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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: March 6, 2016

### CGA (Compressed Gas Association)

#### Revision

BSR/CGA G-13-201x, Storage and Handling of Silane and Silane Mixtures (revision of ANSI/CGA G-13-2006)

This standard governs the installation of systems and sources that are used to store, transfer, or contain silane or silane mixtures. This standard includes guidance for siting, design of equipment, piping and controls, and the fabrication and installation of silane gas storage and closed-use systems. Additional guidance on operational steps associated with the use of silane and silane mixtures as well as fire protection, gas monitoring, ventilation, and related safeguards are provided.

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

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

### NSF (NSF International)

#### Revision

BSR/NSF 60-201x (i66r1), Drinking Water Treatment Chemicals (revision of ANSI/NSF 60-2015)

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)

### NSF (NSF International)

#### Revision

BSR/NSF 61-201x (i123r1), Drinking Water System Components - Health Effects (revision of ANSI/NSF 61-2015)

This Standard establishes minimum health effects requirements for the chemical contaminants and impurities that are indirectly imparted to drinking water from products, components, and materials used in drinking water systems. This Standard does not establish performance, taste and odor, or microbial growth support requirements for drinking water system products, components, or materials.

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

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

### UL (Underwriters Laboratories, Inc.)

#### Revision

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

The intent of this proposal for UL 746A is to reverse the test voltage trend in the Comparative Tracking Index (CTI).

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

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

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 1449-201x, Standard for Safety for Surge Protective Devices (revision of ANSI/UL 1449-2013)

(2) Testing methods for combination type SPDs; (3) Interchangeability of Metal Oxide Varistors (MOVs); (6) Addition of requirements for open-type SPDs; (7) Addition of requirements for SPDs intended for connection using exposed wiring methods.

[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)

## Comment Deadline: March 21, 2016

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

#### New National Adoption

BSR/AAMI/ISO 10993-4-201x, Biological evaluation of medical devices - Part 4: Selection of tests for interactions with blood (identical national adoption of ISO and revision of ANSI/AAMI/ISO 10993-4:2002 (R2013))

This standard gives guidance to agencies, manufacturers, research laboratories, and others for evaluating the interactions of medical devices with blood.

Single copy price: \$135.00

Obtain an electronic copy from: [abenedict@aami.org](mailto:abenedict@aami.org)

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

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

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

#### Reaffirmation

BSR/AAMI/ISO 14155-2010 (R201x), Clinical investigation of medical devices for human subjects - Good clinical practice (reaffirmation of ANSI/AAMI/ISO 14155-2010)

This International Standard addresses good clinical practice for the design, conduct, recording and reporting of clinical investigations carried out in human subjects to assess the safety or performance of medical devices for regulatory purposes. The principles set forth in this International Standard also apply to all other clinical investigations and should be followed as far as possible, considering the nature of the clinical investigation and the requirements of national regulations.

Single copy price: \$195.00

Obtain an electronic copy from: [abenedict@aami.org](mailto:abenedict@aami.org)

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

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

**ANS (American Nuclear Society)****Reaffirmation**

BSR/ANS 2.21-2012 (R201x), Criteria for Assessing Atmospheric Effects on the Ultimate Heat Sink (reaffirmation of ANSI/ANS 2.21-2012)

This Standard establishes criteria for use of meteorological data collected at nuclear facilities to evaluate the atmospheric effects from meteorological parameters (e.g., dry-bulb temperature/wet-bulb temperature differential, precipitation, wind speed, short-wave radiation, incoming solar (short-wave) radiation, surface water temperature, and atmospheric pressure) on ultimate heat sinks.

Single copy price: \$55.00

Obtain an electronic copy from: [scook@ans.org](mailto:scook@ans.org)

Order from: [scook@ans.org](mailto:scook@ans.org)

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

**ASABE (American Society of Agricultural and Biological Engineers)****New National Adoption**

BSR/ASABE/ISO 27850-201x MONYEAR, Tractors for agriculture and forestry - Falling object protective structures - Test procedures and performance requirements (identical national adoption of ISO 27850:2013)

Standard sets forth the test procedure and performance requirements for a falling object protective structure, in the event such a structure is installed on an agricultural or forestry tractor. The standard is applicable to agricultural and forestry tractors having at least two axles for pneumatic tired wheels or having tracks instead of wheels. It does not apply to forestry machinery as defined in ISO 6814.

Single copy price: \$58.00

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

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

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

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

BSR/ASHRAE Addendum bi to Standard 135-201x, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2012)

This addendum adds a new Audit Reporter object type and new audit notification services to report auditable actions. Addendum bi also changes DeviceCommunicationControl Service for Audit Reporting.

Single copy price: \$35.00

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

Order from: [standards.section@ashrae.org](mailto:standards.section@ashrae.org)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: <http://www.ashrae.org/standards-research--technology/public-review-drafts>

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

BSR/ASME B30.19-201x, Cableways (revision of ANSI/ASME B30.19-2011)  
B30.19 applies to all load transporting, hoisting, and lowering cable-supported systems operating on and supported from track cable(s). This Standard does not apply to skyline systems, as used in the logging industry, or slackline systems used for excavating.

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: Kathryn Hyam, (212) 591-8521, [hyamk@asme.org](mailto:hyamk@asme.org)

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

BSR/ASME B31.1-201x, Power Piping (revision of ANSI/ASME B31.1-2014)  
This code prescribes minimum requirements for the design, materials, fabrication, erection, test, and inspection of power and auxiliary service piping systems for electric generation station, industrial and institutional plants, central and district heating plants, and district heating systems.

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: Colleen O'Brien, (212) 591-7881, [obrienc@asme.org](mailto:obrienc@asme.org)

**ASTM (ASTM International)****Reaffirmation**

BSR/ASTM E1836-2009 (R201x), Practice for Building Floor Area Measurements for Facility Management (reaffirmation of ANSI/ASTM E1836-2009)

[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

**AWWA (American Water Works Association)****Revision**

BSR/AWWA B403-201x, Aluminum Sulfate (revision of ANSI/AWWA B403-2009)

This standard describes purified aluminum sulfate in liquid, ground, or lump form for use in the treatment of potable water, wastewater, or reclaimed water.

Single copy price: \$20.00

Obtain an electronic copy from: [vdavid@awwa.org](mailto:vdavid@awwa.org)

Order from: Paul Olson, (303) 347-6178, [polson@awwa.org](mailto:polson@awwa.org); [vdavid@awwa.org](mailto:vdavid@awwa.org)

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

**ISA (ASC Z133) (International Society of Arboriculture)****Revision**

BSR Z133-201x, Standard for Arboricultural Operations - Safety Requirements (revision of ANSI Z133-2012)

This standard contains arboriculture safety requirements for pruning, repairing, maintaining, and removing trees and for using equipment in such operations.

Single copy price: Free

Obtain an electronic copy from: [http://www.isa-arbor.com/resources/2012\\_ANSI\\_Z133\\_Standard\\_Proposed\\_Revisions.pdf](http://www.isa-arbor.com/resources/2012_ANSI_Z133_Standard_Proposed_Revisions.pdf)

Order from: Janet Huber, (217) 355-9411, ext 259, [jhuber@isa-arbor.com](mailto:jhuber@isa-arbor.com)

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

**MSS (Manufacturers Standardization Society)****Revision**

BSR/MSS SP-114-201x, Corrosion Resistant Pipe Fittings, Threaded and Socket-Welding, Class 150 and 1000 (revision of ANSI/MSS SP-114-2007)

This substantially revised edition of SP-114 for corrosion resistant pipe fittings threaded and socket-welding, Class 150 and 1000, establishes requirements for the following: pressure-temperature ratings, size and method of designating openings of reducing fittings, marking, minimum requirements for materials, dimensions and tolerances, threading, and tests. This Revised Draft is unpublished and includes mark-up for ANS ballot.

Single copy price: Free

Obtain an electronic copy from: [standards@mss-hq.org](mailto:standards@mss-hq.org)

Order from: Michelle Pennington, (703) 281-6613, Ext 101, [mpennington@mss-hq.org](mailto:mpennington@mss-hq.org)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Robert O'Neill, (703) 281-6613, [boneill@mss-hq.org](mailto:boneill@mss-hq.org)

**TCATA (Textile Care Allied Trades Association)****Revision**

BSR Z8.1-201x, Standard for Commercial Laundry Equipment and Operations - Safety Requirements (revision of ANSI Z8.1-2006)

This standard applies to the safety requirements for the operation and use of commercial and industrial laundry equipment.

Single copy price: Free

Obtain an electronic copy from: [david@tcata.org](mailto:david@tcata.org)

Order from: David Cotter, (973) 244-1790, [david@tcata.org](mailto:david@tcata.org)

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

**TCIA (ASC A300) (Tree Care Industry Association)****New Standard**

BSR A300 (Part 11)-201x, Tree Care Operations - Tree, Shrub, and Other Woody Plant Management - Standard Practices (Urban Forest Products) (new standard)

A300 (Part 11) Urban Forest Products standards will be performance standards for planning, removal, and recovery activities that promote the desired and preferred use of urban forest products. Evaluation of trees, removal practices, harvest plans, and recovery practices for trees are addressed. It is a guide in the drafting of specifications for consumers as well as federal, state, municipal, and private authorities including property owners, property managers, and utilities.

Single copy price: Free (electronic copy); \$15.00 each for S&H (paper copies)

Obtain an electronic copy from: [rrouse@tcia.org](mailto:rrouse@tcia.org)

Order from: Robert Rouse, (603) 314-5380 ext. 117, [rrouse@tcia.org](mailto:rrouse@tcia.org)

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

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

BSR/UL 60335-1-201x, Safety Standard for Household and Similar Electrical Appliances, Part 1: General Requirements (identical national adoption of IEC 60335-1 and revision of ANSI/UL 60335-1-2011)

(1) The proposed adoption of IEC 60335-1, Safety Standard for Household and Similar Electrical Appliances, Part 1: General Requirements, (Edition 5.1, Issued by the IEC April, 2014) as the sixth edition of the UL 60335-1.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Amy Walker, (847) 664-2023, [Amy.K.Walker@ul.com](mailto:Amy.K.Walker@ul.com)

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

BSR/UL 1012-2012 (R201x), Standard for Safety for Power Units Other than Class 2 (reaffirmation of ANSI/UL 1012-2012)

Reaffirmation of ANSI approval is proposed for UL 1012.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Joshua Johnson, (919) 549-1053, [Joshua.Johnson@ul.com](mailto:Joshua.Johnson@ul.com)

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

BSR/UL 1990-2011 (R201x), Standard for Safety for Nonmetallic Underground Conduit with Conductors (reaffirmation of ANSI/UL 1990-2011)

Reaffirmation and continuance of the Standard for Nonmetallic Underground Conduit with Conductors, UL 1990, as an American National Standard.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Paul Lloret, (408) 754-6618, [Paul.E.Lloret@ul.com](mailto:Paul.E.Lloret@ul.com)

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

BSR/UL 746C-201x, Standard for Safety for Polymeric Materials - Use in Electrical Equipment Evaluations (revision of ANSI/UL 746C-2013)

The intent of this proposal for UL 746C is to propose setting 1/64 inch (0.4 mm) as the minimum thickness limit to represent thinner thickness for the Vertical Flammability Test evaluation.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

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

## Comment Deadline: April 5, 2016

### ANS (American Nuclear Society)

#### Revision

BSR/ANS 15.11-201x, Radiation Protection at Research Reactors (revision of ANSI/ANS 15.11-2009)

This standard establishes the elements of a radiation protection program and the criteria necessary to provide an acceptable level of radiation protection for personnel at research reactor facilities and the public consistent with keeping exposures and releases as low as reasonably achievable.

