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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.**
2. **Use the full identification in your order, including the BSR prefix; for example, Electric Fuses BSR/SAE J554.**
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: April 23, 2017

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

#### Addenda

BSR/ASHRAE Addendum d to ANSI/ASHRAE Standard 15-2016, Safety Standard for Refrigeration Systems (addenda to ANSI/ASHRAE Standard 15-2013)

This addendum proposes to allow Group A2L refrigerants in high-probability systems for human comfort. This proposal does not change how ASHRAE Standard 15 deals with Group A2L refrigerants in industrial applications or machinery rooms. Some basic requirements for refrigerant leak detectors have been added. However, research and development of refrigerant leak detectors is continuing, and additional requirements to specify robust and reliable refrigerant leak detection may be expected.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: <https://osr.ashrae.org/default.aspx>

### IIAR (International Institute of Ammonia Refrigeration)

#### Revision

BSR/IIAR 1-201x, Definitions and Terminology Used in IIAR Standards (revision of ANSI/IIAR 1-2012)

This Standard provides a unified set of definitions for use in the IIAR Standards. A set of common definitions is provided to prevent confusion for those that use IIAR Standards. This Standard is a companion to ANSI/IIAR Standards.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Tony Lundell, (703) 312-4200, [tony\\_lundell@iiar.org](mailto:tony_lundell@iiar.org)

### IIAR (International Institute of Ammonia Refrigeration)

#### Revision

BSR/IIAR 3-201x, Ammonia Refrigeration Valves (revision of ANSI/IIAR 3-2012)

The purpose of this standard is to specify performance criteria for valves and strainers used in closed-circuit ammonia refrigeration systems.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Tony Lundell, (703) 312-4200, [tony\\_lundell@iiar.org](mailto:tony_lundell@iiar.org)

### NSF (NSF International)

#### Revision

BSR/NSF 60-201x (i76r1), Drinking Water Treatment Chemicals (revision of ANSI/NSF 60-2016)

This Standard establishes minimum health effects requirements for the chemicals, the chemical contaminants, and the impurities that are directly added to drinking water from drinking water treatment chemicals. This Standard does not establish performance or taste and odor requirements for drinking water treatment chemicals.

[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)

### OEOSC (ASC OP) (Optics and Electro-Optics Standards Council)

#### Revision

BSR/OEOSC OP1.002-201x, Optics and Electro-Optical Instruments - Optical Elements and Assemblies - Surface Imperfections (revision of ANSI/OEOSC OP1.002-2016)

#### (30-Day Public Comment Period: Announcement of Limited Substantive Changes to an Approved American National Standard)

This page replaces Page 4 in ANSI/OEOSC OP1.002-2016. The standard establishes uniform practices for stating and interpreting tolerances and for conducting inspections of transmissive and reflective optical elements and cemented components for scratch, dig, edge, coating, and optical cement imperfections. Default specifications for bubbles and inclusions are also included.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Allen Krisiloff; [allen@oesc.org](mailto:allen@oesc.org)

### SAIA (ASC A92) (Scaffold & Access Industry Association)

#### New Standard

BSR/SAIA A92.20-201x, Design, Calculations, Safety Requirements and Test Methods for Mobile Elevating Work Platforms (MEWPs) (new standard)

This Standard is intended to be used in conjunction BSR/SAIA A92.22, Safe Use of MEWPs and BSR/SAIA A92.24, Training Requirements for Operators of MEWPs. This American National Standard specifies safety requirements and preventive measures, and the means for their verification, for certain types and sizes of mobile elevating work platforms (MEWPs) intended to position personnel, along with their necessary tools and materials, at work locations. It contains the structural design calculations and stability criteria, construction, safety examinations and tests that shall be applied before a MEWP is first put into service.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: DeAnna Martin, (816) 595-4860, [deanna@saiaonline.org](mailto:deanna@saiaonline.org)

### SAIA (ASC A92) (Scaffold & Access Industry Association)

#### New Standard

BSR/SAIA A92.22-201x, Safe Use of Mobile Elevating Work Platforms (MEWPs) (new standard)

This Standard is intended to be used in conjunction with BSR/SAIA A92.20, Design calculations, safety requirements and test methods for Mobile Elevating Work Platforms (MEWPs) and BSR/SAIA A92.24, Training Requirements for Operators of Mobile Elevating Work Platforms (MEWPs). This Standard specifies requirements for application, inspection, training, maintenance, repair, and safe operation of Mobile Elevating Work Platforms (MEWPs). It applies to all types and sizes of MEWPs as specified in BSR/SAIA A92.20 that are intended to position personnel, along with their necessary tools and materials, at work locations.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: DeAnna Martin, (816) 595-4860, [deanna@saiaonline.org](mailto:deanna@saiaonline.org)

## SAIA (ASC A92) (Scaffold & Access Industry Association)

### New Standard

BSR/SAIA A92.24-201x, Training Requirements for the Use, Operation, Inspection, Testing and Maintenance of Mobile Elevating Work Platforms (MEWPs) (new standard)

This Standard is intended to be used in conjunction with BSR/SAIA A92.20, Design, Calculations, Safety Requirements and Test Methods for Mobile Elevating Work Platforms (MEWPs), and BSR/SAIA A92.22, Safe Use of Mobile Elevating Work Platforms (MEWPs). This standard provides methods and guidelines to prepare MEWP training materials, defines administrative criteria, and delivers elements required for proper training and familiarization. It applies to all types and sizes of MEWPs defined in BSR/SAIA A92.20 that are intended to position personnel, along with their necessary tools and materials, at work locations.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: DeAnna Martin, (816) 595-4860, [deanna@saiaonline.org](mailto:deanna@saiaonline.org)

## UL (Underwriters Laboratories, Inc.)

### Revision

BSR/UL 13-201X, Standard for Safety for Power-Limited Circuit Cables (Proposals dated 3/24/17) (revision of ANSI/UL 13-2015a)

Addition of -LP Ratings.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Linda Phinney, (510) 319-4297, [Linda.L.Phinney@ul.com](mailto:Linda.L.Phinney@ul.com)

## UL (Underwriters Laboratories, Inc.)

### Revision

BSR/UL 248-1-201x, Standard for Safety for Low-Voltage Fuses - Part 1: General Requirements (revision of ANSI/UL 248-1-2011 (R2015))

(1) Editorial correction in Table 5; (2) Recovery voltage clarification.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Mitchell Gold, (847) 664-2850, [Mitchell.Gold@ul.com](mailto:Mitchell.Gold@ul.com)

## UL (Underwriters Laboratories, Inc.)

### Revision

BSR/UL 758-201X, Standard for Safety for Appliance Wiring Material (Proposals dated 3/24/17) (revision of ANSI/UL 758-2016)

(1) Production-Line Dielectric Test and DC Dielectric Voltage-Withstand Test Potentials, Revised 49.1 and 49.2 and Revised Table 49.1; (2) Addition of Stability Factor Test to Table 3.9.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Linda Phinney, (510) 319-4297, [Linda.L.Phinney@ul.com](mailto:Linda.L.Phinney@ul.com)

## UL (Underwriters Laboratories, Inc.)

### Revision

BSR/UL 1778-201x, Standard for Safety for Uninterruptible Power Systems (Proposal dated 3-24-17) (revision of ANSI/UL 1778-2014)

This recirculation proposal provides revisions to the proposal dated 11-25-16.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Jonette Herman, (919) 549-1479, [Jonette.A.Herman@ul.com](mailto:Jonette.A.Herman@ul.com)

## Comment Deadline: May 8, 2017

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

### New National Adoption

BSR/AAMI/ISO 18250-1-201x, Connectors for reservoir delivery systems for healthcare applications - Part 1: General requirements and common test methods (identical national adoption of ISO/CD 18250-1)

Specifies general requirements for reservoir connectors, which convey fluids in healthcare applications. These reservoir connectors are used in medical devices or accessories intended for use with a patient. Also specifies the healthcare fields in which these reservoir connectors are intended to be used.

Single copy price: Free

Obtain an electronic copy from: <https://standards.aami.org/kws/public/documents?view=>

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

## ABYC (American Boat and Yacht Council)

### Revision

BSR/ABYC A-32-201x, AC Power Conversion Equipment and Systems (revision of ANSI/ABYC A-32 2012)

This standard is a guide for the design, construction, and installation of electrical and electronic power conversion, control equipment and systems.

Single copy price: \$50.00

Obtain an electronic copy from: [www.abycinc.org](http://www.abycinc.org)

Order from: [www.abycinc.org](http://www.abycinc.org)

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

## ABYC (American Boat and Yacht Council)

### Revision

BSR/ABYC H-24-201x, Gasoline Fuel Systems (revision of ANSI/ABYC H-24-2012)

This standard is a guide for the design and choice of materials for construction, installation, repair, and maintenance of permanently installed gasoline fuel systems.

Single copy price: \$50.00

Obtain an electronic copy from: [www.abycinc.org](http://www.abycinc.org)

Order from: [www.abycinc.org](http://www.abycinc.org)

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

## APA (APA - The Engineered Wood Association)

### Revision

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

This standard covers manufacturing, qualification, quality assurance, design, and installation requirements for performance-rated cross-laminated timber products.

Single copy price: Free

Obtain an electronic copy from: [borjen.yeh@apawood.org](mailto:borjen.yeh@apawood.org)

Order from: Borjen Yeh, (253) 620-7467, [borjen.yeh@apawood.org](mailto:borjen.yeh@apawood.org)

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

**API (American Petroleum Institute)****Reaffirmation**

BSR/API Standard RP 755-2010 (R201x), Fatigue Risk Management Systems for Personnel in the Refining and Petrochemical Industries (reaffirmation of ANSI/API Standard RP 755-2010)

This recommended practice (RP) provides guidance to all stakeholders (e.g., employees, managers, supervisors, contractors) on understanding, recognizing, and managing fatigue in the workplace. Owners and operators should establish policies and procedures to meet the purpose of this recommended practice. This RP was developed for refineries, petrochemical and chemical operations, natural gas liquefaction plants, and other facilities such as those covered by the OSHA Process Safety Management Standard, 29 CFR 1910.119. This document is intended to apply to a workforce that is commuting daily to a job location.

Single copy price: \$83.00

Obtain an electronic copy from: [crimaudos@api.org](mailto:crimaudos@api.org)

Order from: Stephen Crimauodo, (202) 682-8151, [crimaudos@api.org](mailto:crimaudos@api.org)

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

**ASPE (American Society of Plumbing Engineers)****Revision**

BSR/WQA/ASPE/NSF S-802-201x, Sustainable Treatment Media for Drinking Water Applications (revision of ANSI/WQA/ASPE/NSF S-802-2014)

The scope of this voluntary product sustainability certification standard includes activated carbon and ion exchange resin (or blends thereof) commonly utilized in the treatment of drinking water for any of the following enduse applications: point of use (POU) systems or products, point of entry (POE) systems, commercial/industrial systems, and municipal supplies. The requirements of this standard shall be applicable to all production facilities, owned or controlled by the applicant company, encompassing all phases of production.

Single copy price: Free

Obtain an electronic copy from: [gpianta@aspe.org](mailto:gpianta@aspe.org)

Order from: Gretchen Pienta, (847) 296-0002, [gpianta@aspe.org](mailto:gpianta@aspe.org)

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

**ASPE (American Society of Plumbing Engineers)****Revision**

BSR/WQA/ASPE/NSF S-803-201x, Sustainable Drinking Water Treatment Systems (revision and redesignation of ANSI/WQA/ASPE S-803-2014)

This voluntary product performance standard to be used for third-party certification applies to products that treat or otherwise produce water for human consumption (e.g., drinking and/or food/beverage preparation) or recreation, but excludes products that treat wastewater. It includes performance criteria for systems using activated carbon, UV, ion-exchange resins, and dispensers/fountains.

Single copy price: Free

Obtain an electronic copy from: [gpianta@aspe.org](mailto:gpianta@aspe.org)

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**ASTM (ASTM International)****Withdrawal**

ANSI/ASTM E1239-2005 (R2010), Practice for Description of Reservation/Registration-Admission, Discharge, Transfer (R-ADT) Systems for Electronic Health Record (EHR) Systems (withdrawal of ANSI/ASTM E1239-2005 (R2010))

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

Order from: [accreditation@astm.org](mailto:accreditation@astm.org)

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**ASTM (ASTM International)****Withdrawal**

ANSI/ASTM E1340-2005 (R2010), Guide for Rapid Prototyping of Information Systems (withdrawal of ANSI/ASTM E1340-2005 (R2010))

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

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**ASTM (ASTM International)****Withdrawal**

ANSI/ASTM E1744-2005 (R2010), Practice for View of Emergency Medical Care in the Electronic Health Record (withdrawal of ANSI/ASTM E1744-2005 (R2010))

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

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**ASTM (ASTM International)****Withdrawal**

ANSI/ASTM E2017-1999 (R2010), Guide for Amendments to Health Information (withdrawal of ANSI/ASTM E2017-1999 (R2010))

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

Order from: [accreditation@astm.org](mailto:accreditation@astm.org)

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**ASTM (ASTM International)****Withdrawal**

ANSI/ASTM E2212-2002 (R2010), Practice for Healthcare Certificate Policy (withdrawal of ANSI/ASTM E2212-2002 (R2010))

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

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**ASTM (ASTM International)****Withdrawal**

ANSI/ASTM E2436-2010, Specification for the Representation of Human Characteristics Data in Healthcare Information Systems (withdrawal of ANSI/ASTM E2436-2010)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

Order from: [accreditation@astm.org](mailto:accreditation@astm.org)

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

**DASMA (Door and Access Systems Manufacturers Association)****Revision**

BSR/DASMA 105-201x, Test Method for Thermal Transmittance and Air Infiltration of Garage Doors and Rolling Doors (revision of ANSI/DASMA 105-2014)

Test method is to measure the thermal characteristics of sectional garage doors and rolling doors under steady-state conditions. The measurements and calculations made will yield the steady-state thermal transmittance (U) using a hot box apparatus and the air infiltration rate.

Single copy price: Free

Obtain an electronic copy from: [dasma@dasma.com](mailto:dasma@dasma.com)

Order from: [dasma@dasma.com](mailto:dasma@dasma.com)

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

**ECIA (Electronic Components Industry Association)****Revision**

BSR/EIA 364-57A-201x, Coupling Pin Strength Test Procedure for Circular Bayonet Electrical Connectors (revision and redesignation of ANSI/EIA 364-57-2011)

This test procedure establishes a test method to determine whether coupling pin strength can withstand external forces required to mate and unmate circular bayonet electrical connectors with gages or devices.

Single copy price: \$76.00

Obtain an electronic copy from: [emikoski@ecianow.org](mailto:emikoski@ecianow.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: Ed Mikoski; [emikoski@ecianow.org](mailto:emikoski@ecianow.org)

**ESTA (Entertainment Services and Technology Association)****Revision**

BSR/E1.31-201x, Entertainment Technology - Lightweight streaming protocol for transport of DMX512 using ACN (revision of ANSI E1.31-2016)

E1.31 provides a very simple protocol that offers functionality comparable to proprietary DMX512 over Ethernet protocols while being compatible with the E1.17 suite of protocols. The standard is being revised, limited to the addition of IPv6 compatibility and the correction of errors. Input on additional features is not being sought at this time.

Single copy price: Free

Obtain an electronic copy from: [http://tsp.esta.org/tsp/documents/public\\_review\\_docs.php](http://tsp.esta.org/tsp/documents/public_review_docs.php)

Order from: Karl Ruling, (212) 244-1505, [standards@esta.org](mailto:standards@esta.org)

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

**IIAR (International Institute of Ammonia Refrigeration)****Supplement**

BSR/IIAR 2-2014, Addendum A-201x, Standard for Safe Design of Closed-Circuit Ammonia Refrigeration Systems (supplement to ANSI/IIAR 2-2014)

To provide the minimum requirements for the design of safe anhydrous ammonia systems. This addendum will correct mistakes and provide clarity to IIAR 2-2014 and add absorption refrigeration to the scope.

Single copy price: Free during public review

Obtain an electronic copy from: [eric.smith@iiar.org](mailto:eric.smith@iiar.org)

Order from: [eric.smith@iiar.org](mailto:eric.smith@iiar.org)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [tony\\_lundell@iiar.org](mailto:tony_lundell@iiar.org)

**NEMA (ASC C82) (National Electrical Manufacturers Association)****New Standard**

BSR C82.17-201X, Lighting Equipment: High Frequency (HF) Electronic Ballasts for Metal Halide Lamps (new standard)

This standard provides specifications for, and operating characteristics of, high-frequency electronic ballasts for metal halide lamps. Electronic ballasts are devices that use semiconductors to control lamp starting and operation. The ballasts operate from multiple supply sources up to 600V maximum at a frequency of 60 hertz. This standard covers electronic ballasts with sinusoidal lamp operating current frequencies above 40 kHz.

Single copy price: \$65.00

Obtain an electronic copy from: [Michael.Erbesfeld@nema.org](mailto:Michael.Erbesfeld@nema.org)

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

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

BSR/SCTE 159-2-201x, Multimedia Application and Service - Part 2: IPCablecom Multimedia Web Services (revision of ANSI/SCTE 159-2-2010)

This specification provides a simple, open interface between a generic Application Server (AS) and an IPCablecom Multimedia Application Manager (AM).

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)

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

BSR/SCTE 173-1-201x, Requirements for Preferential Telecommunications over IPCablecom Networks (revision of ANSI/SCTE 173-1-2010)

The objective of this standard is to provide an initial set of requirements for preferential telecommunications within IPCablecom networks. Aspects of preferential telecommunications include provisions for Authentication and Priority (Special Handling).

Single copy price: \$50.00

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

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

BSR/SCTE 173-2-201x, Framework for Implementing Preferential Telecommunications in IPCablecom and IPCablecom2 Networks (revision of ANSI/SCTE 173-2-2010)

The objective of this Standard is to provide a framework for the implementation of preferential telecommunications services within cable networks as described in ANSI/SCTE 24-1 and ITU-T J.360.

Single copy price: \$50.00

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

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

BSR/SCTE 173-3-201x, Specification for Authentication in Preferential Telecommunications over IPCablecom2 Networks (revision of ANSI/SCTE 173-3-2010)

This Standard is one of a series of Standards to enable support for preferential telecommunication services over IPCablecom networks.

Single copy price: \$50.00

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

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

BSR/SCTE 173-4-201x, Specification for Priority in Preferential Telecommunications over IPCablecom2 Networks (revision of ANSI/SCTE 173-4-2010)

This Standard is one of a series of Standards to enable support for preferential telecommunication services over IPCablecom networks.

Single copy price: \$50.00

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

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

UL proposes the first edition of the Standard for Software Cybersecurity for Network-Connectable Products, Part 1: General Requirements, UL 2900-1.

