

## Contents

### American National Standards

<b>Call for Comment on Standards Proposals</b> .....	<b>2</b>
<b>Call for Members (ANS Consensus Bodies)</b> .....	<b>12</b>
<b>Final Actions</b> .....	<b>15</b>
<b>Project Initiation Notification System (PINS)</b> .....	<b>18</b>
<b>ANS Maintained Under Continuous Maintenance</b> .....	<b>22</b>
<b>ANSI-Accredited Standards Developers Contact Information</b> .....	<b>23</b>

### International Standards

<b>IEC Draft Standards</b> .....	<b>25</b>
<b>ISO and IEC Newly Published Standards</b> .....	<b>27</b>
<b>Proposed Foreign Government Regulations</b> .....	<b>29</b>
<b>Information Concerning</b> .....	<b>30</b>
<b>2019 Standards Action Publishing Schedule   Volume No. 50</b> .....	<b>42</b>

# 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: January 13, 2019

### NSF (NSF International)

#### Revision

BSR/NSF 50-201x (i154r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF 50-2017)

This Standard covers materials, components, products, equipment, and systems, related to public and residential recreational water facility operation.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Jason Snider, (734) 418-6660, [jsnider@nsf.org](mailto:jsnider@nsf.org)

BSR/NSF 140-201x (i27r2), Sustainability Assessment for Carpet (revision of ANSI/NSF 140-201x (i27r1))

This sustainability standard establishes criteria to measure the extent to which natural stone has been produced sustainably. The standard applies to all processors of natural stone, from quarry operations through final stone fabrication, and is intended to allow for both domestic and international market participation from natural dimension stone producers. In practice, the facility operator applies this Standard to quarry operations, stone fabrication, or both.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Kianda Franklin, (734) 827-3813, [kfranklin@nsf.org](mailto:kfranklin@nsf.org)

BSR/NSF 173-201x (i86r1), Dietary Supplements (revision of ANSI/NSF 173-2017)

The purpose of NSF/ANSI 173 is to serve as an evaluation tool for analyzing dietary supplements. Certification to this Standard serves as a communication tool between manufacturers of ingredients and finished product, retailers, healthcare practitioners, and consumers. This Standard provides test methods and evaluation criteria to allow for the determination that a dietary supplement contains the ingredients claimed on the label, either qualitatively or quantitatively, and that it does not contain specific undeclared contaminants. In some instances, validated laboratory methods are not yet available for analyzing certain ingredients. In such cases, new methods will be added to this Standard as they become available.

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

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

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 67-201X, Standard for Safety for Panelboards (revision of ANSI/UL 67-2018)

The intent of this project is to propose a revision of Supplement SB, Classified Circuit Breakers for Use with Specified Panelboards as an Alternate for Specified Circuit Breakers.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Derrick Martin, (510) 319-4271, [Derrick.L.Martin@ul.com](mailto:Derrick.L.Martin@ul.com)

BSR/UL 758-201X, Standard for Safety for Appliance Wiring Material (revision of ANSI/UL 758-2017)

(1) Conductor Size for IEC 60332-1 Flame Test, Revised 45.3; (2) Reinforced Jackets, Revised 13.1.1.

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

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

BSR/UL 1561-201x, Standard for Safety for Dry-Type General Purpose and Power Transformers (revision of ANSI/UL 1561-2015)

(1) Proposal to add cooper bus bar requirements.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Megan Monsen, (847) 664-1292, [megan.monsen@ul.com](mailto:megan.monsen@ul.com)

## Comment Deadline: January 28, 2019

### AAFS (American Academy of Forensic Sciences)

#### *New Standard*

BSR/ASB Std 090-201x, Standard for Sex Assessment in Forensic Anthropology (new standard)

This standard sets forth methods for assessing sex from adult skeletal elements obtained directly from skeletal remains or radiographic images of skeletal remains. The methods in this standard provide a morphologically based or mathematically based scientific manner for assessing sex, and for documenting the sex assessment process. This document does not include sex assessment in skeletal elements from subadults, or through DNA analysis.

Single copy price: Free

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

Document will be provided electronically on AAFS Standards Board website free of charge

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [asb@aafs.org](mailto:asb@aafs.org). Document and comments template can be viewed on the AAFS Standards Board website at: <http://www.asbstandardsboard.org/notice-of-standard-development-and-coordination//>

### AGMA (American Gear Manufacturers Association)

#### *Revision*

BSR/AGMA 2003-DXX-201x, Rating the Pitting Resistance and Bending Strength of Generated Straight Bevel, Zerol Bevel and Spiral Bevel Gear Teeth (revision and redesignation of ANSI/AGMA 2003-2010 (R2015))

This standard specifies a method for rating the pitting resistance and bending strength of generated straight bevel, zerol bevel, and spiral bevel gear teeth.

Single copy price: \$85.00 (AGMA Members); \$170.00 (Non-members)

Obtain an electronic copy from: [tech@agma.org](mailto:tech@agma.org)

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

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

### API (American Petroleum Institute)

#### *Reaffirmation*

BSR/API MPMS 14.3.1-2011 (R201x), Concentric, Square-edged Orifice Meters -General Equations and Uncertainty Guidelines (reaffirmation of ANSI/API MPMS 14.3.1-2011)

This standard provides a single reference for engineering equations, uncertainty estimations, construction and installation requirements, and standardized implementation recommendations for the calculation of flow rate through concentric, square-edged, flange-tapped orifice meters.

Single copy price: \$181.00

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

Order from: Jennifer Jones, (202) 682-8073, [jonesj@api.org](mailto:jonesj@api.org)

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

### APTech (ASC CGATS) (Association for Print Technologies)

#### *Reaffirmation*

BSR IT8.7/1-1993 (R201x), Graphic Technology Color Transmission Target for Input Scanner Calibration (reaffirmation of ANSI IT8.7/1-1993 (R2013))

Describes the layout and colorimetric values of a target which can be manufactured on any positive color transparency film and which is intended for use in the calibration of a photographic film scanner combination as used in the preparatory process for printing and publishing.

Single copy price: \$15.00

Obtain an electronic copy from: [jlinder@apttech.org](mailto:jlinder@apttech.org)

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

BSR IT8.7/2-1993 (R201x), Graphic Technology - Color Reflection Target For Input Scanner Calibration (reaffirmation of ANSI IT8.7/2-1993 (R2013))

Describes the layout and colorimetric values of a target which can be manufactured on any color photographic paper and which is intended for use in the calibration of a photographic paper/scanner combination (as used in the preparatory process for printing and publishing).

Single copy price: \$15.00

Obtain an electronic copy from: [jlinder@aptech.org](mailto:jlinder@aptech.org)

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

## **ASA (ASC S12) (Acoustical Society of America)**

### ***New Standard***

BSR/ASA S12.2-201x, Criteria for Evaluating Room Noise (new standard)

Provides three primary methods for evaluating room noise: a survey method that employs the A-weighted sound level; an engineering method that employs expanded noise criteria (NC) curves; and a method for evaluating low-frequency fluctuating noise using room noise criterion (RNC) curves.

Single copy price: \$120.00

Obtain an electronic copy from: [asastds@acousticalsociety.org](mailto:asastds@acousticalsociety.org)

Order from: Caryn Mennigke, (631) 390-0215, [asastds@acousticalsociety.org](mailto:asastds@acousticalsociety.org)

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

## **AVIXA (Audiovisual and Integrated Experience Association)**

### ***Revision***

BSR/AVIXA S601.01-201x, Audiovisual Systems Energy Management (revision and redesignation of ANSI/INFOCOMM 4M-2012)

This is an internationally applicable standard for the control, monitoring, and use of electric power for audiovisual (AV) systems, whereby power is conserved whenever possible using ongoing operational management, design principles, and component selection. AV systems that are managed in conformance with the Standard will include benchmarking, monitoring, and control. Energy management of an audiovisual system is accomplished through:

- Strategic design of the monitoring system, software, and components;
- Accurate implementation of the design;
- Testing procedures of installed systems;
- Ongoing supervision and control of the system;
- Creation and execution of an energy management plan; and
- Reporting and analysis of power consumption

Single copy price: \$75.00 (USD) (non-members); Free (AVIXA members)

Obtain an electronic copy from: <http://www.avixa.org/standards>

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

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

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

### ***New Standard***

BSR/AWS A5.17/A5.17M-201x, Specification for Carbon Steel Electrodes and Fluxes for Submerged Arc Welding (new standard)

This specification provides requirements for the classification of solid and composite carbon steel electrodes and fluxes for submerged arc welding. Electrode classification is based on chemical composition of the electrode for solid electrodes and chemical composition of the weld metal for composite electrodes. Flux classification is based on the mechanical properties of weld metal produced with the flux and an electrode classified in this standard. Additional requirements are included for sizes, marking, manufacturing and packaging. The form and usability of the flux are also included. A guide is appended to the specification as a source of information concerning the classification system employed and the intended use of submerged arc fluxes and electrodes.

Single copy price: \$36.00

Obtain an electronic copy from: [gupta@aws.org](mailto:gupta@aws.org)

Order from: Rakesh Gupta, (305) 443-9353 EXT 301, [gupta@aws.org](mailto:gupta@aws.org)

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

## **LIA (ASC Z136) (Laser Institute of America)**

### **Revision**

BSR Z136.5-201x, Standard for Safe Use of Lasers in Educational Institutions (revision of ANSI Z136.5-2009)

This standard applies the requirements of the ANSI Z136.1 to the unique environments associated with educational institutions, including teaching laboratories, classrooms, lecture halls, science fairs as well as projects on and off campus, and science museums, when they incorporate lasers into their educational process. It is intended for staff and students using lasers for academic instruction in university, college, secondary, or primary educational facilities.

Single copy price: \$30.00

Obtain an electronic copy from: [bsams@lia.org](mailto:bsams@lia.org)

Order from: Barbara Sams, (407) 380-1553, [bsams@lia.org](mailto:bsams@lia.org)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Barbara Sams, [bsams@lia.org](mailto:bsams@lia.org)

## **NCSLI (ASC Z540) (National Conference of Standards Laboratories)**

### **Reaffirmation**

BSR/NCSL Z540.2-1997 (R201x), Standard for Expressing Uncertainty - U.S. Guide to the Expression of Uncertainty in Measurement (reaffirmation of ANSI/NCSL Z540.2-1997 (R2012))

The proposed standard has been derived from the International Organization for Standardization (ISO) U.S. Guide to the Expression of Uncertainty in Measurement to promote consistent international methods in the expression of measurement uncertainty within U.S. standardization, calibration, laboratory accreditation, and metrology services. It is identical to the ISO Guide (corrected and reprinted, 1995) with the exception of minor editorial changes to facilitate its use in the United States. These changes are as follows: (1) a dot on the line is used as the decimal marker instead of a comma, (2) the spelling of words is in accordance with Webster's Third New International Dictionary instead of the Oxford English Dictionary, and (3) the running heads on pages are partially modified.

Single copy price: \$90.00 (NCSL Members); \$120.00 (Non-Members)

Obtain an electronic copy from: <https://www.ncsli.org/i/sp/z540/z540s/iMIS/Store/z540s.aspx?hkey=ebe5ca19-e0f7-4c5c-a6dc-70121c857d05>

Order from: NCSL, 5766 Central Ave., Suite 150, Boulder, CO 80301

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

BSR/NCSL Z540.3-2006 (R201x), Standard for Calibration - Requirements for the Calibration of Measuring and Test Equipment (reaffirmation of ANSI/NCSL Z540.3-2006 (R2013))

This National Standard will establish the technical requirements for the calibration of measuring and test equipment through the use of a system of functional components. Collectively, these components are used to manage and assure that the accuracy and reliability of the measuring and test equipment are in accordance with identified performance requirements. In addition, this National Standard includes and updates the relevant calibration system requirements for measuring and test equipment described by the previous standards such as Part II of ANSI/NCSL Z540.1 (R2002) and Military Standard 45662A.

Single copy price: \$55.00 (NCSL Members); \$100.00 (Non-Members)

Obtain an electronic copy from: <http://www.ncsli.org/i/sp/z540/z540s/iMIS/Store/z540s.aspx?hkey=ebe5ca19-e0f7-4c5c-a6dc-70121c857d05>

Order from: NCSL, 5766 Central Ave., Suite 150, Boulder, CO 80301

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

## **NECA (National Electrical Contractors Association)**

### **New Standard**

BSR/NECA 417-201x, Recommended Practice for Designing, Installing, Operating and Maintaining Microgrids (new standard)

This standard applies to microgrids and provides recommended practices for their design, installation, commissioning, operation, and maintenance.

Single copy price: \$25.00 (NECA members); \$5.00 (nonmembers)

Obtain an electronic copy from: [neis@necanet.org](mailto:neis@necanet.org)

Order from: Aga Golriz, (301) 215-4549, [Aga.golriz@necanet.org](mailto:Aga.golriz@necanet.org)

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

## **NEMA (ASC C137) (National Electrical Manufacturers Association)**

### ***New Standard***

BSR C137.4-201x, Standard for Digital Interface with Auxiliary Power for Devices (new standard)

This standard specifies the requirements for a digital addressable lighting interface between a driver and one or more devices, such as sensors or communication devices. It includes requirements for auxiliary power, electromechanical interface, common interpretation of data exchange and protected access to the data. This standard builds on the IEC 62386, Digital addressable lighting interface, series of standards.

Single copy price: \$60.00

Obtain an electronic copy from: karen.willis@nema.org

Order from: Karen Willis, (703) 841-3277, Karen.willis@nema.org

Send comments (with copy to psa@ansi.org) to: karen.willis@nema.org

## **NEMA (ASC C8) (National Electrical Manufacturers Association)**

### ***Reaffirmation***

BSR/ICEA T-24-380-2013 (R201x), Partial Discharge Test Procedure (reaffirmation of ANSI/ICEA T-24-380-2013)

This Factory Test Procedure applies to the detection and measurement of partial discharges occurring in the following types of solid dielectric cables:

- Single Conductor Cables, single conductor shielded cables, and assemblies thereof; and
- Multiple Conductor Cables and multiple conductor cables with individually shielded conductors within an outer covering.

