as received.

18.3 ~~Three samples are to be degreased and then continuously exposed in a set position for ten days to a moist ammonia-air mixture maintained in a glass chamber approximately 12 by 12 by 12 inches (305 by 305 by 305 mm) having a glass cover. The samples are then to be tested in accordance with Apparatus, Section 6, Reagents and Materials, Section 7, Test Media, Section 8, Test Sample Preparation (9.3 - 9.4), Test Procedure (10.1 - 10.4) of the Standard Test Method for Ammonia Vapor Test for Determining Susceptibility to Stress Corrosion Cracking in Copper Alloys, ASTM B858-06, except the pH level of the test solution shall be High 10.5 ±0.1 and the exposure temperature shall be 25 ±1°C.~~ Three samples are to be degreased and then continuously exposed in a set position for ten days to a moist ammonia-air mixture maintained in a glass chamber approximately 12 by 12 by 12 inches (305 by 305 by 305 mm) having a glass cover. The samples are then to be tested in accordance with Apparatus, Section 6, Reagents and Materials, Section 7, Test Media, Section 8, Test Sample Preparation (9.3 - 9.4), Test Procedure (10.1 - 10.4) of the Standard Test Method for Ammonia Vapor Test for Determining Susceptibility to Stress Corrosion Cracking in Copper Alloys, ASTM B858-06, except the pH level of the test solution shall be High 10.5 ±0.1 and the exposure temperature shall be 25 ±1°C.

18.4 ~~Approximately 600 ml of aqueous ammonia having a specific gravity of 0.94 is to be maintained at the bottom of the glass chamber below the samples. The samples are to be positioned 1-1/2 inches (38.1 mm) above the aqueous ammonia solution and supported by an inert tray. The moist ammonia-air mixture in the chamber is to be maintained at atmospheric pressure and at a temperature of 34 ± 2°C (93 ± 5°F). After the exposure period, the samples are to be examined for cracks or other signs of stress corrosion using a microscope having a magnification of 25X. Pressure-confining parts exhibiting degradation as indicated in 18.1 as a result of the test exposure described in 18.2 and 18.3 shall withstand, without rupture, a hydrostatic test pressure of five times the rated pressure of the valve, for 1 minute.~~ Approximately 600 ml of aqueous ammonia having a specific gravity of 0.94 is to be maintained at the bottom of the glass chamber below the samples. The samples are to be positioned 1-1/2 inches (38.1 mm) above the aqueous ammonia solution and supported by an inert tray. The moist ammonia-air mixture in the chamber is to be maintained at atmospheric pressure and at a temperature of 34 ± 2°C (93 ± 5°F). After the exposure period, the samples are to be examined for cracks or other signs of stress corrosion using a microscope having a magnification of 25X. Pressure-confining parts exhibiting degradation as indicated in 18.1 as a result of the test exposure described in 18.2 and 18.3 shall withstand, without rupture, a hydrostatic test pressure of five times the rated pressure of the valve, for 1 minute.

**BSR/UL 25B, Standard for Safety for Meters for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil**

**1. Revise the Moist Ammonia-Air Stress Cracking Test**

**PROPOSAL**

**18 40-Day Moist Ammonia-Air Stress Cracking Test**

18.1 ~~After being subjected to the conditions described in 18.2 - 18.4, a brass part containing more than 15 percent zinc shall show no evidence of cracking when examined using 25X magnification.~~ After being subjected to the conditions described in 18.2 - 18.4, a pressure-confining brass part containing more than 15 percent zinc shall:

- a) Show no evidence of cracking, delamination, or degradation, or
- b) Perform as intended when tested as described in 18.4.

18.2 ~~Each test sample is to be subjected to the physical stresses normally imposed on or within a part as the result of assembly with other components. Such stresses are to be applied to the sample prior to and maintained during the test. Samples with threads, intended to be used for installing the product in the field are to have the threads engaged and tightened to the torque specified in Table 16.1. Teflon tape or pipe compound are not to be used on the threads. One test sample of each size is to be subjected to the physical stresses normally imposed on or within a part as the result of assembly with other components. Samples with female threads, intended to be used for installing the product in the field, are to have the threads engaged and tightened as specified in Table 16.1. Samples with female threads other than tapered pipe threads shall be torqued as specified by the manufacturer. Polytetrafluoroethylene (PTFE) tape or pipe compound are not to be used on any threads. Samples with male threads are evaluated as received.~~

18.3 ~~Three samples are to be degreased and then continuously exposed in a set position for ten days to a moist ammonia-air mixture maintained in a glass chamber approximately 12 by 12 by 12 inches (305 by 305 by 305 mm) having a glass cover. The samples are then to be tested in accordance with Apparatus, Section 6, Reagents and Materials, Section 7, Test Media, Section 8, Test Sample Preparation (9.3 - 9.4), Test Procedure (10.1 - 10.4) of the Standard Test Method for Ammonia Vapor Test for Determining Susceptibility to Stress Corrosion Cracking in Copper Alloys, ASTM B858-06, except the pH level of the test solution shall be High 10.5 ±0.1 and the exposure temperature shall be 25 ±1°C.~~

18.4 ~~Approximately 600 ml of aqueous ammonia having a specific gravity of 0.94 is to be maintained at the bottom of the glass chamber below the samples. The samples are to be positioned 1-1/2 inches (38.1 mm) above the aqueous ammonia solution and supported by an inert tray. The moist ammonia-air mixture in the chamber is to be maintained at atmospheric pressure and at a temperature of 34 ± 2°C (93 ± 5°F). After the exposure period, the samples are to be examined for cracks or other signs of stress corrosion using a microscope having a magnification of 25X. Pressure-confining parts exhibiting degradation as indicated in 18.1 as a result of the test exposure described in 18.2 and 18.3 shall withstand, without rupture, a hydrostatic test pressure of five times the rated pressure of the valve, for 1 minute.~~