Single copy price: Contact comm2000 for pricing and delivery options

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

BSR/UL 260-2008 (R201x), Standard for Safety for Dry Pipe and Deluge Valves for Fire-Protection Service (reaffirmation of ANSI/UL 260-2008 (R2013))

UL proposes a reaffirmation for UL 260.

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

BSR/UL 2523-2013 (R201x), Standard for Safety for Solid Fuel-Fired Hydronic Heating Appliances, Water Heaters and Boilers (reaffirmation of ANSI/UL 2523-2013)

Reaffirm UL 2523 as an American National Standard. UL 2523 covers factory-built manually and/or automatically fueled solid fuel-fired hydronic heating appliances, water heaters, and boilers intended to be fixed non-moveable appliances. The appliances are intended to burn solid fuels, such as wood, coal, or any other biomass fuel, as specified by the manufacturer.

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

BSR/UL 60730-2-14-2013 (R201x), Standard for Automatic Electrical Controls; Part 2: Particular Requirements for Electric Actuators (reaffirmation of ANSI/UL 60730-2-14-2013)

This part of IEC 60730 applies to electric actuators for use in, on, or in association with equipment for household and similar use for heating, air-conditioning and ventilation. The equipment may use electricity, gas, oil, solid fuel, solar thermal energy, etc., or a combination thereof. This part 2 applies to electric actuators using NTC or PTC thermistors, additional requirements for which are contained in annex J.

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

BSR/UL 8750-201X, Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products (revision of ANSI/UL 8750-2016)

The following changes in requirements to the Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products, UL 8750, are being proposed: (1) Relocate definition of enclosure to Glossary section; (2) Clarify terminology for isolated circuit in Glossary; (3) Add construction and performance requirements for direct plug-in units; (4) Clarify requirements for accessibility of live parts in Section 7.2; (5) Revise requirements for electrical spacings in Section 7.8; (6) Clarify construction and performance requirements for transformers in paragraph 7.9.2; (7) Clarify equipment under test terminology in paragraphs 8.5.1 and 8.5.4; (8) Clarify test potentials in Table 8.3 and add acceptable results criteria; (9) Revise Circuit Power Limit Measurement Test in Section 8.8; (10) Add Supplement SG - Designation of Temperature Value at the Temperature Measurement Point TC; and (11) Add Supplement SH - Requirements for LED Drivers with Phase-Cut Dimming.

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**Comment Deadline: May 23, 2017****ASME (American Society of Mechanical Engineers)****Reaffirmation**

BSR/ASME B18.7-1007 (R201x), General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets, and Rivet Caps (reaffirmation of ANSI/ASME B18.7-2007 (R2012))

This Standard covers complete general and dimensional data for semi-tubular rivets, full tubular rivets, split rivets, and rivet caps for use in general purpose applications.

Single copy price: \$38.00

For Reaffirmations and Withdrawn standards please view our catalog at <http://www.asme.org/kb/standards>

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Angel Guzman, (212) 591-8018, [guzman@asme.org](mailto:guzman@asme.org)

**ASME (American Society of Mechanical Engineers)****Reaffirmation**

BSR/ASME B18.7.1M-2007 (R201x), Metric General Purpose Semi-Tubular Rivets (reaffirmation of ANSI/ASME B18.7.1M-2007 (R2012))

This Standard covers the general and dimensional data for oval head semi-tubular rivets for use in general-purpose applications.

Single copy price: \$35.00

For Reaffirmations and Withdrawn standards please view our catalog at <http://www.asme.org/kb/standards>

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**ASME (American Society of Mechanical Engineers)****Reaffirmation**

BSR/ASME B18.9-2012 (R201x), Plow Bolts (reaffirmation of ANSI/ASME B18.9-2012)

This Standard covers general and dimensional data for inch series plow bolts.

Single copy price: \$39.00

For Reaffirmations and Withdrawn standards please view our catalog at <http://www.asme.org/kb/standards>

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Angel Guzman, (212) 591-8018, [guzman@asme.org](mailto:guzman@asme.org)

**ASME (American Society of Mechanical Engineers)****Revision**

BSR/ASME B18.16.6-201x, Nylon Insert Locknuts (Inch Series) (revision of ANSI/ASME B18.16.6-2014)

This standard covers the complete general, dimensional, mechanical, and performance requirements (proof load, prevailing torque, and torque-tension) for carbon steel inch series nylon insert locknuts of grades N2, N5, and N8 in styles NE (1/4" - 1-1/2"), NTE (1/4" - 1-1/2"), NU (1/4" - 3"), NTU (1/4" - 3"), NM (#2 - #12), NTM (#2 - #12), and hex flange (1/4" - 3/4").

Single copy price: Free

Obtain an electronic copy from: <http://cstools.asme.org/publicreview>

Order from: Mayra Santiago, ASME; [ansibox@asme.org](mailto:ansibox@asme.org)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Angel Guzman, (212) 591-8018, [guzman@asme.org](mailto:guzman@asme.org)

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

BSR/IEEE 56-201x, Guide for Insulation Maintenance of Electric Machines (new standard)

This insulation maintenance guide is applicable to rotating electric machines rated from 35 kVA and higher. The procedures detailed in this standard may also be useful for insulation maintenance of other types of machines.

Single copy price: \$92.00 (pdf); \$114.00 (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 524-2016, Guide to the Installation of Overhead Transmission Line Conductors (new standard)

This guide provides general recommendations for the selection of methods, equipment, and tools that have been found to be practical for the stringing of overhead transmission line conductors and overhead groundwires. The guide also includes a comprehensive list of definitions for equipment and tools used in stringing and for stringing terms commonly employed.

Single copy price: \$141.00 (pdf)

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

BSR/IEEE 802.15.4u-201x, Standard for Low-Rate Wireless Networks - Amendment 3: Use of the 865 MHz to 867 MHz Band in India (new standard)

This amendment defines a PHY layer enabling the use of the 865-867 MHz band in India. The supported data rate should be at least 40 kb/s per second and the typical Line of Sight (LOS) range should be on the order of 5 km using an omni-directional antenna. Included are any channel access and/or timing changes in the MAC necessary to support this PHY layer.

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

BSR/IEEE 1242-2016, Guide for Specifying and Selecting Power, Control, and Special-Purpose Cable for Petroleum and Chemical Plants (new standard)

This guide provides information on the specification and selection of power, control, and special-purpose cable, as typically used in petroleum, chemical, and similar plants. It addresses materials, design, testing, installations, and applications. More recent developments such as fire-resistive circuit integrity cables have been included.

Single copy price: 141.00 (pdf); \$176.00 (print)

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

BSR/IEEE 1819-201x, Standard for Risk-Informed Categorization and Treatment of Electrical and Electronic Equipment at Nuclear Power Generating Stations and Other Nuclear Facilities (new standard)

This standard identifies and discusses criteria for risk-informed categorization and treatment of electrical and electronic components that are designated by the user to be placed into safety-significant categories at nuclear power generating stations and other nuclear facilities.

Single copy price: \$56.00 (pdf)

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

BSR/IEEE 1849-201x, Standard for eXtensible Event Stream (XES) for Achieving Interoperability in Event Logs and Event Streams (new standard)

This Standard defines World Wide Web Consortium (W3C) Extensible Markup Language (XML) structure and constraints on the contents of XML 1.1 documents that can be used to represent extensible event stream (XES) instances. An XES instance corresponds to a file-based event log or a formatted event stream that can be used to transfer event-driven data in a unified and extensible manner from a first site to a second site.

Single copy price: 56.00 (pdf); \$70.00 (print)

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

BSR/IEEE 1898-201x, Standard for High-Voltage Direct-Current (HVDC) Composite Post Insulators (new standard)

The standard describes the terms and definition, use condition, technical requirement, test methods of composite post insulators for HVDC power transmission systems up to  $\pm 800$ kV. This standard applies to outdoor and indoor composite station post insulators used in HVDC power transmission systems. The composite station post insulators covered by this standard consist of a load-bearing insulating core (or tube), a housing (outside the insulating solid core or tube) made of elastomer material (e.g., silicone or ethylene-propylene) and end fittings attached to the insulating core (or tube).

Single copy price: 58.00 (pdf); \$73.00 (print)

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

BSR/IEEE 11073-10427-201x, Standard - Health Informatics - Personal Health Device Communication - Part 10427: Device Specialization -Power Status Monitor of Personal Health Devices (new standard)

This standard establishes a normative definition of communication between devices containing a power source (agents) and managers (e.g., cell phones, personal computers, personal health appliances, set top boxes) in a manner that enables plug-and-play interoperability. Using existing terminology, information profiles, application profile standards, and transport standards as defined in other ISO/IEEE 11073 standards, this standard defines a common core of communication functionality of personal health devices containing a battery.

Single copy price: 92.00 (pdf); \$115.00 (print)

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

BSR/IEEE C37.010-201x, Application Guide for AC High-Voltage Circuit Breakers > 1000 Vac Rated on a Symmetrical Current Basis (new standard)

This application guide applies to the ac indoor and outdoor high-voltage circuit breakers rated in accordance with the methods given in IEEE Std. C37.04, C37.04a, listed in IEEE Std. C37.06, and tested in accordance with IEEE Std. C37.09, C37.09a. Circuit breakers rated and manufactured to meet other standards should be applied in accordance with application procedures adapted to their specific ratings or applications.

Single copy price: \$137.00 (pdf)

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

BSR/IEEE C62.42.1-201x, Guide for the Application of Surge-Protective Components in Surge Protective Devices and Equipment Ports - Part 1: Gas Discharge Tubes (GDTs) (new standard)

The C62.42 guide series covers surge protective components (SPCs) used in power and telecom surge protective devices (SPDs) and equipment ports. This part on Gas Discharge Tube (GDT) technology SPCs covers: component construction, characteristics, ratings, and application examples.

Single copy price: 58.00 (pdf); \$72.00 (print)

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

BSR/IEEE 386-2016, Standard for Separable Insulated Connector Systems for Power Distribution Systems Rated 2.5 kV through 35 kV (revision of ANSI/IEEE 386-2006)

This standard establishes definitions, service conditions, ratings, interchangeable construction features, and tests for loadbreak- and deadbreak-separable insulated connector systems rated 900 A or less, for use on shielded power distribution systems rated 2.5 kV through 35 kV.

Single copy price: 92.00 (pdf); \$114.00 (print)

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

BSR/IEEE 525-2016, Guide for the Design and Installation of Cable Systems in Substations (revision of ANSI/IEEE 525-2007)

This document is a guide for the design, installation, and protection of insulated wire and cable systems in substations with the objective of helping to minimize cable failures and their consequences. Cable systems with voltages greater than 35 kV are not covered in this guide.

Single copy price: \$183.00 (pdf); \$230.00 (print)

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

BSR/IEEE 1633-201x, Recommended Practice on Software Reliability (revision of ANSI/IEEE 1633-2008)

This recommended practice defines the software reliability engineering processes, prediction models, growth models, tools, and practices of an organization. This document and its models and tools are useful to any development organization to identify the methods, equations, and criteria for quantitatively assessing the reliability of a software or firmware subsystem or product.

Single copy price: 184.00 (pdf); \$230.00 (print)

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

BSR/IEEE 1647-2016, Standard for the Functional Verification Language e (revision of ANSI/IEEE 1647-2011)

This standard defines the e functional verification language. This standard aims to serve as an authoritative source for the definition of (a) syntax and semantics of e language constructs, (b) the e language interaction with standard simulation languages, and (c) e language libraries.

Single copy price: 321.00 (pdf); \$402.00 (print)

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

BSR/IEEE 1652-2016, Standard for Translating Head and Torso Simulator Measurements from Eardrum to Other Acoustic Reference Points (revision of ANSI/IEEE 1652-2008)

This standard provides the data, techniques, and rationale for translating Head and Torso Simulator measurements from the eardrum to other acoustic reference points, such as the free field and the diffuse field. It applies primarily to measurements of devices that contact the ear, such as headsets and handsets. It can also be used for devices that do not contact the ear, such as speakerphones and wearable devices. It is applicable to communication and multimedia audio devices over the frequency range of 20Hz to 20kHz

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

BSR/IEEE C37.13.1-2016, Standard for Definite-Purpose Switching Devices for Use in Metal-Enclosed Low-Voltage (600 V AC and Below) Power Circuit Breaker Switchgear (revision of ANSI/IEEE C37.13.1-2006)

This standard provides requirements for low-voltage (600 V ac and below) definite-purpose switching (LV-DPS) devices (other than power circuit breakers) for use in metal-enclosed, low-voltage, power circuit breaker switchgear described in IEEE Std C37.20.1.1 These switching devices may be used in motor control or other repetitive duty applications and have the following characteristics: (a) Drawout type, three-pole construction; (b) Integral current-limiting fuses for short-circuit protection; and (c) Power operated, with integral or separately mounted overcurrent protective devices.

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

BSR/IEEE C37.41-201x, Standard Design Tests for High-Voltage (>1000 V) Fuses and Accessories (revision of ANSI/IEEE C37.41-2008)

This standard specifies design test requirements for high-voltage (above 1000 V) fuses and accessories for use on ac electrical distribution systems. Devices with rated maximum voltages to 170 kV are covered.

Single copy price: 141.00 (pdf); \$176.00 (print)

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

BSR/IEEE C37.42-201x, Standard Specifications for High-Voltage (>1000 V) Fuses and Accessories (revision of ANSI/IEEE C37.42-2009)

This standard establishes specifications for high-voltage (above 1000 V) fuses and accessories for use on ac electrical distribution systems. Devices with rated maximum voltages to 170 kV are covered.

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

BSR/UL 60335-2-34-201X, Standard for Safety of Household and Similar Electrical Appliances, Part 2: Particular Requirements for Motor-Compressors (national adoption of IEC 60335-2-34 with modifications and revision of ANSI/UL 60335-2-34-2013)

This International Standard deals with the safety of sealed (hermetic and semi-hermetic type) motor-compressors, their protection and control systems, if any, which are intended for use in equipment for household and similar purposes and which conform with the standards applicable to such equipment. It applies to motor-compressors tested separately, under the most severe conditions that may be expected to occur in normal use, their rated voltage being not more than 250 V for single-phase motor-compressors and 600 V for other motor-compressors. It applies to motor-compressors tested separately, under the most severe conditions that may be expected to occur in normal use.

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

BSR/UL 62108-201x, Standard for Concentrator Photovoltaic (CPV) Modules and Assemblies - Design Qualification and Type Approval (revision of ANSI/UL 62108-2012 (R2016))

Second edition of the UL IEC-based standard for Concentrator photovoltaic (CPV) modules and assemblies - Design Qualification and Type Approval, UL 62108, with no US national differences.

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**Projects Withdrawn from Consideration**

An accredited standards developer may abandon the processing of a proposed new or revised American National Standard or portion thereof if it has followed its accredited procedures. The following projects have been withdrawn accordingly:

**ASTM (ASTM International)**

BSR/ASTM E1239-2005 (R201x), Practice for Description of Reservation/Registration-Admission, Discharge, Transfer (R-ADT) Systems for Electronic Health Record (EHR) Systems (reaffirmation of ANSI/ASTM E1239-2005 (R2010))

Inquiries may be directed to Corice Leonard, (610) 832-9744, [accreditation@astm.org](mailto:accreditation@astm.org)

**ASTM (ASTM International)**

BSR/ASTM E1340-2005 (R201x), Guide for Rapid Prototyping of Information Systems (reaffirmation of ANSI/ASTM E1340-2005 (R2010))

Inquiries may be directed to Corice Leonard, (610) 832-9744, [accreditation@astm.org](mailto:accreditation@astm.org)

**ASTM (ASTM International)**

BSR/ASTM E1744-2005 (R201x), Practice for View of Emergency Medical Care in the Electronic Health Record (reaffirmation of ANSI/ASTM E1744-2005 (R2010))

Inquiries may be directed to Corice Leonard, (610) 832-9744, [accreditation@astm.org](mailto:accreditation@astm.org)

**ASTM (ASTM International)**

BSR/ASTM E2017-1999 (R201x), Guide for Amendments to Health Information (reaffirmation of ANSI/ASTM E2017-1999 (R2010))

Inquiries may be directed to Corice Leonard, (610) 832-9744, [accreditation@astm.org](mailto:accreditation@astm.org)

**ASTM (ASTM International)**

BSR/ASTM E2212-2002 (R201x), Practice for Healthcare Certificate Policy (reaffirmation of ANSI/ASTM E2212-2002 (R2010))

Inquiries may be directed to Corice Leonard, (610) 832-9744, [accreditation@astm.org](mailto:accreditation@astm.org)

**ASTM (ASTM International)**

BSR/ASTM E2436-2010 (R201x), Specification for the Representation of Human Characteristics Data in Healthcare Information Systems (reaffirmation of ANSI/ASTM E2436-2010)

Inquiries may be directed to Corice Leonard, (610) 832-9744, [accreditation@astm.org](mailto:accreditation@astm.org)

# 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:** *Jennifer Moyer*

**Phone:** (703) 253-8274

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

**E-mail:** [jmoyer@aami.org](mailto:jmoyer@aami.org)

BSR/AAMI/IEC 60601-2-24-201x, Medical electrical equipment - Part 2 -24: Particular requirements for the basic safety and essential performance of infusion pumps and controllers (identical national adoption of IEC 60601-2-24)

## **AARST (American Association of Radon Scientists and Technologists)**

**Office:** 475 South Church Street, Suite 600  
Hendersonville, NC 28792

**Contact:** *Gary Hodgden*

**Phone:** (202) 830-1110

**Fax:** (913) 780-2090

**E-mail:** [standards@aarst.org](mailto:standards@aarst.org)

BSR/AARST MW-RN-201x, Protocol for the Collection, Transfer and Measurement of Radon in Water (new standard)

BSR/AARST RMS-W-201x, Radon Mitigation Standards for Radon in Water (new standard)

## **API (American Petroleum Institute)**

**Office:** 1220 L Street, NW  
Washington, DC 20005-4070

**Contact:** *Stephen Crimardo*

**Phone:** (202) 682-8151

**Fax:** (202) 682-4797

**E-mail:** [crimardos@api.org](mailto:crimardos@api.org)

BSR/API Standard RP 755-2010 (R201x), Fatigue Risk Management Systems for Personnel in the Refining and Petrochemical Industries (reaffirmation of ANSI/API Standard RP 755-2010)

## **AWEA (American Wind Energy Association)**

**Office:** 1501 M Street, NW,  
Suite 1000  
Washington, DC 20005

**Contact:** *Michele Mihelic*

**Phone:** (202) 383-2500

**E-mail:** [mmihelic@awea.org](mailto:mmihelic@awea.org)

BSR/AWEA 61400-11-201x, Acoustic noise measurement techniques (identical national adoption of IEC 61400-11 Edition 3)