Single copy price: \$124.00

Obtain an electronic copy from: [scook@ans.org](mailto:scook@ans.org)

Order from: [scook@ans.org](mailto:scook@ans.org)

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

### ASME (American Society of Mechanical Engineers)

#### Stabilized Maintenance

BSR/ASME B94.33.1-1997 (S20XX), Jig Bushings, Metric (stabilized maintenance of ASME B94.33.1-1997)

This Standard covers the nomenclature, definitions, types, sizes, tolerances, and identification of Metric Jig Bushing and locking devices used for securing the bushing in the jig or bushing plate.

Single copy price: \$32.00

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

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

<http://cstools.asme.org/publicreview>

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Donnie Alonzo, (212) 591-7004, [dalonzo@asme.org](mailto:dalonzo@asme.org)

### ASME (American Society of Mechanical Engineers)

#### Stabilized Maintenance

BSR/ASME B94.51M-2010 (S201x), Specifications for Band Saw Blades (Metal Cutting) (stabilized maintenance of ANSI/ASME B94.51M-2010 (R2015))

This Standard provides a useful criterion of practice in production, distribution, and use of metal cutting band saw blades. It was developed to provide blades that will meet all normal requirements of consumers. Section 3, definitions, indicates the specific types in common usage and also defines the various elements. This Standard covers tooth shape, sizes, and tolerances for regular, skip-tooth, and hook-tooth band-saw blades; and it also sets out the determination of: (a) band-saw blade dimensions; (b) tooth form and set; (c) blade flatness and minimum hardness characteristics. Metric dimensions shown are based on the Renard R-40 system for conversion and are for guidance. This Standard applies to carbon hard-edge flexible and tempered back band-saw blades and intermediate- and high-speed steel and composite steel band-saw blades. Information on friction-cutting band-saw blades is set forth in Appendix I.

Metric dimensions shown are based on the Renard R-40 system for conversion and are for guidance. This Standard applies to carbon hard-edge flexible and tempered back band-saw blades and intermediate- and high-speed steel and composite steel band-saw blades. Information on friction-cutting band-saw blades is set forth in Appendix I.

Single copy price: \$36.00

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: Donnie Alonzo, (212) 591-7004, [dalonzo@asme.org](mailto:dalonzo@asme.org)

### ASME (American Society of Mechanical Engineers)

#### Stabilized Maintenance

BSR/ASME B94.52M-1999 (S201x), Specifications for Hacksaw Blades (stabilized maintenance of ANSI/ASME B94.52M-1999 (R2015))

This Standard provides a useful criterion of practice in production, distribution and use of hacksaw products. It was developed to provide blades that will meet all normal requirements of consumers. Section 3 definitions indicate the specific types in common usage and also defines the various elements. This Standard covers tooth shape, sizes, and tolerances for hand and power hacksaw blades in all types of materials; and it also sets out the determination of: (A) Hacksaw blade dimensions in all types of steel, (B) Tooth form and set, and (C) Blade straightness and minimum hardness characteristics.

Single copy price: \$36.00

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: Donnie Alonzo, (212) 591-7004, [dalonzo@asme.org](mailto:dalonzo@asme.org)

### IEEE (Institute of Electrical and Electronics Engineers)

#### New Standard

BSR/IEEE 1789-201x, Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers (new standard)

The scope of this standard is to: (1) define the concept of modulation frequencies for LEDs and discuss their applications to LED lighting, (2) describe LED lighting applications in which modulation frequencies pose possible health risks to users, (3) discuss the dimming of LEDs by modulating the frequency of driving currents/voltage, and (4) present recommendations for modulation frequencies (flicker) for LED lighting and dimming applications to help protect against known potential adverse health effects.

Single copy price: \$89.00 (pdf); \$110.00 (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 2030.2-201x, Guide for the Interoperability of Energy Storage Systems Integrated with the Electric Power Infrastructure (new standard)

This document provides guidelines for discrete and hybrid energy storage systems that are integrated with the electric power infrastructure, including end-use applications and loads. This guide builds upon IEEE Standard 2030-2011, Guide for Smart Grid Interoperability of Energy Technology and Information Technology Operation with the Electric Power System (EPS), and End-Use Applications, and Loads.

Single copy price: \$165.00 (pdf); \$171.00 (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 26531-201x, Systems and software engineering - Content management for product life-cycle, user, and service management documentation (new standard)

This standard states requirements for efficient development and management of content produced:

- throughout the life-cycle of a system and software product;
- for the provision of user documentation for systems and software; and
- for the management of IT services.

This standard is independent of the tools, protocols, and systems used for content management. It does not address configuration management of software assets.

Single copy price: \$93.00 (pdf); \$115.00 (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)**

### ***Supplement***

BSR/IEEE 1547.1a-201x, Standard Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems - Amendment 1 (supplement to ANSI/IEEE 1547.1-2006 (R2012))

This amendment was prepared in response to IEEE STD 1547a - Amendment 1 to IEEE 1547-2003, providing revisions to Clause 4.1.1 (Voltage regulation), Clause 4.2.4 (Frequency), and Clause 4.2.3 (Voltage).

Single copy price: \$47.00 (pdf); \$61.00 (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)

# 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.

---

## **MSS (Manufacturers Standardization Society)**

**Office:** 127 Park Street, NE  
Vienna, VA 22180-4602

*Contact:* Robert O'Neill

**Phone:** (703) 281-6613

**Fax:** (703) 281-6671

**E-mail:** boneill@mss-hq.org

BSR/MSS SP-114-201x, Corrosion Resistant Pipe Fittings, Threaded and Socket-Welding, Class 150 and 1000 (revision of ANSI/MSS SP -114-2007)

Obtain an electronic copy from: [standards@mss-hq.org](mailto:standards@mss-hq.org)

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

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

*Contact:* Paul Lloret

**Phone:** (408) 754-6618

**Fax:** (408) 754-6618

**E-mail:** Paul.E.Lloret@ul.com

BSR/UL 1990-2011 (R201x), Standard for Safety for Nonmetallic Underground Conduit with Conductors (reaffirmation of ANSI/UL 1990 -2011)

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

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

### **Call for Members for CSA's Automotive Technical Committee**

Specifically, the CSA Automotive Technical Committee is looking for Gas Suppliers, Producer Interests, and User Interests.

The Automotive Technical Committee scope is:

To set forth the essential requirements and minimum standards for the design and construction of:

- a) Compressed Natural Gas (CNG) fuelling stations for use by Natural Gas Powered Vehicles (NGVs);
- b) vehicle refuelling appliances for the fuelling of NGVs
- c) related components and equipment installed on alternative energy vehicles for both CNG, LNG and Hydrogen; and
- d) the installation, servicing and repair of natural gas fuel systems on alternative energy vehicles for both CNG, LNG and Hydrogen.

Please contact: Julie Cairns, Sr. Project Manager, Alternative Energy, CSA Group: 216 524 4990, Ext. 88213, [julie.cairns@csagroup.org](mailto:julie.cairns@csagroup.org), [www.csagroup.org](http://www.csagroup.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.

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

### Reaffirmation

- \* ANSI/ASABE AD11684-1995 APR2011 (R2016), Tractors, machinery for agricultural and forestry, powered lawn and garden equipment - Safety signs and hazard pictorials - General principles (reaffirmation of ANSI/ASABE AD11684-2011): 1/26/2016
- ANSI/ASABE AD8759-2:1998 DEC2010 (R2016), Agricultural wheeled tractors - Front-mounted equipment - Part 2: Stationary equipment connection (reaffirmation of ANSI/ASABE/ISO 8759-2-2010): 1/26/2016
- ANSI/ASABE/ISO 21244-2008 JAN2011 (R2016), Agricultural equipment - Mechanical connections between towed and towing vehicles - Implement hitch rings and attachment to tractor drawbars (reaffirmation of ANSI/ASABE/ISO 21244-2011): 1/26/2016
- \* ANSI/ASABE/ISO 3767-1-1998 MAY2006 (R2016), Tractors, machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays - Part 1: Common symbols (reaffirmation of ANSI/ASABE/ISO 3767-1-1998 (R2011)): 1/26/2016
- \* ANSI/ASABE/ISO 3767-2-1991, W/Amd. 1-3 MAY2006 (R2016), Tractors, machinery for agriculture and forestry, powered lawn and garden equipment - Symbols for operator controls and other displays - Part 2: Symbols for agricultural tractors and machinery (reaffirmation of ANSI/ASABE/ISO 3767-2-1991, W/Amd. 1-3-2006 (R2011)): 1/26/2016
- ANSI/ASABE/ISO 5007:2003 MAY2006 (R2016), Agricultural wheeled tractors - Operator's seat - Laboratory measurement of transmitted vibration (reaffirmation of ANSI/ASABE/ISO 5007-2003 (R2011)): 1/26/2016

## ASME (American Society of Mechanical Engineers)

### Revision

- ANSI/ASME A112.6.3-2016, Floor and Trench Drains (revision of ANSI/ASME A112.6.3-2001 (R2007)): 1/26/2016
- ANSI/ASME HST-4-2016, Performance Standard for Overhead Electric Wire Rope Hoists (revision of ANSI/ASME HST-4-1999 (R2010)): 1/26/2016

## ASNT (American Society for Nondestructive Testing)

### Revision

- ANSI/ASNT CP-189-2016, ASNT Standard for qualification and certification of Nondestructive testing personnel (revision of ANSI/ASNT CP-189-2011): 1/26/2016

## AWS (American Welding Society)

### New Standard

- ANSI/AWS/NAVSEA B2.1-8-308-2016, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for Gas Tungsten Arc Welding of Austenitic Stainless Steel (S-8), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, MIL-3XX, in the As-Welded Condition, Primarily Plate and Structural Naval Applications (new standard): 1/26/2016

- ANSI/AWS/NAVSEA B2.1-8-318-2016, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for Gas Tungsten Arc Welding of Austenitic Stainless Steel (S-8), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, MIL-3XX, in the As-Welded Condition, Primarily Pipe for Naval Applications (new standard): 1/26/2016

### Revision

- ANSI/AWS C7.3M/C7.3-2016, Process Specification for Electron Beam Welding (revision of ANSI/AWS C7.3-1999 (R2003)): 1/26/2016

## UL (Underwriters Laboratories, Inc.)

### New Standard

- ANSI/UL 1640-2016, Standard for Safety for Portable Power-Distribution Equipment (new standard): 1/25/2016

### Revision

- ANSI/UL 414-2016, Standard for Safety for Meter Sockets (revision of ANSI/UL 414-2009 (R2014)): 1/5/2016

# Project Initiation Notification System (PINS)

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

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

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

## ASTM (ASTM International)

**Office:** 100 Barr Harbor Drive  
West Conshohocken, PA 19428-2959

**Contact:** Corice Leonard

**Fax:** (610) 834-3683

**E-mail:** [accreditation@astm.org](mailto:accreditation@astm.org)

BSR/ASTM WK52989-201x, New Test Method for Evaluation of Carpet Embedded Dirt Removal Effectiveness of Household and Commercial Vacuum Cleaners (new standard)

Stakeholders: Filtration Industry

Project Need: This test method covers only a laboratory test for determining the relative carpet dirt removal effectiveness of household/commercial vacuum cleaners when tested under specified conditions.