Single copy price: \$92.00

Obtain an electronic copy from: khaled.masri@nema.org

Send comments (with copy to psa@ansi.org) to: Khaled Masri, (703) 841-3278, Khaled.Masri@nema.org

## **NSF (NSF International)**

### ***Revision***

BSR/NSF 350-201x (i37r1), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2017a)

This Standard contains minimum requirements for onsite residential and commercial graywater treatment systems. Systems may include graywater reuse treatment systems having a rated treatment capacity up to 5,678 L/d (1,500 gal/d) or commercial graywater reuse treatment systems. This applies to onsite commercial reuse treatment systems that treat combined commercial facility graywater with capacities exceeding 5,678 L/d (1,500 gal/d) and commercial facility laundry water only of any capacity. Management methods and end uses appropriate for the treated effluent discharged from graywater residential and commercial treatment systems meeting this Standard are limited to subsurface discharge to the environment only.

Single copy price: Free

Obtain an electronic copy from: [https://standards.nsf.org/apps/group\\_public/download.php/45814/350i37r1%20JC%20Memo%20and%20ballot.pdf](https://standards.nsf.org/apps/group_public/download.php/45814/350i37r1%20JC%20Memo%20and%20ballot.pdf)

Send comments (with copy to psa@ansi.org) to: Jason Snider, (734) 418-6660, jsnider@nsf.org

## **NSF (NSF International)**

### ***Withdrawal***

ANSI/NSF 418-2014 (i2r1), Residential Wastewater - Effluent Filters Longevity Testing (withdrawal of ANSI/NSF 418-2014 (i1r1))

This Standard provides site selection, auditing, and methods for evaluating the field performance as it relates to longevity of septic tank effluent filters. Only septic tank effluent filters that are certified in accordance with the current version of NSF/ANSI 46 may be certified under this Standard. An effluent filter that has completed third-party testing in compliance with an evaluation, certification, and listing protocol equivalent to NSF/ANSI 46 shall be acceptable, provided all data pursuant to the testing is published and the results verify that the device is capable of performance as defined in NSF/ANSI 46.

Single copy price: Free

Obtain an electronic copy from: [https://standards.nsf.org/apps/group\\_public/download.php/45860/418i2r1%20-%20JC%20memo%20and%20standard.pdf](https://standards.nsf.org/apps/group_public/download.php/45860/418i2r1%20-%20JC%20memo%20and%20standard.pdf)

Send comments (with copy to psa@ansi.org) to: Jason Snider, (734) 418-6660, jsnider@nsf.org

## **RVIA (Recreational Vehicle Industry Association)**

### **Revision**

BSR A119.5-201x, Park Model Recreational Vehicle Standard (revision of ANSI A119.5-2015)

This standard covers fire and life safety criteria and plumbing for Park Model RVs considered necessary to provide a reasonable level of protection from loss of life from fire and explosion. It reflects situations and the state of the art prevalent at the time the Standard was issued. Unless otherwise noted, it is not intended that the provisions of this document be applied to facilities, equipment, structures, or installations which were existing or approved for construction or installation prior to the effective date of the document, except in those cases where it is determined by the Authority Having Jurisdiction that the existing situation involves a distinct hazard to life or adjacent property.

Single copy price: Free

Obtain an electronic copy from: Kent Perkins, [kperkins@rvia.org](mailto:kperkins@rvia.org)

Order from: Kent Perkins, 571-665-5862, RVIA, 1986 Preston White Drive, Reston, VA 20191

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Kent Perkins, [kperkins@rvia.org](mailto:kperkins@rvia.org), or RVIA, 1896 Preston White Drive, Reston, VA 20191

BSR/RVIA LV-201x, Standard for Low Voltage Systems in Conversion and Recreational Vehicles (revision of ANSI/RVIA LV-2017)

This standard covers the installation of low-voltage electrical systems and devices within recreational and conversion vehicles. In the absence of specific instructions from the original equipment manufacturer, this standard also covers any additions, deletions, or modifications to any part of the original equipment chassis manufacturer's low-voltage electrical system.

Single copy price: Free

Obtain an electronic copy from: Kent Perkins, [kperkins@rvia.org](mailto:kperkins@rvia.org)

Order from: Kent Perkins, 571-665-5862, RVIA, 1896 Preston White Drive, Reston, VA 20191

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Kent Perkins, [kperkins@rvia.org](mailto:kperkins@rvia.org), or RVIA, 1896 Preston White Drive, Reston, VA 20191

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

### **Revision**

BSR/SCTE 81-201x, Surge Withstand Test Procedure (revision of ANSI/SCTE 81-2012)

This document describes a procedure for subjecting a broadband device to surge conditions as specified in IEEE C62.45. Ports shall be tested in compliance with IEEE C62.45 Category B Combination Waveform or IEEE C62.45 Category A Ring Waveform, as specified for the Device Under Test.

Single copy price: Free

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

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

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

BSR/SCTE 160-201x, Specification for Mini F Connector, Male, Pin Type (revision of ANSI/SCTE 160-2010)

The purpose of this document is to specify requirements for indoor male "F" pin-type connectors that are used on ANSI/SCTE 117-2010 and SCTE IPS SP 009 mini coaxial cable in the 75-ohm RF Broadband Communications industry.

Single copy price: Free

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

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

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

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

### ***New National Adoption***

BSR/UL 62841-3-14-201x, Standard for Safety for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 3-13 Particular Requirements for Transportable Drain Cleaners (identical national adoption of IEC 62841-3-14)

This proposal for UL 62841-3-14 covers: (1) Proposed adoption of the first edition of IEC 62841-3-14, Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 3-14: Particular Requirements for Transportable Drain Cleaners, as the first edition of UL 62841-3-14.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

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

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

### ***New Standard***

BSR/UL 62841-3-1000.1-201x, Standard for Safety for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 3-1000 Particular Requirements for Transportable Laser Engravers (new standard)

This proposal for UL 62841-3-1000 covers: (1) Proposed first edition of the Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools And Lawn And Garden Machinery - Safety - Part 3-1000: Particular Requirements for Transportable Laser Engravers.

Single copy price: Free

Obtain an electronic copy from: <http://www.shopulstandards.com>

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

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

### ***Reaffirmation***

BSR/UL 120002-2009 (R201x), Standard for Safety for Certificate Standard for AEx Equipment for Hazardous (Classified) Locations (reaffirmation of ANSI/UL 120002-2009 (R2014))

This proposal is a reaffirmation and continuation of the first edition of the Standard for Safety for Certificate Standard for AEx Equipment for Hazardous (Classified) Locations, UL 120002, as an American National Standard.

Single copy price: Free

Obtain an electronic copy from: <http://www.shopulstandards.com>

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Vickie Hinton, (919) 549-1851, [Vickie.T.Hinton@ul.com](mailto:Vickie.T.Hinton@ul.com)

BSR/UL 122001-2009 (R201x), Standard for Safety for General Requirements for Electrical Ignition Systems for Internal Combustion Engines in Class I, Division 2 or Zone 2 Hazardous (Classified) Locations (reaffirmation of ANSI/UL 122001-2009 (R2014))

This proposal is a reaffirmation and continuation of the first edition of the Standard for Safety for General Requirements for Electrical Ignition Systems for Internal Combustion Engines in Class I, Division 2 or Zone 2 Hazardous (Classified) Locations, UL 122001, as an American National Standard.

Single copy price: Free

Obtain an electronic copy from: <http://www.shopulstandards.com>

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Vickie Hinton, (919) 549-1851, [Vickie.T.Hinton@ul.com](mailto:Vickie.T.Hinton@ul.com)

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

### ***Revision***

BSR/UL 827-201x, Standard for Safety for Central Station Alarm Services (revision of ANSI/UL 827-2018)

Document dated December 14, 2018 proposes changes to Section 11, Power Supply, and also proposes changes regarding Remote Access into the Central Station Automation System.

Single copy price: Free

Obtain an electronic copy from: <http://www.shopulstandards.com>

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Paul Lloret, (510) 319-4269, [Paul.E.Lloret@ul.com](mailto:Paul.E.Lloret@ul.com)

BSR/UL 121203-201X, Standard for Safety for Portable Electronic Products Suitable for Use in Class I and II, Division 2, Class I, Zone 2 and Class III, Division 1 and 2 Hazardous (Classified) Locations (revision of ANSI/UL 121203-2011 (R2015))

This proposal is for the second edition of the Standard for Safety for Portable/Personal Electronic Products Suitable for Use in Class I, Division 2, Class I, Zone 2, Class II, Division 2, Class III, Division 1, Class II, Division 2 and Zone 22 Hazardous (Classified) Locations.

Single copy price: Free

Obtain an electronic copy from: <http://www.shopulstandards.com>

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Vickie Hinton, (919) 549-1851, [Vickie.T.Hinton@ul.com](mailto:Vickie.T.Hinton@ul.com)

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

### ***Revision***

BSR/VITA 67.0-201x, Coaxial Interconnect on VPX - Base Standard (revision of ANSI/VITA 67.0-2012)

The objective of this standard is to establish a structure for implementing blind mate analog coaxial interconnects with VPX backplanes and plug-in modules, and to define a specific family of interconnects and configurations within that structure. This is a revision to ANSI/VITA 67.0-2012.

Single copy price: \$25.00

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

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

## **Comment Deadline: February 12, 2019**

Reaffirmations and withdrawals available electronically may be accessed at: [webstore.ansi.org](http://webstore.ansi.org)

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

### ***Revision***

BSR/ASME P30.1-201x, Planning for Load Handling Activities (revision of ANSI/ASME P30.1-2014)

This Standard establishes planning considerations and practices that apply to load handling equipment (LHE), other associated equipment, and activities when moving loads vertically or horizontally.

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: Kathleen Peterson, (800) 843-2763, [petersonk@asme.org](mailto:petersonk@asme.org)

## UL (Underwriters Laboratories, Inc.)

### ***New Standard***

BSR/UL 1008M-201X, Standard for Safety for Transfer Switch Equipment, Meter Mounted (new standard)

These requirements cover automatic and non-automatic (manual) transfer switch equipment, operating at 600 V ac or less, intended either for installation in a utility meter base or fabricated as part of a utility meter base and used in non-hazardous locations only. These devices are intended for use in optional standby systems only, and are not intended for use in Emergency or Legally Required Standby Systems (Life Safety Systems). These devices are intended for one of the following applications:

- a) Permanent connection of a stationary generator to power a premise wiring system, where the generator is connected as a non-separately derived system, where the neutral (grounded circuit conductor) of the generator is not bonded to ground or the generator frame; or
- b) Cord connection of a portable generator to power a premise wiring system, where the neutral (grounded circuit conductor) of the generator is not bonded to ground or the generator frame, and bonding of the neutral (grounded circuit conductor) to ground will occur:
  - 1) In the United States, within the meter base, or
  - 2) In Canada, at the service box.

Note: In Canada, metering equipment may be connected on the supply side of the service box in some instances as outlined in the Canadian Electrical Code, Part I, Rule 6-402 (2).

Note: In Canada, emergency systems are identified as emergency power supplies. In the United States, this does not apply.

These devices are connected between the meter mounting equipment and the electric utility meter, on the line side of the service disconnect. Generators and associated wiring connected to the generator terminals of the transfer switch are not considered under the exclusive control of the utility.

In Canada, these devices are under the purview of the Canadian Electrical Code, Part 1, CSA C22.1.

In the United States, these devices are not considered under the purview of the National Electrical Code, NFPA 70, as their installation is considered under the exclusive control of the serving utility.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Order from: Comm2000, 151 Eastern Avenue, Bensenville, IL 60106 USA, 1-888-853-3503

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Patricia Sena, (919) 549-1636, [patricia.a.sena@ul.com](mailto:patricia.a.sena@ul.com)

## Projects Withdrawn from Consideration

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

### **CTA (Consumer Technology Association)**

BSR/CTA 2062-201x, Backup Power for VoIP Service Continuity in the Case of an Emergency Standard (new standard)

This standard defines procedures, methods, and specifications for backup power of VoIP service in the event of a power outage.

Inquiries may be directed to Veronica Lancaster, (703) 907-7697, [vlancaster@cta.tech](mailto:vlancaster@cta.tech)

## Notice of Withdrawn ANS by an ANSI-Accredited Standards Developer

In accordance with clause 4.2.1.3.2 Withdrawal by ANSI-Accredited Standards Developer of the ANSI Essential Requirements, the following American National Standards have been withdrawn as an ANS.

### **ASIS (ASIS International)**

ANSI ASIS PSC.4-2013, Quality Assurance and Security Management for Private Security Companies Operating at Sea - Guidance

Questions may be directed to: Aivelis Opicka, (703) 518-1439, [standards@asisonline.org](mailto:standards@asisonline.org)

ANSI/ASIS SPC.2-2014, Auditing Management Systems - Risk, Resilience, Security and Continuity - Guidance for Application

Questions may be directed to: Aivelis Opicka, (703) 518-1439, [standards@asisonline.org](mailto:standards@asisonline.org)

## Correction

### Call for Comment Listing for BSR/ASTM F1734-201x

#### Comment Deadline: January 21, 2019

The following ASTM standard was mistakenly listed in the PINS section of the 12/7/2018 Standards Action. It should have appeared for public review with a Call for Comment Deadline of January 21, 2019.

BSR/ASTM F1734-201x, Practice for Qualification of a Combination of Squeeze Tool, Pipe, and Squeeze-Off Procedures to Avoid Long-Term Damage in Polyethylene (PE) Gas Pipe

(new standard)

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

Single copy price: Free

Order from: Corice Leonard, (610) 832-9744, [accreditation@astm.org](mailto:accreditation@astm.org)

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

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

ASTM International

Corice Leonard

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

(610) 832-9744

100 Barr Harbor Drive

West Conshohocken, PA 19428-2959

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

# Call for Members (ANS Consensus Bodies)

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

---

## ABYC (American Boat and Yacht Council)

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

**Contact:** Sara Moulton

**Phone:** (410) 990-4460

**E-mail:** smoulton@abycinc.org

BSR/ABYC S-32-201x, Universal Warnings For Boats (new standard)

“ABYC is seeking new members for the Product Interface Project Technical Committee who represent the following industry categories: Manufacturer - Boats, Manufacturer - Accessories, Manufacturer - Engines, Trade Associations, Insurance/Survey, Specialist Service, Government, Consumer, General Interest.”