BSR/AWEA 61400-13-201x, Measurement of mechanical loads (identical national adoption of IEC 61400-13 Edition 1)

## **AWPA (ASC O5) (American Wood Protection Association)**

**Office:** P.O. Box 361784  
Birmingham, AL 35236-1784

**Contact:** *Colin McCown*

**Phone:** (205) 733-4077

**Fax:** (205) 733-4075

**E-mail:** [mccown@awpa.com](mailto:mccown@awpa.com)

BSR O5.2-201x, Structural Glued Laminated Timber for Utility Structures (revision of ANSI O5.2-2012)

## **DASMA (Door and Access Systems Manufacturers Association)**

**Office:** 1300 Sumner Avenue  
Cleveland, OH 44115-2851

**Contact:** *Christopher Johnson*

**Phone:** (216) 241-7333

**Fax:** (216) 241-0105

**E-mail:** [cjohnson@thomasamc.com](mailto:cjohnson@thomasamc.com)

BSR/DASMA 105-201x, Test Method for Thermal Transmittance and Air Infiltration of Garage Doors and Rolling Doors (revision of ANSI/DASMA 105-2014)

## **ECIA (Electronic Components Industry Association)**

**Office:** 2214 Rock Hill Road  
Suite 265  
Herndon, VA 20170-4212

**Contact:** *Laura Donohoe*

**Phone:** (571) 323-0294

**Fax:** (571) 323-0245

**E-mail:** [ldonohoe@ecianow.org](mailto:ldonohoe@ecianow.org)

BSR/EIA 364-57A-201x, Coupling Pin Strength Test Procedure for Circular Bayonet Electrical Connectors (revision and redesignation of ANSI/EIA 364-57-2011)

**NASPO (North American Security Products Organization)**

**Office:** 1300 I Street  
Washington, DC 20005

**Contact:** *Michael O'Neil*

**Phone:** (612) 281-7141

**E-mail:** mikeo@naspo.info

BSR/NASPO-IDV-201x, Standards for the Verification of Personal Identity (new standard)

**NENA (National Emergency Number Association)**

**Office:** 1700 Diagonal Road  
Suite 500  
Alexandria, VA 22314

**Contact:** *Roger Hixson*

**Phone:** (202) 618-4405

**E-mail:** rhixson@nena.org

BSR/NENA-STA-016.1-201X, NENA Standard for Department of Defense Notifications (new standard)

**NSF (NSF International)**

**Office:** 789 N. Dixboro Road  
Ann Arbor, MI 48105-9723

**Contact:** *Monica Leslie*

**Phone:** (734) 827-5643

**Fax:** (734) 827-7880

**E-mail:** mleslie@nsf.org

BSR/NSF 60-201x (i76r1), Drinking Water Treatment Chemicals (revision of ANSI/NSF 60-2016)

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

**Office:** 12 Laboratory Dr.  
RTP, NC 27709

**Contact:** *Gillian Ottley*

**Phone:** (613) 368-4427

**E-mail:** Gillian.Ottley@ul.com

BSR/UL 2523-2013 (R201x), Standard for Safety for Solid Fuel-Fired Hydronic Heating Appliances, Water Heaters and Boilers (reaffirmation of ANSI/UL 2523-2013)

# Call for Members (ANS Consensus Bodies)

## **CGA (Compressed Gas Association, Inc)**

Office: 14501 George Carter Way, Suite 103  
Chantilly, VA 20151  
Contact: Kristy Mastromichalis, Committee Project Manager  
Phone: (703) 788-2728  
Fax: (703) 961-1831  
E-mail: [kmastromichalis@cganet.com](mailto:kmastromichalis@cganet.com)

The Compressed Gas Association (CGA) is seeking members for the consensus body for the proposed American National Standard (ANS) CGA P-18, *Standard for Bulk Inert Gas Systems*. The purpose of this standard is to provide information on the design, installation, start-up, maintenance, and removal of bulk inert gas systems for argon, nitrogen, and helium service. This consensus body is currently seeking members in the following categories:

- user,
- general interest,
- equipment supplier,
- distributor/retailer, and
- trade association

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

### **Call for Committee Members**

#### **ASC O1 – Safety Requirements for Woodworking Machinery**

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.

## ASME (American Society of Mechanical Engineers)

### Revision

- \* ANSI/ASME A112.19.3-2017/CSA B45.4-2017, Stainless Steel Plumbing Fixtures (revision of ANSI/ASME A112.19.3-2008/CSA B45.4-2008 (R2013)): 3/10/2017

## ATIS (Alliance for Telecommunications Industry Solutions)

### Stabilized Maintenance

- ANSI/ATIS 0100008-2007 (S2017), Defects Per Million (DPM) Metric for Transaction Services such as VoIP (stabilized maintenance of ANSI/ATIS 0100008-2007 (R2012)): 3/10/2017
- ANSI/ATIS 1000019-2007 (S2017), Network-to-Network Interface (NNI) Standard for Signaling and Control Security for Evolving VoP Multimedia Networks (stabilized maintenance of ANSI/ATIS 1000019-2007 (R2012)): 3/10/2017
- ANSI/ATIS 1000608-2000 (S2017), Integrated Services Digital Network (ISDN) - Signaling Specification for X.25 Packet-Switched Bearer Service for Digital Subscriber Signaling System Number 1 (DSS1) (stabilized maintenance of ANSI/ATIS 1000608-2000 (R2012)): 3/10/2017
- ANSI/ATIS 1000608.a-1992 (S2017), Integrated Services Digital Network (ISDN) - Signaling Specification for X.25 Packet-Switched Bearer Service for Digital Subscriber Signaling System Number 1 (DSS1) (Terminal Initialization Procedures for Packet-Mode Data) (stabilized maintenance of ANSI/ATIS 1000608.a-1992 (R2012)): 3/10/2017
- ANSI/ATIS 1000613-1991 (S2017), Integrated Services Digital Network (ISDN) - Call Waiting Supplementary Service (stabilized maintenance of ANSI/ATIS 1000613-1991 (R2012)): 3/10/2017
- ANSI/ATIS 1000614-1991 (S2017), Integrated Services Digital Network (ISDN) - Packet Mode Bearer Service Category Description (stabilized maintenance of ANSI/ATIS 1000614-1991 (R2012)): 3/10/2017
- ANSI/ATIS 1000619.a-1994 (S2017), Integrated Services Digital Network (ISDN) - Multi-Level Precedence and Preemption (MLPP) Service Capability (MLPP Service Domain and Cause Value Changes) (stabilized maintenance of ANSI/ATIS 1000619.a-1994 (R2012)): 3/10/2017
- ANSI/ATIS 1000620-1991 (S2017), Integrated Services Digital Network (ISDN) - Circuit-Mode Bearer Service Category Description (stabilized maintenance of ANSI/ATIS 1000620-1991 (R2012)): 3/10/2017
- ANSI/ATIS 1000641.a-2002 (S2017), Supplement to Calling Name Identification Presentation (stabilized maintenance of ANSI/ATIS 1000641.a-2002 (R2012)): 3/10/2017
- ANSI/ATIS 1000667-2002 (S2017), Intelligent Network (stabilized maintenance of ANSI/ATIS 1000667-2002 (R2012)): 3/10/2017
- ANSI/ATIS 1000673-2002 (S2017), Bearer Independent Call Control (BICC) Capability Set 1+ (CS1+) (stabilized maintenance of ANSI/ATIS 1000673-2002 (R2012)): 3/10/2017
- ANSI/ATIS 1000674-2002 (S2017), BICC CS1+: Signaling Transport Converters (STCs) (stabilized maintenance of ANSI/ATIS 1000674-2002 (R2012)): 3/10/2017

## AWS (American Welding Society)

### New Standard

- ANSI/AWS C2.16/C2.16M-2017, Guide for Thermal Spray Operator Qualification Programs (new standard): 3/10/2017

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

### New Standard

- ANSI/IICRC S540-2017, Standard for Trauma and Crime Scene Remediation (new standard): 3/10/2017

## NSF (NSF International)

### Revision

- \* ANSI/NSF 14-2017 (i78r1), Plastics piping system components and related materials (revision of ANSI/NSF 14-2015): 2/28/2017

## UL (Underwriters Laboratories, Inc.)

### Revision

- ANSI/UL 651A-2017, Standard for Safety for Schedule 40 and 80 High Density Polyethylene (HDPE) Conduit (revision of ANSI/UL 651A-2016): 3/10/2017
- \* ANSI/UL 1453-2017, Standard for Safety for Electric Booster and Commercial Storage Tank Water Heaters (revision of ANSI/UL 1453-2016): 3/9/2017
- \* ANSI/UL 1453-2017a, Standard for Safety for Electric Booster and Commercial Storage Tank Water Heaters (revision of ANSI/UL 1453-2016): 3/9/2017
- ANSI/UL 1703-2017, Standard for Flat-Plate Photovoltaic Modules and Panels (revision of ANSI/UL 1703-2016): 3/10/2017
- ANSI/UL 1703-2017a, Standard for Flat-Plate Photovoltaic Modules and Panels (revision of ANSI/UL 1703-2016): 3/10/2017
- ANSI/UL 1703-2017b, Standard for Flat-Plate Photovoltaic Modules and Panels (revision of ANSI/UL 1703-2016): 3/10/2017

## Approval Rescinded

### Approval rescinded at the request of the ANSI-Accredited Standards Developer; New, limited revision announced in this issue of Standards Action

The approval of OEOSC OP1.002-2016 for Optics and Electro-Optical Instruments - Optical Elements and Assemblies - Surface Imperfections as an American National Standard (ANS) has been rescinded at the request of its sponsor. A new, limited revision is available for comment in this issue of Standards Action. Questions may be directed to: Allen Krisiloff, 585-473-4470, allen@oeosc.org.

# 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.

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

Contact: Colleen Elliott, (703) 253-8261, [celliott@aami.org](mailto:celliott@aami.org)

BSR/AAMI/ISO 80369-3/Amd1-201x, Small-bore connectors for liquids and gases in healthcare applications - Part 3: Connectors for enteral applications/Amd1 (supplement to ANSI/AAMI/ISO 80369-3-2016)

Stakeholders: Manufacturers, clinicians.

Project Need: Modification of scope of ISO 80369-3.

This amendment consists of a modification of the scope of the document, removing the following exclusion: "Medical devices for rectal drainage, rectal administration of medicines or fluid, and any other rectal access medical device."

BSR/AAMI/ISO 80369-3/Amd2-201x, Small-bore connectors for liquids and gases in healthcare applications - Part 3: Connectors for enteral applications/Amd2 (supplement to ANSI/AAMI/ISO 80369-3-2016)

Stakeholders: Manufacturers, clinicians.

Project Need: Modifications to dimensions of 80369-3 connectors.

This amendment is to make dimensional changes: to revise the through bore of the male connector to return to the dimension that was used for all of the misconnection analysis that was performed during the development of the connector. The through bore will also be further specified, denoting a maximum draft angle for a minimum distance.

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

Contact: Jennifer Moyer, (703) 253-8274, [jmoyer@aami.org](mailto:jmoyer@aami.org)

BSR/AAMI/IEC 60601-2-24-201x, Medical electrical equipment - Part 2-24: Particular requirements for the basic safety and essential performance of infusion pumps and controllers (identical national adoption of IEC 60601-2-24)

Stakeholders: Manufacturers, regulators, users.

Project Need: Provides information primarily to manufacturers on the basic safety and essential performance on infusion pumps.

Applies to basic safety and essential performance of infusion pumps and volumetric infusion controllers. Applies to administration sets if they influence the basic safety or essential performance.

## **AARST (American Association of Radon Scientists and Technologists)**

Contact: Gary Hodgden, (202) 830-1110, [standards@aarst.org](mailto:standards@aarst.org)

- \* BSR/AARST MW-RN-201x, Protocol for the Collection, Transfer and Measurement of Radon in Water (new standard)

Stakeholders: Radon measurement professionals, home owners or residents, water-supply owners/managers, educators, state radiation control programs or anyone involved in the measurement of radon in water supplies to assess the need for mitigation and to provide radon risk information for the benefit of occupants.

Project Need: There is currently no standard of practice that addresses sample collection, laboratory transfer and multiple analysis methods for deriving a measurement of radon in water.

This standard of practice specifies minimum requirements and procedures for the collection and transport of water samples, as well as protocols for the quantitative transfer of the sample to a measurement device. This standard addresses analytical methodologies using liquid scintillation and alpha-scintillation cells, as well as provisions needed to utilize alternative measurement techniques.



\* BSR/AARST RMS-W-201x, Radon Mitigation Standards for Radon in Water (new standard)

Stakeholders: Property owners, residents, professionals who conduct mitigation and measurement of radon in water, water-supply owners/managers, state radiation control programs or anyone involved in the mitigation of radon in water supplies.

Project Need: There is currently no standard of practice to provide minimum requirements when mitigating radon in residential and small community water supplies.

This standard specifies practices, minimum requirements, and general guidance for mitigation of radon in water where groundwater supplies such as a private well or a community water supply system is identified to have radon concentrations in water that pose a risk to occupants. This standard of practice addresses common mitigation methods used in residences such as aeration and filtration of radon in water.

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

Contact: *Carla VanGilder, (269) 932-7015, vangilder@asabe.org*

BSR/ASABE/ISO 12003-1-201x MONYEAR, Agricultural and forestry tractors - Roll-over protective structures on narrow-track wheeled tractors - Part 1: Front-mounted ROPS (identical national adoption of ISO 12003-1:2008)

Stakeholders: Tractor manufacturers.

Project Need: ISO 12003-1 is a ROPS standard that is widely used for narrow-track tractors. U.S. participants were engaged in the development of the standard

Specifies procedures for static and dynamic testing of ROPS front-mounted on narrow-track wheeled agricultural and forestry tractors. Defines clearance zone and acceptance conditions for rigid or tiltable, front, two-post ROPS, including associated rear fixtures, and is applicable to tractors having: (1) ground clearance of not more than 600 mm under the lowest point of the front and rear-axle housings; (2) fixed or adjustable minimum track width of one of the two axles of less than 1,150 mm when fitted with widest specified tires; and (3) a mass greater than 600 kg but less than 3 000 kg, unladen, including the ROPS and tires of the largest size recommended by the manufacturer.

BSR/ASABE/ISO 12003-2-201x MONYEAR, Agricultural and forestry tractors - Roll-over protective structures on narrow-track wheeled tractors - Part 2: Rear-mounted ROPS (identical national adoption of ISO 12003-2:2008)

Stakeholders: Tractor manufacturers.

Project Need: ISO 12003-2 is a ROPS standard that is widely used for narrow-track tractors. U.S. participants were engaged in the development of the standard.

Specifies procedures for static and dynamic testing of roll-over protective structures rear-mounted on narrow-track wheeled agricultural and forestry tractors. Defines clearance zone and acceptance conditions for rigid or tiltable, rear, two-post roll bar, frame and cab ROPS, and is applicable to tractors equipped with: (1) ground clearance of not more than 600 mm beneath the lowest points of the front- and rear-axle housings; (2) fixed or adjustable minimum track width of one of the two axles of less than 1,150 mm when fitted with the widest specified tires, and the overall width of other axle less than first axle; (3) a mass greater than 600 kg and less than 3,000 unladen with ROPS and largest tires.

BSR/ASABE/ISO 3463-2006 MONYEAR-201x, Tractors for agriculture and forestry - Roll-over protective structures (ROPS) - Dynamic test method and acceptance conditions (identical national adoption of ISO 3463)

Stakeholders: Tractor manufacturers.

Project Need: ISO 3463 is a ROPS standard that is used for tractors. U.S. participants were engaged in the development of the standard.

Specifies a dynamic test method and the acceptance conditions for roll-over protective structures (cab or frame) of wheeled tractors for agriculture and forestry. It is applicable to tractors having at least two axles for wheels mounted with pneumatic tires, or having tracks instead of wheels, with an unballasted tractor mass of not less than 600 kg, but generally less than 6000 kg, and with a minimum track width of the rear wheels greater than 1150 mm.

BSR/ASABE/ISO 5700-201x MONYEAR, Tractors for agriculture and forestry - Roll-over protective structures - Static test method and acceptance conditions (identical national adoption of ISO 5700:2013 and MA dated 7/23/2014)

Stakeholders: Tractor manufacturers.

Project Need: ISO 5700 is a ROPS standard that is widely used for narrow-track tractors. U.S. participants were engaged in the development of the standard. Also incorporating the approved revised text from the 23 July 2014 Maintenance Agency letter for ISO 5700.

Specifies a static test method and the acceptance conditions for roll-over protective structures (cab or frame) of wheeled or tracked tractors for agriculture and forestry. It is applicable to tractors having at least two axles for wheels mounted with pneumatic tires, or having tracks instead of wheels, with an unballasted tractor mass of not less than 600 kg and a minimum track width of the rear wheels greater than 1150 mm. It is not applicable to tractors having a mass ratio (maximum permissible mass / reference mass) greater than 1.75.

**ASME (American Society of Mechanical Engineers)**

Contact: *Mayra Santiago, (212) 591-8521, ansibox@asme.org*

BSR/ASME MFC-2.1-201x, Measurement Uncertainty for Fluid Flow in Closed Conduits (with Systematic and Random Effects) (revision and partition of ANSI/ASME MFC-2M-1983 (R2013))

Stakeholders: Manufacturers and users of flow meters.

Project Need: Revised to reflect the state of the art and partitioned to accommodate other methods of determination of measurement uncertainty.

This Standard applies primarily to the steady flow of fluids flowing full in closed conduit. This Standard gives the terminology, establishes the principles, and describes the procedures for evaluating the uncertainty of a fluid flow rate or fluid quantity measurement. Step-by-step procedures for calculating field flowmeter measurement uncertainty are given in the Standard. The procedures and examples included show field flowmeter measurement uncertainty calculations and analysis using the "Random and Systematic" systems.

BSR/ASME MFC-2.2-201x, Measurement Uncertainty for Fluid Flow in Closed Conduits - Type A and B Method (revision and partition of ANSI/ASME MFC-2M-1983 (R2013))

Stakeholders: Manufacturers and users of flow meters.

Project Need: Revised to reflect the state of the art and partitioned to accommodate other methods of determination of measurement uncertainty.

This Standard applies primarily to the steady flow of fluids flowing full through closed conduits. This Standard gives the terminology, established the principles, describes the procedures for evaluating the uncertainty of a fluid flow rate or fluid quantity measurement. Step-by-step procedures for calculating field flowmeter measurement uncertainty are given in the Standard. The procedures and examples included show field flowmeter measurement uncertainty calculations and analysis using the "Type A and B" systems.

BSR/ASME N511-201x, In-Service Testing of Nuclear Air Treatment, Heating, Ventilating, and Air-Conditioning Systems (revision of ANSI/ASME N511-2007 (R2013))

Stakeholders: Utilities, manufacturers, designers, laboratories, consultants, and government.