<http://www.astm.org/DATABASE.CART/WORKITEMS/WK52989.htm>

## AWS (American Welding Society)

**Office:** 8669 NW 36th Street  
Suite #130  
Miami, FL 33166-6672

**Contact:** Jennifer Rosario

**Fax:** (305) 443-5951

**E-mail:** [jrosario@aws.org](mailto:jrosario@aws.org)

BSR/AWS B2.3/B2.3M-201x, Specification for Soldering Procedure and Performance Qualification (revision of ANSI/AWS B2.3/B2.3M-2012)

Stakeholders: Solderers and soldering operators

Project Need: To provide the requirements of qualification and performance for soldering.

This specification provides the requirements for qualification of soldering procedure specifications, solderers, and soldering operators for manual, mechanized, and automatic soldering. The soldering processes included are torch soldering, furnace soldering, induction soldering, resistance soldering, dip soldering, iron soldering, and infrared soldering. Base metals, soldering filler metals, soldering fluxes, soldering atmospheres, and soldering joint clearances are also included.

BSR/AWS-NAVSEA B2.1-1-304-201x, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for Carbon Dioxide Shielded Flux Cored Arc Welding of Carbon Steel (S-1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, MIL-70T-1 and MIL-71T-1, in the As-Welded Condition, Primarily Plate and Structural Naval Applications (new standard)

Stakeholders: Navy, manufacturers, welders, engineers, and CWIs  
Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

This standard contains the essential welding variables for carbon steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using semiautomatic carbon-dioxide-shielded flux-cored arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and joint designs for groove and fillet welds. This SWPS-N was developed primarily for naval applications that require performance to NAVSEA Technical Publication S9074-AQ-GIB-010/248, Requirements for Welding and Brazing Procedure and Performance Qualification.

BSR/AWS-NAVSEA B2.1-1-305-201x, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for 75% Argon Plus 25% Carbon Dioxide Shielded Flux Cored Arc Welding of Carbon Steel (S-1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, MIL-70T-1 and MIL-71T-1, in the As-Welded or PWHT Condition, Primarily Plate and Structural Naval Applications (new standard)

Stakeholders: Navy, manufacturers, welders, engineers, and CWIs  
Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

This standard contains the essential welding variables for carbon steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using semiautomatic gas-shielded flux-cored arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and joint designs for groove and fillet welds. This SWPS-N was developed primarily for naval applications that require performance to NAVSEA Technical Publication S9074-AQ-GIB-010/248, Requirements for Welding and Brazing Procedure and Performance Qualification.

BSR/AWS-NAVSEA B2.1-1-316-201x, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for Argon Plus 2% Oxygen Shielded Gas Metal Arc Welding (Spray Transfer Mode) of Carbon Steel (S-1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, MIL-70S-3, Flat Position Only, in the As-Welded or PWHT Condition, Primarily Pipe for Naval Applications (new standard)

Stakeholders: Navy, manufacturers, welders, engineers, and CWIs

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

This standard contains the essential welding variables for carbon steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using semiautomatic gas metal-arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and joint designs for groove and fillet welds. This SWPS-N was developed primarily for naval applications that require performance to NAVSEA Technical Publication S9074-AQ-GIB-010/248, Requirements for Welding and Brazing Procedure and Performance Qualification.

BSR/AWS-NAVSEA B2.1-1-317-201x, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for 75% Argon Plus 25% Carbon Dioxide Shielded Flux Cored Arc Welding of Carbon Steel (S-1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, MIL-70T-1 and MIL-71T-1, in the As-Welded or PWHT Condition, Primarily Pipe for Naval Applications (new standard)

Stakeholders: Navy, manufacturers, welders, engineers, and CWIs

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

This standard contains the essential welding variables for carbon steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using semiautomatic gas-shielded flux-cored arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and joint designs for groove and fillet welds. This SWPS-N was developed primarily for naval applications that require performance to NAVSEA Technical Publication S9074-AQ-GIB-010/248, Requirements for Welding and Brazing Procedure and Performance Qualification.

#### **AWS (American Welding Society)**

**Office:** 8669 NW 36th Street  
Suite 130  
Doral, FL 33166

**Contact:** *Stephen Borrero*

**Fax:** (305) 443-5951

**E-mail:** sborrero@aws.org

BSR/AWS D1.5M/D1.5-201x, Bridge Welding Code (revision of ANSI/AWS D1.5M/D1.5-2015)

Stakeholders: Structural Engineers, Designers, Manufacturers, Welders, Qualifiers, Inspectors, Fabricators involved with welding bridges

Project Need: Revise D1.5M/D1.5:2015 with updated welding practices and incorporate new forms of technology.

This code covers the welding requirements for AASHTO welded highway bridges made from carbon and low-alloy constructional steels. Contains dimensions in metric SI Units and U.S. Customary Units. Clauses 1 through 7 constitute a body of rules for the regulation of welding in steel construction. The provisions for Clause 9 have been distributed throughout the D1.5 code. Clauses 8, 10, and 11 do not contain provisions, as their analogue D1.1 sections are not applicable to the D1.5 code. Clause 12 contains the requirements for fabricating fracture critical members.

#### **GTESS (Georgia Tech Energy & Sustainability Services)**

**Office:** 75 Fifth Street N.W  
Suite 300  
Atlanta, GA 30308

**Contact:** *Moon Kim*

**Fax:** (404) 894-8194

**E-mail:** Moon.Kim@gtri.gatech.edu

BSR/ISO/MSE 17747-201x, Determination of energy savings in organizations (identical national adoption of ISO 17747:2015)

Stakeholders: Those involved in organizational metrics, Superior Energy Performance (SEP), measurement and verification (M&V) activities related to organizations, and those involved or interested in demonstrating energy performance at the organizational level.

Project Need: This Standard is needed because of the high level stakeholder interest in information to assist in organizational metrics, Superior Energy Performance (SEP), measurement and verification (M&V) activities, and others. This Standard is also requested from the U.S. TAG to ISO/TC 242 for U.S. identical national adoption.

This Standard provides methods for the determination of energy savings in organizations. This Standard can be utilized by organizations with or without a formal energy management system. The methods covered in the Standard are based on changes in the amount of energy consumed or the combined energy savings from the energy performance improvement actions (EPIAs) measured within the organizational boundary.

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

**Office:** 445 Hoes Lane  
Piscataway, NJ 08854-4141

**Contact:** *Lisa Weisser*

**E-mail:** l.weisser@ieee.org

BSR/IEEE 3333.1.1-201x, Standard for Quality of Experience (QoE) and Visual-Comfort Assessments of Three-Dimensional (3D) Contents Based on Psychophysical Studies (new standard)

Stakeholders: Manufacturers of 3D contents, 3D games, 3D devices including 3D display and 3D educational programs; Developers of 3D signal processing engines; Service providers of 3D display contents such as movie, TV shows, games, etc.

Project Need: In parallel with the development of various 3D techniques for 3D applications, there is a need for extensive efforts in developing objective 3D-image and video-quality metrics designed to evaluate visual quality in agreement with subjective human judgments.

This standard establishes methods for visual saliency prediction, visual contents analysis, and subjective assessment for quantifying the visual discomfort and quality of experience (QoE) of 3D image and video.

# 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 Dr., Suite 301  
Arlington, VA 22203  
Phone: (703) 253-8284  
Fax: (703) 276-0793  
Web: [www.aami.org](http://www.aami.org)

## ANS

American Nuclear Society  
555 North Kensington Avenue  
La Grange Park, IL 60526  
Phone: (708) 579-8268  
Fax: (708) 579-8248  
Web: [www.ans.org](http://www.ans.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: (404) 636-8400  
Fax: (404) 321-5478  
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)

## ASNT

American Society for Nondestructive  
Testing  
1711 Arlington Lane  
P.O. Box 28518  
Columbus, OH 43228-0518  
Phone: (800) 222-2768 ext 241  
Fax: (614) 274-6899  
Web: [www.asnt.org](http://www.asnt.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)

## 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)

## AWWA

American Water Works Association  
6666 W. Quincy Ave.  
Denver, CO 80235  
Phone: (303) 347-6178  
Fax: (303) 795-7603  
Web: [www.awwa.org](http://www.awwa.org)

## CGA

Compressed Gas Association  
14501 George Carter Way  
Suite 103  
Chantilly, VA 20151  
Phone: (703) 788-2728  
Fax: (703) 961-1831  
Web: [www.cganet.com](http://www.cganet.com)

## GTESS

Georgia Tech Energy & Sustainability  
Services  
75 Fifth Street N.W  
Suite 300  
Atlanta, GA 30308  
Phone: (404) 407-6404  
Fax: (404) 894-8194  
Web: [www.innovate.gatech.edu](http://www.innovate.gatech.edu)

## IEEE

Institute of Electrical and Electronics  
Engineers  
445 Hoes Lane  
Piscataway, NJ 08854-4141  
Phone: (732) 981-2864  
Web: [www.ieee.org](http://www.ieee.org)

## ISA (ASC Z133)

International Society of Arboriculture  
2101 West Park Court  
PO Box 3129  
Champaign, IL 61826-3129  
Phone: (217) 355-9411, ext 259  
Fax: (217) 355 9516  
Web: [www.isa-arbor.com](http://www.isa-arbor.com)

## MSS

Manufacturers Standardization  
Society  
127 Park Street, NE  
Vienna, VA 22180-4602  
Phone: (703) 281-6613  
Fax: (703) 281-6671  
Web: [www.mss-hq.org](http://www.mss-hq.org)

## NSF

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

## TCATA

Textile Care Allied Trades Association  
271 Route 46 West #203D  
Fairfield, NJ 07004  
Phone: (973) 244-1790  
Fax: (973) 244-4455  
Web: [www.tcata.org](http://www.tcata.org)

## TCIA (ASC A300)

Tree Care Industry Association  
136 Harvey Road  
Suite 101  
Londonderry, NH 03053  
Phone: (603) 314-5380  
Fax: (603) 314-5386  
Web: [www.treecareindustry.org](http://www.treecareindustry.org)

## UL

Underwriters Laboratories, Inc.  
333 Pfingsten Road  
Northbrook, IL 60062-2096  
Phone: (847) 664-2023  
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

### **ACOUSTICS (TC 43)**

- ISO/DIS 12354-1, Building acoustics - Estimation of acoustic performance of buildings from the performance of elements - Part 1: Airborne sound insulation between rooms - 2/28/2016, \$155.00
- ISO/DIS 12354-2, Building acoustics - Estimation of acoustic performance of buildings from the performance of elements - Part 2: Impact sound insulation between rooms - 2/28/2016, \$119.00
- ISO/DIS 12354-3, Building acoustics - Estimation of acoustic performance of buildings from the performance of elements - Part 3: Airborne sound insulation against outdoor sound - 2/28/2016, \$93.00
- ISO/DIS 12354-4, Building acoustics - Estimation of acoustic performance of buildings from the performance of elements - Part 4: Transmission of indoor sound to the outside - 2/28/2016, \$82.00

### **AGRICULTURAL FOOD PRODUCTS (TC 34)**

- ISO/DIS 19343, Microbiology of the food chain - Detection and quantification of histamine in fish and fishery products - HPLC method - 4/30/2016, \$58.00

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

- ISO/DIS 43, Aircraft - Jacking pads - 2/28/2016, \$29.00
- ISO/DIS 18440, Space data and information transfer systems - Space link extension - Internet protocol for transfer services - 4/30/2016, \$134.00
- ISO/DIS 18441, Space data and information transfer systems - Space link extension - Application program interface for transfer services - Core specification - 4/30/2016, \$258.00
- ISO/DIS 18442, Space data and information transfer systems - Space link extension - Application program interface for return all frames service - 4/30/2016, \$125.00
- ISO/DIS 18443, Space data and information transfer systems - Space link extension - Application program interface for return channel frames service - 4/30/2016, \$134.00