## ASA (ASC S12) (Acoustical Society of America)

**Office:** 1305 Walt Whitman Road  
Suite 300  
Melville, NY 11747

**Contact:** Caryn Mennigke

**Phone:** (631) 390-0215

**E-mail:** asastds@acousticalsociety.org

BSR/ASA S12.2-201x, Criteria for Evaluating Room Noise (new standard)

## CTA (Consumer Technology Association)

**Office:** 1919 South Eads Street  
Arlington, VA 22202

**Contact:** Veronica Lancaster

**Phone:** (703) 907-7697

**E-mail:** vlancaster@cta.tech

BSR/CTA 2088-201x, Baseline Cybersecurity Standard for Devices and Device Systems (new standard)

## NECA (National Electrical Contractors Association)

**Office:** 3 Bethesda Metro Center  
Suite 1100  
Bethesda, MD 20814

**Contact:** Aga Golriz

**Phone:** (301) 215-4549

**E-mail:** Aga.golriz@necanet.org

BSR/NECA 417-201x, Recommended Practice for Designing, Installing, Operating and Maintaining Microgrids (new standard)

## NEMA (ASC C137) (National Electrical Manufacturers Association)

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

**Contact:** Karen Willis

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

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

BSR C137.4-201x, Standard for Digital Interface with Auxiliary Power for Devices (new standard)

## NEMA (ASC C8) (National Electrical Manufacturers Association)

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

**Contact:** Khaled Masri

**Phone:** (703) 841-3278

**E-mail:** Khaled.Masri@nema.org

BSR/ICEA T-24-380-2013 (R201x), Partial Discharge Test Procedure (reaffirmation of ANSI/ICEA T-24-380-2013)

## NSF (NSF International)

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

**Contact:** Jason Snider

**Phone:** (734) 418-6660

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

ANSI/NSF 418-2014 (i2r1), Residential Wastewater - Effluent Filters Longevity Testing (withdrawal of ANSI/NSF 418-2014 (i1r1))

BSR/NSF 50-201x (i154r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF 50-2017)

BSR/NSF 140-201x (i27r2), Sustainability Assessment for Carpet (revision of ANSI/NSF 140-201x (i27r1))

BSR/NSF 173-201x (i86r1), Dietary Supplements (revision of ANSI/NSF 173-2017)

BSR/NSF 350-201x (i37r1), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2017a)

**TAPPI (Technical Association of the Pulp and Paper Industry)**

**Office:** 15 Technology Parkway South  
Suite 115  
Peachtree Corners, GA 30092

**Contact:** *Priscila Briggs*

**Phone:** (770) 209-7249

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

BSR/TAPPI T 449 om-2014 (R201x), Bacteriological examination of paper and paperboard (reaffirmation of ANSI/TAPPI T 449 om-2014)

BSR/TAPPI T 648 om-2014 (R201x), Viscosity of coating clay slurry (reaffirmation of ANSI/TAPPI T 648 om-2014)

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

**Office:** 47173 Benicia Street  
Fremont, CA 94538

**Contact:** *Linda Phinney*

**Phone:** (510) 319-4297

**E-mail:** Linda.L.Phinney@ul.com

BSR/UL 758-201X, Standard for Safety for Appliance Wiring Material (revision of ANSI/UL 758-2017)

BSR/UL 827-201x, Standard for Safety for Central Station Alarm Services (revision of ANSI/UL 827-2018)

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

**Office:** 929 W. Portobello Avenue  
Mesa, AZ 85210

**Contact:** *Jing Kwok*

**Phone:** (602) 281-4497

**E-mail:** jing.kwok@vita.com

BSR/VITA 67.0-201x, Coaxial Interconnect on VPX - Base Standard (revision of ANSI/VITA 67.0-2012)

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

## **Call for Committee Members**

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

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

- General Interest
- Government
- Producer
- User

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

# Final Actions on American National Standards

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

## AMCA (Air Movement and Control Association)

### Revision

ANSI/AMCA 500-D-2018, Laboratory Methods of Testing Dampers for Rating (revision of ANSI/AMCA 500-D-12): 12/6/2018

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

### Reaffirmation

ANSI/ASABE S613-1-FEB2009 (R2018), Tractors and Self-Propelled Machinery for Agriculture - Air Quality Systems for Cabs - Terminology and Overview (reaffirmation of ANSI/ASABE S613-1-FEB2009 (R2013)): 12/7/2018

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

### Addenda

ANSI/ASHRAE 135.1q-2018, Method of Test for Conformance to BACnet (addenda to ANSI/ASHRAE Standard 135.1-2013): 12/7/2018

ANSI/ASHRAE 184a-2018, Method of Test for Field Performance of Liquid-Chilling Systems (addenda to ANSI/ASHRAE Standard 184-2016): 12/7/2018

ANSI/ASHRAE/IES 90.1q-2018, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 12/7/2018

ANSI/ASHRAE/IES 90.1s-2018, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 12/7/2018

### Revision

ANSI/ASHRAE Standard 200-2018, Methods of Testing Chilled Beams (revision of ANSI/ASHRAE Standard 200-2015): 12/7/2018

ANSI/ASHRAE/IES Standard 90.2-2018, Energy-Efficient Design of Low-Rise Residential Buildings (revision of ANSI/ASHRAE/IES Standard 90.2-2007): 12/7/2018

## ASME (American Society of Mechanical Engineers)

### Reaffirmation

ANSI/ASME B1.20.1-2013 (R2018), Pipe Threads, General Purpose (Inch) (reaffirmation of ANSI/ASME B1.20.1-2013): 12/7/2018

### Revision

ANSI/ASME B31T-2018, Standard Toughness Requirements for Piping (revision of ANSI/ASME B31T-2015): 12/6/2018

## ASTM (ASTM International)

### New Standard

ANSI/ASTM D7778-2018, Guide for Conducting an Interlaboratory Study to Determine the Precision of a Test Method (new standard): 12/4/2018

## ATIS (Alliance for Telecommunications Industry Solutions)

### Withdrawal

ANSI ATIS 0500002-2008 (R2013), Emergency Services Messaging Interface (ESMI) (withdrawal of ANSI ATIS 0500002-2008 (R2013)): 12/7/2018

ANSI ATIS 0500006-2008 (R2013), Emergency Information Services Interfaces (EISI) ALI Service (withdrawal of ANSI ATIS 0500006-2008 (R2013)): 12/7/2018

ANSI ATIS 0500007-2008 (R2013), Emergency Information Services Interface (EISI) Implemented with Web Services (withdrawal of ANSI ATIS 0500007-2008 (R2013)): 12/7/2018

## BICSI (Building Industry Consulting Service International)

### New Standard

ANSI/BICSI N1-2019, Installation Practices for Telecommunications and ICT Cabling and Related Cabling Infrastructure (new standard): 12/6/2018

## CSA (CSA Group)

### Reaffirmation

ANSI Z21.42-2013 (R2018), Gas-Fired Illuminating Appliances (reaffirmation of ANSI Z21.42-2013): 12/7/2018

ANSI/CSA LC 6-2008 (R2018), Natural Gas Diaphragm Pumps (reaffirmation of ANSI/CSA LC 6-2008 (R2013)): 12/7/2018

## HI (Hydraulic Institute)

### Revision

ANSI/HI 9.6.9-2018, Rotary Pumps Guidelines for Condition Monitoring (revision of ANSI/HI 9.6.9-2013): 12/4/2018

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

### Stabilized Maintenance

INCITS 419-2008 [S2018], Information Technology - Fibre Channel Backbone (FC-BB-4) (stabilized maintenance of INCITS 419-2008 [R2013]): 12/6/2018

INCITS 437-2008 (S2018), Information Technology - Fibre Channel - SATA Tunneling Protocol (FC-SATA) (stabilized maintenance of INCITS 437-2008 [R2013]): 12/7/2018

INCITS 438-2008 [S2018], Information Technology - Server Management Command Line Protocol (SM CLP) Specification (stabilized maintenance of INCITS 438-2008 [R2013]): 12/7/2018

INCITS 443-2008 [S2018], Information Technology - Fibre Channel Storage Network PING (SNPing) (stabilized maintenance of INCITS 443-2008 [R2013]): 12/7/2018

INCITS 449-2008 [S2018], Information Technology - Fabric Application Interface Standard (FAIS-2) (stabilized maintenance of INCITS 449-2008 [R2013]): 12/6/2018

INCITS/ISO/IEC 19757-4:2006 [S2018], Information Technology - Document Schema Definition Languages (DSDL) - Part 4: Namespace-based Validation Dispatching Language (NVDL) (stabilized maintenance of INCITS/ISO/IEC 19757-4:2006 [R2013]): 12/6/2018

INCITS/ISO/IEC 3791:1976 [S2018], Office machines and data processing equipment - Keyboard layouts for numeric applications (stabilized maintenance of INCITS/ISO/IEC 3791:1976 [R2013]): 12/6/2018

INCITS/ISO/IEC 18035:2003 [S2018], Information technology - Icon symbols and functions for controlling multimedia software applications (stabilized maintenance of INCITS/ISO/IEC 18035:2003 [R2013]): 12/7/2018

INCITS/ISO/IEC 23651:2003 [S2018], Information technology - 8 mm wide magnetic tape cartridge for information interchange - Helical scan recording - AIT-3 format (stabilized maintenance of INCITS/ISO/IEC 23651:2003 [R2013]): 12/6/2018

INCITS/ISO/IEC 23988:2007 [S2018], Information technology - A code of practice for the use of information technology (IT) in the delivery of assessments (stabilized maintenance of INCITS/ISO/IEC 23988:2007 [R2013]): 12/6/2018

## **MTCConnect (MTCConnect Institute)**

### ***New Standard***

ANSI/MTC1.4-2018, MTCConnect Standard V1.4 (new standard): 12/7/2018

## **NFPA (National Fire Protection Association)**

### ***New Standard***

ANSI/NFPA 2400-2019, Standard for Small Unmanned Aircraft Systems (sUAS) Used for Public Safety Operations (new standard): 11/25/2018

### ***Revision***

ANSI/NFPA 14-2019, Standard for the Installation of Standpipe and Hose Systems (revision of ANSI/NFPA 14-2016): 11/25/2018

ANSI/NFPA 45-2019, Standard on Fire Protection for Laboratories Using Chemicals (revision of ANSI/NFPA 45-2015): 11/25/2018

ANSI/NFPA 52-2019, Vehicular Natural Gas Fuel Systems Code (revision of ANSI/NFPA 52-2017): 11/25/2018

ANSI/NFPA 59A-2019, Standard for the Production, Storage, and Handling of Liquefied Natural Gas (LNG) (revision of ANSI/NFPA 59A-2016): 11/25/2018

ANSI/NFPA 67-2019, Guideline on Explosion Protection for Gaseous Mixtures in Pipe Systems (revision of ANSI/NFPA 67-2016): 11/25/2018

ANSI/NFPA 69-2019, Standard on Explosion Prevention Systems (revision of ANSI/NFPA 69-2014): 11/25/2018

ANSI/NFPA 70B-2019, Recommended Practice for Electrical Equipment Maintenance (revision of ANSI/NFPA 70B-2016): 11/25/2018

ANSI/NFPA 82-2019, Standard on Incinerators and Waste and Linen Handling Systems and Equipment (revision of ANSI/NFPA 82-2014): 11/25/2018

ANSI/NFPA 85-2019, Boiler and Combustion Systems Hazards Code (revision of ANSI/NFPA 85-2015): 11/25/2018

ANSI/NFPA 253-2019, Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source (revision of ANSI/NFPA 253-2015): 11/25/2018

ANSI/NFPA 262-2019, Standard Method of Test for Flame Travel and Smoke of Wires and Cables for Use in Air-Handling Spaces (revision of ANSI/NFPA 262-2015): 11/25/2018

ANSI/NFPA 265-2019, Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile or Expanded Vinyl Wall Coverings on Full Height Panels and Walls (revision of ANSI/NFPA 265-2015): 11/25/2018

ANSI/NFPA 276-2019, Standard Method of Fire Test for Determining the Heat Release Rate of Roofing Assemblies with Combustible Above-Deck Roofing Components (revision of ANSI/NFPA 276-2015): 11/25/2018

ANSI/NFPA 285-2019, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components (revision of ANSI/NFPA 285-2012): 11/25/2018

ANSI/NFPA 286-2019, Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth (revision of ANSI/NFPA 286-2015): 11/25/2018

ANSI/NFPA 350-2019, Guide for Safe Confined Space Entry and Work (revision of ANSI/NFPA 350-2016): 11/25/2018

ANSI/NFPA 402-2019, Guide for Aircraft Rescue and Fire-Fighting Operations (revision of ANSI/NFPA 402-2013): 11/25/2018

ANSI/NFPA 701-2019, Standard Methods of Fire Tests for Flame Propagation of Textiles and Films (revision of ANSI/NFPA 701-2015): 11/25/2018

ANSI/NFPA 900-2019, Building Energy Code (revision of ANSI/NFPA 900-2016): 11/25/2018

ANSI/NFPA 914-2019, Code for Fire Protection of Historic Structures (revision of ANSI/NFPA 914-2015): 11/25/2018

ANSI/NFPA 1003-2019, Standard for Airport Fire Fighter Professional Qualifications (revision of ANSI/NFPA 1003-2015): 11/25/2018

ANSI/NFPA 1005-2019, Standard for Professional Qualifications for Marine Fire Fighting for Land-Based Fire Fighters (revision of ANSI/NFPA 1005-2014): 11/25/2018

ANSI/NFPA 1041-2019, Standard for Fire Service Instructor Professional Qualifications (revision of ANSI/NFPA 1041-2012): 11/25/2018

ANSI/NFPA 1091-2019, Standard for Traffic Control Incident Management Personnel Professional Qualifications (revision of ANSI/NFPA 1091-2015): 11/25/2018

ANSI/NFPA 1402-2019, Guide to Building Fire Service Training Centers (revision of ANSI/NFPA 1402-2011): 11/25/2018