Project Need: Addition of a N511 Appendix that provides guidance for using the pulse-mode testing technique for adsorber in-place testing. Also, the addition of the definition for preconditioning.

This Standard covers the requirements for in-service testing of nuclear safety-related air treatment, heating, ventilating, and air-conditioning systems in nuclear facilities.

#### **ATSIP (Association of Transportation Safety Information Professionals)**

Contact: Joan Vecchi, (614) 539-4100, [vecchijoan@yahoo.com](mailto:vecchijoan@yahoo.com)

BSR/ATSIP D.16-201x, Manual on Classification of Motor Vehicle Traffic Crashes (new standard)

Stakeholders: All persons who use crash data; includes, law enforcement, motor vehicle departments, the American Association of Motor Vehicle Administrators, injury surveillance personnel (such as EMT, emergency department, hospital inpatient, vital records, trauma registries, insurance carriers, traffic engineers, state highway traffic safety officials, federal agencies responsible for traffic and motor carrier safety, researchers and analysts).

Project Need: In order to develop meaningful crash statistics, from which countermeasures may be developed for prevention or mitigation of crash severity, it is important that the thousands of law enforcement agencies and state and local traffic engineering personnel have a standardized way of describing the roadway, persons, vehicles, and circumstances of motor vehicle crashes. This standard will provide a uniform means of classifying crashes throughout the United States, and its territories.

The Manual on Classification of Motor Vehicle Crashes covers the vehicle types, person types (whether drivers, passengers, bicyclists, pedestrians, etc.), vehicle types and configurations, roadway configurations (intersections, ramps, through lanes), and manner or classification of crash.

#### **AWEA (American Wind Energy Association)**

Contact: Michele Mihelic, (202) 383-2500, [mmihelic@awea.org](mailto:mmihelic@awea.org)

BSR/AWEA 61400-11-201x, Acoustic noise measurement techniques (identical national adoption of IEC 61400-11 Edition 3)

Stakeholders: Wind energy stakeholders, operators, owners, developers, OEMs, contractors, subcontractors, independent service providers, and all other impacted stakeholders.

Project Need: AWEA intends identically adopt IEC 61400-11.

This standard presents measurement procedures that enable noise emissions of a wind turbine to be characterized. This involves using measurement methods appropriate to noise emission assessment at locations close to the machine, in order to avoid errors due to sound propagation, but far enough away to allow for the finite source size. The procedures described are different in some respects from those that would be adopted for noise assessment in community noise studies. They are intended to facilitate characterization of wind turbine noise with respect to a range of wind speeds and directions. Standardization of measurement procedures will also facilitate comparisons between different wind turbines. The procedures present methodologies that will enable the noise emissions of a single wind turbine to be characterized in a consistent and accurate manner. These procedures include the following:

- location of acoustic measurement positions;
- requirements for the acquisition of acoustic, meteorological, and associated wind turbine operational data;
- analysis of the data obtained and the content for the data report; and
- definition of specific acoustic emission parameters, and associated descriptors which are used for making environmental assessments.

The standard is not restricted to wind turbines of a particular size or type. The procedures described in this standard allow for the thorough description of the noise emission from a wind turbine. If, in some cases, less comprehensive measurements are needed, such measurements are made according to the relevant parts of this standard.

BSR/AWEA 61400-13-201x, Measurement of mechanical loads (identical national adoption of IEC 61400-13 Edition 1)

Stakeholders: Wind energy stakeholders, operators, owners, developers, OEMs, contractors, subcontractors, independent service providers, and all other impacted stakeholders.

Project Need: AWEA intends identical adoption of IEC 61400-13.

This part of IEC 61400 deals with mechanical load measurements on wind turbines. It mainly focuses on large (>40 m<sup>2</sup>) electricity generating horizontal axis wind turbines. However, the methods described might be applicable to other wind turbines as well (for example, mechanical water pumpers, vertical axis turbines). The object of this specification is to describe the methodology and corresponding techniques for the experimental determination of the mechanical loading on wind turbines. This technical specification is intended to act as a guide for carrying out measurements used for verification of codes and/or for direct determination of the structural loading. This specification is not only intended as one coherent measurement specification but can also be used for more limited measurement campaigns.

**AWPA (ASC O5) (American Wood Protection Association)**

Contact: Colin McCown, (205) 733-4077, [mccown@awpa.com](mailto:mccown@awpa.com)

BSR O5.2-201x, Structural Glued Laminated Timber for Utility Structures (revision of ANSI O5.2-2012)

Stakeholders: Electric and communications utilities and laminated wood product manufacturers.

Project Need: General technical review and update of existing American National Standard.

This standard covers requirements for manufacturing and quality control of structural glued laminated timber of Southern Pine, Coastal Douglas-Fir, Hem-Fir and other species of similar treatability for electric power and communication structures. The requirements are based on those in American National Standard for Structural Glued Laminated Timber, ANSI/AITC A190.1. This standard is supplemental to ANSI/AITC A190.1 and provides descriptions of the special manufacturing and design requirements for glued laminated utility structures.

**DASMA (Door and Access Systems Manufacturers Association)**

Contact: Christopher Johnson, (216) 241-7333, [cjohnson@thomasamc.com](mailto:cjohnson@thomasamc.com)

- \* BSR/DASMA 102-201x, Specifications for Sectional Doors (revision of ANSI/DASMA 102-2011)

Stakeholders: Producer, user, general interest.

Project Need: Specification for sectional doors intended to cover residential and commercial doors generally used for vehicular traffic

This specification for sectional doors is intended to cover residential- and commercial-type doors normally used on garages, warehouses, factories, service stations, and other places requiring doors generally used for vehicular traffic.

- \* BSR/DASMA 108-201x, Standard Method for Testing Sectional Garage Doors and Rolling Doors: Determination of Structural Performance under Uniform Static Air Pressure Difference (revision of ANSI/DASMA 108-2012)

Stakeholders: Producer, user, general interest.

Project Need: Test chamber test method for garage-, rolling-, and flexible-door assemblies.

This test method describes the determination of the structural performance of garage-door, rolling-door, and flexible-door assemblies under uniform static air pressure difference, using a test chamber.

- \* BSR/DASMA 115-201x, Standard Method for Testing Sectional Doors, Rolling Doors, and Flexible Doors: Determination of Structural Performance under Missile Impact and Cyclic Wind Pressure (revision of ANSI/DASMA 115-2014)

Stakeholders: Producer, user, general interest.

Project Need: Defining test method for structural performance under missile impact and cyclic wind pressure.

This test method determines the structural performance of sectional doors, rolling doors, and flexible door assemblies impacted by missiles and subsequently subjected to cyclic static pressure differentials.

- \* BSR/DASMA 303-201x, Performance Criteria for Accessible Communications Entry Systems (new standard)

Stakeholders: Producer, user, general interest.

Project Need: Defining requirements for evaluating accessible communications entry systems.

This standard defines general requirements and performance-based criteria for evaluating accessible communications entry systems and is intended to cover accessible communications entry systems generally used for public pedestrian access to controlled entry buildings for intercom or assistance purposes. This standard is not intended to cover communications entry systems generally used for emergency access.

**ECIA (Electronic Components Industry Association)**

Contact: Laura Donohoe, (571) 323-0294, [ldonohoe@ecianow.org](mailto:ldonohoe@ecianow.org)

BSR/EIA 60050-192 Ed.1.0-201x, International electrotechnical vocabulary - Part 192: Dependability (identical national adoption of IEC 60050-192:2015 Ed.1.0)

Stakeholders: Electronics, electrical, and telecommunications industries.

Project Need: Adopt identical IEC standard.

This part of IEC 60050 gives the general terminology used in the field of dependability. The terms are generic and are applicable to all fields of dependability methodology, including electrotechnical applications. The document is not an exhaustive vocabulary for all IEC standards in the dependability field: definitions for some specialized terms may only be found in the relevant standards.

BSR/EIA 61703 Ed.2.0-201x, Mathematical expressions for reliability, availability, maintainability and maintenance support terms (identical national adoption of IEC 61703:2016)

Stakeholders: Electronics, electrical, and telecommunications industries.

Project Need: Adopt identical IEC standard.

This International Standard provides mathematical expressions for selected reliability, availability, maintainability, and maintenance support measures defined in IEC 60050-192:2015. In addition, it introduces some terms not covered in IEC 60050-192:2015. They are related to aspects of the system of item classes. According to IEC 60050-192:2015, dependability [192-01-22] is the ability of an item to perform as and when required and an item [192-01-01] can be an individual part, component, device, functional unit, equipment, subsystem, or system. To account for mathematical constraints, this standard splits the items between the individual items considered as a whole (e.g., individual components) and the systems made of several individual items. It provides general considerations for the mathematical expressions for systems as well as individual items but the individual items that are easier to model are analyzed in more detail with regards to their repair aspects.

#### **IIAR (International Institute of Ammonia Refrigeration)**

Contact: *Tony Lundell, (703) 312-4200, tony\_lundell@iiar.org*

BSR/IIAR 1-201x, Definitions and Terminology Used in IIAR Standards (revision of ANSI/IIAR 1-2012)

Stakeholders: Designer/installer, manufacturer, owner/operator, general.

Project Need: This standard is open for full review and revision as needed by consensus for periodic maintenance essential requirements.

Please note that due to an administrative error, a BSR-8 for IIAR 1 is also published in this 3/24/17 issue of Standards Action. This standard provides a unified set of definitions for use in the IIAR Standards. A set of common definitions is provided to prevent confusion for those that use IIAR Standards. It is a companion to ANSI/IIAR Standards.

BSR/IIAR 3-201x, Ammonia Refrigeration Valves (revision of ANSI/IIAR 3-2012)

Stakeholders: Designer/installer, manufacturer, owner/operator, general.

Project Need: This standard is open for full review and revision as needed by consensus for periodic maintenance essential requirements.

Please note that due to an administrative error, a BSR-8 for IIAR 3 is also published in this 3/24/17 issue of Standards Action. The purpose of this standard is to specify performance criteria for valves and strainers used in closed-circuit ammonia refrigeration systems.

#### **NASPO (North American Security Products Organization)**

Contact: *Michael O'Neil, (612) 281-7141, mikeo@naspo.info*

BSR/NASPO-IDV-201x, Standards for the Verification of Personal Identity (new standard)

Stakeholders: Issuers of primary identity documents, relying parties, and citizens.

Project Need: The need to create this standard was an outcome of the the ANSI/IDSP workshop on identity verification.

An American National Standard and implementation guidelines for identity proofing processes, verification processes, and requirements for information to be used in support of identity establishment for end users and relying parties.

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

Contact: *Michael Erbesfeld, 703-841-3262, Michael.Erbesfeld@nema.org*

ANSI C78.379a-1997 (R2011), Standard for Electric Lamps: MR and PAR Beam Designation and Tolerance (withdrawal of ANSI C78.379a-1997 (R2011))

Stakeholders: Manufacturers, designers, testing labs, and end users.

Project Need: This project is needed to withdraw the standard.

This standard is intended to cover MR and PAR Beam Designation and Tolerance.

#### **NENA (National Emergency Number Association)**

Contact: *Roger Hixson, (202) 618-4405, rhixson@nena.org*

BSR/NENA-STA-016.1-201X, NENA Standard for Department of Defense Notifications (new standard)

Stakeholders: US Department of Defense (including various commands, entities, and related offices); NASNA; All PSAPs; vendors of call-taking protocols; GIS providers; CAD Vendors; entities and organizations that provide 9-1-1 training.

Project Need: To date, US PSAPs have no centralized number for notification of events that involve military personnel or facilities. This policy will follow the proven history of NENA efforts on events involving aircraft emergencies, pipelines, and railroads to ensure they have the ability to provide critical information to the Department of Defense as required and in regards to specific event types and dependencies.

The scope of this effort will involve completing an ANSI-approved NENA Standard on 9-1-1/PSAP Notifications to DoD for selected criteria/events. This standard will improve the cooperation/collaboration between US Military and Civilian PSAPs and enhance the safety and security of Military Personnel and facilities, as well as the general public. To assist in the development of this Standard, please complete the volunteer form at <http://www.nena.org/?page=DODNotifications>.

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

Contact: *Kim Cooney, (800) 542-5040, kcooney@scte.org*

BSR/SCTE DVS 1262-201x, Content Metadata (new standard)

Stakeholders: Cable Telecommunications industry.

Project Need: Create new standard.

This standard describes the grammar needed to represent information pertinent to the distribution, presentation and consumption of multimedia content. In a normal use case, the metadata originates from a provider and is distributed to operators.

**TNI (The NELAC Institute)**

Contact: *Ken Jackson, (518) 899-9697, ken.jackson@nelac-institute.org*

BSR/TNI EL-V1M4-201x, Management and Technical Requirements for Laboratories performing Environmental Analysis, Module 4: Quality Systems for Chemical Testing (revision and redesignation of ANSI/TNI EL-V4-2016)

Stakeholders: Governmental and non-governmental accreditation bodies, environmental laboratories.

Project Need: The major user of the current standard has requested further modifications.

Volume 1, Module 4 of the current standard (Quality Systems for Chemical Testing) will be modified to meet the needs of the major user. The modified sections will be limited to 1.5.2.1.1; 1.5.2.1.3; 1.5.2.2; 1.5.2.2.1; and 1.5.2.2.2.

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

Contact: *Vickie Hinton, (919) 549-1851, Vickie.T.Hinton@ul.com*

BSR/UL 80079-20-2-201X, Standard for Safety for Explosive Atmospheres - Part 20-2: Material Characteristics - Combustible Dusts Test Methods (identical national adoption of ISO/IEC 80079-20-2)

Stakeholders: Manufacturers, regulatory bodies, and users.

Project Need: UL is seeking ANSI approval on a new standard, UL 80079-20-2, which will be a national adoption of ISO 80079-20-2.

This part of ISO/IEC 80079 describes the test methods for the identification of combustible dust and combustible dust layers in order to permit classification of areas where such materials exist for the purpose of the proper selection and installation of electrical and mechanical equipment for use in the presence of combustible dust.

# 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).

## AAMI

Association for the Advancement of  
Medical Instrumentation

4301 N Fairfax Drive  
Suite 301  
Arlington, VA 22203-1633  
Phone: (703) 253-8274  
Fax: (703) 276-0793  
Web: [www.aami.org](http://www.aami.org)

## AARST

American Association of Radon  
Scientists and Technologists

475 South Church Street, Suite 600  
Hendersonville, NC 28792  
Phone: (202) 830-1110  
Fax: (913) 780-2090  
Web: [www.aarst.org](http://www.aarst.org)

## ABYC

American Boat and Yacht Council

613 Third Street, Suite 10  
Annapolis, MD 21403  
Phone: (410) 990-4460  
Web: [www.abycinc.org](http://www.abycinc.org)

## APA

APA - The Engineered Wood  
Association

7011 South 19th Street  
Tacoma, WA 98466  
Phone: (253) 620-7467  
Fax: (253) 565-7265  
Web: [www.apawood.org](http://www.apawood.org)

## API

American Petroleum Institute

1220 L Street, NW  
Washington, DC 20005-4070  
Phone: (202) 682-8151  
Fax: (202) 682-4797  
Web: [www.api.org](http://www.api.org)

## ASABE

American Society of Agricultural and  
Biological Engineers

2950 Niles Road  
St Joseph, MI 49085  
Phone: (269) 932-7015  
Fax: (269) 429-3852  
Web: [www.asabe.org](http://www.asabe.org)

## ASHRAE

American Society of Heating,  
Refrigerating and Air-Conditioning  
Engineers, Inc.

1791 Tullie Circle NE  
Atlanta, GA 30329  
Phone: (678) 539-1209  
Fax: (678) 539-2209  
Web: [www.ashrae.org](http://www.ashrae.org)

## ASME

American Society of Mechanical  
Engineers

Two Park Avenue  
New York, NY 10016  
Phone: (212) 591-8521  
Fax: (212) 591-8501  
Web: [www.asme.org](http://www.asme.org)

## ASPE

American Society of Plumbing  
Engineers

6400 Shafer Court  
Suite 350  
Rosemont, IL 60018  
Phone: (847) 296-0002  
Fax: (847) 296-2963  
Web: [www.aspe.org](http://www.aspe.org)

## ASTM

ASTM International

100 Barr Harbor Drive  
West Conshohocken, PA 19428-2959  
Phone: (610) 832-9744  
Fax: (610) 834-3683  
Web: [www.astm.org](http://www.astm.org)

## ATIS

Alliance for Telecommunications  
Industry Solutions

1200 G Street NW  
Suite 500  
Washington, DC 20005  
Phone: (202) 434-8840  
Web: [www.atis.org](http://www.atis.org)

## ATSIP

Association of Transportation Safety  
Information Professionals

1213 Stringtown Road  
Grove City, OH 43123-8910  
Phone: (614) 539-4100  
Web: [www.atsip.org](http://www.atsip.org)

## AWEA

American Wind Energy Association

1501 M Street, NW,  
Suite 1000  
Washington, DC 20005  
Phone: (202) 383-2500  
Web: [www.awea.org](http://www.awea.org)

## AWPA (ASC O5)

American Wood Protection  
Association

P.O. Box 361784  
Birmingham, AL 35236-1784  
Phone: (205) 733-4077  
Fax: (205) 733-4075  
Web: [www.awpa.com](http://www.awpa.com)

## AWS

American Welding Society

8669 NW 36th Street  
Suite #130  
Miami, FL 33166-6672  
Phone: (800) 443-9353  
Fax: (305) 443-5951  
Web: [www.aws.org](http://www.aws.org)

## DASMA

Door and Access Systems  
Manufacturers Association

1300 Sumner Avenue  
Cleveland, OH 44115-2851  
Phone: (216) 241-7333  
Fax: (216) 241-0105

## ECIA

Electronic Components Industry  
Association

2214 Rock Hill Road  
Suite 265  
Herndon, VA 20170-4212  
Phone: (571) 323-0294  
Fax: (571) 323-0245  
Web: [www.ecianow.org](http://www.ecianow.org)

## ESTA

Entertainment Services and  
Technology Association

630 Ninth Avenue  
Suite 609  
New York, NY 10036-3748  
Phone: (212) 244-1505  
Fax: (212) 244-1502  
Web: [www.esta.org](http://www.esta.org)

## IEEE

Institute of Electrical and Electronics  
Engineers (IEEE)

445 Hoes Lane  
Piscataway, NJ 08854  
Phone: (732) 562-3854  
Fax: (732) 796-6966  
Web: [www.ieee.org](http://www.ieee.org)

## IAR

International Institute of Ammonia  
Refrigeration

1001 North Fairfax Street  
Alexandria, VA 22314  
Phone: (703) 312-4200  
Fax: (703) 312-0065  
Web: [www.iar.org](http://www.iar.org)

