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American National Standards

Call for comment on proposals listed

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

Ordering Instructions for "Call-for-Comment" Listings

1. **Order from the organization indicated for the specific proposal.**
2. **Use the full identification in your order, including the BSR prefix; for example, Electric Fuses BSR/SAE J554.**
3. **Include remittance with all orders.**
4. **BSR proposals will not be available after the deadline of call for comment.**

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

* Standard for consumer products

Comment Deadline: September 17, 2017

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

Addenda

BSR/ASHRAE Addendum a to BSR/ASHRAE Standard 147-201x, Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems (addenda to ANSI/ASHRAE Standard 147-2013)

This addendum makes changes to Informative Appendix A. These changes better define specific food items that may produce atmospheres that are corrosive to the evaporator coil in the airstream. It also addresses a more broad view of corrosion protection other than adding coatings.

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

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

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

Addenda

BSR/ASHRAE Addendum b to BSR/ASHRAE Standard 147-201x, Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems (addenda to ANSI/ASHRAE Standard 147-2013)

This addendum makes changes to Appendix A, Section 2.2.1.1. These changes place more specificity on the issues with the causes of refrigerant leaks in systems due to vibration. It also identifies two different remedies to vibration issues.

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

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

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

Addenda

BSR/ASHRAE Addendum c to BSR/ASHRAE Standard 147-201x, Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems (addenda to ANSI/ASHRAE Standard 147-2013)

This addendum addresses needed guidance for Informative Appendix A relative to Vibration [Section A2.2.3.1] and Water Treatment [Section A2.2.3.2]. These are informative in nature.

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

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

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

Addenda

BSR/ASHRAE Addendum d to BSR/ASHRAE Standard 147-201x, Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems (addenda to ANSI/ASHRAE Standard 147-2013)

This addendum removes a suggested method to remove a potential leak path that is already a requirement in Section 4 of the standard.

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

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

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

Addenda

BSR/ASHRAE Addendum e to BSR/ASHRAE Standard 147-201x, Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems (addenda to ANSI/ASHRAE Standard 147-2013)

This addendum requires the user and manufacturer to specify and use materials that will address the issue of known harsh, corrosive environments where the evaporator and/or condenser may be located.

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

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

TIA (Telecommunications Industry Association)

Revision

BSR/TIA 470.230-D-201x, Telecommunications - Telephone Terminal Equipment - Network Signaling Performance Requirements (revision and redesignation of ANSI/TIA 470.230-C-2005 (R2012))

Update outdated references and document structure.

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

Send comments (with copy to psa@ansi.org) to: standards@tiaonline.org

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 60335-2-1000-201X, Standard for Safety for Household and Similar Electrical Appliances: Particular Requirements for Electrically Powered Pool Lifts (new standard)

The following topic for the Standard for Safety for Household and Similar Electrical Appliances: Particular Requirements for Electrically Powered Pool Lifts, UL 60335-2-1000, is being recirculated: The first edition of the Standard for Safety for Household and Similar Electrical Appliances: Particular Requirements for Electrically Powered Pool Lifts, UL 60335-2-1000.

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

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

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 558-201x, Standard for Safety for Industrial Trucks, Internal Combustion Engine-Powered (Proposal dated 08-18-2017) (revision of ANSI/UL 558-2016)

The following changes in requirements to UL 558, they are: (1) Clarification of requirements for self-propelled floor cleaners.

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

Send comments (with copy to psa@ansi.org) to: Wilbert Fletcher, (919) 549-1337, Wilbert.Fletcher@ul.com

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

BSR/UL 844-201X, Standard for Safety for Luminaires for Use in Hazardous (Classified) Locations (Proposal dated 08-18-17) (revision of ANSI/UL 844-2016)

This proposal provides a new Section 29A to include an alternative Dust-Penetration Test and revisions to 37.5 to permit gasketed serviceable joints in luminaires.

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

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

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

BSR/UL 1030-201x, Standard for Safety for Sheathed Heating Elements (revision of ANSI/UL 1030-2015)

The following changes to UL 1030 are being proposed: Additional requirements for industrial-use medium voltage sheathed heating elements.

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

Send comments (with copy to psa@ansi.org) to: Julio Morales, (919)549-1097, Julio.Morales@ul.com

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

BSR/UL 1090-201x, Standard for Safety for Electric Snow Movers (revision of ANSI/UL 1090-2016)

(1) Proposed addition of Electrostatic Discharge Test requirements to determine if potential safety hazards exist during operation.

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

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

Comment Deadline: October 2, 2017**ANS (American Nuclear Society)****Reaffirmation**

BSR/ANS 8.3-1997 (R201x), Criticality Accident Alarm System (reaffirmation of ANSI/ANS 8.3-1997 (R2012))

This standard is applicable to operations with fissionable materials in which inadvertent criticality could occur, leading to an excessive radiation dose to personnel. This standard is not applicable to nuclear reactors or critical experiments.

Single copy price: \$112.00

Obtain an electronic copy from: scook@ans.org

Order from: scook@ans.org

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

ANS (American Nuclear Society)**Reaffirmation**

BSR/ANS 8.5-1996 (R201x), Use of Borosilicate-Glass Raschig Rings as a Neutron Absorber in Solutions of Fissile Material (reaffirmation of ANSI/ANS 8.5-1996 (R2012))

This standard provides guidance for the use of borosilicate-glass Raschig rings as a neutron absorber for criticality control in ring-packed vessels containing solutions of ²³⁵U, ²³⁹Pu, or ²³³U. The chemical and physical environment, properties of the rings and packed vessels, maintenance inspection procedures, and operating guidelines are specified.