ANSI/NFPA 1600-2019, Standard on Disaster/Emergency Management and Business Continuity/Continuity of Operations Programs (revision of ANSI/NFPA 1600-2015): 11/25/2018

ANSI/NFPA 1963-2019, Standard for Fire Hose Connections (revision of ANSI/NFPA 1963-2014): 11/25/2018

ANSI/NFPA 1975-2019, Standard on Emergency Services Work Clothing Elements (revision of ANSI/NFPA 1975-2014): 11/25/2018

## **NSF (NSF International)**

### ***Revision***

ANSI/NSF 6-2018 (i14r3), Dispensing Freezers (revision of ANSI/NSF 6-2016): 12/3/2018

## **RESNET (Residential Energy Services Network, Inc.)**

### ***Addenda***

ANSI/RESNET/ICC 301-2014 Addendum N-2018, Normative Appendix B, Inspection Procedures for Minimum Rated Features (addenda to ANSI/RESNET/ICC 301-2014): 12/6/2018

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

### ***Revision***

ANSI/SCTE 16-2018, Test Procedure for Hum Modulation (revision of ANSI/SCTE 16-2012): 12/6/2018

ANSI/SCTE 95-2018, HMS Inside Plant HMTS Theory of Operation (revision of ANSI/SCTE 95-2009): 12/6/2018

ANSI/SCTE 154-1-2018, Digital Video Common MIB (revision of ANSI/SCTE 154-1-2008): 12/6/2018

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

### ***Reaffirmation***

ANSI/UL 1004-8-2009 (R2018), Standard for Safety for Inverter Duty Motors (reaffirmation of ANSI/UL 1004-8-2009 (R2014)): 12/6/2018

### ***Revision***

ANSI/UL 48-2018, Standard for Safety for Electric Signs (revision of ANSI/UL 48-2017): 12/7/2018

ANSI/UL 749-2018, Standard for Safety for Household Dishwashers  
(Proposal dated 3-9-18) (revision of ANSI/UL 749-2017): 11/30/2018

ANSI/UL 749-2018a, Standard for Safety for Household Dishwashers  
(Proposal dated 8-17-18) (revision of ANSI/UL 749-2017):  
11/30/2018

ANSI/UL 913-2018, Standard for Safety for Intrinsically Safe  
Apparatus and Associated Apparatus for Use in Class I, II, and III,  
Division 1, Hazardous (Classified) Locations (revision of ANSI/UL  
913-2015): 12/10/2018

ANSI/UL 913-2018a, Standard for Safety for Intrinsically Safe  
Apparatus and Associated Apparatus for Use in Class I, II, and III,  
Division 1, Hazardous (Classified) Locations (revision of ANSI/UL  
913-2015): 12/10/2018

ANSI/UL 2353-2018, Standard for Safety for Single- and Multi-Layer  
Insulated Winding Wire (revision of ANSI/UL 2353-2016): 12/5/2018

ANSI/UL 2353-2018a, Standard for Safety for Single- and Multi-Layer  
Insulated Winding Wire (revision of ANSI/UL 2353-2016): 12/5/2018

ANSI/UL 2353-2018b, Standard for Safety for Single- and Multi-Layer  
Insulated Winding Wire (revision of ANSI/UL 2353-2016): 12/5/2018

# 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. Use the following Public Document Library url to access PDF & EXCEL reports of approved & proposed ANS: [List of Approved and Proposed ANS](#)

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.

## **AAFS (American Academy of Forensic Sciences)**

Contact: Teresa Ambrosius, (719) 453-1036, [tambrosius@aafs.org](mailto:tambrosius@aafs.org)  
410 North 21st Street, Colorado Springs, CO 80904

### **New Standard**

BSR/ASB Std 110-201x, Standard for Training in Forensic Serological Methods (new standard)

Stakeholders: Forensic serology practitioners and the criminal justice system will be end users.

Project Need: This document provides the minimum training requirements for a forensic serology training program and a framework for quality training that results in training consistency in the forensic serology community. At this time, there are no existing consensus standards that provide these requirements.

This standard provides the requirements for a forensic serology training program to evaluate body fluids, stains, or residues related to forensic investigations. This standard does not address training in forensic DNA analysis procedures.

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

Contact: Sara Moulton, (410) 990-4460, [smoulton@abycinc.org](mailto:smoulton@abycinc.org)  
613 Third Street, Suite 10, Annapolis, MD 21403

### **New Standard**

BSR/ABYC S-32-201x, Universal Warnings for Boats (new standard)

Stakeholders: Surveyors, consumers, insurance personnel, boat manufacturers, engine manufacturers, accessory manufacturers, government, service specialists, and trade associations.

Project Need: This industry conformity standard establishes warning topics, design, layout, and installation locations of universal warning labels on specific boats types.

This standard applies to outboard, sterndrive, and inboard power-driven boats.

## **AGMA (American Gear Manufacturers Association)**

Contact: Amir Aboutaleb, (703) 684-0211, [tech@agma.org](mailto:tech@agma.org)  
1001 N Fairfax Street, 5th Floor, Alexandria, VA 22314-1587

### **New Standard**

BSR/AGMA 6022-DXX-201x, Design Manual for Cylindrical Wormgearing (new standard)

Stakeholders: Manufacturers, and users of wormgears.

Project Need: To replace the withdrawn AGMA 6022-C93.

The Design Manual will provide information pertaining to selection of geometric parameters that will constitute good design of fine- and coarse-pitch cylindrical wormgearing.

## **ANS (American Nuclear Society)**

Contact: Kathryn Murdoch, (708) 579-8268, kmurdoch@ans.org  
555 North Kensington Avenue, La Grange Park, IL 60526

### **Revision**

BSR/ANS 8.1-201x, Nuclear Criticality Safety in Operations with Fissionable Material Outside Reactors (revision of ANSI/ANS 8.1-2014 (R2018))

Stakeholders: Government and commercial facilities that process, store, transport, and handle significant amounts of fissile material outside reactors.

Project Need: The need for a revision is due to requests from the community for the inclusion of new subcritical (SCL) limits. The new subcritical limits will include at a minimum SCLs for uranium and uranium compounds for enrichments up to 20 wt. % U-235. Other Pu/U SCLs will be considered for inclusion. These compounds have not yet been selected. Lessons learned and comments received since the 2014 revision was approved and will be considered for incorporation. In addition, recommendations may be related to the applicability of ANS-8.1 for the purposes of considering natural phenomena in process analysis, which will be considered for inclusion.

This standard is applicable to operations with fissionable materials outside nuclear reactors, except for the assembly of these materials under controlled conditions, such as in critical experiments. Generalized basic criteria are presented, and limits are specified for some single fissionable units of simple shape containing 233U, 235U, or 239Pu, but not for multiunit arrays. Subcritical limits for certain multiunit arrays are contained in ANSI/ANS-8.7-1998 (R2012). Requirements are stated for validation of any calculational method used in assessing nuclear criticality safety.

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

Contact: Nathaniel Wall, (202) 682-8157, walln@api.org  
1220 L Street, NW, Washington, DC 20005-4070

### **Addenda**

BSR/API Standard 537, 3rd Edition, 1st Addendum-201x, Flare Details for Petroleum, Petrochemical, and Natural Gas Industries (addenda to ANSI/API Standard 537-2016)

Stakeholders: Petroleum, natural gas, and petrochemical industry equipment manufacturers-service suppliers, petroleum refinery/petrochemical plant owner-operators, and general interest (consultants, contracted experts, and other interested parties).

Project Need: This American National Standard's revision is needed to provide additional design and selection guidance to increase the safety and efficiency and to reduce noise emissions of flare and depressuring systems used in the oil and gas industry.

This project is to develop and publish the 1st Addendum to the 3rd Edition of Standard 537. The proposed 1st Addendum will include a new annex, Annex G, covering pressure-relieving and depressuring systems, as they relate to flares used in the oil and gas industry. It is envisioned this new annex will cover design and selection considerations for ground-level and elevated flares and burn pits, and will specifically address: combustion methods and control and monitoring systems designed to increase flame stability; combustion methods to reduce smoke emissions, such as steam-assisted, high-pressure air, and high-pressure water flares; low-pressure forced-air systems; high-pressure flaring; flare purging systems; flare gas ignition; flare noise reduction; and optimal sizing and height of flares and flare stacks.

## **ASTM (ASTM International)**

Contact: Laura Klineburger, (610) 832-9696, accreditation@astm.org  
100 Barr Harbor Drive, West Conshohocken, PA 19428-2959

### **New Standard**

BSR/ASTM WK65967-201x, New Guide for Binary Logistic Regression (new standard)

Stakeholders: Sampling / Statistics industry.

Project Need: There currently lacks strong central guidance in the form of a consensus standard for the handling of go/no-go data. Other committees have proposed the use of binary logistic regression as part of a test standard (ASTM G74 and E2862, for example), and this guide seeks to harmonize with the existing standards. Users would include anyone analyzing go/no-go data produced from a test method seeking a standardized approach for the data handling.

This guide describes the analysis of data that is developed from test methods that produce go/no-go, Bernoulli trial outcomes, such as ignition or no-ignition or reaction/no-reaction data produced under a specific set of test conditions. Bernoulli trial outcome refers to test data with only two outcomes (i.e., flipping a coin heads or tails, etc.).

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

Contact: Kevin Bulger, (800) 443-9353 xt306, [kbulger@aws.org](mailto:kbulger@aws.org)  
8669 Doral Blvd, Suite 130, Doral, FL 33166

### **Revision**

BSR/AWS A5.31M/A5.31-201x, Specification for Fluxes for Brazing and Braze Welding (revision of ANSI/AWS A5.31M/A5.31-2012)

Stakeholders: Producers, users, consultants, educators, and general interest.

Project Need: This specification prescribes the requirements for the classification of brazing fluxes used with brazing or braze-welding filler metals, such as those classified in AWS A5.8M/A5.8, Specification for Filler Metals for Brazing and Braze Welding. Eighteen fluxes for brazing and braze welding are classified according to the filler metal, form, and activity temperature range. Classification is in accordance with a classification system that employs the designator "FB" to indicate fluxes for brazing and braze-welding applications. In addition to selected tests for each classification, major topics include general requirements, testing procedures, and packaging requirements. An annex listing general application guidelines is included. This specification makes use of both the International System of Units (SI) and U.S. Customary Units. The measurements may not be exact equivalents; therefore, each system shall be used independently.

BSR/AWS A5.35/A5.35M-201x, Specification for Covered Electrodes for Underwater Wet Shielded Metal Arc Welding (revision of ANSI/AWS A5.35/A5.35M-2015)

Stakeholders: Underwater Welding and Construction industry.

Project Need: This specification prescribes requirements for the classification of wet welding electrodes for shielded metal arc welding, based on underwater wet welding tests and associated evaluation. Requirements for certification of test results are also shown in this standard. The specification covers ferritic, austenitic stainless steel, and non-ferrous filler metals plus any auxiliary coatings applied over the electrode covering.

This specification establishes the requirements for classification of wet welding electrodes for shielded metal arc welding. The requirements include mechanical properties of weld metal, weld metal soundness, and usability of electrode. Requirements for composition of the weld metal, standard sizes and lengths, marking, manufacturing, and packaging are also included. A guide to the use of the standard is included in an Annex. This specification makes use of both U.S. Customary Units and the International System of Units (SI). Since these are not equivalent, each system must be used independently of the other.

BSR/AWS C3.12M/C3.12-201x, Specification for Furnace Soldering (revision of ANSI/AWS C3.12M/C3.12-2017)

Stakeholders: This publication would be of benefit to the refrigeration and air conditioning industries who would use it for making small- and medium-size sub-assemblies for their products. Interestingly, the electronics industry would use this specification to make non-printed circuit board assemblies such as connectors, switches, relays, etc., that are truly made with structural solder joints. Operators, process development engineers, and engineering managers will find this document to be of use in their respect functions.

Project Need: Currently, there does not exist a standard that addresses furnace soldering for structural applications. There are standards that are limited to describing the reflow soldering of printed circuit board solder joints for electronic applications. Even those documents address, primarily, the quality of the joints after fabrication.

This specification provides the minimum requirements for equipment, materials, processing procedures as well as inspection for metal and ceramic base materials that can be furnace soldered. This specification provides criteria for classifying furnace soldered joints based on loading and the consequences of failure. It also provides quality assurance criteria that define the limits of acceptability in each class. This specification describes acceptable furnace soldering equipment, materials, and procedures, as well as the required inspection for each class of solder joint so produced.

## **CTA (Consumer Technology Association)**

Contact: Veronica Lancaster, (703) 907-7697, [vlancaster@cta.tech](mailto:vlancaster@cta.tech)  
1919 South Eads Street, Arlington, VA 22202

### **New Standard**

BSR/CTA 2088-201x, Baseline Cybersecurity Standard for Devices and Device Systems (new standard)

Stakeholders: Consumers, manufacturers, service providers, and retailers.

Project Need: To develop an IoT devices Baseline Cybersecurity technical standard.

This standard will specify baseline security requirements and recommendations for devices and device systems to address the destructive potential of botnets and other security threats. Individual connected devices, or "endpoint devices," may consist of components, including hardware modules, chips, software, sensors or other operating components. Beyond the individual device itself, this standard will elements of security for device systems, which include the connected endpoint device and broader connected elements of the product, such as apps and cloud services.

## **TAPPI (Technical Association of the Pulp and Paper Industry)**

Contact: Priscila Briggs, (770) 209-7249, standards@tappi.org

15 Technology Parkway South, Suite 115, Peachtree Corners, GA 30092

### **Reaffirmation**

BSR/TAPPI T 449 om-2014 (R201x), Bacteriological examination of paper and paperboard (reaffirmation of ANSI/TAPPI T 449 om-2014)

Stakeholders: Manufacturers of pulp, paper, packaging, or related products; consumers or converters of such products; and suppliers of equipment, supplies, or raw materials for the manufacture of such products.

Project Need: To conduct required five-year review of an existing TAPPI/ANSI Standard.

The following procedure is recommended for the bacteriological examination of paper and paperboard intended for use as single service containers and closures for dairy products. Because of the exacting technique required in bacteriological procedures, reproducible results can be obtained only by a trained technician. All tests should be performed under the appropriate laboratory conditions to ensure quality assurance and safety.