- ISO/DIS 18444, Space data and information transfer systems - Space link extension - Application program interface for return operational control fields service - 4/30/2016, \$146.00
- ISO/DIS 18445, Space data and information transfer systems - Space link extension - Application program interface for the forward CLTU service - 4/30/2016, \$165.00
- ISO/DIS 18446, Space data and information transfer systems - Space link extension - Application program interface for the forward space packet service - 4/30/2016, \$175.00
- ISO/DIS 22645, Space data and information transfer systems - TM (telemetry) space data link protocol - 4/30/2016, \$155.00
- ISO/DIS 22664, Space data and information transfer systems - TC (telecommand) space data link protocol - 4/30/2016, \$165.00
- ISO/DIS 22666, Space data and information transfer systems - AOS (advanced orbiting systems) space data link protocol - 4/30/2016, \$155.00
- ISO/DIS 12604-1, Aircraft ground handling - Checked baggage - Part 1: Mass and dimensions - 2/28/2016, \$40.00

### **BUILDING ENVIRONMENT DESIGN (TC 205)**

- ISO/DIS 18566-1, Building environment design - Design, test methods and control of hydronic radiant heating and cooling panel systems - Part 1: Definition, symbols, technical specifications and requirements - 4/29/2016, \$88.00
- ISO/DIS 18566-2, Building environment design - Design, test methods and control of hydronic radiant heating and cooling panel systems - Part 2: Determination of heating and cooling capacity of ceiling mounted radiant panels - 4/29/2016, \$77.00
- ISO/DIS 18566-3, Building environment design - Design, test methods and control of hydronic radiant heating and cooling panel systems - Part 3: Design of ceiling mounted radiant panels - 4/29/2016, \$67.00
- ISO/DIS 18566-4, Building environment design - Design, test methods and control of hydronic radiant heating and cooling panel systems - Part 4: Control of ceiling mounted radiant heating and cooling panels - 4/29/2016, \$53.00

**CLEANROOMS AND ASSOCIATED CONTROLLED ENVIRONMENTS (TC 209)**

ISO/DIS 14644-15, Cleanrooms and associated controlled environments - Part 15: Assessment of suitability for use of equipment and materials by airborne chemical concentration - 5/7/2016, \$82.00

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

ISO/DIS 3651-3, Determination of resistance to intergranular corrosion of stainless steels - Part 3: Low-Cr ferritic stainless steels - Corrosion test in media containing sulfuric acid - 2/25/2016, \$40.00

**DENTISTRY (TC 106)**

ISO/DIS 20749, Dentistry - Pre-capsulated dental amalgam - 4/30/2016, \$93.00

**FASTENERS (TC 2)**

ISO/DIS 4032, Hexagon regular nuts (style 1) - Product grades A and B - 4/30/2016, \$40.00

ISO/DIS 4033, Hexagon high nuts (style 2) - Product grades A and B - 4/30/2016, \$40.00

ISO/DIS 4034, Hexagon regular nuts (style 1) - Product grade C - 4/30/2016, \$40.00

ISO/DIS 4035, Hexagon thin nuts (style 0), chamfered - Product grades A and B - 4/30/2016, \$40.00

ISO/DIS 4161, Hexagon high nuts with flange - Product grades A and B - 4/30/2016, \$46.00

ISO/DIS 7040, Prevailing torque hexagon regular nuts (with non-metallic insert) - Product grades A and B - 4/30/2016, \$40.00

ISO/DIS 7041, Prevailing torque hexagon high nuts (with non-metallic insert) - Product grades A and B - 4/30/2016, FREE

ISO/DIS 7042, Prevailing torque (all-metal) hexagon high nuts - Product grades A and B - 4/30/2016, \$40.00

ISO/DIS 7043, Prevailing torque hexagon high nuts with flange (with non-metallic insert) - Product grades A and B - 4/30/2016, FREE

ISO/DIS 7044, Prevailing torque (all-metal) hexagon high nuts with flange - Product grades A and B - 4/30/2016, FREE

ISO/DIS 7719, Prevailing torque (all-metal) hexagon regular nuts - Product grades A and B - 4/30/2016, \$40.00

ISO/DIS 8673, Hexagon regular nuts (style 1), with fine pitch thread - Product grades A and B - 4/30/2016, \$40.00

ISO/DIS 8674, Hexagon high nuts (style 2), with fine pitch thread - Product grades A and B - 4/30/2016, \$40.00

ISO/DIS 8675, Hexagon thin nuts (style 0) chamfered, with fine pitch thread - Product grades A and B - 4/30/2016, \$40.00

ISO/DIS 10511, Prevailing torque hexagon thin nuts (with non-metallic insert) - Product grades A and B - 4/30/2016, \$40.00

ISO/DIS 10512, Prevailing torque hexagon regular nuts (with non-metallic insert), with fine pitch thread - Product grades A and B - 4/30/2016, \$40.00

ISO/DIS 10513, Prevailing torque (all-metal) hexagon high nuts, with fine pitch thread - Product grades A and B - 4/30/2016, \$40.00

ISO/DIS 10663, Hexagon high nuts with flange, with fine pitch thread - Product grades A and B - 4/30/2016, \$46.00

ISO/DIS 12125, Prevailing torque hexagon high nuts with flange (with non-metallic insert), with fine pitch thread - Product grades A and B - 4/30/2016, \$46.00

ISO/DIS 12126, Prevailing torque (all-metal) hexagon high nuts with flange, with fine pitch thread - Product grades A and B - 4/30/2016, \$46.00

**FERTILIZERS AND SOIL CONDITIONERS (TC 134)**

ISO/DIS 19746, Determination of urea content in urea-based fertilizers by high performance liquid chromatography (HPLC) - 2/25/2016, \$58.00

**FOOTWEAR (TC 216)**

ISO/DIS 18454, Footwear - Standard atmospheres for conditioning and testing of footwear and components for footwear - 2/28/2016, \$29.00

ISO/DIS 18896, Footwear - Test methods for shanks - Longitudinal stiffness - 2/28/2016, \$33.00

ISO/DIS 20866, Footwear - Test methods for insoles - Delamination resistance - 2/28/2016, \$33.00

ISO/DIS 20867, Footwear - Test methods for insoles - Heel pin holding strength - 2/28/2016, \$33.00

ISO/DIS 20870, Footwear - Ageing conditioning - 2/28/2016, \$33.00

ISO/DIS 20871, Footwear - Test methods for outsoles - Abrasion resistance - 2/28/2016, \$40.00

ISO/DIS 20872, Footwear - Test methods for outsoles - Tear strength - 2/28/2016, \$40.00

ISO/DIS 20873, Footwear - Test methods for outsoles - Dimensional stability - 2/28/2016, \$33.00

ISO/DIS 20874, Footwear - Test methods for outsoles - Needle tear strength - 2/28/2016, \$40.00

ISO/DIS 20875, Footwear - Test methods for outsoles - Determination of split tear strength and delamination resistance - 2/28/2016, \$40.00

ISO/DIS 20876, Footwear - Test methods for insoles - Resistance to stitch tear - 2/28/2016, \$40.00

ISO/DIS 22650, Footwear - Test methods for whole shoe - Heel attachment - 2/28/2016, \$46.00

**GAS CYLINDERS (TC 58)**

ISO 10297/DAmD1, Gas cylinders - Cylinder valves - Specification and type testing - Amendment 1: Pressure drums and tubes - 2/28/2016, \$29.00

ISO 14246/DAmD1, Gas cylinders - Cylinder valves - Manufacturing tests and examinations - Amendment 1 - 2/28/2016, \$33.00

ISO/DIS 10156, Gas cylinders - Gases and gas mixtures - Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets - 2/28/2016, \$93.00

ISO/DIS 15996, Gas cylinders - Residual pressure valves - General requirements and type testing - 12/27/2028, \$82.00

**IMPLANTS FOR SURGERY (TC 150)**

ISO/DIS 5832-7, Implants for surgery - Metallic materials - Part 7: Forgeable and cold-formed cobalt-chromium-nickel-molybdenum-iron alloy - 4/30/2016, FREE

**MEDICAL DEVICES FOR INJECTIONS (TC 84)**

ISO/DIS 11608-6, Needle-based injection systems for medical use - Requirements and test methods - Part 6: On-body delivery systems - 5/1/2016, \$112.00

**MINING (TC 82)**

ISO/DIS 19225, Underground mining machines - Mobile extracting machines at the face - Safety requirements for shearer loaders and plough systems - 2/28/2016, \$88.00

**NUCLEAR ENERGY (TC 85)**

ISO/DIS 18557, Characterisation principles for soils, buildings and infrastructures contaminated by radionuclides for remediation purposes - 4/29/2016, \$98.00

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

ISO/DIS 14997, Optics and photonics - Test methods for surface imperfections of optical elements - 5/1/2016, \$67.00

ISO/DIS 10110-7, Optics and photonics - Preparation of drawings for optical elements and systems - Part 7: Surface imperfections - 5/1/2016, \$58.00

**PAINTS AND VARNISHES (TC 35)**

ISO/DIS 12944-1, Paints and varnishes - Corrosion protection of steel structures by protective coating systems - Part 1: General introduction - 2/28/2016, \$46.00

ISO/DIS 12944-2, Paints and varnishes - Corrosion protection of steel structures by protective coating systems - Part 2: Classification of environments - 2/28/2016, \$58.00

ISO/DIS 12944-3, Paints and varnishes - Corrosion protection of steel structures by protective coating systems - Part 3: Design considerations - 2/28/2016, \$62.00

ISO/DIS 12944-7, Paints and varnishes - Corrosion protection of steel structures by protective coating systems - Part 7: Execution and supervision of paint work - 2/28/2016, \$53.00

**PHOTOGRAPHY (TC 42)**

ISO/DIS 18935, Imaging materials - Colour images - Determination of water resistance of printed colour images - 2/28/2016, \$46.00

**PLASTICS (TC 61)**

ISO/DIS 19209, Classification of thermoplastic wood adhesives for non-structural applications - 2/28/2016, \$33.00

ISO/DIS 19210, Adhesives - Thermoplastic wood adhesives for non-structural applications - Determination of tensile shear strength of lap joints - 2/28/2016, \$53.00

ISO/DIS 5659-2, Plastics - Smoke generation - Part 2: Determination of optical density by a single-chamber test - 2/28/2016, FREE

**QUANTITIES, UNITS, SYMBOLS, CONVERSION FACTORS (TC 12)**

ISO/DIS 80000-7, Quantities and units - Part 7: Light and radiation - 4/30/2016, \$112.00

**ROAD VEHICLES (TC 22)**

ISO/DIS 15005, Road vehicles - Ergonomic aspects of transport information and control systems - Dialogue management principles and compliance procedures - 2/28/2016, \$67.00

ISO/DIS 15008, Road vehicles - Ergonomic aspects of transport information and control systems - Specifications and test procedures for in-vehicle visual presentation - 2/28/2016, \$93.00

ISO/DIS 26021-2, Road vehicles - End-of-life activation of on-board pyrotechnic devices - Part 2: Communication requirements - 5/1/2016, \$125.00

ISO/DIS 29061-3, Road vehicles - Methods and criteria for usability evaluation of child restraint systems and their interface with vehicle anchorage systems - Part 3: Installation of child restraint systems using vehicle seat belts - 2/28/2016, \$67.00