## IIIRC

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: [www.thecleantrust.org](http://www.thecleantrust.org)

## NASPO

North American Security Products  
Organization

1300 I Street  
Washington, DC 20005  
Phone: (612) 281-7141  
Web: [www.naspo.info](http://www.naspo.info)

## NEMA (ASC C78)

National Electrical Manufacturers  
Association

1300 N 17th St  
Rosslyn, VA 22209  
Phone: 703-841-3262  
Web: [www.nema.org](http://www.nema.org)

## NEMA (ASC C82)

National Electrical Manufacturers  
Association

1300 N 17th St  
Rosslyn, VA 22209  
Phone: 703-841-3262  
Fax: 703-841-3362  
Web: [www.nema.org](http://www.nema.org)

## NENA

National Emergency Number  
Association

1700 Diagonal Road  
Suite 500  
Alexandria, VA 22314  
Phone: (202) 618-4405  
Web: [www.nena.org](http://www.nena.org)

## NSF

NSF International

789 N. Dixboro Road  
Ann Arbor, MI 48105-9723  
Phone: (734) 827-5643  
Fax: (734) 827-7880  
Web: [www.nsf.org](http://www.nsf.org)

## OEOSC (ASC OP)

Optics and Electro-Optics Standards  
Council

c/o Triptar Lens Company, Inc.  
439 Monroe Avenue  
Rochester, NY 14607  
Phone: (585) 473-4470  
Web: [www.optstd.org](http://www.optstd.org)

**SAIA (ASC A92)**

Scaffold & Access Industry Association  
400 Admiral Boulevard  
Kansas City, MO 64106  
Phone: (816) 595-4860  
Web: [www.saiaonline.org](http://www.saiaonline.org)

**SCTE**

Society of Cable Telecommunications  
Engineers  
140 Philips Rd  
Exton, PA 19341  
Phone: (800) 542-5040  
Fax: (800) 542-5040  
Web: [www.scte.org](http://www.scte.org)

**TNI**

The NELAC Institute  
PO Box 2439  
Weatherford, TX 76086  
Phone: (518) 899-9697  
Fax: (817) 598-1177  
Web: [www.NELAC-Institute.org](http://www.NELAC-Institute.org)

**UL**

Underwriters Laboratories, Inc.  
12 Laboratory Drive  
Research Triangle Park, NC 27709  
-3995  
Phone: (919) 549-1851  
Web: [www.ul.com](http://www.ul.com)





# 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 19971, Space systems - Spacecraft and launch vehicle combined operation plan (COP) at launch site - General format - 4/5/2017, \$77.00

ISO/DIS 20780, Space systems - Fiber optic components - Design and verification requirements - 4/5/2017, \$77.00

ISO/DIS 8625-1, Aerospace - Fluid systems - Vocabulary - Part 1: General terms and definitions related to pressure - 4/9/2017, \$53.00

### DENTISTRY (TC 106)

ISO 9687/DAmD1, Dentistry - Graphical symbols for dental equipment - Amendment 1 - 4/9/2017, \$29.00

### FURNITURE (TC 136)

ISO/DIS 19833, Furniture - Beds - Test methods for the determination of strength and durability - 4/4/2017, \$88.00

### GAS CYLINDERS (TC 58)

ISO/DIS 10298, Gas cylinders - Gases and gas mixtures - Determination of toxicity for the selection of cylinder valve outlets - 4/7/2017, \$62.00

### GEOGRAPHIC INFORMATION/GEOMATICS (TC 211)

ISO/DIS 19130-1, Geographic information - Imagery sensor models for geopositioning - Part 1: Fundamentals - 4/6/2017, \$185.00

### IMPLANTS FOR SURGERY (TC 150)

ISO/DIS 14242-4, Implants for surgery - Wear of total hip-joint prostheses - Part 4: Testing hip prostheses under variations in component positioning which results in direct edge loading: variation in cup inclination and medial-lateral centres offset - 6/7/2017, \$62.00

### INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)

ISO/DIS 18828-4, Industrial automation systems and integration - Standardized procedures for production systems engineering - Part 4: Key performance indicators (KPIs) in production planning processes - 6/4/2017, \$107.00

### INTERNAL COMBUSTION ENGINES (TC 70)

ISO/DIS 8528-5, Reciprocating internal combustion engine driven alternating current generating sets - Part 5: Generating sets - 6/8/2017, \$119.00

### LIFTS, ESCALATORS, PASSENGER CONVEYORS (TC 178)

ISO/DIS 8100-1, Safety rules for the construction and installation of lifts - Lifts for the transport of persons and goods - Part 1: Passenger and goods passenger lifts - 6/1/2017, \$185.00

ISO/DIS 8100-2, Safety rules for the construction and installation of lifts - Lifts for the transport of persons and goods - Part 2: Design rules, calculations, examinations and tests of lift components - 6/1/2017, \$155.00

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

ISO/DIS 15590-1, Petroleum and natural gas industries - Induction bends, fittings and flanges for pipeline transportation systems - Part 1: Induction bends - 6/3/2017, \$102.00

ISO/DIS 21809-1, Petroleum and natural gas industries - External coatings for buried or submerged pipelines used in pipeline transportation systems - Part 1: Polyolefin coatings (3-layer PE and 3-layer PP) - 6/7/2017, \$134.00

### NUCLEAR ENERGY (TC 85)

ISO/DIS 18075, Steady-State neutronics methods for power-reactor analysis - 4/9/2017, \$82.00

ISO/DIS 18077, Reload startup physics tests for pressurized water reactors - 4/9/2017, \$107.00

### OPTICS AND OPTICAL INSTRUMENTS (TC 172)

ISO 16671/DAmD1, Ophthalmic implants - Irrigating solutions for ophthalmic surgery - Amendment 1 - 4/7/2017, \$33.00

### PLASTICS (TC 61)

ISO/DIS 20753, Plastics - Test specimens - 6/3/2017, \$71.00

### PLASTICS PIPES, FITTINGS AND VALVES FOR THE TRANSPORT OF FLUIDS (TC 138)

ISO/DIS 13259, Thermoplastics piping systems for underground non-pressure applications - Test method for leaktightness of elastomeric sealing ring type joints - 6/8/2017, \$58.00

**ROAD VEHICLES (TC 22)**

- ISO/DIS 12098, Road vehicles - Connectors for the electrical connection of towing and towed vehicles - 15-pole connector for vehicles with 24 V nominal supply voltage - 4/7/2017, \$58.00
- ISO/DIS 25981, Road vehicles - Connectors for the electrical connection of towing and towed vehicles - Connectors for electronically monitored charging systems with 12 V or 24 V nominal supply voltage - 4/7/2017, \$58.00
- ISO/DIS 18541-5, Road vehicles - Standardized access to automotive repair and maintenance information (RMI) - Part 5: Heavy duty specific provision - 6/8/2017, \$125.00
- ISO/DIS 19453-1, Road vehicles - Environmental conditions and testing for electrical and electronic equipment for drive system of electric propulsion vehicles - Part 1: General - 4/7/2017, \$58.00
- ISO/DIS 19453-3, Road vehicles - Environmental conditions and testing for electrical and electronic equipment for drive system of electric propulsion vehicles - Part 3: Mechanical loads - 4/7/2017, \$112.00
- ISO/DIS 19453-4, Road vehicles - Environmental conditions and testing for electrical and electronic equipment for drive system of electric propulsion vehicles - Part 4: Climatic loads - 4/7/2017, \$107.00
- ISO/DIS 19453-5, Road vehicles - Environmental conditions and testing for electrical and electronic equipment for drive system of electric propulsion vehicles - Part 5: Chemical loads - 4/7/2017, \$46.00

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

- ISO/DIS 2781, Rubber, vulcanized or thermoplastic - Determination of density - 4/7/2017, \$53.00
- ISO/DIS 20163, Vulcanized rubber - Determination of free sulfur by gas chromatography (GC) and high performance liquid chromatography (HPLC) - 5/10/2017, \$62.00
- ISO/DIS 6502-1, Rubber - Measurement of vulcanization characteristics using curemeters - Part 1: Introduction - 6/8/2017, \$62.00
- ISO/DIS 6502-2, Rubber - Measurement of vulcanization characteristics using curemeters - Part 2: Oscillating disc curemeter - 6/8/2017, \$58.00
- ISO/DIS 6502-3, Rubber - Measurement of vulcanization characteristics using curemeters - Part 3: Rotorless curemeter - 6/8/2017, \$77.00

**SMALL TOOLS (TC 29)**

- ISO/DIS 6787, Assembly tools for screws and nuts - Adjustable wrenches - 6/4/2017, \$40.00

**STEEL (TC 17)**

- ISO/DIS 9364, Steel sheet, 55 % aluminium-zinc alloy-coated by the continuous hot-dip process, of commercial, drawing and structural qualities - 4/6/2017, \$67.00
- ISO/DIS 14788, Steel sheet, zinc-5 % aluminium alloy-coated by the continuous hot-dip process, of commercial, drawing and structural qualities - 4/7/2017, \$77.00
- ISO/DIS 20805, Hot-rolled steel sheet in coils of higher yield strength with improved formability and heavy thickness for cold forming - 4/4/2017, \$58.00

**STERILIZATION OF HEALTH CARE PRODUCTS (TC 198)**

- ISO/DIS 13408-2, Aseptic processing of health care products - Part 2: Sterilizing filtration - 4/7/2017, \$102.00

**TIMBER STRUCTURES (TC 165)**

- ISO/DIS 19624, Bamboo structures - grading of bamboo culms - Basic principles and procedures - 6/8/2017, \$82.00

ISO/DIS 12122-5, Timber structures - Determination of characteristic values - Part 5: Mechanical connections - 5/11/2017, \$58.00

ISO/DIS 22157-1, Bamboo structures - Determination of physical and mechanical properties of bamboo culms - Part 1: Test methods - 6/8/2017, \$77.00

**TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)**

ISO/DIS 9518, Forestry machinery - Portable chain-saws - Kickback test - 4/6/2017, \$125.00

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

ISO/DIS 2553, Welding and allied processes - Symbolic representation on drawings - Welded joints - 4/6/2017, \$125.00

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

ISO/IEC 30134-1/DAMd1, Information technology - Data centres - Key performance indicators - Part 1: Overview and general requirements - Amendment 1 - 4/5/2017, \$29.00

**IEC Standards**

- 9/2243/CDV, IEC 62973-1 ED1: Railway applications - Batteries for auxiliary power supply systems - Part 1: General requirements, 017/5/5/
- 11/253/CD, IEC 61897 ED2: Overhead lines - Requirements and tests for Aeolian vibration dampers, 017/5/5/
- 11/254/CD, IEC 61854 ED2: Overhead lines - Requirements and tests for spacers, 017/5/5/
- 20/1708A/FDIS, IEC 62895 ED1: High Voltage Direct Current (HVDC) power transmission cables with extruded insulation and their accessories for rated voltages up to 320 kV for land applications - Test methods and requirements, 2017/3/24
- 20/1709/CD, IEC 60811-501/AMD1 ED1: Amendment 1 - Electric and optical fibre cables - Test methods for non-metallic materials - Part 501: Mechanical tests - Tests for determining the mechanical properties of insulating and sheathing compounds, 017/4/7/
- 23B/1242/FDIS, IEC 60884-2-5 ED2: Plugs and socket-outlets for household and similar purposes - Part 2-5: Particular requirements for adaptors, 2017/3/24
- 34B/1894/FDIS, IEC 60061-1/AMD56 ED3: Amendment 56 - Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 1: Lamps Caps, 2017/3/24
- 34B/1895/FDIS, IEC 60061-2/AMD52 ED3: Amendment 52 - Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 2: Holders, 2017/3/24
- 34B/1896/FDIS, IEC 60061-3/AMD53 ED3: Amendment 53 - Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 3: Gauges, 2017/3/24
- 34B/1897/FDIS, IEC 60061-4/AMD15 ED1: Amendment 15 - Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 4: Guidelines and general information, 2017/3/24
- 48B/2554/FDIS, IEC 61076-3-122 ED1: Connectors for electronic equipment - Product requirements - Part 3-122: Detail specification for 8-way, shielded, free and fixed connectors for I/O and Gigabit Ethernet applications in harsh environments, 2017/3/24
- 48B/2556/CD, IEC 60512-1 ED5: Connectors for electronic equipment - Tests and measurements - Part 1: General, 017/4/7/
- 48B/2559/CD, IEC 60512-23-3 ED2: Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 23-3: Test 23c: Shielding effectiveness of connectors and accessories, 017/5/5/

- 55/1602/FDIS, IEC 60317-70 ED1: Specifications for particular types of winding wires - Part 70: Polyester glass-fibre wound fused, unvarnished or resin or varnish impregnated, bare or enamelled round copper wire, temperature index 155, 2017/3/24
- 55/1603/FDIS, IEC 60317-71 ED1: Specifications for particular types of winding wires - Part 71: Polyester glass-fibre wound fused and resin or varnish impregnated, bare or enamelled round copper wire, temperature index 180, 2017/3/24
- 55/1604/FDIS, IEC 60317-72 ED1: Specifications for particular types of winding wires - Part 72: Polyester glass-fibre wound fused, silicone resin or varnish impregnated, bare or enamelled round copper wire, temperature index 200, 2017/3/24
- 55/1601/FDIS, IEC 60317-0-10 ED1: Specifications for particular types of winding wires - Part 0-10: General requirements - Polyester glass-fibre wound fused, unvarnished, or resin or varnish impregnated, bare or enamelled round copper wire, 2017/3/24
- 56/1728/CD, IEC 62960 ED1: Dependability reviews during the life cycle, 017/4/7/
- 61/5364/FDIS, IEC 60335-2-50/AMD2 ED4: Amendment 2 - Household and similar electrical appliances - Safety - Part 2-50: Particular requirements for commercial electric bains-marie, 2017/3/24
- 61/5366/FDIS, IEC 60335-2-99/AMD1 ED1: Amendment 1 - Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods, 2017/3/24
- 61/5363/FDIS, IEC 60335-2-49/AMD2 ED4: Amendment 2 - Household and similar electrical appliances - Safety - Part 2-49: Particular requirements for commercial electric appliances for keeping food and crockery warm, 2017/3/24
- 61/5365/FDIS, IEC 60335-2-64/AMD2 ED3: Amendment 2 - Household and similar electrical appliances - Safety - Part 2-64: Particular requirements for commercial electric kitchen machines, 2017/3/24
- 62B/1040/FDIS, IEC 60601-2-28 ED3: Medical electrical equipment - Part 2-28: Particular requirements for the basic safety and essential performance of X-ray tube assemblies for medical diagnosis, 2017/3/24
- 62B/1041/NP, PNW 62B-1041: Evaluation and routine testing in medical imaging department - Part 3-6 Acceptance and Constancy tests - Imaging performance of mammographic tomosynthesis mode of operation of mammographic X-ray equipment, 017/5/5/
- 62C/683A/CD, IEC TR 62926 ED1: Medical electrical system - Recommendations for safe integration and operation of adaptive external-beam radiotherapy system for intra-fractionally moving target volumes, 2017/3/31
- 69/495/CD, IEC 61851-23-1 ED1: Electric vehicle conductive charging system - Part 23-1: DC Charging with an automatic connection system, 017/5/5/
- 79/570/CDV, IEC 62676-5 ED1: Video surveillance systems for use in security applications - Part 5: Data specifications and image quality performance for camera devices, 017/5/5/
- 82/1252/DC, Proposed revision of IEC 62446-1:2016 Ed.1, Photovoltaic (PV) systems - Requirements for testing, documentation and maintenance - Part 1: Grid connected systems - Documentation, commissioning tests and inspection, 017/4/7/
- 82/1253/NP, PNW TS 82-1253: Photovoltaic systems - Power conditioners - Part X: Energy evaluation method, 017/5/5/
- 82/1232/CDV, IEC 62892-1 ED1: Testing of PV modules to differentiate performance in multiple climates and applications - Part 1: Requirements for testing, 017/5/5/
- 87/650/FDIS, IEC 61391-1/AMD1 ED1: Amendment 1 - Ultrasonics - Pulse-echo scanners - Part 1: Techniques for calibrating spatial measurement systems and measurement of point-spread function response, 2017/3/24
- 91/1419/CDV, IEC 61760-4/AMD1 ED1: Surface mounting technology - Part 4: Classification, packaging, labelling and handling of moisture sensitive devices, 017/5/5/
- 107/298/DTR, IEC TR 62396-6 ED1: Process management for avionics - Atmospheric radiation effects - Part 6: Extreme space weather and potential impact on the avionics environment and electronics, 017/4/7/
- 116/316/FDIS, IEC 62841-2-21 ED1: Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-21: Particular requirements for hand-held drain cleaners, 2017/3/24



# 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

### AGRICULTURAL FOOD PRODUCTS (TC 34)

[ISO 6887-1:2017](#), Microbiology of the food chain - Preparation of test samples, initial suspension and decimal dilutions for microbiological examination - Part 1: General rules for the preparation of the initial suspension and decimal dilutions, \$138.00

[ISO 6887-2:2017](#), Microbiology of the food chain - Preparation of test samples, initial suspension and decimal dilutions for microbiological examination - Part 2: Specific rules for the preparation of meat and meat products, \$68.00

[ISO 6887-3:2017](#), Microbiology of the food chain - Preparation of test samples, initial suspension and decimal dilutions for microbiological examination - Part 3: Specific rules for the preparation of fish and fishery products, \$103.00

[ISO 6887-4:2017](#), Microbiology of the food chain - Preparation of test samples, initial suspension and decimal dilutions for microbiological examination - Part 4: Specific rules for the preparation of miscellaneous products, \$103.00

### ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

[ISO 18562-1:2017](#), Biocompatibility evaluation of breathing gas pathways in healthcare applications - Part 1: Evaluation and testing within a risk management process, \$138.00

[ISO 18562-2:2017](#), Biocompatibility evaluation of breathing gas pathways in healthcare applications - Part 2: Tests for emissions of particulate matter, \$103.00

[ISO 18562-3:2017](#), Biocompatibility evaluation of breathing gas pathways in healthcare applications - Part 3: Tests for emissions of volatile organic compounds (VOCs), \$68.00

[ISO 18562-4:2017](#), Biocompatibility evaluation of breathing gas pathways in healthcare applications - Part 4: Tests for leachables in condensate, \$68.00

[ISO 80601-2-56:2017](#), Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement, \$185.00

### CORROSION OF METALS AND ALLOYS (TC 156)

[ISO 9227:2017](#), Corrosion tests in artificial atmospheres - Salt spray tests, \$103.00

### COSMETICS (TC 217)

[ISO 29621:2017](#), Cosmetics - Microbiology - Guidelines for the risk assessment and identification of microbiologically low-risk products, \$68.00