BSR/TAPPI T 648 om-2014 (R201x), Viscosity of coating clay slurry (reaffirmation of ANSI/TAPPI T 648 om-2014)

Stakeholders: Manufacturers of pulp, paper, packaging, or related products; consumers or converters of such products; and suppliers of equipment, supplies, or raw materials for the manufacture of such products.

Project Need: To conduct required five-year review of an existing TAPPI/ANSI Standard.

This method describes a procedure for the determination of the low- and high-shear viscosity of coating clays. This is accomplished by the preparation of a completely dispersed 70% solids aqueous clay suspension with incremental introduction of dispersant to obtain the optimum dosage (minimum viscosity) for the low- and high-shearing rates. At 70% solids' content, not all clay slurries are sufficiently fluid to permit viscosity determinations with the usual instruments. The test as written is thus substantially limited in its applicability to the type of coating clays suitable for high solids coating. A similar test procedure using lower solids content is informative in the case of clays such as calcined and delaminated coating clay that are not suited to testing at 70% solids. In each case, the solids content should be maintained at as high a level as possible to accentuate differences between the clays in question. Coating clays are available in predispersed slurry form, generally at 69.5-70.5% solids. The procedure for determining the viscosity characteristics of these clay slurry shipments is also incorporated in this method.

# 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)**
- **AARST (American Association of Radon Scientists and Technologists)**
- **AGA (American Gas Association)**
- **AGSC-AGRSS (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 (Green Building Initiative)**
- **HL7 (Health Level Seven)**
- **IES (Illuminating Engineering Society)**
- **ITI (InterNational Committee for Information Technology Standards)**
- **MHI (Material Handling Industry)**
- **NAHBRC (NAHB Research Center, Inc.)**
- **NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)**
- **NCPDP (National Council for Prescription Drug Programs)**
- **NEMA (National Electrical Manufacturers Association)**
- **NISO (National Information Standards Organization)**
- **NSF (NSF International)**
- **PRCA (Professional Ropes Course Association)**
- **RESNET (Residential Energy Services Network, Inc.)**
- **SAE (SAE International)**
- **TCNA (Tile Council of North America)**
- **TIA (Telecommunications Industry Association)**
- **UL (Underwriters Laboratories, Inc.)**

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

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

# ANSI-Accredited Standards Developers Contact Information

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

<p><b>AAFS</b> American Academy of Forensic Sciences 410 North 21st Street Colorado Springs, CO 80904 Phone: (719) 453-1036 Web: <a href="http://www.aafs.org">www.aafs.org</a></p>	<p><b>ASA (ASC S12)</b> Acoustical Society of America 1305 Walt Whitman Road Suite 300 Melville, NY 11747 Phone: (631) 390-0215 Web: <a href="http://www.acousticalsociety.org">www.acousticalsociety.org</a></p>	<p><b>AWS</b> American Welding Society 8669 Doral Blvd Suite 130 Doral, FL 33166 Phone: (800) 443-9353 xt306 Web: <a href="http://www.aws.org">www.aws.org</a></p>	<p><b>MTConnect</b> MTConnect Institute 7901 Jones Branch Drive Suite 900 McLean, VA 22102 Phone: (703) 827-5274 Web: <a href="http://www.amtonline.org">www.amtonline.org</a></p>
<p><b>ABYC</b> American Boat and Yacht Council 613 Third Street Suite 10 Annapolis, MD 21403 Phone: (410) 990-4460 Web: <a href="http://www.abycinc.org">www.abycinc.org</a></p>	<p><b>ASABE</b> American Society of Agricultural and Biological Engineers 2950 Niles Road Saint Joseph, MI 49085 Phone: (269) 932-7015 Web: <a href="http://www.asabe.org">www.asabe.org</a></p>	<p><b>BICSI</b> Building Industry Consulting Service International 8610 Hidden River Parkway Tampa, FL 33637 Phone: (813) 903-4712 Web: <a href="http://www.bicsi.org">www.bicsi.org</a></p>	<p><b>NCSLI (ASC Z540)</b> National Conference of Standards Laboratories 5766 Central Avenue Suite 150 Boulder, CO 80301-2849 Phone: (303) 440-3339 Web: <a href="http://www.ncsli.org">www.ncsli.org</a></p>
<p><b>AGMA</b> American Gear Manufacturers Association 1001 N Fairfax Street, 5th Floor Alexandria, VA 22314-1587 Phone: (703) 684-0211 Web: <a href="http://www.agma.org">www.agma.org</a></p>	<p><b>ASHRAE</b> American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. 1791 Tullie Circle, NE Atlanta, GA 30329 Phone: (404) 636-8400 Web: <a href="http://www.ashrae.org">www.ashrae.org</a></p>	<p><b>CSA</b> CSA Group 8501 E. Pleasant Valley Road Cleveland, OH 44131 Phone: (216) 524-4990 Web: <a href="http://www.csagroup.org">www.csagroup.org</a></p>	<p><b>NECA</b> National Electrical Contractors Association 3 Bethesda Metro Center Suite 1100 Bethesda, MD 20814 Phone: (301) 215-4549 Web: <a href="http://www.neca-neis.org">www.neca-neis.org</a></p>
<p><b>AMCA</b> Air Movement and Control Association 30 West University Drive Arlington Heights, IL 60004-1893 Phone: (847) 704-6285 Web: <a href="http://www.amca.org">www.amca.org</a></p>	<p><b>ASME</b> American Society of Mechanical Engineers Two Park Avenue New York, NY 10016-5990 Phone: (212) 591-8521 Web: <a href="http://www.asme.org">www.asme.org</a></p>	<p><b>CTA</b> Consumer Technology Association 1919 South Eads Street Arlington, VA 22202 Phone: (703) 907-7697 Web: <a href="http://www.cta.tech">www.cta.tech</a></p>	<p><b>NEMA (ASC C137)</b> National Electrical Manufacturers Association 1300 North 17th Street, Suite 900 Rosslyn, VA 22209 Phone: (703) 841-3277 Web: <a href="http://www.nema.org">www.nema.org</a></p>
<p><b>ANS</b> American Nuclear Society 555 North Kensington Avenue La Grange Park, IL 60526 Phone: (708) 579-8268 Web: <a href="http://www.ans.org">www.ans.org</a></p>	<p><b>ASTM</b> ASTM International 100 Barr Harbor Drive West Conshohocken, PA 19428-2959 Phone: (610) 832-9696 Web: <a href="http://www.astm.org">www.astm.org</a></p>	<p><b>HI</b> Hydraulic Institute 6 Campus Drive Parsippany, NJ 07054 Phone: (973) 267-9700 Web: <a href="http://www.pumps.org">www.pumps.org</a></p>	<p><b>NEMA (ASC C8)</b> National Electrical Manufacturers Association 1300 North 17th Street Rosslyn, VA 22209 Phone: (703) 841-3278 Web: <a href="http://www.nema.org">www.nema.org</a></p>
<p><b>API</b> American Petroleum Institute 1220 L Street, NW Washington, DC 20005-4070 Phone: (202) 682-8157 Web: <a href="http://www.api.org">www.api.org</a></p>	<p><b>ATIS</b> Alliance for Telecommunications Industry Solutions 1200 G Street NW Suite 500 Washington, DC 20005 Phone: (202) 662-8654 Web: <a href="http://www.atis.org">www.atis.org</a></p>	<p><b>ITI (INCITS)</b> InterNational Committee for Information Technology Standards 1101 K Street NW Suite 610 Washington, DC 20005-3922 Phone: (202) 737-8888 Web: <a href="http://www.incits.org">www.incits.org</a></p>	<p><b>NFPA</b> National Fire Protection Association One Batterymarch Park Quincy, MA 02169 Phone: (617) 984-7246 Web: <a href="http://www.nfpa.org">www.nfpa.org</a></p>
<p><b>APTech (ASC CGATS)</b> Association for Print Technologies 1899 Preston White Drive Reston, VA 20191 Phone: (703) 264-7200 Web: <a href="http://www.printtechnologies.org">www.printtechnologies.org</a></p>	<p><b>AVIXA</b> Audiovisual and Integrated Experience Association 11242 Waples Mill Rd Suite 200 Fairfax, VA 22030 Phone: (703) 273-7200 Web: <a href="http://www.avixa.org">www.avixa.org</a></p>	<p><b>LIA (ASC Z136)</b> Laser Institute of America 13501 Ingenuity Drive Suite 128 Orlando, FL 32826 Phone: (407) 380-1553 Web: <a href="http://www.laserinstitute.org">www.laserinstitute.org</a></p>	<p><b>NSF</b> NSF International 789 N. Dixboro Road Ann Arbor, MI 48105-9723 Phone: (734) 827-3813 Web: <a href="http://www.nsf.org">www.nsf.org</a></p>

**RESNET**

Residential Energy Services Network,  
Inc.

4867 Patina Court  
Oceanside, CA 92057  
Phone: (760) 408-5860  
Web: [www.resnet.us.com](http://www.resnet.us.com)

**RVIA**

Recreational Vehicle Industry  
Association

1896 Preston White Drive  
P.O. Box 2999  
Reston, VA 20191-4363  
Phone: (703) 620-6003  
Web: [www.rvia.org](http://www.rvia.org)

**SCTE**

Society of Cable Telecommunications  
Engineers

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

**TAPPI**

Technical Association of the Pulp and  
Paper Industry

15 Technology Parkway South  
Suite 115  
Peachtree Corners, GA 30092  
Phone: (770) 209-7249  
Web: [www.tappi.org](http://www.tappi.org)

**UL**

Underwriters Laboratories, Inc.

333 Pfingsten Road  
Northbrook, IL 60062  
Phone: (847) 664-3198  
Web: [www.ul.com](http://www.ul.com)

**VITA**

VMEbus International Trade  
Association (VITA)

929 W. Portobello Avenue  
Mesa, AZ 85210  
Phone: (602) 281-4497  
Web: [www.vita.com](http://www.vita.com)



# IEC Draft International Standards

This section lists proposed standards that the International Electrotechnical Commission (IEC) is considering for approval. The proposals have received substantial support within the technical committees or subcommittees that developed them and are now being circulated to 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 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

**IEC Drafts can be made available by contacting ANSI's Customer Service department. Please e-mail your request for an 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.**

- 
- JTC1-SC41/77/CD, ISO/IEC 30142 ED1: Internet of Things (IoT) - Underwater Acoustic Sensor Network (UWASN) - Network management system overview and requirements, 019/2/1/
- JTC1-SC41/78/CD, ISO/IEC 30143 ED1: Internet of Things (IoT) - Underwater Acoustic Sensor Network (UWASN) - Application Profiles, 019/2/1/
- 8A/49/CD, IEC 62934 ED1: Grid integration of renewable energy generation - Terms, definitions and symbols, 019/2/1/
- 21A/690/CD, IEC 63218 ED1: Secondary cells and batteries containing alkaline and other non-acid electrolyte - Secondary Lithium ion, Nickel Cadmium, and Nickel Metal Hydride cells and batteries for portable applications - Guidance on environmental aspects, 019/3/1/
- 23A/880/CD, IEC 61537 ED3: Cable management - Cable tray systems and cable ladder systems, 019/3/1/
- 23E/1081(F)/CDV, IEC 62020-1 ED1: Electrical accessories - Residual current monitors for household and similar uses (RCMs), 019/2/8/
- 23E/1092/CD, IEC 62873-3-1/AMD1 ED1: Residual current operated circuit-breakers for household and similar use - Part 3-1: Particular requirements for RCDs with screwless-type terminals for external copper conductors, 019/3/1/
- 23E/1093/CD, IEC 62873-3-2/AMD1 ED1: Residual current operated circuit-breakers for household and similar use - Part 3-2: Particular requirements for RCDs with flat quick-connect terminations, 019/3/1/
- 23E/1094/CD, IEC 62873-3-3/AMD1 ED1: Residual current operated circuit-breakers for household and similar use - Part 3-3: Specific requirements for RCDs with screw-type terminals for external untreated aluminium conductors and with aluminium screw-type terminals for use with copper or with aluminium conductors, 019/3/1/
- 32B/682/Q, Maintenance and Revision (future Ed.5.2) of IEC 60269-2: Low-voltage fuses - Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) - Examples of standardized systems of fuses A to K, 2019/1/18
- 32B/683/Q, Maintenance and Revision (future Ed.5.2) of IEC 60269-4: Low-voltage fuses - Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices, 2019/1/18
- 45B/917/CDV, IEC 62706 ED2: Radiation protection instrumentation - Recommended climatic, electromagnetic and mechanical performance requirements and methods of tests, 019/3/1/
- 45B/927/CD, IEC 61098 ED3: Radiation protection instrumentation - Installed personnel surface contamination monitoring assemblies, 019/3/1/
- 47E/636/CD, IEC 60747-5-11 ED1: Semiconductor devices - Part 5 -11: Optoelectronic devices - Light emitting diodes - Test method of radiative and nonradiative currents of light emitting diodes, 019/2/1/
- 48B/2698/CD, IEC 60352-5 ED5: Solderless connections - Part 5: Press-in connections - General requirements, test methods and practical guidance, 019/3/1/
- 48B/2700/NP, PNW 48B-2700: Connectors for Electrical and Electronic Equipment - Shielded or unshielded free and fixed connectors for balanced single-pair data transmission with current carrying capacity; General requirements and tests, 019/3/1/
- 59F/368/CDV, IEC 62885-8 ED1: Surface cleaning appliances - Part 8: Dry vacuum cleaners for commercial use - Methods for measuring the performance, 019/3/1/
- 62A/1303/CD, IEC 60601-1-8/AMD2 ED2: Amendment 2: Medical electrical equipment - Part 1-8: General requirements for basic safety and essential performance - Collateral Standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems, 019/2/1/
- 86C/1570/CD, IEC 61757-1-1 ED2: Fibre optic sensors - Part 1-1: Strain measurement - Strain sensors based on fibre Bragg gratings, 019/3/1/
- 86A/1908/FDIS, IEC 60793-1-31 ED3: Optical fibres - Part 1-31: Measurement methods and test procedures - Tensile strength, 2019/1/18
- 86A/1909/FDIS, IEC 60793-1-40 ED2: Optical fibres - Part 1-40: Attenuation measurement methods, 2019/1/18
- 86B/4148/CDV, IEC 61300-2-54 ED1: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-54: Tests - Corrosive atmosphere (mixed gas), 019/3/1/
- 86B/4166/CD, IEC 61300-3-53 ED2: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-53: Examinations and Measurements - Encircled angular flux (EAF) measurement method based on two-dimensional far field data from multimode waveguide (including fibre), 019/3/1/
- 124/49/NP, PNW 124-49: Wearable electronic devices and technologies - Part 201-3: Electronic Textile - Determination of electrical resistance of conductive textiles under wearing environment, 019/2/1/
- 2/1940/CD, IEC 60034-11 ED3: Rotating electrical machines - Part 11: Thermal protection, 019/3/1/