ISO/DIS 29061-4, Road vehicles - Methods and criteria for usability evaluation of child restraint systems and their interface with vehicle anchorage systems - Part 4: Securing of child in child restraint system and daily handling aspects - 2/28/2016, \$62.00

ISO/DIS 29061-5, Road vehicles - Methods and criteria for usability evaluation of child restraint systems and their interface with vehicle anchorage systems - Part 5: Installation and securing of child in a booster seat - 2/25/2016, \$67.00

ISO/DIS 12614-19, Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 19: Automatic valve - 4/30/2016, FREE

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

ISO/DIS 19385, Rubber hoses and hose assemblies for water jetting or water blasting applications - 2/29/2016, \$58.00

ISO/DIS 19718, Rubber and plastics hoses and hose assemblies, wire- or textile- reinforced, for hydraulic power units used in heavy duty hydraulic tool applications - Specification - 4/30/2016, FREE

**TERMINOLOGY (PRINCIPLES AND COORDINATION) (TC 37)**

ISO/DIS 24617-8, Language resource management - Semantic annotation framework (SemAF) - Part 8: Semantic relations in discourse, core annotation schema (ISO DR-core) - 5/1/2016, FREE

**THERMAL INSULATION (TC 163)**

ISO/DIS 12569, Thermal insulation in buildings - Determination of air change in buildings - Tracer gas dilution method - 11/6/2018, \$125.00

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

ISO 5395-3/DAMd2, Garden equipment - Safety requirements for combustion-engine-powered lawnmowers - Part 3: Ride-on lawnmowers with seated operator - Amendment 2: Cutting means enclosure guards - 2/28/2016, \$29.00

ISO 4254-12/DAMd1, Agricultural machinery - Safety - Part 12: Rotary disc and drum mowers and flail mowers - Amendment 1 - 2/28/2016, \$29.00

**TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)**

ISO/DIS 13140-1, Electronic fee collection - Evaluation of on-board and roadside equipment for conformity to ISO 13141 - Part 1: Test suite structure and test purposes - 2/28/2016, \$119.00

ISO/DIS 13143-1, Electronic fee collection - Evaluation of on-board and roadside equipment for conformity to ISO 12813 - Part 1: Test suite structure and test purposes - 2/28/2016, \$146.00

**VALVES (TC 153)**

ISO/DIS 5210, Industrial valves - Multi-turn valve actuator attachments - 2/28/2016, \$67.00

ISO/DIS 5211, Industrial valves - Part-turn actuator attachments - 2/28/2016, \$82.00

**WATER QUALITY (TC 147)**

ISO 9308-1/DAmD1, Water quality - Enumeration of Escherichia coli and coliform bacteria - Part 1: Membrane filtration method for waters with low bacterial background flora - Amendment 1 - 2/28/2016, \$29.00

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

ISO/DIS 15296, Gas welding equipment - Vocabulary - Terms used for gas welding equipment - 2/28/2016, \$67.00

ISO/DIS 19828, Welding for aerospace applications - Visual inspection of welds - 4/30/2016, \$62.00

ISO/DIS 5175-1, Gas welding equipment - Safety devices - Part 1: Incorporating a flame (flashback) arrestor - 2/28/2016, \$71.00

ISO/DIS 5175-2, Gas welding equipment - Safety devices - Part 2: Not incorporating a flame (flashback) arrestor - 2/28/2016, \$58.00

ISO/DIS 17279-1, Welding - Micro joining of 2nd generation high temperature superconductors - Part 1: General requirements for the procedure - 5/7/2016, \$119.00

ISO/DIS 17279-2, Welding - Micro joining of 2nd generation high temperature superconductors - Part 2: Qualification for welding and testing personnel - 5/7/2016, \$77.00

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

ISO/IEC 23003-2/DAmD5, Information technology - MPEG audio technologies - Part 2: Spatial Audio Object Coding (SAOC) - Amendment 5: SAOC Reference Software - 2/29/2016, \$33.00

ISO/IEC DIS 17826, Information technology - Cloud Data Management Interface (CDMI) - 2/25/2016, \$215.00

**IEC Standards**

1/2296/CDV, Amendment 2 to IEC 60050-617: International Electrotechnical Vocabulary - Part 617: Organization/Market of electricity, 04/29/2016

9/2138/NP, Railway applications - Direct current signalling monostable relays of spring type (proposed project 62912-2), 04/22/2016

34C/1190/NP, PNW 34C-1190: IEC 62386-216: Digital addressable lighting interface - Part 216: Particular requirements for control gear - Load referencing (device type 15), 04/22/2016

34C/1191/NP, PNW 34C-1191: IEC 62386-217: Digital addressable lighting interface - Part 217: Particular requirements for control gear - Thermal gear protection (device type 16), 04/22/2016

34C/1192/NP, PNW 34C-1192: IEC 62386-218: Digital addressable lighting interface - Part 218: Particular requirements for control gear - Dimming Curve Selection (device type 17), 04/22/2016

34C/1193/NP, PNW 34C-1193: IEC 62386-220: Digital addressable lighting interface - Part 220: Particular requirements for control gear - Centrally Supplied DC Emergency Operation (device type 19), 04/22/2016

34C/1194/NP, PNW 34C-1194: IEC 62386-222: Digital addressable lighting interface - Part 222: Particular requirements for control gear - Thermal lamp protection (device type 21), 04/22/2016

34C/1195/NP, PNW 34C-1195: IEC 62386-224: Digital addressable lighting interface - Part 224: Particular requirements for control gear - Integrated light source (device type 23), 04/22/2016

35/1358/CD, IEC 60086-4/Ed5: Primary batteries - Part 4: Safety of lithium batteries, 04/22/2016

36/377/CD, IEC 61952-1 Ed. 1.0: Insulators for overhead lines - Composite line post insulators for A.C systems with a nominal voltage greater than 1000 V - Part 1: Definitions, End fittings and Designations, 04/22/2016

38/499/DTR, IEC TR 62689-100: Current and Voltage sensors or detectors, to be used for fault passage indication purposes - Part 100: Requirements and proposals for IEC 61850 data model extensions to support Fault Passage Indicators applications, 03/25/2016

46/591/CD, IEC /TR 62839-2 Environmental declaration:Part 2: Optical/copper telecom accessories products specific rules, 04/22/2016

47E/536/CD, IEC 60747-17 Ed.1: Semiconductor devices - Magnetic and capacitive coupler for basic and reinforced insulation, 04/22/2016

49/1183/CD, IEC 63041-1 Ed.1: Sensor devices using piezoelectric bulk or surface acoustic waves - Part 1: Generic specifications, 04/22/2016

49/1184/CD, IEC 63041-2 Ed.1: Sensor devices using piezoelectric bulk or surface acoustic waves - Part 2: Chemical sensors and Biosensors, 04/22/2016

59/646/CD, IEC 62950 TS Ed.1: Household and similar electrical appliances - Specifying smart capabilities of appliances and devices - General aspects, 05/20/2016

59F/294/Q, Preparation of new batteries in robot cleaners and cordless dry vacuum cleaners, 04/01/2016

59F/295/DTS, IEC 62885-1 TS Ed.1: Surface cleaning appliances - Part 1: General requirements, 04/22/2016

61/5106/FDIS, IEC 60335-2-7-A2/Ed7: Household and similar electrical appliances - Safety - Part 2-7: Particular requirements for washing machines, 03/11/2016

61/5107/FDIS, IEC 60335-2-9-A2/Ed6: Household and similar electrical appliances - Safety - Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances, 03/11/2016

61/5108/FDIS, IEC 60335-2-13-A1/Ed6: Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances, 03/11/2016

61/5110/FDIS, IEC 60335-2-31-A1/Ed5: Household and similar electrical appliances - Safety - Part 2-31: Particular requirements for range hoods and other cooking fume extractors, 03/11/2016

61/5111/FDIS, IEC 60335-2-97/Ed3: Household and similar electrical appliances - Safety - Part 2-97: Particular requirements for drives for shutters, awnings, blinds and similar equipment, 03/11/2016

61/5112/FDIS, IEC 60335-2-113/Ed1: Household and similar electrical appliances - Safety - Part 2-113: Particular requirements for cosmetic and beauty care appliances incorporating lasers and intense light sources, 03/04/2016

61D/333/FDIS, IEC 60335-2-40-A1/Ed5: Household and similar electrical appliances - Safety - Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers, 03/11/2016

64/2099/CD, IEC 60364-7-722: Low-voltage electrical installations - Part 7-722: Requirements for special installations or locations - Supplies for electric vehicles, 04/22/2016

65B/1030/CDV, IEC 61131-2 Ed 4.0: Programmable Controllers - Part 2: Equipment requirements and tests, 04/29/2016

78/1143/DTR, IEC 61243: Live working - Voltage detectors - Part 6: Guidelines on non-contact voltage detectors (NCVD) for use at nominal voltages above 1 kV a.c., 03/25/2016

- 79/539/NP, Electronic access control systems - Access control configuration for IP Interoperability based on Web Services (proposed IEC 60839-11-33), 04/22/2016
- 82/1071/FDIS, IEC 60904-3 Ed.3: Photovoltaic devices - Part 3: Measurement principles for terrestrial photovoltaic (PV) solar devices with reference spectral irradiance data, 03/11/2016
- 82/1073/CD, IEC 62446-3 TS Ed.1: Photovoltaic (PV) systems - Requirements for testing, documentation and maintenance - Part 3: Outdoor infrared thermography of photovoltaic modules and plants, 04/22/2016
- 85/523/CDV, IEC 62974-1: Monitoring and measuring systems used for data collection, gathering and analysis - Part 1: Device requirements, 04/29/2016
- 86A/1704/CDV, IEC 60794-2-30/Ed3: Optical fibre cables - Part 2-30: Indoor optical fibre cables - Family specification for optical fibre ribbon cables for use in terminated cable assemblies, 04/29/2016
- 86A/1710/CD, IEC 60793-1-47/Ed4: Optical fibres - Part 1-47: Measurement methods and test procedures - Macrobending loss, 03/25/2016
- 86C/1356/CDV, IEC 62150-5/Ed1: Fibre optic active components and devices - Test and measurement procedures - Part 5: Wavelength channel tuning time of tuneable transmitters, 04/29/2016
- 89/1305/CD, IEC 60695-1-14-TS/Ed1: Fire hazard testing - Part 1-14: Guidance on the different levels of power and electrical energy source classification related to the probability of ignition and fire, 03/25/2016
- 89/1307/NP, IEC TS 60695-2-15/Ed1.0: Fire hazard testing - Part 2 -15: Guidance for assessing the fire hazard of electrotechnical products - Classification based on the results of the Glow-wire flammability test method for end products (GWEPT), 04/22/2016
- 95/341/CD, IEC 60255-187-1 Ed.1: Measuring relays and protection equipment - Part 187-1: Functional requirements for restrained and unrestrained differential protection of motors, generators and transformers, 03/25/2016
- 100/2590A/CDV, IEC 62943/ED1 Visible light beacon system for multimedia applications, 04/01/2016
- 100/2595A/CDV, IEC 63002 Ed.1.0: Identification and communication interoperability method for external power supplies used with portable computing devices (TA 14), 04/08/2016
- 100/2641/FDIS, IEC 60728-101: Cable networks for television signals, sound signals and interactive services - Part 101: System performance of forward paths loaded with digital channels only, 03/11/2016
- 100/2642/DTR, IEC/TR 62935 Ed1: Technical Report of Measurement Methods - High Dynamic Range Video, 03/25/2016
- 110/735/CD, IEC 62629-13-1 Ed.1: 3D Display devices - Part 13-1: Visual inspection methods for stereoscopic displays using glasses - Ghost, 03/25/2016
- 113/306/DTS, IEC 62607-4-4: Nanomanufacturing - Key control characteristics - Part 4-4 Nano-enabled electrical energy storage devices - Thermal characterization of nanomaterials, nail penetration method, 04/22/2016
- 116/260/CDV, IEC 62841-3-13/Ed1: Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-13: Particular requirements for transportable drills, 04/29/2016
- 116/262/CDV, IEC 62841-2-10 Ed. 1.0: Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 2-10: Particular requirements for hand-held mixers, 04/29/2016
- 119/92/NP, Future IEC 62899-403-1: Printed Electronics - Part 403-1: Printability - Requirements for reproducibility - Basic patterns for evaluation of printing machine, 04/22/2016
- CIS/A/1147/CD, Amendment 2 to CISPR 16-4-2 (f3): Specification for radio disturbance and immunity measuring apparatus and methods - Part 4-2: Uncertainties, statistics and limit modelling - Measurement instrumentation uncertain, 04/22/2016
- CABPUB/121/CD, ISO/IEC CD 17011: Conformity assessment - Requirements for accreditation bodies accrediting conformity assessment bodies, 04/01/2016