### DENTISTRY (TC 106)

[ISO 20749:2017](#), Dentistry - Pre-capsulated dental amalgam, \$162.00

### FERTILIZERS AND SOIL CONDITIONERS (TC 134)

[ISO 19670:2017](#), Fertilizers and soil conditioners - Solid urea aldehyde slow release fertilizer - General requirements, \$68.00

### MACHINE TOOLS (TC 39)

[ISO 16093:2017](#), Machine tools - Safety - Sawing machines for cold metal, \$209.00

### NON-DESTRUCTIVE TESTING (TC 135)

[ISO 20669:2017](#), Non-destructive testing - Pulsed eddy current testing of ferromagnetic metallic components, \$103.00

### NUCLEAR ENERGY (TC 85)

[ISO 18417:2017](#), Iodine charcoal sorbents for nuclear facilities - Method for defining sorption capacity index, \$138.00

### PETROLEUM PRODUCTS AND LUBRICANTS (TC 28)

[ISO 6246:2017](#), Petroleum products - Gum content of fuels - Jet evaporation method, \$68.00

[ISO 8217:2017](#), Petroleum products - Fuels (class F) - Specifications of marine fuels, \$138.00

### PULLEYS AND BELTS (INCLUDING VEEBELTS) (TC 41)

[ISO 15236-3:2017](#), Steel cord conveyor belts - Part 3: Special safety requirements for belts for use in underground installations, \$103.00

### ROBOTS AND ROBOTIC DEVICES (TC 299)

[ISO 19649:2017](#), Mobile robots - Vocabulary, \$45.00

### RUBBER AND RUBBER PRODUCTS (TC 45)

[ISO 23233/Amd1:2017](#), Rubber, vulcanized or thermoplastic - Determination of resistance to abrasion using a driven, vertical abrasive disc - Amendment 1, \$19.00

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

[ISO 13715:2017](#), Technical product documentation - Edges of undefined shape - Indication and dimensioning, \$138.00

### WELDING AND ALLIED PROCESSES (TC 44)

[ISO 18276:2017](#), Welding consumables - Tubular cored electrodes for gas-shielded and non-gas-shielded metal arc welding of high strength steels - Classification, \$138.00

## ISO Technical Reports

### ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

[ISO/TR 13154:2017](#), Medical electrical equipment - Deployment, implementation and operational guidelines for identifying febrile humans using a screening thermograph, \$138.00

## ISO/IEC JTC 1, Information Technology

### OTHER

[ISO/IEC 80079-20-2/Cor1:2017](#), Explosive atmospheres - Part 20-2: Material characteristics - Combustible dusts test methods - Corrigendum, FREE

[ISO/IEC 17021-3:2017](#), Conformity assessment - Requirements for bodies providing audit and certification of management systems - Part 3: Competence requirements for auditing and certification of quality management systems, \$45.00

## IEC Standards

### AUDIO, VIDEO AND MULTIMEDIA SYSTEMS AND EQUIPMENT (TC 100)

[IEC 61909 Ed. 1.0 en:2000](#), Audio recording - Minidisc system, \$410.00

### ELECTRICAL INSTALLATIONS OF BUILDINGS (TC 64)

[IEC 60364-4-41 Ed. 5.1 b:2017](#), Low voltage electrical installations - Part 4-41: Protection for safety - Protection against electric shock, \$586.00

[IEC 60364-4-41 Amd.1 Ed. 5.0 b:2017](#), Amendment 1 - Low voltage electrical installations - Part 4-41: Protection for safety - Protection against electric shock, \$82.00

### ELECTROACOUSTICS (TC 29)

[IEC 60645-1 Ed. 4.0 b:2017](#), Electroacoustics - Audiometric equipment - Part 1: Equipment for pure-tone and speech audiometry, \$281.00

[S+ IEC 60645-1 Ed. 4.0 en:2017 \(Redline version\)](#), Electroacoustics - Audiometric equipment - Part 1: Equipment for pure-tone and speech audiometry, \$366.00

### EVALUATION AND QUALIFICATION OF ELECTRICAL INSULATING MATERIALS AND SYSTEMS (TC 112)

[IEC 60505 Ed. 4.0 b cor.1:2017](#), Corrigendum 1 - Evaluation and qualification of electrical insulation systems, \$0.00

## IEC Technical Reports

### SURFACE MOUNTING TECHNOLOGY (TC 91)

[IEC/TR 61189-3-914 Ed. 1.0 en:2017](#), Test methods for electrical materials, printed boards and other interconnection structures and assemblies - Part 3-914: Test method for thermal conductivity of printed circuit boards for high-brightness LEDs - Guidelines, \$164.00

## IEC Technical Specifications

### ELECTRICAL APPARATUS FOR EXPLOSIVE ATMOSPHERES (TC 31)

[IEC/TS 60079-32-1 Amd.1 Ed. 1.0 en:2017](#), Amendment 1 - Explosive atmospheres - Part 32-1: Electrostatic hazards, guidance, \$23.00

[IEC/TS 60079-32-1 Ed. 1.1 en:2017](#), Explosive atmospheres - Part 32-1: Electrostatic hazards, guidance, \$586.00

# 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 notified 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 notify proposed technical regulations that may significantly affect trade to the WTO Secretariat in Geneva, Switzerland. In turn, the Secretariat issues and makes available these notifications. The purpose of the notification requirement is to provide global trading partners with an opportunity to review and comment on the regulations before they become final.

The USA Inquiry Point for the WTO TBT Agreement is located at the National Institute of Standards and Technology (NIST) in the Standards Coordination Office (SCO). The Inquiry Point distributes the notified proposed foreign technical regulations (notifications) and makes the associated full-texts available to U.S. stakeholders via its online service, Notify U.S. Interested U.S. parties can register with Notify U.S. to receive e-mail alerts when notifications are added from countries and industry sectors of interest to them.

To register for Notify U.S., please visit <http://www.nist.gov/notifyus/>.

The USA WTO TBT Inquiry Point is the official channel for distributing U.S. comments to the network of WTO TBT Enquiry Points around the world. U.S. business contacts interested in commenting on the notifications are asked to review the comment guidance available on Notify U.S. at <https://tsapps.nist.gov/notifyus/data/guidance/guidance.cfm> prior to submitting comments.

For further information about the USA TBT Inquiry Point, please visit: <https://www.nist.gov/standardsgov/what-we-do/trade-regulatory-programs/usa-wto-tbt-inquiry-point>

Contact the USA TBT Inquiry Point at:(301) 975-2918; Fax: (301) 926-1559; E-mail: [usatbtep@nist.gov](mailto:usatbtep@nist.gov) or [notifyus@nist.gov](mailto:notifyus@nist.gov).

# Information Concerning

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## American National Standards

### Call for Members

#### 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 oversight of its 40+ Technical Committees. Additionally, the INCITS Executive Board has the international leadership role as the US Technical Advisory Group (TAG) to ISO/IEC JTC 1, Information Technology.

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, contact Jennifer Garner at [jgarner@itic.org](mailto:jgarner@itic.org) or visit <http://www.incits.org/participation/membership-info> for more information.

Membership in all interest categories is always welcome; however, the INCITS Executive Board seeks to broaden its membership base in the following categories:

- Service Providers
- Users
- Standards Development Organizations and Consortia
- Academic Institutions

### 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).

## ANSI Accredited Standards Developers

### Approval of Accreditation as an ANSI ASD

#### Commission on Accreditation of Medical Transport Systems (CAMTS)

ANSI's Executive Standards Council has approved the Commission on Accreditation of Medical Transport Systems (CAMTS), an ANSI member since 2014, as an ANSI Accredited Standards Developer (ASD) under its proposed operating procedures for documenting consensus on CAMTS-sponsored American National Standards, effective March 21, 2017. For additional information, please contact: Mr. Dudley Smith, Associate Executive Director, CAMTS, P.O. Box 130, Sandy Springs, SC 29677; phone: 864.287.4177; e-mail: [dudley.smith@camts.org](mailto:dudley.smith@camts.org).

### Approvals of Reaccreditation

#### ASC C37 – Power Switchgear

The reaccreditation of Accredited Standards Committee C37, Power Switchgear, has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on ASC C37-sponsored American National Standards, effective March 22, 2017. For additional information, please contact the Secretariat of ASC C37: Mr. Gary MacFadden, Technical Program Manager, NEMA, 1700 N. 17th Street, Suite 900, Rosslyn, VA 22209; phone: 703.841.3253; e-mail: [Gary.MacFadden@NEMA.org](mailto:Gary.MacFadden@NEMA.org).

#### Georgia Tech Energy and Sustainability Services (GTESS)

The reaccreditation of Georgia Tech Energy and Sustainability Services (GTESS), an ANSI Member and Accredited Standards Developer, has been approved at the direction of ANSI's Executive Standards Council, under its revised GTESS Due Process and Procedural Compliance Policy (part of its accredited operating procedures for documenting consensus on GTESS-sponsored American National Standards), effective March 22, 2017. For additional information, please contact: Ms. Holly Grell-Lawe, Principal Research Associate, Energy & Sustainability Services, Enterprise Innovation Institute, Georgia Institute of Technology, 75 Fifth Street NW, Suite 300, Atlanta, GA 30332-0640; phone: 404.558.5948; e-mail: [holly.lawe@innovate.gatech.edu](mailto:holly.lawe@innovate.gatech.edu).

#### Institute of Environmental Sciences and Technology (IEST)

The reaccreditation of the Institute of Environmental Sciences and Technology (IEST), an ANSI Member and Accredited Standards Developer, has been approved at the direction of ANSI's Executive Standards Council under its revised operating procedures for documenting consensus on IEST-sponsored American National Standards, effective March 17, 2017. For additional information, please contact: Ms. Jennifer Sklena, Technical Program Manager, IEST, 2430 S. Arlington Heights Road, Suite 620, Arlington Heights, IL 60005; phone: 847.981.0100; e-mail: [jsklena@iest.org](mailto:jsklena@iest.org).

## Precast/Prestressed Concrete Institute (PCI)

The reaccreditation of the Precast/Prestressed Concrete Institute (PCI), an ANSI Member and Accredited Standards Developer, has been approved at the direction of ANSI's Executive Standards Council, under its revised operating procedures for documenting consensus on PCI-sponsored American National Standards), effective March 22, 2017. For additional information, please contact: Mr. Jason Krohn, Managing Director, Technical Activities, Precast/Prestressed Concrete Institute, 200 West Adams Street, Suite 2100, Chicago, IL 60606-5230; phone: 312.786.0300, ext. 6771; e-mail: [jkrohn@pci.org](mailto:jkrohn@pci.org).

## Reaccreditations

### American Wind Energy Association (AWEA)

#### Comment Deadline: April 24, 2017

The American Wind Energy Association (AWEA), an ANSI member and Accredited Standards Developer (ASD), has submitted revisions to its currently accredited operating procedures for documenting consensus on AWEA-sponsored American National Standards, under which it was last reaccredited in 2015. As the current revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: Ms. Michele Myers-Mihelic, Director, Worker Health and Safety Policy and Standards Development, American Wind Energy Association, 1501 M Street, Suite 1000, Washington, DC 20005; phone: 202.249.7344; e-mail: [mmihelic@awea.org](mailto:mmihelic@awea.org). You may view/download a copy of the revisions during the public review period at the following URL: [www.ansi.org/accredPR](http://www.ansi.org/accredPR). Please submit any public comments on the revised procedures to AWEA by April 24, 2017, with a copy to the ExSC Recording Secretary in ANSI's New York Office ([jthompso@ANSI.org](mailto:jthompso@ANSI.org)).

### National Board of Boiler and Pressure Vessel Inspectors (NBBPVI)

#### Comment Deadline: April 24, 2017

The National Board of Boiler and Pressure Vessel Inspectors (NBBPVI), an ANSI member and Accredited Standards Developer (ASD), has submitted revisions to its currently accredited operating procedures for documenting consensus on NBBPVI-sponsored American National Standards, under which it was last reaccredited in 2015. As the current revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: Mr. Brad Besserman, Staff Engineer, National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Avenue, Columbus, OH 43229; phone: 614.431.3236; e-mail: [BBesserman@nationalboard.org](mailto:BBesserman@nationalboard.org). You may view/download a copy of the revisions during the public review period at the following URL: [www.ansi.org/accredPR](http://www.ansi.org/accredPR). Please submit any public comments on the revised procedures to NBBPVI by April 24, 2017, with a copy to the ExSC Recording Secretary in ANSI's New York Office ([jthompso@ANSI.org](mailto:jthompso@ANSI.org)).

## International Organization for Standardization (ISO)

### Call for U.S. TAG Administrator

#### ISO/TC 228 – Tourism and related services

There is currently no ANSI-accredited U.S. TAG Administrator for ISO/TC 228 and therefore ANSI is not a member of this committee. The Secretariat for the committee is held by Spain (UNE).

ISO/TC 228 operates under the following scope:

Standardization of the terminology and specifications of the services offered by tourism service providers, including related activities, touristic destinations and the requirements of facilities and equipment used by them, to provide tourism buyers, providers and consumers with criteria for making informed decisions.

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

## U.S. Technical Advisory Groups

### Approvals of TAG Reaccreditation

#### U.S. TAGs to ISO TC 23/SC 13 – Powered Lawn and Garden Equipment, and SC 17 – Manually Portable Forest Machinery

The reaccreditations of the U.S. TAGs to ISO TC 23/SC 13, Powered lawn and garden equipment and SC 17, Manually portable forest machinery, have been approved at the direction of ANSI's Executive Standards Council, under their recently revised TAG operating procedures, effective March 22, 2017. For additional information, please contact: (SC 13) Mr. Dan Mustico, Vice-President, Government & Market Affairs (phone: 703.678.2990; e-mail: [dmustico@opei.org](mailto:dmustico@opei.org)) or (SC17) Mr. Greg Knott, Vice-President, Regulatory Affairs (phone: 703.678.2992; e-mail: [gknott@opei.org](mailto:gknott@opei.org)), Outdoor Power Equipment Institute, 341 South Patrick Street, Alexandria, VA 22314.

#### U.S. TAG to ISO/TC 229 – Nanotechnologies

The reaccreditation of the U.S. TAG to ISO/TC 229, Nanotechnologies has been approved at the direction of the ANSI Executive Standards Council, under its recently revised operating procedures and with ANSI continuing as TAG Administrator, effective March 17, 2017. For additional information, please contact: Ms. Heather Benko, Senior Manager, ANSI, 25 W. 43rd Street, 4th Floor, New York, NY 10036; phone: 212.642.4912; e-mail: [hbenko@ansi.org](mailto:hbenko@ansi.org).



# Meeting Notice

## U.S.TAG to TC 301 – Energy Management and Energy Savings

The U.S. TAG to TC 301 Energy Management and Energy Savings will be meeting at ARCADIS U.S. Located at 50 Fountain Plaza, Suite 600, Buffalo, NY 14202. The dates of the meeting are May 2-4, 2017.

The meeting will be to review the international comments on documents including ISO CD3 50001, ISO CD 50008, and other related TC 301 documents in order to finalize the U.S. positions for the upcoming Working Group meetings and plenary in Beijing, China, May 29 – June 2, 2017.

Anyone interested in attending should contact Deann Desai at [deann.desai@gatech.edu](mailto:deann.desai@gatech.edu) or Melody McElwee at [melody.mcelwee@innovate.gatech.edu](mailto:melody.mcelwee@innovate.gatech.edu).

# Information Concerning

## International Organization for Standardization (ISO)

### Call for International (ISO) Secretariat

#### ISO/TC 106/SC 8 – *Dental implants*

#### Reply Deadline: March 31, 2017

Currently, the U.S. holds a leadership position as Secretariat of ISO/TC 106/SC 8 – *Dental implants*. ANSI has delegated the responsibility for the administration of the Secretariat for ISO/TC 106/SC 8 to the American Dental Association (ADA). ADA has advised ANSI of its intent to relinquish its role as delegated Secretariat for this committee.

ISO/TC 106/SC 8 operates under the following scope:

*Development of standards in the field of Dental implants within the scope of ISO/TC 106:*

*Standardization in oral health care including:*

- o *terms and definitions;*
- o *performance, safety, and specification requirements of dental products; and*
- o *clinically relevant laboratory test methods, all of which contribute to improved global health.*

ANSI is seeking organizations in the U.S. that may be interested in assuming the role of delegated Secretariat for ISO/TC 106/SC 8. Alternatively, ANSI may be assigned the responsibility for administering an ISO Secretariat. Any request that ANSI accept the 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 U.S. 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/TC 106/SC 8 Secretariat, or if there is insufficient support for ANSI to assume direct administration of this activity by March 31, 2017, 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's ISO Team ([isot@ansi.org](mailto:isot@ansi.org)).



**BSR/ASHRAE Addendum d**  
**ANSI/ASHRAE Standard 15-2016**

**Second Public Review Draft**

# **Safety Standard for Refrigeration Systems**

**Second Public Review (January 2017)**  
**(Draft shows Proposed Changes to Current Standard and changes pursuant to  
comments from the First Public Review)**

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at [www.ashrae.org/standards-research--technology/public-review-drafts](http://www.ashrae.org/standards-research--technology/public-review-drafts) and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI.

The appearance of any technical data or editorial material in this public review document does not constitute endorsement, warranty, or guaranty by ASHRAE of any product, service, process, procedure, or design, and ASHRAE expressly disclaims such.

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**ASHRAE, 1791 Tullie Circle, NE, Atlanta GA 30329-2305**

ASHRAE Addendum d to ANSI/ASHRAE Standard 15-2013, *Safety Standard for Refrigeration Systems*  
 Publication Public Review Draft

1 **(This foreword is not part of this standard. It is merely informative and does not contain requirements**  
 2 **necessary for conformance to the standard. It has not been processed according to the ANSI requirements for**  
 3 **a standard and may contain material that has not been subject to public review or a consensus process.**  
 4 **Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)**

5 **FOREWORD**

6 The 2010 edition of ASHRAE Standard 34 added an optional Subclass 2L to the existing Class 2 flammability  
 7 classification of refrigerants. Several refrigerants, including single component fluids and blends, have been classified  
 8 as Subclass 2L (refer to ANSI/ASHRAE Standard 34-2013 and subsequent addenda). Use of Subclass 2L refrigerants  
 9 currently requires compliance with Class 2 requirements per ASHRAE Standard 15 (either 2010 or 2013 edition as  
 10 applicable to any given jurisdiction).

11 In July of 2011, ASHRAE SSPC 15 published the first Advisory Public Review draft with proposed changes related  
 12 to Subclass 2L. In October of 2015 a second Advisory Public Review draft was published. In July 2016, Addendum  
 13 d was published for purposes of a First Public Review. The committee appreciates the many comments that were  
 14 received during these reviews, and the technical issues identified. The Committee reviewed each comment and  
 15 provided responses to the Commenters. This Second Public Review draft incorporates changes that are responsive to  
 16 the First Public Review comments as appropriate.