- 21/990/FDIS, IEC 62902 ED1: Secondary cells and batteries - Marking symbols for identification of their chemistry, 2019/1/18
- 33/620/NP, PNW 33-620: Automatic power factor correction (APFC) panels for voltage rating up to and including 1000 V, 019/3/1/
- 59/693/CD, IEC 60704-1 ED4: Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 1: General requirements, 019/3/1/
- 66/685/CD, IEC 61010-2-130 ED1: Safety requirements for electrical equipment for measurement, control, and laboratory use - Particular requirements for equipment intended to be used in educational establishments by children, 019/2/1/
- 68/618/CD, IEC 60404-8-7 ED5: Magnetic materials - Part 8-7: Specifications for individual materials - Cold-rolled grain-oriented electrical steel strip and sheet delivered in the fully processed state, 2019/3/29
- 68/619/CD, IEC 60404-8-5 ED2: Magnetic materials - Part 8-5: Specifications for individual materials - Electrical steel strip and sheet with specified mechanical properties and magnetic permeability, 2019/3/29
- 69/633/NP, PNW 69-633: Interoperability and safety of dynamic wireless power transfer (WPT) for electric vehicles, 019/3/1/
- 86/547/FDIS, IEC 62496-4-1 ED1: Optical circuit boards - Part 4-1: Interface standards - Terminated waveguide OCB assembly using single-row twelve-channel PMT connectors, 2019/1/18
- 88/706/DTS, IEC TS 61400-25-71 ED1: Wind energy generation systems - Part 25-71: Communications for monitoring and control of wind power plants - Configuration description language, 019/3/1/
- 106/469/CDV, IEC/IEEE 62704-4 ED1: Recommended practise for determining the Peak Spatial Average Specific Absorption Rate (SAR) in the human body from wireless communications devices, 30 MHz - 6 GHz: General requirements for using the Finite-Element Method (FEM) for SAR calculations and specific requirements for modelling vehicle-mounted antennas and personal wireless devices, 019/3/1/
- 106/473/DTR, IEC TR 62669 ED2: Case studies supporting IEC 62232 - Determination of RF field strength and SAR in the vicinity of radiocommunication base stations for the purpose of evaluating human exposure, 019/2/1/
- 106/476/CD, IEC/IEEE 63195 ED1: Measurement procedure for the assessment of power density of human exposure to radio frequency fields from wireless devices operating in close proximity to the head and body - Frequency range of 6 GHz to 300 GHz, 019/3/1/
- 107/344/DC, Draft IEC Technical Report for comments: IEC TR 63238 -1 ED1, Process Management for Avionics - Electronics Design - Part 1: Interface Control Document (ICD), 019/2/1/
- 20/1858/FDIS, IEC 63075 ED1: Superconducting AC power cables and their accessories for rated voltages from 6 kV to 500 kV - Test methods and requirements, 2019/1/18
- 31/1440/DC, Draft interpretation sheet: IEC 60079-0:2017 Edition 7.0 Explosive atmospheres - Part 0: Equipment - General requirements, 2019/1/18
- 35/1414/DC, Introduction of "Collective Management Table" in order to review dimensions, MAD values and test patterns for all models as described in 35/1387/CD (IEC 60086-2 ED14) and 35/1402/CD (IEC 60086-3 ED5), 2019/1/18
- 40/2648/DTR, IEC TR 60286-7 ED1: Packaging of components for automatic handling - Part 7: Introduction of a Bulk Blister Pack for miniaturized components, 019/2/1/
- 47/2527/CD, IEC 63068-3 ED1: Semiconductor devices - Non-destructive recognition criteria of defects in silicon carbide homoepitaxial wafer for power devices - Part 3: Test method for defects using photoluminescence, 019/3/1/
- 47/2528/CD, IEC 63229 ED1: Semiconductor devices - The classification of defects in gallium nitride epitaxial wafers on silicon carbide substrate, 019/3/1/
- 47/2529/NP, PNW 47-2529: Semiconductor devices - Semiconductor devices for energy harvesting and generation - Part 8: Test and evaluation methods of flexible and stretchable supercapacitors for use in low power electronics, 019/3/1/
- 51/1264/CD, IEC 62024-2 ED2: High frequency inductive components - Electrical characteristics and measuring methods - Part 2: Rated current of inductors for DC to DC converters, 019/3/1/
- 55/1736/CD, IEC 60317-82 ED1: Specifications for particular types of winding wires - Part 82: Polyesterimide enamelled rectangular copper wire, class 200, 019/3/1/
- 64/2356/Q, Possible conversion of IEC 60364-5-55 Clause 551 to a new Part 7, 019/2/1/
- 72/1158/CDV, IEC 60730-2-9/AMD2 ED4: Automatic electrical controls - Part 2-9: Particular requirements for temperature sensing control, 019/3/1/
- 72/1165/NP, PNW 72-1165: Automatic electrical controls - Part 2-xx: Particular requirements for electrical sensors and sensor elements, 019/3/1/
- 82/1532/NP, PNW 82-1532: Polymeric materials for photovoltaic (PV) modules - Part 2-1: Safety requirements for polymeric frontsheet and backsheet, 019/3/1/
- 82/1534/CD, IEC TS 63157 ED1: Guidelines for effective quality assurance of power conversion equipment for photovoltaic systems, 019/2/1/
- 82/1535/CD, IEC 62788-1-4/AMD1 ED1: Amendment 1 - Measurement procedures for materials used in photovoltaic modules - Part 1-4: Encapsulants - Measurement of optical transmittance and calculation of the solar-weighted photon transmittance, yellowness index, and UV cut-off wavelength, 019/2/1/
- 100/3195/NP, PNW 100-3195 ED1: Spatial wireless power transfer based on multiple magnetic resonances (SWPT-MMR) - Part 1: Requirements, 019/3/1/
- SyCAAL/130/CD, IEC 63168 ED1: Cooperative multiple systems in connected home environments - Functional safety of electrical/electronic safety-related systems - AAL aspects, 019/2/1/



# 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

### AIRCRAFT AND SPACE VEHICLES (TC 20)

[ISO 9206:2018](#), Aerospace - Fixed displacement hydraulic motors - General specifications, \$185.00

### ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

[ISO 80601-2-56/Amd1:2018](#), Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement - Amendment 1, \$19.00

### BUILDING CONSTRUCTION (TC 59)

[ISO 19650-1:2018](#), Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) - Information management using building information modelling - Part 1: Concepts and principles, \$162.00

[ISO 19650-2:2018](#), Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM) - Information management using building information modelling - Part 2: Delivery phase of the assets, \$138.00

### EARTH-MOVING MACHINERY (TC 127)

[ISO 7132/Amd1:2018](#), Earth-moving machinery - Dumpers - Terminology and commercial specifications - Amendment 1, \$19.00

### FERTILIZERS AND SOIL CONDITIONERS (TC 134)

[ISO 20977:2018](#), Liming materials - Determination of size distribution by dry and wet sieving, \$103.00

[ISO 22146:2018](#), Carbonate liming materials - Determination of reactivity - Automatic titration method with citric acid, \$103.00

### FLUID POWER SYSTEMS (TC 131)

[ISO 3601-3/Amd1:2018](#), Fluid power systems - O-rings - Part 3: Quality acceptance criteria - Amendment 1, \$19.00

### GEOSYNTHETICS (TC 221)

[ISO 12957-1:2018](#), Geosynthetics - Determination of friction characteristics - Part 1: Direct shear test, \$68.00

### GRAPHIC TECHNOLOGY (TC 130)

[ISO 19302:2018](#), Graphic technology - Colour conformity of printing workflows, \$103.00

[ISO 21632:2018](#), Graphic technology - Determination of the energy consumption of digital printing devices including transitional and related modes, \$185.00

### GRAPHICAL SYMBOLS (TC 145)

[ISO 7010/Amd9:2018](#), Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 9, \$19.00

### IMPLANTS FOR SURGERY (TC 150)

[ISO 13779-2:2018](#), Implants for surgery - Hydroxyapatite - Part 2: Thermally sprayed coatings of hydroxyapatite, \$68.00

[ISO 13779-3:2018](#), Implants for surgery - Hydroxyapatite - Part 3: Chemical analysis and characterization of crystallinity ratio and phase purity, \$162.00

[ISO 13779-4:2018](#), Implants for surgery - Hydroxyapatite - Part 4: Determination of coating adhesion strength, \$45.00

### NICKEL AND NICKEL ALLOYS (TC 155)

[ISO 23166:2018](#), Nickel alloys - Determination of tantalum - Inductively coupled plasma optical emission spectrometric method, \$68.00

### OPTICS AND OPTICAL INSTRUMENTS (TC 172)

[ISO 9211-8:2018](#), Optics and photonics - Optical coatings - Part 8: Minimum requirements for coatings used for laser optics, \$68.00

[ISO 10110-18:2018](#), Optics and photonics - Preparation of drawings for optical elements and systems - Part 18: Stress birefringence, bubbles and inclusions, homogeneity, and striae, \$138.00

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

[ISO 23388:2018](#), Protective gloves against mechanical risks, \$162.00

[ISO 18639-5:2018](#), PPE ensembles for firefighters undertaking specific rescue activities - Part 5: Helmet, \$138.00

### PLASTICS (TC 61)

[ISO 294-2:2018](#), Plastics - Injection moulding of test specimens of thermoplastic materials - Part 2: Small tensile bars, \$45.00

### QUALITY MANAGEMENT AND CORRESPONDING GENERAL ASPECTS FOR MEDICAL DEVICES (TC 210)

[ISO 18250-1:2018](#), Medical devices - Connectors for reservoir delivery systems for healthcare applications - Part 1: General requirements and common test methods, \$209.00

### SHIPS AND MARINE TECHNOLOGY (TC 8)

[ISO 5894:2018](#), Ships and marine technology - Manholes with bolted covers, \$103.00

### SURFACE ACTIVE AGENTS (TC 91)

[ISO 4323:2018](#), Soaps - Determination of chloride content - Potentiometric method, \$45.00

### WATER QUALITY (TC 147)

[ISO 11348-1/Amd1:2018](#), Water quality - Determination of the inhibitory effect of water samples on the light emission of *Vibrio fischeri* (Luminescent bacteria test) - Part 1: Method using freshly prepared bacteria - Amendment 1, \$19.00

[ISO 11348-2/Amd1:2018](#), Water quality - Determination of the inhibitory effect of water samples on the light emission of *Vibrio fischeri* (Luminescent bacteria test) - Part 2: Method using liquid-dried bacteria - Amendment 1, \$19.00

[ISO 11348-3/Amd1:2018](#), Water quality - Determination of the inhibitory effect of water samples on the light emission of *Vibrio fischeri* (Luminescent bacteria test) - Part 3: Method using freeze-dried bacteria - Amendment 1, \$19.00

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

[ISO 20601:2018](#), Non-destructive testing of welds - Ultrasonic testing - Use of automated phased array technology for thin-walled steel components, \$103.00

### **ISO Technical Reports**

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

[ISO/TR 22957:2018](#), Document management - Analysis, selection and implementation of enterprise content management (ECM) systems, \$209.00

#### **PROJECT, PROGRAMME AND PORTFOLIO MANAGEMENT (TC 258)**

[ISO/TR 21506:2018](#), Project, programme and portfolio management - Vocabulary, \$45.00

#### **RAILWAY APPLICATIONS (TC 269)**

[ISO/TR 21245:2018](#), Railway applications - Railway project planning process - Guidance on railway project planning, \$162.00

### **ISO Technical Specifications**

#### **BIOTECHNOLOGY (TC 276)**

[ISO/TS 20399-1:2018](#), Biotechnology - Ancillary materials present during the production of cellular therapeutic products - Part 1: General requirements, \$68.00

[ISO/TS 20399-2:2018](#), Biotechnology - Ancillary materials present during the production of cellular therapeutic products - Part 2: Best practice guidance for ancillary material suppliers, \$68.00

[ISO/TS 20399-3:2018](#), Biotechnology - Ancillary materials present during the production of cellular therapeutic products - Part 3: Best practice guidance for ancillary material users, \$68.00

## **IEC Standards**

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

[IEC 60268-3 Ed. 5.0 b:2018](#), Sound system equipment - Part 3: Amplifiers, \$352.00

[IEC 62087-7 Ed. 1.0 en:2018](#), Audio, video and related equipment - Methods of measurement for power consumption - Part 7: Computer monitors, \$164.00

[IEC 60728-113 Ed. 1.0 b:2018](#), Cable networks for television signals, sound signals and interactive services - Part 113: Optical systems for broadcast signal transmissions loaded with digital channels only, \$352.00

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

[IEC 60079-0-V0 Ed. 7.0 b:2017](#), Explosive atmospheres - Part 0: Equipment - General requirements, \$387.00

#### **POWER TRANSFORMERS (TC 14)**

[IEC 60076-21 Ed. 2.0 en:2018](#), Power transformers - Part 21: Standard requirements, terminology, and test code for step-voltage regulators, \$352.00

#### **SAFETY OF MACHINERY - ELECTROTECHNICAL ASPECTS (TC 44)**

[IEC 61496-3 Ed. 3.0 b:2018](#), Safety of machinery - Electro-sensitive protective equipment - Part 3: Particular requirements for active opto-electronic protective devices responsive to diffuse Reflection (AOPDDR), \$375.00

[S+ IEC 61496-3 Ed. 3.0 en:2018 \(Redline version\)](#), Safety of machinery - Electro-sensitive protective equipment - Part 3: Particular requirements for active opto-electronic protective devices responsive to diffuse Reflection (AOPDDR), \$488.00

#### **SWITCHGEAR AND CONTROLGEAR AND THEIR ASSEMBLIES FOR LOW VOLTAGE (TC 121)**

[IEC 61439-7 Ed. 1.0 b:2018](#), Low-voltage switchgear and controlgear assemblies - Part 7: Assemblies for specific applications such as marinas, camping sites, market squares, electric vehicle charging stations, \$235.00

#### **TERMINOLOGY (TC 1)**

[IEC 60050-521 Amd.2 Ed. 2.0 b:2018](#), Amendment 2 - International Electrotechnical Vocabulary (IEV) - Part 521: Semiconductor devices and integrated circuits, \$12.00

[IEC 60050-523 Ed. 1.0 b:2018](#), International Electrotechnical Vocabulary (IEV) - Part 523: Micro-electromechanical devices, \$164.00

[IEC 60050-617 Amd.3 Ed. 1.0 b:2018](#), Amendment 3 - International Electrotechnical Vocabulary (IEV) - Part 617: Organization/Market of electricity, \$12.00

### **IEC Technical Specifications**

#### **UHV AC TRANSMISSION SYSTEMS (TC 122)**

[IEC/TS 63042-301 Ed. 1.0 en:2018](#), UHV AC transmission systems - Part 301: On-site acceptance tests, \$235.00

# Proposed Foreign Government Regulations

## Call for Comment

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

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

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

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

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

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

# Information Concerning

---

## American National Standards

### Call for Members

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

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

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

Membership in the INCITS Executive Board is open to all directly and materially affected parties in accordance with INCITS membership rules. To find out more about participating on the INCITS Executive Board, contact Jennifer Garner at [jgarner@itic.org](mailto:jgarner@itic.org) or visit <http://www.incits.org/participation/membership-info> for more information.