# Newly Published ISO & IEC Standards

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

## ISO Standards

### ISO/IEC JTC 1 Technical Reports

[ISO/IEC TR 13066-2:2016](#), Information technology - Interoperability with assistive technology (AT) - Part 2: Windows accessibility application programming interface (API), \$265.00

### AGRICULTURAL FOOD PRODUCTS (TC 34)

[ISO 29841/Amd1:2016](#), Vegetable fats and oils - Determination of the degradation products of chlorophylls a and a' (pheophytins a, a' and pyropheophytins) - Amendment 1, \$22.00

### AIRCRAFT AND SPACE VEHICLES (TC 20)

[ISO 19281:2016](#), Air cargo - Fire resistant containers - Design, performance and testing requirements, \$149.00

### FORENSIC SCIENCES (TC 272)

[ISO 18385:2016](#), Minimizing the risk of human DNA contamination in products used to collect, store and analyze biological material for forensic purposes - Requirements, \$149.00

### HYDROMETRIC DETERMINATIONS (TC 113)

[ISO 24155:2016](#), Hydrometry - Hydrometric data transmission systems - Specification of system requirements, \$200.00

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

[ISO 17668:2016](#), Zinc diffusion coatings on ferrous products - Sherardizing - Specification, \$123.00

### PLASTICS (TC 61)

[ISO 30012:2016](#), Carbon-fibre-reinforced plastics - Determination of the size and aspect ratio of crushed objects, \$88.00

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

[ISO 8513:2016](#), Plastics piping systems - Glass-reinforced thermosetting plastics (GRP) pipes - Test methods for the determination of the initial longitudinal tensile strength, \$88.00

### SMALL TOOLS (TC 29)

[ISO 21538:2016](#), Blanks for superabrasive cutting-off wheels - Mounting and fixing bores - Building construction and civil engineering, \$51.00

[ISO 7388-3:2016](#), Tool shanks with 7/24 taper for automatic tool changers - Part 3: Retention knobs of forms AD, AF, UD, UF, JD and JF, \$88.00

### STEEL (TC 17)

[ISO 4939:2016](#), Steel - Determination of nickel - Dimethylglyoxime spectrophotometric method, \$88.00

### TEXTILES (TC 38)

[ISO 17881-1:2016](#), Textiles - Determination of certain flame retardants - Part 1: Brominated flame retardants, \$88.00

[ISO 17881-2:2016](#), Textiles - Determination of certain flame retardants - Part 2: Phosphorus flame retardants, \$88.00

### WELDING AND ALLIED PROCESSES (TC 44)

[ISO 9015-2:2016](#), Destructive tests on welds in metallic materials - Hardness testing - Part 2: Microhardness testing of welded joints, \$88.00

### WOOD-BASED PANELS (TC 89)

[ISO 16895:2016](#), Wood-based panels - Dry-process fibreboard, \$173.00

## ISO Technical Specifications

### PLASTICS (TC 61)

[ISO/TS 19022:2016](#), Plastics - Method of controlled acceleration of laboratory weathering by increased irradiance, \$88.00

## ISO/IEC JTC 1, Information Technology

[ISO/IEC 8652/Cor1:2016](#), Information technology - Programming languages - Ada - Corrigendum, FREE

[ISO/IEC 29192-4/Amd1:2016](#), Information technology - Security techniques - Lightweight cryptography - Part 4: Mechanisms using asymmetric techniques - Amendment 1, \$22.00

[ISO/IEC 18477-6:2016](#), Information technology - Scalable compression and coding of continuous-tone still images - Part 6: IDR Integer Coding, \$173.00

[ISO/IEC 18477-7:2016](#), Information technology - Scalable compression and coding of continuous-tone still images - Part 7: HDR Floating-Point Coding, \$200.00

## IEC Standards

### ELECTRIC TRACTION EQUIPMENT (TC 9)

[IEC 60310 Ed. 4.0 b:2016](#), Railway applications - Traction transformers and inductors on board rolling stock, \$339.00

[IEC 62625-2 Ed. 1.0 b:2016](#), Electronic railway equipment - On board driving data recording system - Part 2: Conformity testing, \$303.00

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

[IEC 60079-14 Ed. 5.0 b cor.1:2016](#), Corrigendum 1 - Explosive atmospheres - Part 14: Electrical installations design, selection and erection, Free

**FIBRE OPTICS (TC 86)**

[IEC 61754-4 Ed. 2.0 b:2013](#), Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 4: Type SC connector family, \$254.00

[IEC 62074-1 Ed. 2.0 b:2014](#), Fibre optic interconnecting devices and passive components - Fibre optic WDM devices - Part 1: Generic specification, \$303.00

[IEC 61753-1-3 Ed. 1.0 b:2014](#), Fibre optic interconnecting devices and passive components - Performance standard - Part 1-3: General and guidance for single-mode fibre optic connector and cable assembly for industrial environment, Category I, \$121.00

[IEC 60794-3-70 Ed. 1.0 b:2016](#), Optical fibre cables - Part 3-70: Outdoor cables - Family specification for outdoor optical fibre cables for rapid/multiple deployment, \$73.00

[IEC 61753-089-2 Ed. 1.0 b:2013](#), Fibre optic interconnecting devices and passive components - Performance standard - Part 089-2: Non-connectorized single-mode bidirectional OTDR monitoring WWDM devices for category C - Controlled environment, \$85.00

**FIRE HAZARD TESTING (TC 89)**

[IEC 60695-1-20 Ed. 1.0 b:2016](#), Fire hazard testing - Part 1-20: Guidance for assessing the fire hazard of electrotechnical products - Ignitability - General guidance, \$182.00

[IEC 60695-11-20 Ed. 2.0 b cor.1:2016](#), Corrigendum 1 - Fire hazard testing - Part 11-20: Test flames - 500 W flame test method, \$0.00

**INSULATING MATERIALS (TC 15)**

[IEC 60455-2 Ed. 3.0 b:2015](#), Resin based reactive compounds used for electrical insulation - Part 2: Methods of test, \$254.00

**SECONDARY CELLS AND BATTERIES (TC 21)**

[IEC 62877-1 Ed. 1.0 b:2016](#), Electrolyte and water for vented lead acid accumulators - Part 1: requirements for electrolyte, \$61.00

[IEC 62877-2 Ed. 1.0 b:2016](#), Electrolyte and water for vented lead acid accumulators - Part 2: Requirements for water, \$36.00

**SHORT-CIRCUIT CURRENTS (TC 73)**

[IEC 60909-0 Ed. 2.0 b:2016](#), Short-circuit currents in three-phase a.c. systems - Part 0: Calculation of currents, \$339.00

**IEC Technical Specifications****SOLAR PHOTOVOLTAIC ENERGY SYSTEMS (TC 82)**

[IEC/TS 62941 Ed. 1.0 en:2016](#), Terrestrial photovoltaic (PV) modules - Guideline for increased confidence in PV module design qualification and type approval, \$182.00

# Proposed Foreign Government Regulations

## Call for Comment

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

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

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

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

# Information Concerning

## American National Standards

### INCITS Executive Board

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

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

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

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

- **Producer – Hardware**

This category primarily produces hardware products for the ITC marketplace.

- **Producer – Software**

This category primarily produces software products for the ITC marketplace.

- **Distributor**

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

- **User**

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

- **Consultants**

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

- **Standards Development Organizations and Consortia**

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

- **Academic Institution**

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

- **Other**

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

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

### Calls for Members

#### Society of Cable Telecommunications

##### ANSI Accredited Standards Developer

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

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

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

## ANSI Accreditation Program for Third Party Product Certification Agencies

### Request for Scope Extension

#### American Architectural Manufacturers Association (AAMA)

##### Comment Deadline: March 7, 2016

Jason Seals - Certification Manager  
 American Architectural Manufacturers Association (AAMA)  
 1827 Walden Office Square, Suite 5  
 Schaumburg, IL 60173  
 Phone: 847-303-5859  
 Fax: 847-303-5774  
 E-mail: [JSeals@aamanet.org](mailto:JSeals@aamanet.org)  
 Web: [www.aamanet.org/](http://www.aamanet.org/)

American Architectural Manufacturers Association (AAMA), an ANSI-accredited certification body, has requested an extension of its scope of ANSI accreditation to include the following:

##### Scope(s):

Certification of windows and doors intended for installation in manufactured housing

Please send your comments by March 7, 2016 to Reinaldo Balbino Figueiredo, Sr. Program Director, Product Certifier Accreditation, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036, Fax: 202-293-9287 or e-mail: [rfigureir@ansi.org](mailto:rfigureir@ansi.org), or Nikki Jackson, Sr. Program Manager, Product Certifier Accreditation, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036, Fax: 202-293-9287 or e-mail: [njackson@ansi.org](mailto:njackson@ansi.org).

# International Organization for Standardization (ISO)

## Call for International (ISO) Secretariat

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

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

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

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

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

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

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

## New Work Item Proposal

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

#### Comment Deadline: March 25, 2016

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

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

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

# Information Concerning

## International Organization for Standardization (ISO)

### Call for International (ISO) Secretariat

#### ISO/IEC JTC 1/SC 37 – Biometrics

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

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

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

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

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

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

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

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

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

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**CGA G-13—2015**  
**STORAGE AND HANDLING OF  
SILANE AND SILANE MIXTURES**  
**THIRD EDITION**



*The Standard For Safety Since 1913*

**System airflow requirement for ventilated enclosures, exhausted enclosures, and gas cabinets**

Exhaust ventilation shall be used to prevent accumulation of silane resulting from a leak and to limit the silane concentration to an average of 0.4%, which is a 250-to-1 volume ratio. Experiments have shown that a 0.4% (average) concentration is capable of causing a partial volume deflagration (PVD) inside the cabinet. The 0.4% limit was estimated to correspond to an overpressure that would vent the explosion by failure of the cabinet latches.