17 This addendum proposes to allow Group A2L refrigerants in high-probability systems for human comfort only. This  
 18 proposal does not change how ASHRAE Standard 15 deals with Group A2L refrigerants in industrial applications or  
 19 machinery rooms. Those topics are expected to be handled in a separate addendum proposal.

20 This addendum modifies portions of Standard 15 to incorporate class 2L flammability classification as defined in  
 21 ASHRAE Standard 34-2013. This addendum is contingent on a Continuous Maintenance Proposal submitted to  
 22 ASHRAE SSPC 34 to make 2L a flammability class rather than a sub-class, and to define A2L and B2L as safety  
 23 groups. Also, this addendum makes use of LFL values that will be published in an addendum to ASHRAE 34. Note  
 24 that equations given in this addendum use the IP and SI units for LFL that are expected to be published in that addendum.

25 Refrigerant leak detection of Class 2L refrigerants, and air movement to enable rapid mixing of leaked refrigerant,  
 26 are at the core of the requirements presented in this addendum. Recall that the RCL has a factor of safety of 4 for  
 27 flammable refrigerants. That is, when leaked refrigerant is fully mixed in a space, the maximum refrigerant  
 28 concentration is 25% of the LFL and cannot ignite. Some basic requirements for refrigerant leak detectors have been  
 29 added. However, research and development of refrigerant leak detectors is continuing, and additional requirements  
 30 to specify robust and reliable refrigerant leak detection may be expected.

31 There was a considerable amount of research into the use of flammable refrigerants that occurred in 2016. The  
 32 research is expected to continue into 2017 and beyond, and may include Class 2 and Class 3 refrigerants. Standard  
 33 15 must rely on published research at the time any addendum is published. It is premature to try to use any of the  
 34 research results at this time.

35 And finally, Addendum d is relying on product standards for listed products that included the use Class 2L refrigerants.  
 36 Product standards are under development and not yet published.

37 *[Note to Reviewers: The draft of Addendum d that was used for the First Public Review is replaced in its entirety*  
 38 *by this Second Public Review draft. This addendum also makes proposed changes to the current standard. These*  
 39 *changes are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) except where the*  
 40 *reviewer instructions specifically describe some other means of showing the changes. Only these changes to the*  
 41 *current standard are open for review and comment at this time. Additional material is provided for context only*  
 42 *and is not open for comment except as it relates to the proposed changes.*

---

43

44 **3. DEFINITIONS**45 occupational exposure limit (OEL): see definition in ANSI/ASHRAE Standard 34<sup>1</sup>.46 refrigerant designation: the unique identifying alphanumeric value or refrigerant number assigned to an individual  
47 refrigerant and published in ASHRAE Standard 34. <sup>1</sup>

48

49 **7. RESTRICTIONS ON REFRIGERANT USE**50 **7.5 Additional Restrictions**51 **7.5.2 Applications for Human Comfort.** Group A2, A3, B1, B2, B2L and B3 refrigerants shall not be used in  
52 high-probability systems for human comfort. Use of Group A2L refrigerants shall be in accordance with Section  
53 7.654 **Exceptions:**55 1. This restriction does not apply to sealed absorption and unit systems having refrigerant quantities  
56 less than or equal to those indicated in Table 7.4.

57 2. This restriction does not apply to industrial occupancies.

58

59 **7.6 Group A2L Refrigerants for Human Comfort.** High-probability systems using Group A2L  
60 refrigerants for human comfort applications shall comply with this section.61 **7.6.1 Refrigerant Concentration Limits.** The requirements of Section 7.2 shall apply.62 **7.6.2 Listing and Installation Requirements.** Refrigeration systems shall be *listed* and shall be  
63 installed in accordance with listing, the manufacturer's instructions, and any markings on the equipment  
64 restricting the installation.65 7.6.2.1 For listings that require a *refrigerant detector*, the *refrigerant detector* shall comply with the  
66 requirements of Section 7.6.567 7.6.2.2 When the *refrigerant detector* senses a rise in refrigerant concentration above the value  
68 specified in Section 7.6.5 b), the following actions shall be taken.69 a) *Turn on the supply air fan.* The supply air fan shall deliver the minimum air flow as  
70 defined by the following equation.

71 
$$Q_{\min} = 1001.3 * M/LFL \quad (I-P)$$

72 
$$Q_{\min} = 60,000 * M/LFL \quad (SI)$$

73 Where  $Q_{\min}$  is the minimum airflow rate in cfm (m<sup>3</sup>/hr)74  $M$  is the refrigerant charge in lbm (kg)75  $LFL$  is the lower flammability limit in lbm/Mcf (g/m<sup>3</sup>)76 b) *Turn off the compressor and all other electrical devices, excluding the control power transformers,*  
77 *control systems, and the supply air fan.* The supply air fan shall continue to operate for at least 30

78 minutes after the time that the refrigerant detector has sensed a drop in the refrigerant concentration  
79 below the value specified in Section 7.6.5 b)

80 c) Any device that controls air flow located within the product or in duct work that supplies air to the  
81 occupied space shall be fully open. Any device that controls air flow shall be listed.

82

83 **7.6.3 Compressors and Pressure Vessel Located Indoors - Allowance to Exceed RCL.** For  
84 refrigeration compressors and pressure vessels located in an indoor space that is accessible only during  
85 service and maintenance it shall be permissible to exceed the RCL if all of the following provisions are  
86 met.

87 a) The space where the refrigeration compressors and pressure vessels are located is less than the space  
88 volume given by the following equation.

89 
$$V = 200 * M \text{ (I-P)}$$

90 
$$V = 12.5 * M \text{ (SI)}$$

91 Where: V = space volume ft<sup>3</sup> (m<sup>3</sup>)

92 M = the largest single circuit charge lb (kg)

93

94 b) The space where compressors and pressure vessels are located shall be mechanically ventilated in  
95 accordance with the following equation:

96 
$$Q_{\min} = 1001.3 * M/LFL \text{ (I-P)}$$

97 
$$Q_{\min} = 60,000 * M/LFL \text{ (SI)}$$

98 Where Q<sub>min</sub> is the minimum airflow rate in cfm (m<sup>3</sup>/hr)

99 M is the refrigerant charge in lbm (kg)

100 LFL is the lower flammability limit in lbm/Mcf (gm/m<sup>3</sup>)

101 c) The ventilation system shall be started when the refrigerant detector senses refrigerant in accordance with  
102 Section 7.6.5. The location of the refrigerant detector shall be in accordance with Section 7.6.5. The  
103 ventilation system shall continue to operate for at least 30 minutes after the refrigerant detector has sensed a  
104 drop in the refrigerant concentration below the value specified in Section 7.6.5 b)

105 d) The ventilation system air inlet shall be located where refrigerant from a leak is expected to accumulate.  
106 The inlet elevation shall be within 12 inches (30 cm) of the lowest elevation in the space where the  
107 compressor or pressure vessel is located.

108 e) Air that is exhausted from the ventilation system shall be either:

109 i. discharged outside of the building envelope, or

110 ii. discharged to an indoor space, provided that the refrigerant concentration will not exceed the limit  
111 specified in Section 7.6.1.

112

- 113 **7.6.4 Enclosures** Enclosures provided on self-contained equipment that is installed indoors shall either be:
- 114 a. constructed in such a manner that leaked refrigerant can enter the space where such equipment
- 115 is installed that complies with Section 7.6.1, or
- 116 b. vented to the outdoors by natural or continuously operated mechanical means.
- 117 **7.6.4.1** Where compressors and pressure vessels are enclosed in a manner that leaked refrigerant cannot enter the
- 118 space where the equipment is installed, the enclosure shall be vented to the outdoors by natural or continuously
- 119 operated mechanical means.
- 120
- 121 **7.6.5 Refrigerant Detectors** Refrigerant detectors required by Section 7.6.2 shall meet the following
- 122 requirements:
- 123 a) Refrigerant detectors that are part of the listing shall be evaluated by the testing laboratory as part of the
- 124 equipment listing.
- 125 b) The refrigerant detector set point to activate the functions required by Section 7.6.2.2 shall be at a value
- 126 not exceeding the 25% of the lower flammability limit (LFL).
- 127 c) Refrigerant detectors shall be located such that refrigerant will be detected if the refrigerating system is
- 128 operating, or not operating. Use of more than one refrigerant detector shall be permitted.
- 129 i) For refrigerating systems that are connected to the occupied space through ductwork,
- 130 refrigerant detectors shall be located within the listed equipment.
- 131 ii) For refrigerating systems that are directly connected to the occupied space without ductwork,
- 132 the refrigerant detector shall be located in the equipment, or shall be located in the occupied space at a
- 133 height of not more than 12 inches (30 cm) above the floor and within a horizontal distance of not more 6.0
- 134 ft. (1.8 m) with a direct line of sight of the unit.
- 135 d) The refrigerant detector as installed, including any sampling tubes, shall cause the functions required by
- 136 Section 7.6.2.2 within a time not to exceed 15 seconds, after exposure to a refrigerant concentration
- 137 exceeding 25% of the LFL.
- 138 e). The refrigerant detector shall provide a means for automatic self-testing as provided in the product
- 139 listing. If a failure is detected, a trouble alarm shall be activated and the supply air fan operated
- 140 continuously. The refrigerant detector shall be tested during installation to the alarm set point and
- 141 response time per 7.6.5 d). After installation, the refrigerant detector shall be tested annually or at an
- 142 interval not exceeding the manufacturer's installation instructions, whichever is less.

143  
144  
145

# IIAR 1 – 2017

## Definitions and Terminology Used in IIAR Standards

### Public Review #2 Draft

**Note:** This document shows substantive changes made subsequent to the first public review. Certain portions of the original text remain to provide the reader with some context and certain portions of the original text that were removed are not shown from editorial corrections or to prevent and avoid confusion. You are invited to provide comments on only the ~~striked-through~~ (also shown in red) or the underlined changes.

#### Legend:

New words are underlined and Green.

Removed words are ~~striked-through~~ and ~~Red~~.

Staff Notes are included for clarification.



## CHAPTER 1: PURPOSE

This Standard provides a unified set of definitions for use in the IIAR Standards. A set of common definitions is provided to ~~prevent confusion among~~ give clarity to engineers, contractors and jurisdictional authorities. This Standard is a companion to ANSI/IIAR Standards. Definitions are introduced and approved through a public review process in the originating Standard where they are used. On a regular basis, those definitions are incorporated into this Standard and removed from the originating Standard. However, when a particular definition is of primary importance to the originating Standard, it may also remain in that standard as well. When a new edition of an originating Standard is published, it may have revisions to definitions that would apply to that new edition and be effective, as of its legal publication or adoption date. As new editions of this Standard are published, it will reflect those definition changes.

## CHAPTER 3: DEFINITIONS

**building code:** The building code adopted by the ~~jurisdiction~~ authority having jurisdiction (AHJ).

**desuperheater:** A heat exchanger that provides sensible cooling to ~~the~~ superheated refrigerant vapor.

**direct expansion:** A *refrigerant* feed arrangement whereby liquid *refrigerant* is fed to an *evaporator* through an *expansion valve* or an *expansion device* and evaporates completely before leaving the evaporator as a vapor. See *valve: automatic expansion valve*.

**electrical code:** The electrical code adopted by the ~~jurisdiction~~ authority having jurisdiction (AHJ).

**fire code:** The fire code adopted by the ~~jurisdiction~~ authority having jurisdiction (AHJ).

**initial start-up:** A procedure, following the installation of a *refrigeration system*, that confirms the proper operation of equipment, interconnecting *piping*, electrical switchgear and controls.

**machinery room:** An enclosed space that is designed specifically to safely house refrigeration equipment that ~~must~~ shall comply with the requirements set forth in IIAR 2, Chapters 4 and 6.

Staff Note Only: See added language above to CHAPTER 1: PURPOSE for clarifying that originating definitions that are revised and included in an updated Standard are not retroactive. The revised definitions apply to the new Standard edition and become effective, as of its legal publication or adoption date.

**mechanical code:** The mechanical code adopted by the ~~jurisdiction~~ authority having jurisdiction (AHJ).

**plumbing code:** The plumbing code adopted by the authority having jurisdiction (AHJ).

**public assembly occupancy:** A premises portion thereof where large numbers of people congregate as defined by the authority having jurisdiction (AHJ).

**refrigeration system:** A combination of interconnected refrigerant-containing parts constituting at least one closed *refrigerant* circuit in which a *refrigerant* is circulated ~~using compression~~ for the purpose of ~~extracting~~ transferring heat.

Staff Note Only: The following are bulleted sub-definitions under the *valve* definition in IIAR 1.

- **automatic expansion valve:** A valve that self-regulates the flow of liquid *refrigerant* into ~~an evaporator~~ a low side component of a *closed-circuit refrigeration system*.
- **three-way valve:** A service valve for dual mounted pressure-relief valves. A manually operated service *valve* with one inlet and two outlets. The valve can alternately stop flow to either of the two outlets.

Staff Note Only: The first sentence for the three-way valve definition was reinstated.

## IIAR 3-2017

# Ammonia Refrigeration Valves

## Public Review #2 Draft

**Note:** This document shows substantive changes made subsequent to the first public review. Certain portions of the original text remain to provide the reader with some context and certain portions of the original text that were removed are not shown from editorial corrections or to prevent and avoid confusion. You are invited to provide comments on only the ~~striked-through~~ (also shown in red) or the underlined changes.

### Legend:

New words are underlined and Green.

Removed words are ~~striked-through~~ and ~~Red~~.

## Chapter 2

### Scope

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**2.3** To meet this standard, valves and piping intended for ammonia refrigeration service shall meet the design requirements of ASME B31.5 (4.1.4).

**2.9** This standard shall not apply to safety relief valves within the scope of Section VIII of the ASME Boiler and Pressure Vessel Code (4.2.1) ~~and hydrostatic relief valves~~.

## Chapter 5

### General Requirements

---

#### 5.3 Flow Direction

**5.3.1** The manufacturer shall mark the direction of flow on a valve intended to flow in only one direction, such as a check valve, by placing a directional arrow on the valve body, ~~such as a check valve~~. The manufacturer's literature shall identify valves designed to also permit fluid flow opposite to the directional arrow on the valve body.

#### 5.11 Seal Caps

**5.11.2** Pressure-containing seal caps shall have the same MAWP as the valve and be identified in the manufacturer's literature and by marking the cap.

## Chapter 6

### Materials of Construction

---

**6.1** All valves and strainers subject to this standard shall be manufactured using only those materials that comply with the requirements of ANSI/IIAR 2-2014 (4.1.2),

Section 5.7 Materials and ~~Section 13.3 Refrigerant Valves and Strainers of Chapter 13 Piping~~. ANSI/IIAR 2-2014, ~~†(4.1.2) which~~ references ASME B31.5 (4.1.4)†.

## Chapter 9

# Production Testing

---

**9.7** Any valve or strainer failing any production test may be reworked by replacement or suitable repair of the faulty component(s). Weld repair of cast steel components shall be performed ~~by a certified welder~~ in accordance with B31.5, Section 527. Reworked valves shall be subjected to all required production tests.

Tracking number 60i76r1  
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Revision to NSF/ANSI 60 – 2016  
Issue 76 Revision 1 (March 2017)

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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 Chemicals– Health Effects

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. .

### **8 Miscellaneous water supply products**

.  
. .

#### **8.3 General requirements**

.  
. .

##### **8.3.1 Natural polymers**

Selected ~~N~~natural polymers and physically modified natural polymers are not approved for use in water well construction or remediation under this Standard. (Examples of natural polymers are guar gum, welan gum, potato starch, and corn starch, whether modified by pre-gelatinization, clarification or other physical processes that do not affect the CAS number of the resolution polymer). Highly derivatized (i.e. by degrees of substitution greater than 0.4) carboxymethyl starches and celluloses are approved for these uses under the Standard.

***Reason: Revised to allow highly modified starches per 2016 JC meeting discussion (November 30, 2016).***

## OP DRAFT/OEOSC OP1.002-2016+ ver(3a-1)

**2.1.3.3.2 Appearance of a Scratch** Visual assessment of a scratch's magnitude of severity involves only brightness.

**2.1.3.3.3 Grades for Visibility Scratches** The scratch number grades and their meanings are defined in Table 1.

<u>Scratch Number Grade</u>	<u>Visibility Magnitude (Artifact Number)</u>	<u>Negligible Scratches (Disregard Magnitudes)</u>
10	10	Not Visible*
20	20	
40	40	
60	60	
80	80	

\* "Not Visible" means not visible when examined with the methods defined in Section 7 Methods of Inspection.

**Table 1. Grades for the Visibility Tolerancing of Scratches**

#### 2.1.3.4 Visibility Digs

**2.1.3.4.1 Units of Measure** Visibility dig magnitude has no units of measure. The smaller the number, the less severe is the dig's appearance.

**2.1.3.4.2 Grades for Visibility Digs** The dig number grades and their meanings are defined in Table 2.

<u>Dig Number Grade</u>	<u>Visibility Magnitude (Artifact Number)</u>	<u>Negligible Digs (Disregard Magnitudes)</u>
5	5	Not Visible*
10	10	
20	20	
40	40	
50	50	

\* "Not Visible" means not visible when examined with the methods defined in Section 7, Methods of Inspection.

**Table 2. Grades for the Visibility Tolerancing of Digs**

**2.1.3.5 Viewing Conditions for Visibility Scratches and Digs** Surfaces toleranced with visibility specifications shall be evaluated with the methods defined in Section 7.

**2.1.3.6 Indication of Visibility Comparison Artifacts** Visibility comparison artifacts are manufactured by several companies. The comparison artifact sets made by one company may not have the same appearance as those made by another company. To prevent confusion, the specific comparison set to be used should be indicated in the drawing. If no specific set is indicated, then any artifact that is certified and traceable back to the US Army limit standards at Picatinny Arsenal, RDECOM-ARDEC, is acceptable. See Annex A, Specifications for Visual Comparison Artifacts.

**2.1.3.7 Very Low Visibility Scratches and Digs** All scratches that are visible and of less magnitude than the #10 comparison artifact shall be graded as #10 scratches.

All digs that are visible and appear to be of less magnitude than the #5 comparison artifact shall be graded as #5 digs.

Scratches significantly less visible than #10, and digs significantly less visible than #5, will not be visible to the unaided eye, so they cannot be visually evaluated.

## 2.1.4 Dimensional Tolerancing System for Scratches and Digs

**2.1.4.1 Scratch and Dig Letters** Since the tolerance grades for both scratches and digs are identified with a letter, they are also known as the scratch letter and the dig letter for the surface. The phrases "scratch letter" and "dig letter" also refer to the dimensional grade assigned to a particular scratch or dig during inspection.