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

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

### Society of Cable Telecommunications

#### ANSI Accredited Standards Developer

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

SCTE is currently seeking to broaden the membership base of its 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 a materially affected parties as defined in SCTE's membership rules and operating procedures. More information is available at [www.scte.org](http://www.scte.org) or by e-mail from [standards@scte.org](mailto:standards@scte.org).

## ANSI Accredited Standards Developers

### Application for Accreditation

#### Behavioral Health Center of Excellence (BHCOE)

#### Comment Deadline: January 14, 2019

The Behavioral Health Center of Excellence (BHCOE), a new ANSI member, has submitted an application for accreditation as an ANSI Accredited Standards Developer (ASD) and proposed operating procedures for documenting consensus on BHCOE-sponsored American National Standards. BHCOE's proposed scope of standards activity is as follows:

BHCOE's Code of Effective Behavioral Organizations ("Code") are a set of standards which guide organizations who provide Applied Behavior Analysis therapy services. Applied Behavior Analysis (ABA) is a therapy used primarily with individuals with autism and other developmental disabilities and is widely funded by private and public insurance carriers, schools, and state programs.

To obtain a copy of BHCOE's application and proposed operating procedures or to offer comments, please contact: Ms. Sara Litvak, Chief Operating Officer, Behavioral Health Center for Excellence, 7083 Hollywood Boulevard #565, Los Angeles, CA 90028; phone: 310.627.2746, ext. 1001; e-mail: [sara@bhcoe.org](mailto:sara@bhcoe.org). Please submit any comments to BHCOE by January 14, 2019, with a copy to the ExSC Recording Secretary in ANSI's New York Office (E-mail: [Jthompson@ANSI.org](mailto:Jthompson@ANSI.org)). As the proposed procedures are available electronically, the public review period is 30 days. You may view or download a copy of BHCOE's proposed operating procedures from ANSI Online during the public review period at the following URL: [www.ansi.org/accredPR](http://www.ansi.org/accredPR).

### Approval of Reaccreditation

#### CPLSO

The reaccreditation of CPLSO, an ANSI member and Accredited Standards Developer (ASD), has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on CPLSO-sponsored American National Standards, effective December 11, 2018. For additional information, please contact: Hugh Pratt, Ph.D., CPLSO, The Marchioness Building, Commercial Road, Bristol, UK BS1 6TG; phone: (011) 44-78-796-92989; e-mail: [pratt.hugh@cplso.org](mailto:pratt.hugh@cplso.org).

## Recreditation

### FM Approvals

**Comment Deadline: January 14, 2019**

FM Approvals, an ANSI member and Accredited Standards Developer, has submitted revisions to its currently accredited operating procedures for documenting consensus on FM Approvals-sponsored American National Standards, under which it was last reaccredited in 2017. As the current revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: Ms. Josephine Mahnken, Senior Business Process Specialist, FM Approvals, P.O. Box 9102, 1151 Boston-Providence Turnpike, Norwood, MA 02062; phone: 781.255.4813; e-mail: josephine.mahnken@fmapprovals.com. You may view/download a copy of the revisions during the public review period at the following URL: [www.ansi.org/accredPR](http://www.ansi.org/accredPR). Please submit any public comments on the revised procedures to FM Approvals by January 14, 2019, with a copy to the ExSC Recording Secretary in ANSI's New York Office ([jthomps@ANSI.org](mailto:jthomps@ANSI.org)).

## International Organization for Standardization (ISO)

### Call for U.S. TAG Administrator

#### ISO/TC 34/SC 18 – Cocoa

ANSI has been informed that American Oil Chemists Society (AOCS), the ANSI-accredited U.S. TAG Administrator for ISO/TC 34/SC 18, wishes to relinquish their role as U.S. TAG Administrator.

ISO/TC 34/SC 18 operates under the following scope:

Standardization in the field of cocoa, including, but not limited to, terminology, sampling, product specifications, test methods, and requirements and verification criteria for determination of the sustainability and traceability of cocoa respectively.

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

## International Electrotechnical Commission (IEC)

### USNC International Secretariat – Organization Needed

**Response Deadline: December 26, 2018**

ISA is relinquishing its role as the International Secretariat organization for IEC/SC 65B. The USNC is looking for a new organization to take on this International Secretariat role on behalf of the USNC.

Please note that holding IEC Secretariats is vital to helping the USNC maintain its influence and stance within the IEC.

If an organization is interested in the International Secretariat role for IEC/SC 65B, they are invited to contact Kendall Szulewski-Francis at [ksfrancis@ansi.org](mailto:ksfrancis@ansi.org) no later than December 26, 2018.

Please see the scope of IEC/SC 65B below.

#### Scope:

Standardization in the field of specific aspects of devices (hardware and software) used in industrial process measurement and control, such as measurement devices, analyzing equipment, actuators, and programmable logic controllers, and covering such aspects as interchangeability, performance evaluation, and functionality definition.

### USNC – USTAG Administrator – Organization Needed

ISA is relinquishing its role as the USTAG Administrator for the USTAG to IEC/SC 65B. The USNC is looking for a new organization to take on this USTAG Administratorship.

Please note that according to the rules and procedures of the USNC, a USTAG cannot exist without a USTAG Administrator. If we cannot find a new USTAG Administrator, the USNC will have to withdraw from international participation and register with the IEC as a Non-Member of this Committee.

If an organization is interested in the position of USTAG Administrator for the USTAG to IEC/SC 65B, they are invited to contact Kendall Szulewski-Francis at [ksfrancis@ansi.org](mailto:ksfrancis@ansi.org) no later than December 26, 2018.

Please see the scope of IEC/SC 65B below.

#### Scope:

Standardization in the field of specific aspects of devices (hardware and software) used in industrial process measurement and control, such as measurement devices, analyzing equipment, actuators, and programmable logic controllers, and covering such aspects as interchangeability, performance evaluation, and functionality definition.

# Information Concerning

## International Organization for Standardization (ISO)

### Call for U.S. TAG Administrators TC 114 – *Horology*

There is currently no ANSI-accredited U.S. TAG Administrator for TC 114, TC 114/SC 3, TC 114/SC 12, TC 114/SC 13, TC 114/SC 14, and therefore ANSI is not a member of these committees. The Secretariats for these committees are currently held by Switzerland (SNV) for TC 114, TC 114,SC 3, TC 114/SC 13; by Japan (JISC) for TC 114/SC 12; and by China (SAC) for TC 114/SC 14.

#### **TC 114 operates under the following scope:**

*Standardization in the field of instruments of small and large size intended for measuring time and time keeping :*

- *terminology;*
- *technical definitions;*
- *standardization of overall dimensions;*
- *any other questions which may be proposed in the future*

#### **TC 114/SC 3 operates under the following scope:**

*Water-resistant watches*

#### **TC 114/SC 12 operates under the following scope:**

*Antimagnetism*

#### **TC 114/SC 13 operates under the following scope:**

*Watch-glasses*

#### **TC 114/SC 14 operates under the following scope:**

*Table and wall clocks*

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

Not for publication. This document is part of the NSF International standard development process. This draft text is for circulation for review and/or approval by a NSF Standards Committee and has not been published or otherwise officially adopted. All rights reserved. This document may be reproduced for informational purposes only.

[Note – the recommended changes to the standard which include the current text of the relevant section(s) indicate deletions by use of ~~strikeout~~ and additions by grey highlighting. Rationale Statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

## NSF/ANSI Standard

# Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and other Recreational Water Facilities

Evaluation criteria for materials, components, products, equipment, and systems for use at recreational water facilities

- 
- 
- 

## 9 Recessed automatic surface skimmers

This section contains requirements for recessed automatic surface skimmers used for public and residential pools and spas/hot tubs. The requirements apply to the basic components of a surface skimmer, including the skimmer housing; strainer basket; weir; cover and mounting ring; equalizer valve or air lock protector; trimmer valve and flow balancing valves for multiple skimmer installation; and vacuum cleaner connections. Recommended procedures for the installation and operation of skimmers on public and residential pools and spas/hot tubs are provided in Annex K.

### 9.1 Housing

**9.1.1** Skimmer housings whose inlets may be closed during part of operating cycle shall not sustain damage or permanent deformation when exposed to a negative pressure of 25 in Hg (85 kPa).

**9.1.2** The housing design shall allow for a smooth flow over the effective weir length.

**9.1.3** On swimming pool skimmers, the housing opening at the entrance throat shall be at least 7.5 in (190 mm) wide. On and spa / hot tub skimmers, the housing opening at the entrance throat shall be at least 4 in (102 mm) wide. If a circular weir is used, there shall be a clearance of at least 2 in (51 mm) between the weir lip and the side of the skimmer housing.

### 9.2 Weir

**9.2.1** A skimmer shall have a weir that operates freely with continuous action and adjusts automatically to variations in water level over a minimum range of 4 in (102 mm), or 3 in (76 mm) if an auto-fill pool water level control device is used when operated at the maximum design flow rate (see Annex E, Section E.2).

**9.2.2** Flap-type weirs on swimming pool skimmers shall have a minimum unobstructed width of 7.25 in (184 mm) over the full operating range. Flap-type weirs on and spa / hot tub skimmers shall have a minimum unobstructed width of 3.75 in (95 mm) over the full operating range. Flap-type weirs shall be buoyant and designed to develop an even flow over their full width. The clearance between the weir and the housing

Tracking #50i154r1  
© 2018 NSF International

Revision to NSF/ANSI 50-2017  
Draft 1, Issue 154 (December 2018)

**Not for publication. This document is part of the NSF International standard development process. This draft text is for circulation for review and/or approval by a NSF Standards Committee and has not been published or otherwise officially adopted. All rights reserved. This document may be reproduced for informational purposes only.**

side shall not exceed 0.125 in (3 mm) at any point. Hinge construction shall preclude leakage. The weir shall be firmly attached to the housing and shall be accessible for cleaning and replacement in the field.

**9.2.3** Circular weirs shall have a minimum diameter of 4 in (102 mm). They shall be buoyant and designed to develop an even flow on the water surface around the circumference. The radial clearance between the weir float and the weir housing shall not exceed 0.079 in (2 mm). The float or basket housing shall have devices to eliminate binding. The weir shall be accessible for replacement in the field.

- 
- 
-

Tracking #140i27r2  
 © 2018 NSF International  
 Revision 2 Issue 27

Revision to NSF/ANSI 140-2015  
 Draft 2, Issue 27 (November 2018)

**Not for publication. This document is part of the NSF International standard development process. This draft text is for circulation for review and/or approval by a NSF Standards Committee and has not been published or otherwise officially adopted. All rights reserved. This document may be reproduced for informational purposes only.**

[Note – the recommended changes to the standard which include the current text of the relevant section(s) indicate deletions by use of ~~strikeout~~ and additions by grey highlighting. Rationale Statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

## NSF 140

### Sustainability assessment for carpet

- 
- 
- 

#### 6.3.5.2.2 PBTs released as process outputs

The boundary for this credit shall be Annex B, Figure B1. A manufacturer shall receive one point for obtaining documentation from a minimum of 70% of first tier suppliers (one step upstream) of the manufacturing facility (see Annex B, Figure B1) demonstrating that PBT chemicals and other chemicals of concern (as defined in Annex B, Table B1) are not released as process outputs (emissions) at the point of manufacture at or above CERCLA reportable quantity (RQ) reporting thresholds. The manufacturer shall document that first tier suppliers do not have PBT emissions at or above the reporting thresholds described in Annex B. This shall apply only to the emissions directly associated with the incoming raw materials that result in 1% or greater of the final product.

- 
- 
-

Tracking number 173i86r1  
© 2017 NSF International

Revision to NSF/ANSI 173 – 2017  
Issue 86, Revision 1 (December 2018)

Not for publication. This document is part of the NSF International standard development process. This draft text is for circulation for review and/or approval by a NSF Standards Committee and has not been published or otherwise officially adopted. All rights reserved. This document may be reproduced for informational purposes only.