**Standard silane volumetric flow rate—unattended operations**

The standard silane volumetric flow rate for unattended operations shall be determined by the maximum flow rate of silane that can be discharged from the piping system into the enclosure. The flow rate is determined by the size of the RFO in the discharge line or cylinder valve at the maximum silane source pressure. For concentrations of silane less than a nominal 100%, the standard silane volumetric flow shall be determined based on the mole or volume fraction of silane present in the supply source. The minimum volumetric flow rate of air ventilation across unwelded fittings and connections at the silane source cylinder or the piping system shall not be less than the maximum silane volumetric flow rate multiplied by 250. For gas cabinets, the maximum silane volumetric flow rate is determined by the maximum flow through an RFO with a maximum source pressure on the inlet and 1 atm on the outlet. This assumes a rupture of the connecting tubing or piping between the cylinder valve and the first point of pressure control within the delivery system. For a VMB or other enclosure, the maximum silane flow into the enclosure shall be determined. The use of an RFO in the piping feeding the enclosure may be used to restrict the maximum flow into the enclosure.

Where mixtures of silane and other pyrophoric gases are present, the standard silane volumetric flow rate shall be determined by assuming that the combination of silane and other pyrophoric components is all silane. For typical flows, see Table 6.

**Minimum volumetric airflow rate for cabinets and enclosures, unattended operations**

Table 6 illustrates the minimum volumetric flow rate of air as a function of RFO size and source pressure for four specific orifices typical of those used in conjunction with gas cabinets and VMBs. Regardless of the orifice used, the minimum volumetric flow rate of dilution air shall not be less than the standard silane volumetric flow rate multiplied by 250.

**Table 6—Minimum ventilation volumetric flow rate for gas cabinets and valve manifold boxes—unattended operations**

Source pressure (psi)	Typical gas cabinet RFO 0.006 in (0.15 mm) diameter		Typical gas cabinet RFO 0.010 in (0.25 mm) diameter		Typical VMB RFO 0.014 in (0.36 mm) diameter		Typical VMB RFO 0.020 in (0.51 mm) diameter	
	Silane flow (scfm)	Ventilation flow (scfm)	Silane flow (scfm)	Ventilation flow (scfm)	Silane flow (scfm)	Ventilation flow (scfm)	Silane flow (scfm)	Ventilation flow (scfm)
50	0.025	6	0.069	17	0.136	34	0.288	72
100	0.045	11	0.124	31	0.243	61	0.497	124
200	0.085	21	0.237	59	0.465	116	0.949	237
400	0.173	43	0.480	120	—	—	—	—
600	0.275	69	0.755	189	—	—	—	—
800	0.395	99	1.08	270	—	—	—	—
1000	0.555	139	1.51	378	—	—	—	—
1200	0.724	181	1.97	493	—	—	—	—
1500	0.913	228	2.50	625	—	—	—	—
1650	0.987	247	2.70	675	—	—	—	—

**NOTES**

- 1 Silane source temperature is 75 °F (24 °C).
- 2 RFO downstream pressure is 0 psi.
- 3 RFO discharge coefficient is 0.8.
- 4 To convert standard cubic feet per minute (scfm) to standard liters per minute (slpm), multiply by 28.32.
- 5 To convert psi to kPa, multiply by 6.895.

Forced exhaust ventilation of gas filling rooms shall be provided per local building/fire codes or 6 air changes per hour, whichever is greater. The design of the ventilation shall be optimized to focus airflow to the highest risk areas. Silane fill rooms shall operate at negative pressure versus the surrounding building.

Unless provided with firewater sprinklers, noncombustible ventilation ductwork shall be used.

Ventilation systems shall have monitors to alarm on failure of airflow. See 13.2.5.

Minimum ventilation volumetric flow rate for exhausted enclosures—The standard silane leak volumetric flow rate used for filling in an exhausted enclosure shall be determined by assuming discharge from a valve or fitting under the maximum silane source pressure through an opening with an equivalent diameter of 0.006 in (0.15 mm). This equivalent leak diameter shall be used to determine the potential leak rate. The minimum exhausted volumetric flow rate of dilution air shall not be less than the standard silane leak volumetric flow rate multiplied by 250. See Table 9 for minimum flows.

**Table 9—Minimum ventilation volumetric flow rate for exhausted enclosures**

Source pressure (psi)	0.006 in (0.15 mm) diameter leak	
	Silane flow (scfm)	Ventilation flow (scfm)
50	0.025	6
100	0.045	11
200	0.085	21
400	0.173	43
600	0.275	69
800	0.395	99
1000	0.555	139
1200	0.724	181
1500	0.913	228
1650	0.987	247

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Tracking number 60i66r1  
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Revision to NSF/ANSI 60 – 2015  
Issue 66 Revision 1 (January 2016)

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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

5 Chemicals for corrosion and scale control, softening, precipitation, sequestering, and pH adjustment

Table 5.1 – Chemicals for corrosion and scale control, softening, sequestering, precipitation, and pH adjustment – product identification and evaluation

Chemical type (primary use)	Synonyms	Formula (CAS number)	Molecular weight (g)	Preparation method	Typical use level <sup>1</sup> (mg/L)	Minimum Test Batteries of Chemistry-specific analyses <sup>2</sup>
carbon dioxide (pH adjustment)	—	CO <sub>2</sub> (124-38-9)	44	method E, Annex B, section B.3.6	200 600	VOCs

**Reason: Revised per 2014 DWA-TC JC discussion to better reflect usage of water utilities that may require doses up to 600 ppm for pH control.**

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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 System Components – Health Effects

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### **3 General requirements**

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#### **3.2 Information and formulation requirements**

The following information shall be obtained and reviewed for all materials with a water contact surface to determine the appropriate analytical testing and to ensure that the potential health effects of products and materials are accurately and adequately identified:

- the product section(s) under which the product, component, or material is covered and the intended function or end use of the product or the material;
- for assemblies, sub-assemblies, products or components, a list of all materials and their corresponding surface areas that come into direct contact with water;
- when appropriate, the total volume of water that the product can hold when filled to capacity;
- ~~the expected service life of the product;~~
- the anticipated minimum, maximum, and average volumes of water that come into contact with the product, component, or material during a 24-h period;

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. .

***Reason: Removed per 2014 annual DWA-SC JC meeting discussion (December 4, 2014)***

## BSR/UL 746A, Standard for Safety for Polymeric Materials – Short Term Property Evaluations

### 1. Reverse Test Voltage Trend in Comparative Tracking Index (CTI)

#### PROPOSAL

#### 24 Comparative Tracking Index and Comparative Tracking Performance Level Categories of Electrical Insulation Materials

24.1 (No Change - Shown for Reference Only) ASTM Method: the test method for determining the comparative tracking index of electrical insulation materials - which is the voltage, as determined under the conditions specified in the Standard Test Method for Comparative Tracking Index of Electrical Insulation Materials, ASTM D 3638, that causes a permanent electrically conductive carbon path with the application of 50 drops of electrolyte that is applied at the rate of one drop every 30 seconds to the specimen. This test is used as a measure of the susceptibility of the material to tracking.

24.2 (No Change - Shown for Reference Only) The Comparative Tracking Performance Level Category (PLC) is to be assigned based on the ASTM D 3638 Comparative Tracking Index (voltage) in accordance with the ranges specified in Table 24.1.

**Table 24.1 (No Change - Shown for Reference Only)**

#### Comparative tracking performance level categories

Range - tracking index (volts)					Assigned PLC
600	≤	TI			
400	≤	TI	<	600	1
250	≤	TI	<	400	2
175	≤	TI	<	250	3
100	≤	TI	<	175	4
0	≤	TI	<	100	5

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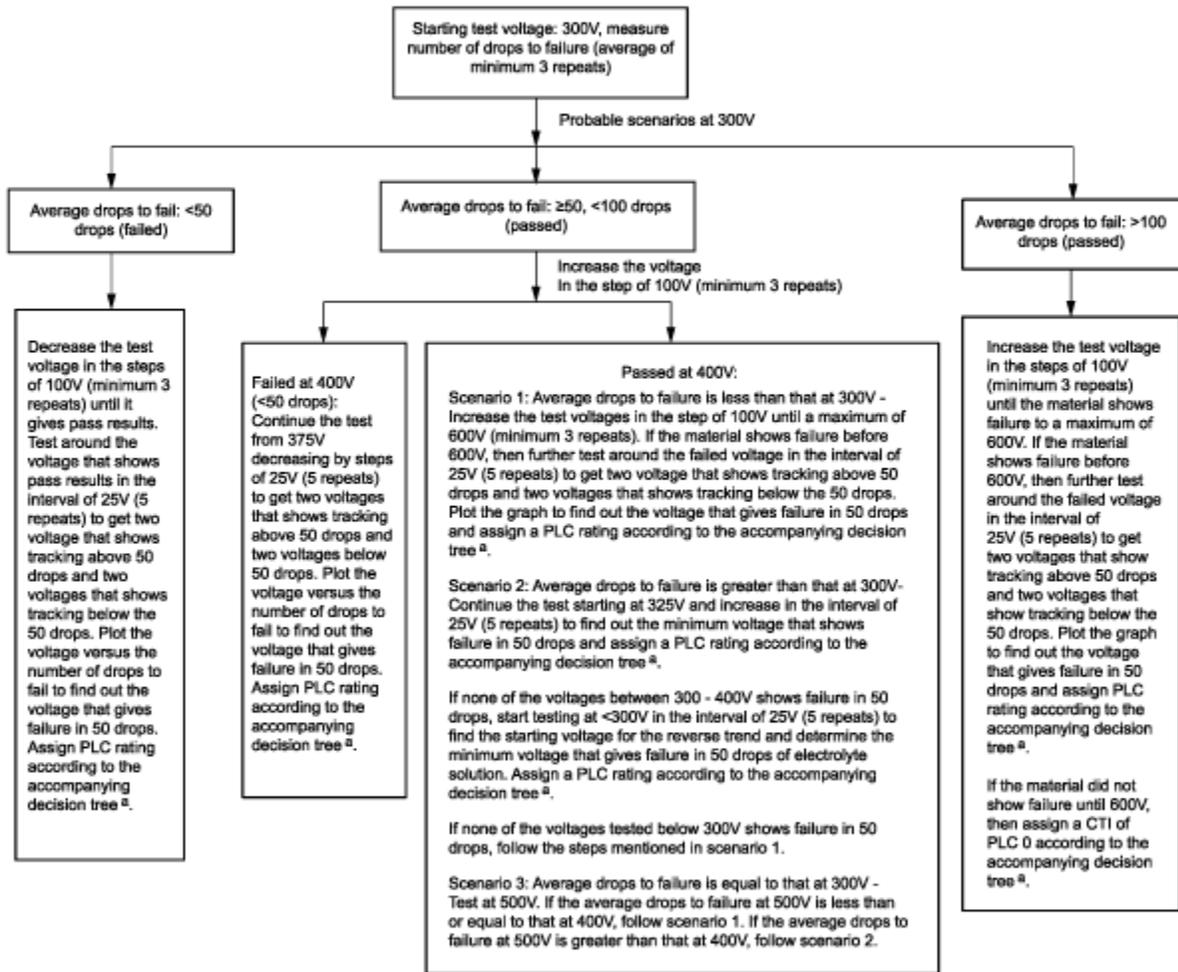
24.3 (No Change - Shown for Reference Only) IEC Method: The test method for determining the comparative tracking index of electrical insulation materials - which is the highest voltage, as determined under the conditions specified in the Method for determining proof and comparative tracking indices of solid insulating materials, IEC 60112, that does not cause a permanent electrically conductive carbon path within the application of 50 drops of electrolyte for 5 specimens without a persistent flame and is at least 25 volts higher than the highest voltage not to track for 100 drops for 5 specimens without a persistent flame. This test is used as a measure of the susceptibility of the material to tracking.

24.4 The test method for determination of the Comparative Tracking Index per ASTM D 3638 is to be supplemented by the procedure indicated in Figure 24.1.