## BSR/SAIA A92.20-201X

### Establishing DESIGN, CALCULATIONS, SAFETY REQUIREMENTS and TEST METHODS for MOBILE ELEVATING WORK PLATFORMS (MEWPs)

#### 3 Definitions

Instability        A condition in which the sum of the moments which tend to overturn the ~~equipment~~ MEWP MEWP is equal to or exceeds the sum of the moments tending to resist overturning.

Stability         A condition in which the sum of the moments which tend to overturn the ~~equipment~~ MEWP is less than ~~or equal to~~ the sum of the moments tending to resist overturning.

#### 4.3.2 Chassis Inclination

4.3.2.1 Every MEWP shall have a device to indicate whether the inclination of the chassis is within the limits permitted by the manufacturer. This device shall be automatic, in accordance with 4.110, and shall be protected against damage and accidental change of its setting. Maintenance adjustment of the device shall require the use of tools.

#### 6.2 Operator's Manual

##### 6.2.1 Content

6.2.1.1 The manual shall include, but not be limited to, the following information:

parts that are detachable for functional reasons (see 6.4.98);



## BSR/SAIA A92.22-201X

### For the Safe Use of Mobile Elevating Work Platforms (MEWPs)

#### 3 Definitions

Stability A condition in which the sum of the moments which tend to overturn the ~~equipment~~ MEWP is less than ~~or equal to~~ the sum of the moments tending to resist overturning.

#### 5.7 Maintenance and repair safety precautions

~~The Dealers, owners and~~ user shall ensure that maintenance and repair personnel are aware of and comply with the requirements of this section.

5.9.3 The owner shall ensure that the MEWP is registered with the manufacturer so safety-~~related~~ bulletins may be received from the manufacturer.

#### 6.8.12 Electrical hazards

c) If there is a question that the power lines may carry more than 50 ~~kV~~ kV, consult a qualified person with respect to electrical transmission and distribution before proceeding.

## BSR/SAIA A92.24-201X

### Establishing Training Requirements for the Use, Operation, Inspection, Testing and Maintenance of Mobile Elevating Work Platforms (MEWPs)

#### 3 Definitions

Stability        A condition in which the sum of the moments which tend to overturn the ~~equipment~~ MEWP is less than ~~or equal to~~ the sum of the moments tending to resist overturning.

DRAFT

**BSR/UL 13, Standard for Safety Power-Limited Circuit Cables****PROPOSALS****Addition of -LP Ratings**

47.1 The following information shall appear at the intervals indicated in 45.1 throughout the entire length of the finished cable. The supplementary markings "-ER", "-OF", "-LS", "-LP", and "-CI" must immediately follow the type letters. The sequence of these markings is not specified. The sequence of the other items is not specified. For example, a cable that meets the requirements of both -ER and -LP can be marked CL2-ER-LP(1.0 A) or CL2-LP(1.0 A)-ER. Other information, where added, shall not confuse or mislead and shall not conflict with these requirements. See 50.1 and 50.2 for date marking.

## a) Cable Designation and Voltage Rating:

- 4) "-LP" (XX A) where XX shall be 0.5, 0.6, 0.7, 0.8, 0.9 or 1.0 to designate the current rating of that each conductor in the cable is permitted to carry may be added as a suffix immediately following the type letters for each cable construction that complies with the Cable Heating Test - For Cables Marked -LP (XX), described in Section 44A.

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## BSR/UL 248-1

## Standard for Safety for Low-Voltage Fuses – Part 1: General Requirements

## 1. Editorial Correction in Table 5

Table 5 - Verification of operation at rated voltage for AC

Test	High current	Maximum energy	Threshold ratio	Intermediate current			Low current	
				4a	4b	4c	5a	5b
Test No.	1	2	3	4a	4b	4c	5a	5b
Current	200 kA or 300 kA <sup>a</sup> , if applicable	a	b	100 kA	50 kA	10 kA	3 I <sub>n</sub>	2 I <sub>n</sub>
Tolerance	+ 10 percent - 0 percent	Not applicable		+ 10 percent - 0 percent			+ 20 percent - 0 percent	
Power factor	0.2 max.					0.45 to 0.5	0.8 max.	
Arcing angle <sup>c</sup>	60° - 90°		Not specified	60° - 90°			Random closing - No oscillographic records required	
Closing angle	Not specified		80° - 90°	Not specified				
Recovery voltage <sup>d</sup>	Rated voltage + 5 percent, - 0 percent						Rated +20 percent voltage - 0 percent	
Duration of recovery voltage	30s		Not specified	30s			60s	
Maximum arc voltage	3000 V							
Pre-conditioned	e	f	e	e			e	
	Yes	Yes	Optional	Yes	No		Optional	
<sup>a</sup> Only required if less than the assigned interrupting rating of the fuse.								
For maximum energy tests the available current is to be adjusted such that the peak current at interruption is 70 - 100 percent of the peak value of the rms current. This test is not required for ratings of less than 30 A, if they employ the same filler as the 30 A fuses. Fuses rated 1 A or less, that do not employ a filler, are represented by the 30 A rating.								
<sup>b</sup> Test current shall be equal to or less than the product of the fuse rating in A times the threshold ratio (TR), specified for the fuse under test.								
<sup>c</sup> If start of arcing cannot be obtained, then test at closing angle essentially at zero.								
<sup>d</sup> The recovery voltage may exceed +5 percent with the manufacturer's agreement.								
<sup>e</sup> Each fuse is to be tested within 1 h of removal from a 90 ± 3°C oven after at least 24 h of conditioning.								

*Exception: Oven conditioning is not required on fuses with tubing material of glass, ceramic, melamine impregnated glass fiber, or equivalent non-hygroscopic material, when the fuse employs a sand filler or no filler.*

<sup>f</sup> The fuse is to be tested within 1 h of removal from a humidity cabinet, after conditioning at room temperature 25°C and 90 - 100 percent relative humidity for 5 d.

<sup>g</sup> 300 kA if permitted in subsequent parts.

## 2. Recovery Voltage Clarification

**Table 5 - Verification of operation at rated voltage for AC**

Test	High current	Maximum energy	Threshold ratio	Intermediate current			Low current	
	1	2	3	4a	4b	4c	5a	5b
Test No.	1	2	3	4a	4b	4c	5a	5b
Current	200 kA or 300 <sup>g</sup> , if applicable	a	b	100 kA	50 kA	10 kA	3 I <sub>n</sub>	2 I <sub>n</sub>
Tolerance	+ 10 percent - 0 percent	Not applicable		+ 10 percent - 0 percent			+ 20 percent - 0 percent	
Power factor	0.2 max.					0.45 to 0.5	0.8 max.	
Arcing angle <sup>c</sup>	60° - 90°		Not specified	60° - 90°			Random closing - No oscillographic records required	
Closing angle	Not specified		80° - 90°	Not specified				
Recovery voltage <sup>d</sup>	Rated voltage + 5 percent, - 0 percent						Rated +20 percent voltage - 0 percent	
Duration of recovery voltage	30s <u>minimum</u>		Not specified	30s <u>minimum</u>			60s <u>minimum</u>	
Maximum arc voltage	3000 V							
Pre-conditioned	e	f	e	e			e	
	Yes	Yes	Optional	Yes	No		Optional	

<sup>a</sup> Only required if less than the assigned interrupting rating of the fuse.

For maximum energy tests the available current is to be adjusted such that the peak current at interruption is 70 - 100 percent of the peak value of the rms current. This test is not required for ratings of less than 30 A, if they employ the same filler as the 30 A fuses. Fuses rated 1 A or less, that do not employ a filler, are represented by the 30 A rating.

<sup>b</sup> Test current shall be equal to or less than the product of the fuse rating in A times the threshold ratio (TR), specified for the fuse under test.

<sup>c</sup> If start of arcing cannot be obtained, then test at closing angle essentially at zero.

<sup>d</sup> The recovery voltage may exceed +5 percent with the manufacturer's agreement.

<sup>e</sup> Each fuse is to be tested within 1 h of removal from a  $90 \pm 3^\circ\text{C}$  oven after at least 24 h of conditioning.

*Exception: Oven conditioning is not required on fuses with tubing material of glass, ceramic, melamine impregnated glass fiber, or equivalent non-hygroscopic material, when the fuse employs a sand filler or no filler.*

<sup>f</sup> The fuse is to be tested within 1 h of removal from a humidity cabinet, after conditioning at room temperature  $25^\circ\text{C}$  and 90 - 100 percent relative humidity for 5 d.

<sup>g</sup> 300 kA if permitted in subsequent parts.

**Table 6 - Verification of operation at rated voltage for DC**

Test	High current	Maximum energy	Low current		
			5a	5b	5c
Test No.	1	2			
Current	$\geq 10 \text{ kA}$	<sup>a</sup>	$9 I_n$	$3 I_n$	$2 I_n$
Tolerance	+ 10 percent	Not Applicable	+ 20 percent		
	- 0 percent		- 0 percent		
Time constant	$\geq 10 \text{ ms}$	$\geq 0.5(I_{\text{test}})^{0.3} \text{ms}^b$			
Recovery voltage	Rated voltage + 5 percent		Rated + 20 percent		
	- 0 percent		voltage - 0 percent		
Duration of recovery voltage	30 s <u>minimum</u>	Not specified	60 s <u>minimum</u>		
Pre-conditioned	<sup>c</sup>	<sup>d</sup>	<sup>c</sup>		
	Optional	Yes	Optional		

<sup>a</sup> Only required if less than the assigned interrupting rating of the fuse.

For maximum energy tests, the peak current shall be between 0.6 and 0.8 of the available current. The circuit shall be adjusted to obtain this result. This test is not required for ratings of less than 30 A if they employ the same filler as the 30 A fuse.

<sup>b</sup> Not greater than 10 ms, unless agreeable to those concerned.

<sup>c</sup> Each fuse is to be tested within 1 h of removal from a  $90^\circ\text{C}$  oven after at least 24 h of conditioning.

<sup>d</sup> The fuse is to be tested within 1 h of removal from a humidity cabinet, after conditioning at room temperature  $25^\circ\text{C}$  and 90 - 100 percent relative humidity for 5 d.

**BSR/UL 758, Standard for Safety Appliance Wiring Material****PROPOSALS****1. Production-Line Dielectric Test and DC Dielectric Voltage-Withstand Test Potentials, Revised 49.1 and 49.2; and Revised Table 49.1**

49.1 The dielectric test shall be performed by the manufacturer on 100 percent of production where a metallic shield is placed over insulated conductors. Where no metallic shield is present, non-shielded cables may be tested with the Production-Line Dielectric Test, Section 49, on 100 percent of production as an alternate method to Cut-Piece Dielectric Voltage Withstand Test, Section 48A.

49.2 The insulation on the individual wires in the finished assembly shall be capable of withstanding at room temperature the test potential, without breakdown, stated in Table 29.1 applied between all interconnected conductors and all the interconnected shields where present. A DC test potential may be applied in lieu of an AC test potential. The DC test potential shall be as indicated in Table 49.1. The test potential is to be supplied from a suitable test transformer.

**Table 49.1****DC dielectric voltage-withstand test potentials ~~for shielded cables~~**

<b>Voltage rating</b>	<b><u>Conductor sizes, AWG</u></b>	<b>Dielectric test potential, V DC</b>
30 V AC	<u>All</u>	<u>1000</u> <del>1500</del>
60, 90 V AC	<u>All</u>	<u>1500</u> <del>3000</del>
125, 150 V AC	<u>All</u>	<u>2500</u> <del>4500</del>
250 <sup>a</sup> V AC	<u>All</u>	<u>3000</u> <del>6000</del>
300, voltage not specified <sup>a</sup> V AC	<u>All</u>	<u>3000</u> <del>6000</del>
600 V AC	<u>2 and smaller</u>	<u>3000</u> <del>6000</del>
<u>600 V AC</u>	<u>1 - 4/0</u>	<u>4000</u>
<u>600 V AC</u>	<u>250 - 500 kcmil</u>	<u>4500</u>
<u>600 V AC</u>	<u>500 - 1000 kcmil</u>	<u>5000</u>
<u>600 V AC</u>	<u>1100 - 2000 kcmil</u>	<u>6000</u>
1000 - 15,000 V AC		6 times the rated voltage
Any DC rated		2 times the rated voltage + 1000 V

<sup>a</sup>250 V and 300 V AC wires complying with Table 3.2 are to be tested at 4500 V.

## 2. Addition of Stability Factor Test to Table 3.9

Table 3.9

## Elective tests and ratings

<b>Flame tests:</b>	VW-1 Flame Test, Section 42.
	FT1 Flame Test, Section 43.
	FT2 Flame Test, Section 44.
	IEC 60332-1 Flame Test, Section 45.
	IEC 60332-2 Flame Test, Section 46.
<b>Mechanical test:</b>	Crush Resistance Test, Section 28.
<b>Sunlight resistance test:</b>	Physical Properties, Sunlight Resistance, Section 17.
<b>Oil and gasoline resistance tests:</b>	Physical Properties, Oil Immersion Aging, Section 15.
	Physical Properties, Gasoline Conditioning, Section 16.
<b>Wet ratings tests:</b>	Temperature Correction Factor (Wet Rated AWM), Section 37.
	Capacitance and Relative Permittivity Tests (Wet Rated AWM), Section 38.
	<u>Stability Factor (Wet Rated AWM), Section 39.</u>
	Short Term Insulation-Resistance Test in Water at Room Temperature (Wet Rated AWM), Section 35, required for all wet rated wires.
	Long Term Insulation-Resistance Test in Water at Elevated Temperature (Wet Rated AWM), Section 36, at 50°C required for wires rated 60°C wet.
	Long Term Insulation-Resistance Test in Water at Elevated Temperature (Wet Rated AWM), Section 36, at 75°C required for wires rated 75°C wet.
	Long Term Insulation-Resistance Test in Water at Elevated Temperature (Wet Rated AWM), Section 36, at 90°C required for wires rated 90°C wet.
	Long Term Insulation-Resistance Test in Water at Elevated Temperature (Wet Rated AWM), Section 36, at 100°C required for wires rated 100°C wet.

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## BSR/UL 1778, Standard for Uninterruptible Power Systems

### 1. Add a dated reference to UL 60950 RD

#### PROPOSAL

**Preface** (*only the revised portion of the Preface is shown below*)

This is the harmonized CSA Group and UL Standard for Uninterruptible Power Systems (UPS). It is the third edition of CSA C22.2 No. 107.3-14 and the fifth edition of UL 1778. This edition of CSA C22.2 No. 107.3-14 supersedes the previous edition published in 2005 and 2003. This edition of UL 1778 supersedes the previous editions published in 2005, 2003, 1994, and 1989.

This harmonized Standard was prepared by CSA Group and Underwriters Laboratories Inc. (UL). The efforts and support of the National Electrical Manufacturers Association (NEMA) and Electro-Federation Canada (EFC) are gratefully acknowledged. The Standard is intended to be used in conjunction with the applicable requirements of CAN/CSA-C22.2 No. 60950-1-07 and UL 60950-1, March 2007, second edition, which is referred to in this Standard as the Reference Document (RD). Compliance will be determined by the requirements located in CAN/CSA-C22.2 No. 60950-1-07 and UL 60950-1, March 2007, second edition, with deviations presented in the third edition of CSA C22.2 No. 107.3 and the fifth edition of UL 1778.

The requirements in this document have been developed from existing UL and CSA Group requirements for UPS together with IEC 62040-1 (ed. 1.0).

#### 1.1.2 Additional requirements

In addition to the requirements in this Standard, a UPS is to comply with the UPS-relevant requirements of CAN/CSA-C22.2 No. 60950-1/UL 60950-1, March 2007, second edition, *Information Technology Equipment - Safety - Part 1: General requirements* (RD), as applicable for the country where the product will be used. Wherever there is a conflict between the requirements of this Standard and the RD, the requirements of this Standard will prevail.

Engine-driven d.c. power generators intended to provide backup power for the battery supply circuit of UPS units are investigated for compliance with the requirements of UL 2200, and CSA C22.2 No. 100.

UPS that employ hospital grade components identified by the markings "Hospital Only", "Hospital Grade", or a green dot on the BODY of the component, or otherwise implying suitability for medical use, are evaluated to the requirements of this Standard and CAN/CSA-C22.2 No. 60601-1/UL 60601-1.

Requirements additional to those specified in this Standard may be necessary for equipment intended for use where ingress of water is possible; for guidance on such requirements and on relevant testing, see Annex LLL and Annex T/RD.

### 3. Update to Table 4.5.3.101A for temperature limits

#### PROPOSAL

Replace Table 4B/RD with the following:

**Table 4.5.3.101A  
Temperature limits**

Part	Maximum temperature by resistance method for motors or windings with embedded thermal couple <u>for motors or windings with embedded thermal couple</u> , °C	Maximum temperature by thermocouple method, °C
Insulation, including winding insulation:		
- of Class A material 105	100 <sup>a</sup>	90
- of Class E material 120	115 <sup>a</sup>	105
- of Class B material 130	120 <sup>a</sup>	110
- of Class F material 155	140 <sup>a</sup>	130
- of Class H material 180	165 <sup>a</sup>	155
- of Class C material 200	175 <sup>a</sup>	165
- of Class N material 220	190 <sup>a</sup>	180
- of Class R material 240	210 <sup>a</sup>	200
	[see conditions a), b), b) and e) of Table 4.5.3.101B/RD Table 4B in 4.5.3/RD]	[see conditions a), b), b) and e) of Table 4.5.3.101B/RD Table 4B in 4.5.3/RD]

<sup>a</sup>If at the conclusion of the temperature limits test, the results reveal higher temperature limits of that in either column "resistance method/embedded thermal couple method" or "thermocouple method", the following requirements may be used to establish a temperature higher than that in the table. The manufacturer may elect to populate the motor or winding device with multiple embedded thermocouples to fully map out hot spot locations within the device; this could entail upwards of 20 embedded thermocouples to fully map hot spots within the device. However, those hot spot temperatures shall not exceed the material class temperature. For example, a Class N material with the multiple embedded thermocouple's method for hot spot testing shall not exceed 220°C in any single location.

#### 4. Revision to bus bar temperature limits

##### PROPOSAL

**Table AAA.8.3**  
**Maximum bus bar temperatures**

Component	°C
<del>Plated bus</del> <u>Bus bar</u>	90 <u>140</u> <sup>a</sup>
<del>Unplated bus bar and a joint</del>	75
<p><sup>a</sup>The maximum permitted temperature is determined by the temperature limit of support materials or insulation of connecting wires or other components. A maximum temperature of 140 °C is recommended. The bus bar temperature limit requirement shall apply irrespective of the presence or absence of plating of bus bars.</p>	

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