## NSF International Standard for Dietary Supplements —

## Dietary Supplements

- 
- 
- 

### Annex D (normative)

#### List of pesticide limits and allowances

(Compounds are based on those suggested by the USDA National Organics Program  
in document USDA-NOP-2611-1)

- 
- 
- 

Pesticide	CAS#	Maximum Allowable Level per day ( $\mu\text{g}/\text{day}$ ) <sup>1</sup>
formetanate hydrochloride	23422-53-9	2.2
gamma-hexachlorcyclohexanum (lindane)	58-89-9	11
<b>Total:</b> glyphosate +	1071-83-6	7000 <sup>3</sup>
glyphosate isopropylamine +	38641-94-0	
glyphosate, sesquisodium salt +	70393-85-0	
glyphosate ammonium +	114370-14-8	
glyphosate-ethanolamine +	40465-76-7	
glyphosate-diammonium +	69254-40-6	
glyphosate dimethylamine salt +	34494-04-7	
glycine, n-(phosphonomethyl)-, potassium salt	70901-12-1	
heptachlor epoxide	1024-57-3	0.077
hexachlorobenzene (HCB)	118-74-1	0.69

- 
- 
- 

<sup>1</sup> The calculation used to derive the MAL was dependent on whether a population adjusted dose (PAD), acceptable daily intake (ADI), tolerable daily intake (TDI), or  $10^{-5}$  risk level was selected. The calculation consisted of multiplying the PAD, ADI or TDI by the weight of an average adult (70 kg) and a relative source contribution (RSC) of 10% (Equation 1) or if the  $10^{-5}$  risk level was selected the calculation consisted of multiplying the  $10^{-5}$  risk level by the weight of an average adult (Equation 2).

Equation 1:  $\text{MAL (mg/day)} = [\text{PAD, ADI, or TDI (mg/kg-day)} \times 70 \text{ kg}] \times 0.1 \text{ (RSC)}$

Equation 2:  $\text{MAL (mg/day)} = 10^{-5} \text{ risk level (mg/kg-day)} \times 70 \text{ kg}$

Tracking number 173i86r1  
© 2017 NSF International

Revision to NSF/ANSI 173 – 2017  
Issue 86, Revision 1 (December 2018)

**Not for publication. This document is part of the NSF International standard development process. This draft text is for circulation for review and/or approval by a NSF Standards Committee and has not been published or otherwise officially adopted. All rights reserved. This document may be reproduced for informational purposes only.**

Pesticide	CAS#	Maximum Allowable Level per day ( $\mu\text{g}/\text{day}$ ) <sup>1</sup>
<sup>2</sup> Upon detection during product certification testing, a chemical-specific risk assessment, to establish an MAL, may be offered as a failure resolution option.		
<sup>3</sup> MAL based on draft PAD criteria.		

## BSR/UL 67, Standard for Safety for Panelboards

### 1. Revision of the Scope of Supplement SB

#### SB1 Scope

SB1.1 These requirements cover classified circuit breakers intended for use as alternates for specified circuit breakers for use with in specified panelboards protected by a main breaker, or main breakers, each rated 225 amperes or less, 120/240 volts maximum where the available short-circuit current is 10 kA, 120/240 volts ac maximum.

**UL copyrighted material. Not authorized for further reproduction without prior permission from UL.**

## BSR/UL 758, Standard for Safety for Appliance Wiring Material

### PROPOSALS

#### 1. Conductor Size for IEC 60332-1 Flame Test, Revised 45.3

45.3 The IEC 60332-1-1, IEC 60332-1-2, and IEC 60332-1-3 flame tests typically apply to the complete finished wire or cable in gauge sizes 20 AWG (0.5 mm<sup>2</sup>) or greater, however, smaller conductor sizes are not prohibited from being evaluated to the requirements of this test. Insulated conductors in a finished cable are not determined to comply with the with the IEC 60332-1-1, IEC 60332-1-2, and IEC 60332-1-3 flame tests unless specifically noted on the tag markings.

#### 2. Reinforced Jackets, Revised 13.1.1

13.1.1 A protective jacket is not required for internal use cables. When used, the jacket shall be of an integral or nonintegral construction. The jacket material shall be in accordance with Tables 7.2 and 7.3, or any of the materials described in Specific Materials, Section 50, of UL 1581. The jacket thickness is not specified, however, it must comply with the tests outlined in these requirements. The jacket may be applied simultaneously in more than one color/layer provided that all layers are not separable and are of the same base compound (differ only in color). Jackets with a total thickness of 1.14 mm (0.045 in) and greater may have a reinforcement consisting of an open weave or the like, placed between adjacent layers of the same base compound, that shall not be readily separable. The thickness of each individual layer is not specified.

UL copyrighted material. Not authorized for further reproduction without permission from UL.

## BSR/UL 1561, Standard for Safety for Dry-Type General Purpose and Power Transformers

### 1. Proposal to add cooper bus bar requirements

11.11 The cross section of a bus bar as specified in 11.10 and 11.12 may be reduced by no more than 5 percent due to rounding, shaping, or dimensional tolerances. Bus bar ampacity is determined by compliance with the temperature test requirements of Section 23 or as specified in 11.12.

11.12 Copper bus bars should be sized based on the transformer full load current determined in accordance with 21.4 and the following:

- a) the current density of copper shall not be ~~less~~ greater than 1000 A/in<sup>2</sup> (1.55 A/mm<sup>2</sup>);
- b) the current density of the contact area at a bolted copper joint shall not be ~~less~~ greater than 200 A/in<sup>2</sup>; and
- c) each bus bar shall be plated at each joint with tin, silver, or nickel.

Exception No. 1: Copper bus bars need not be plated if the current at the joint is 600 A or less.

Exception No. 2: A welded or brazed joint need not be plated.

11.13 Other than covered in 11.12, plated or unplated copper bus bars shall meet the temperature requirements in 23.1.

**Table 23.1**

*Maximum temperature rises*

Material or component	°C
a) Fiber used as electrical insulation	50
b) Any point on a surface adjacent to a transformer, including the surface on which the transformer is mounted	50
c) Insulated wire	40°C less than its recognized temperature rating
d) Any point within a terminal or wiring compartment that a field-installed conductor might contact, including such a conductor itself, unless the transformer is marked in accordance with 38.12.3	
1) Field-wiring conductor current rating of 100 amperes or less	20 <sup>a,b</sup>

2) Field-wiring conductor current rating of greater than 100 amperes			35 <sup>a,b</sup>
e) Any point on the exterior of the transformer enclosure, except as indicated in 23.2.1 and 23.3.1			50
f) Transformer winding insulation systems (resistance method)			
<u>Insulation System</u>	<u>Ambient</u>	<u>Hot Spot Differential</u>	
Class 105	40	10	55
Class 130	40	15	75
Class 155	40	20	95
Class 180	40	25	115
Class 200	40	25	135
Class 220	40	30	150
Class 240	40	35	165
g) Polymeric insulation materials			40°C less than its recognized temperature rating
h) Bolted joints involving aluminum except where lower limit is specified in (d)			65
i) <u>Unplated bus bars or unplated joints</u>			<u>50</u>
j) <u>Plated bus bars or plated joints</u>			<u>65</u>
<sup>a</sup> The temperature on a wiring terminal or lug is measured at the point most likely to be contacted by the insulation of a conductor installed as in actual service.			
<sup>b</sup> If the rise is 35°C or less and an aluminum bodied connector is used or aluminum wire is intended, the connector shall be marked AL7CU or AL9CU. If the terminal temperature rise exceeds 35°C but does not exceed 50°C, the connector shall be marked AL9CU. See 38.12.3 and 38.12.4 for additional markings.			

UL copyrighted material. Not authorized for further reproduction without prior permission from UL.



## 2019 Standards Action Publishing | Volume No. 50

\*The "Submit End" deadline applies to forms received by Monday, 5:00 PM ET

Based on the dates below, an ANSI-Developer can anticipate that a request made between the SUBMIT START date and the \*SUBMIT END 5 PM date will appear in ANSI Standards Action on the SA PUBLISHED date.

The last three columns display the 30, 45 & 60-DAY PR (Public Review) END dates

ISSUE	SUBMIT START	*SUBMIT END 5 PM	SA PUBLISHED	30-DAY PR END	45-DAY PR END	60-DAY PR END
1	12/18/2018	12/24/2018	Jan-4	2/3/2019	2/18/2019	3/5/2019
2	12/25/2018	12/31/2018	Jan-11	2/10/2019	2/25/2019	3/12/2019
3	1/1/2019	1/7/2019	Jan-18	2/17/2019	3/4/2019	3/19/2019
4	1/8/2019	1/14/2019	Jan-25	2/24/2019	3/11/2019	3/26/2019
5	1/15/2019	1/21/2019	Feb-1	3/3/2019	3/18/2019	4/2/2019
6	1/22/2019	1/28/2019	Feb-8	3/10/2019	3/25/2019	4/9/2019
7	1/29/2019	2/4/2019	Feb-15	3/17/2019	4/1/2019	4/16/2019
8	2/5/2019	2/11/2019	Feb-22	3/24/2019	4/8/2019	4/23/2019
9	2/12/2019	2/18/2019	Mar-1	3/31/2019	4/15/2019	4/30/2019
10	2/19/2019	2/25/2019	Mar-8	4/7/2019	4/22/2019	5/7/2019
11	2/26/2019	3/4/2019	Mar-15	4/14/2019	4/29/2019	5/14/2019
12	3/5/2019	3/11/2019	Mar-22	4/21/2019	5/6/2019	5/21/2019
13	3/12/2019	3/18/2019	Mar-29	4/28/2019	5/13/2019	5/28/2019
14	3/19/2019	3/25/2019	Apr-5	5/5/2019	5/20/2019	6/4/2019
15	3/26/2019	4/1/2019	Apr-12	5/12/2019	5/27/2019	6/11/2019
16	4/2/2019	4/8/2019	Apr-19	5/19/2019	6/3/2019	6/18/2019
17	4/9/2019	4/15/2019	Apr-26	5/26/2019	6/10/2019	6/25/2019
18	4/16/2019	4/22/2019	May-3	6/2/2019	6/17/2019	7/2/2019
19	4/23/2019	4/29/2019	May-10	6/9/2019	6/24/2019	7/9/2019
20	4/30/2019	5/6/2019	May-17	6/16/2019	7/1/2019	7/16/2019
21	5/7/2019	5/13/2019	May-24	6/23/2019	7/8/2019	7/23/2019
22	5/14/2019	5/20/2019	May-31	6/30/2019	7/15/2019	7/30/2019
23	5/21/2019	5/27/2019	Jun-7	7/7/2019	7/22/2019	8/6/2019
24	5/28/2019	6/3/2019	Jun-14	7/14/2019	7/29/2019	8/13/2019
25	6/4/2019	6/10/2019	Jun-21	7/21/2019	8/5/2019	8/20/2019
26	6/11/2019	6/17/2019	Jun-28	7/28/2019	8/12/2019	8/27/2019
27	6/18/2019	6/24/2019	Jul-5	8/4/2019	8/19/2019	9/3/2019
28	6/25/2019	7/1/2019	Jul-12	8/11/2019	8/26/2019	9/10/2019
29	7/2/2019	7/8/2019	Jul-19	8/18/2019	9/2/2019	9/17/2019



## 2019 Standards Action Publishing | Volume No. 50

\*The "Submit End" deadline applies to forms received by Monday, 5:00 PM ET

Based on the dates below, an ANSI-Developer can anticipate that a request made between the SUBMIT START date and the \*SUBMIT END 5 PM date will appear in ANSI Standards Action on the SA PUBLISHED date.

The last three columns display the 30, 45 & 60-DAY PR (Public Review) END dates

ISSUE	SUBMIT START	*SUBMIT END 5 PM	SA PUBLISHED	30-DAY PR END	45-DAY PR END	60-DAY PR END
30	7/9/2019	7/15/2019	<b>Jul-26</b>	8/25/2019	9/9/2019	9/24/2019
31	7/16/2019	7/22/2019	<b>Aug-2</b>	9/1/2019	9/16/2019	10/1/2019
32	7/23/2019	7/29/2019	<b>Aug-9</b>	9/8/2019	9/23/2019	10/8/2019
33	7/30/2019	8/5/2019	<b>Aug-16</b>	9/15/2019	9/30/2019	10/15/2019
34	8/6/2019	8/12/2019	<b>Aug-23</b>	9/22/2019	10/7/2019	10/22/2019
35	8/13/2019	8/19/2019	<b>Aug-30</b>	9/29/2019	10/14/2019	10/29/2019
36	8/20/2019	8/26/2019	<b>Sep-6</b>	10/6/2019	10/21/2019	11/5/2019
37	8/27/2019	9/2/2019	<b>Sep-13</b>	10/13/2019	10/28/2019	11/12/2019
38	9/3/2019	9/9/2019	<b>Sep-20</b>	10/20/2019	11/4/2019	11/19/2019
39	9/10/2019	9/16/2019	<b>Sep-27</b>	10/27/2019	11/11/2019	11/26/2019
40	9/17/2019	9/23/2019	<b>Oct-4</b>	11/3/2019	11/18/2019	12/3/2019
41	9/24/2019	9/30/2019	<b>Oct-11</b>	11/10/2019	11/25/2019	12/10/2019
42	10/1/2019	10/7/2019	<b>Oct-18</b>	11/17/2019	12/2/2019	12/17/2019
43	10/8/2019	10/14/2019	<b>Oct-25</b>	11/24/2019	12/9/2019	12/24/2019
44	10/15/2019	10/21/2019	<b>Nov-1</b>	12/1/2019	12/16/2019	12/31/2019
45	10/22/2019	10/28/2019	<b>Nov-8</b>	12/8/2019	12/23/2019	1/7/2020
46	10/29/2019	11/4/2019	<b>Nov-15</b>	12/15/2019	12/30/2019	1/14/2020
47	11/5/2019	11/11/2019	<b>Nov-22</b>	12/22/2019	1/6/2020	1/21/2020
48	11/12/2019	11/18/2019	<b>Nov-29</b>	12/29/2019	1/13/2020	1/28/2020
49	11/19/2019	11/25/2019	<b>Dec-6</b>	1/5/2020	1/20/2020	2/4/2020
50	11/26/2019	12/2/2019	<b>Dec-13</b>	1/12/2020	1/27/2020	2/11/2020
51	12/3/2019	12/9/2019	<b>Dec-20</b>	1/19/2020	2/3/2020	2/18/2020
52	12/10/2019	12/16/2019	<b>Dec-27</b>	1/26/2020	2/10/2020	2/25/2020