### **Figure 24.1**

#### **CTI Decision tree**

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## BSR/UL 1449, Standard for Safety for Surge Protective Devices

### 2. Testing Methods for Combination Type SPDs

44.2.3 For each representative device, the overvoltage is to be applied for 7 hours, or until the SPD becomes disconnected from the ac supply (due, for example, to open circuiting of a thermal or overcurrent protective device).

*Exception: For permanently connected (Type 1 and Type 2 SPDs) devices that do not conduct current (beyond leakage current) when subjected to the test, any one of the following options, or any combination thereof, shall be implemented and the test described in 44.2.1 repeated:*

- a) Short out any voltage switching components with solid wire that shall not open during this test;
- b) Increase the test voltage above the values in 44.1 until ~~operation~~ disconnection occurs; or
- c) Use lower voltage rated nonlinear voltage limiting and/or voltage switching components. ~~as follows with test~~ Test at the maximum voltage specified in Table 44.1 until disconnection occurs.
  - 1) ~~Voltage limiting components may be replaced with lower voltage rated (MCOV shall be in a range of 60–80 percent of the nominal system voltage of the SPD mode being tested) components from the same manufacturer and product family with identical chemical composition (when replacing voltage limiting components used in series with voltage switching components, the 60–80 percent does not apply).~~
  - 2) ~~Voltage switching devices may be replaced with lower voltage rated (breakdown voltage is lower than the peak of the test voltage) components from the same manufacturer and product family with identical physical dimensions.~~
  - 3) For combination type SPDs with voltage limiting components in series with voltage switching devices, voltage limiting components may be replaced with lower voltage rated components from the same manufacturer and product family with identical chemical composition and voltage switching devices may be replaced with lower voltage rated (breakdown voltage is lower than the peak of the test voltage) components from the same manufacturer and product family with identical physical dimensions to achieve conduction.
- d) For voltage switching-type SPDs, a combination waveform surge shall be applied on the AC power source at a voltage level to turn on the SPD.

44.3.2 For each representative device, the overvoltage is to be applied for 7 hours, or until the SPD becomes disconnected from the ac supply (due, for example, to open circuiting of a thermal or overcurrent protective device).

*Exception: For permanently connected devices that do not conduct current (beyond leakage current) nor exhibit any conditions described in 44.1.11 when subjected to the test, any one of the following options, or any combination thereof, shall be implemented and the test described in 44.3.1 repeated:*

- a) Short out any voltage switching components with solid wire that shall not open during this test;
- b) Increase the test voltage above the values in 44.1 until ~~operation~~ disconnection occurs; or
- c) Use lower voltage rated nonlinear voltage limiting and/or voltage switching components. ~~as follows with test~~ Test at the maximum voltage specified in Table 44.1 until disconnection occurs.

1) ~~Voltage limiting components may be replaced with lower voltage rated (MCOV shall be in a range of 60 – 80 percent of the nominal system voltage of the SPD mode being tested) components from the same manufacturer and product family with identical chemical composition (when replacing voltage limiting components used in series with voltage switching components, the 60 – 80 percent does not apply).~~

2) ~~Voltage switching devices may be replaced with lower voltage rated (breakdown voltage is lower than the peak of the test voltage) components from the same manufacturer and product family with identical physical dimensions.~~

3) For combination type SPDs with voltage limiting components in series with voltage switching devices, voltage limiting components may be replaced with lower voltage rated components from the same manufacturer and product family with identical chemical composition and voltage switching devices may be replaced with lower voltage rated (breakdown voltage is lower than the peak of the test voltage) components from the same manufacturer and product family with identical physical dimensions to achieve conduction.

d) For voltage switching-type SPDs, a combination waveform surge shall be applied on the AC power source at a voltage level to turn on the SPD.

### 3. Interchangeability of Metal Oxide Varistors (MOVs)

#### 33 Interchangeability of Metal Oxide Varistors (MOVs)

33.1 The following requirements shall be applied when substituting discrete component Type 5 MOVs within SPDs:

- a) ~~Interchangeability of MOVs shall be applicable to Type 1, Type 2, or Type 1, 2, component assemblies and Type 4 component assemblies. Also, Type 3, Type 3 component assemblies where the MCOV of the MOVs do not conduct during Current Testing, 44 is greater than the Current Testing voltage in Table 44.1.~~
- b) ~~The SPD shall be provided with a metal enclosure or a plastic enclosure that complies with flammability 5 inch (127 mm) flame test in the Standard for Polymeric Materials-Use in Electrical Equipment Evaluations, UL 746C.~~
- c) Replacement MOV shall have the same orientation and location as the original MOV.
- d) Replacement MOV shall comply with the requirements in this standard.
- e) Replacement MOV shall have the same MCOV as the original MOV with a maximum tolerance of ±4% 2 percent.
- f) Replacement MOV disk diameter shall be equal to the original MOV or the geometric area shall be equal, i.e. when replacing a round MOV with a square one with a tolerance of ±10%.
- g) Replacement MOV shall have the following test specification data equivalent to the original MOV:
  - 1) ~~Peak Surge Current~~ Nominal Discharge Current, (I<sub>n</sub>)
    - i) Replacement MOV shall have an equal or greater I<sub>n</sub> rating as the original MOV.
  - 2) Measured Limiting Voltage (MLV)

- i) Replacement MOV MLV shall be less than or equal to, but not greater than ~~10 percent~~, 110% of the original MOV.

*Exception: If replacement MOV(s) has a MLV and a In rating, greater than 40% 110%, conduct Determination of Voltage Protection Rating Test, Section 40.6 on the SPD with the replacement MOV installed. If the average limiting voltage measured is less than or equal to, but not greater than ~~10% percent~~ of the average limiting voltage measured using the original MOV(s), then the replacement MOV is considered to comply with this requirement.*

3) ~~Dielectric Withstand~~

- i) ~~Replacement MOV shall comply with the Dielectric Withstand Test in this standard.~~

4) Nominal Varistor Voltage

- i) Replacement MOV nominal varistor voltage (Vn) ~~range~~ shall be within ±4% of the original MOV's ~~specified range~~ nominal varistor voltage (Vn).

- h) ~~The replacement MOV epoxy flammability rating shall be equivalent to the original MOV epoxy flammability rating with a minimum UL 94 V-0. The coating of the replacement MOV shall be of the same generic material, such as epoxy powder coating, as the original MOV.~~

## 6. Addition of Requirements for Open Type SPDs

39.16 Open-type SPDs, subjected to the Temperature Test, shall be mounted in an enclosure considered representative of the intended use. The maximum enclosure dimensions are to be determined by one of the following methods:

- a) 150 percent of the dimensions of the device - that is, length, width, and height;
- b) Dimensions needed to meet the wire-bending space specified in UL 508, Table 6.8;
- c) The intended enclosure, such as a standard outlet box; or
- d) The intended enclosure, which may be larger than indicated in 39.16(a) - (c) provided the size is marked on the device, detailed in the installation instructions or provided on a separate stuffer sheet. (See 80.35).

80.35 SPDs provided with terminals for connection of field-wiring shall have the following markings adjacent to the terminal:

- a) Conductor size or range of sizes;
- b) Tightening torque or range of values;
- c) Solid or stranded conductor other than as shall be marked "Solid" (or "Sol") or "Stranded" ("or Str") or with both markings as applicable;
- d) "Al Only" or "Use Aluminum Conductors Only" if the terminal is acceptable only for connection to aluminum wire;

or

"Cu/Al" or "Use Copper or Aluminum Conductors " or "Use Copper, Copper-Clad Aluminum, or Aluminum Conductors " if the terminal is acceptable for connection to either copper or aluminum wire;

or

"Cu Only" or "USE COPPER OR COPPER-CLAD ALUMINUM CONDUCTORS " if the terminal is acceptable for connection to either copper or copper-clad aluminum wire;

e) If a terminal is acceptable for the connection of more than one conductor in the same opening and is intended for such use, the marking shall indicate the proper connection; and

f) Conductor strip length.

*Exception No. 1: This marking is able to be provided on a on a stuffer sheet, on the individual carton or in the installation instructions when there is not sufficient room on the device for the marking.*

*Exception No. 2 1: A field-wiring terminal intended only for the connection of a control circuit conductor (i.e. a status circuit) is not required to be marked with a value of tightening torque when tested in accordance with the applicable requirements in UL 486A-486B or UL 486E, with a value of tightening torque of 7 pound-inches (0.8 N•m).*

81.1 An instruction manual or the equivalent shall be provided, shall only reference those applications that have been evaluated, and shall include the following:

a) Instructions for installation: Instructions for permanently wired devices shall include the wire gauge sizes, the ampacity of the circuit the device is intended for use on, and the internal wiring methods showing location and routing. The instructions shall state: "The conductors used to connect the SPD to the line or bus and to ground shall not be any longer than necessary and shall avoid unnecessary bends" or similar wording.

b) Instructions for mounting. For open-type SPDs, instructions specify ~~specifies~~ that the SPD is intended for installation within a suitable enclosure in accordance with the National Electrical Code, ANSI/NFPA 70.

c) An explanation of the purpose and function of any indicator (lights, audio indicators, and similar indicators) features employed on the SPD.

d) The interrupting rating of any required external circuit breaker or the short-circuit current level of any required external fuse.

e) The following statement shall be required for SPDs intended for use on ungrounded power systems: "Caution - Ungrounded power systems are inherently unstable and can produce excessively high line-to-ground voltages during certain fault conditions. During these fault conditions any electrical equipment, including an SPD, may be subjected to voltages which exceed their designed ratings. This information is being provided to the user so that an informed decision can be made before installing any electrical equipment on an ungrounded power system."

f) A rack-mounted cord-connected Type 3 SPD shall be provided with instructions for mounting within portable and/or stationary equipment, as applicable.

g) SPDs with terminals for connection of field-wiring shall include:

1) Conductor size or range of sizes;

- 2) Tightening torque or range of values;
- 3) Solid or stranded conductor other than as shall be marked "Solid" (or "Sol") or "Stranded" ("or Str") or with both markings as applicable;
- 4) "Al Only" or "Use Aluminum Conductors Only " if the terminal is acceptable only for connection to aluminum wire;
- or
- "Cu/Al" or "Use Copper or Aluminum Conductors " or "Use Copper, Copper-Clad Aluminum, or Aluminum Conductors " if the terminal is acceptable for connection to either copper or aluminum wire;
- or
- "Cu Only" or "USE COPPER OR COPPER-CLAD ALUMINUM CONDUCTORS " if the terminal is acceptable for connection to either copper or copper-clad aluminum wire.
- 5) If a terminal is acceptable for the connection of more than one conductor in the same opening and is intended for such use, the marking shall indicate the proper connection; and
- 6) Conductor strip Length.

*Exception: A separate instruction manual is not required if the material covered in (a) - (e), is either marked on, or otherwise provided as part of, the equipment.*

## **7. Addition of Requirements for SPDs Intended for Connection Using Exposed Wiring Methods**

15.1.2 An SPD intended for connection using exposed wiring methods shall be provided with a bracket or similar means for mounting shall comply with the Strength of Mounting Test, Section ~~73A~~ 73B.

73B.1 SPDs intended for connection using exposed wiring methods shall be mounted in accordance with the manufacturers installation instructions. A force, in addition to the weight of the equipment, is applied downwards through the center of gravity of the equipment, for 1 min. The additional force shall be equal to three times the weight of the equipment but not less than 156 N (35 lbf). The equipment and its associated mounting means shall remain secure during the test. After the test, there shall be no malfunction of or damage to the mounting bracket, its securing means, or the SPD. ~~that portion of the product to which it is attached.~~

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