Single copy price: \$70.00

Obtain an electronic copy from: scook@ans.org

Order from: scook@ans.org

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

ASC X9 (Accredited Standards Committee X9, Incorporated)**New Standard**

BSR X9.24-3-201x, Retail Financial Services Symmetric Key Management - Part 3: Derived Unique Key per Transaction (new standard)

The use of DUKPT, as defined in X9.24 part 1, informative Annex A, has become an industry standard. With the move from TDEA to AES, the AES DUKPT should itself become a standard. This new standard would be used to define various secure and vetted methods of any DUKPT implementation.

Single copy price: \$140.00

Obtain an electronic copy from: ambria.frazier@x9.org

Order from: Ambria Frazier, (410) 267-7707, Ambria.frazier@x9.org

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

ASC X9 (Accredited Standards Committee X9, Incorporated)**Reaffirmation**

BSR X9.100-40-1, X9.100-40-2-2006 (R201x), Specifications for Check Image Tests - Part 1: Definition of Elements and Structures; Part 2: Application and Registration Procedures (reaffirmation of ANSI X9.100-40-1, X9.100-40-2-2006)

Part 1 of ANSI X9.100-40 defines the elements and structures for standard check image tests used by the financial industry to assess specific attributes of check images. The specification establishes a framework for defining check image tests, conveying the results from executing a check image test, and conveying any parameters used in executing check image tests. Part 2 of ANSI X9.100-40 describes the application and registration procedures used to register check image tests that conform to this ANSI X9.100-40 Part 1 standard.

Single copy price: \$140.00

Obtain an electronic copy from: ambria.frazier@x9.org

Order from: Ambria Frazier, (410) 267-7707, Ambria.frazier@x9.org

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

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

Addenda

BSR/ASHRAE Addendum bd to BSR/ASHRAE Standard 135-201x, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2016)

This addendum adds a Staging Object Type, which provides a way for BACnet devices to map analog values onto multiple Binary Value, Binary Output, or Binary Lighting Output objects.

Single copy price: \$35.00

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

Order from: standards.section@ashrae.org

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

AWS (American Welding Society)

New Standard

BSR/AWS-NAVSEA B2.1-1-301-201x, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for Gas Tungsten Arc Welding of Carbon Steel (S-1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, MIL-70S-2, in the As-Welded or PWHT Condition, Primarily Plate and Structural Naval Applications (new standard)

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

Single copy price: \$128.00

Obtain an electronic copy from: jrosario@aws.org

Order from: Jennifer Rosario, (800) 443-9353, jrosario@aws.org

Send comments (with copy to psa@ansi.org) to: Andrew Davis, (305) 443-9353, x466, adavis@aws.org

AWS (American Welding Society)

New Standard

BSR/AWS-NAVSEA B2.1-1-311-201x, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for Gas Tungsten Arc Welding of Carbon Steel (S-1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, MIL-70S-2, in the As-Welded or PWHT Condition, Primarily Pipe for Naval Applications (new standard)

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

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Send comments (with copy to psa@ansi.org) to: Andrew Davis, (305) 443-9353, x466, adavis@aws.org

AWS (American Welding Society)

New Standard

BSR/AWS-NAVSEA B2.1-8-309-201x, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for Shielded Metal Arc Welding of Austenitic Stainless Steel (S-8), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, MIL-3XX-XX, in the As-Welded Condition, Primarily Plate and Structural Naval Applications (new standard)

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

Single copy price: \$128.00

Obtain an electronic copy from: jrosario@aws.org

Order from: Jennifer Rosario, (800) 443-9353, jrosario@aws.org

Send comments (with copy to psa@ansi.org) to: Andrew Davis, (305) 443-9353, x466, adavis@aws.org

AWS (American Welding Society)

New Standard

BSR/AWS-NAVSEA B2.1-8-319-201x, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for Shielded Metal Arc Welding of Austenitic Stainless Steel (S-8), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, MIL-3XX-XX, in the As-Welded Condition, Primarily Pipe for Naval Applications (new standard)

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

Single copy price: \$128.00

Obtain an electronic copy from: jrosario@aws.org

Order from: Jennifer Rosario, (800) 443-9353, jrosario@aws.org

Send comments (with copy to psa@ansi.org) to: Andrew Davis, (305) 443-9353, x466, adavis@aws.org

CPLSO

New Standard

BSR/CPLSO-17-201x, Electrical Characteristics of ECDs and CEWs (new standard)

This standard is applicable for high-voltage Electronic Control Devices, (ECD), or Conductive Electrical Weapons, (CEW). This standard specifies the characteristic electrical requirements for effective and safe performance.

Single copy price: \$1000.00

Obtain an electronic copy from: www.cplso.org

Order from: CPLSO

Send comments (with copy to psa@ansi.org) to: pratt.hugh@cplso.org

CSA (CSA Group)**Revision**

BSR Z21.74-201x, Portable Refrigerators (revision of ANSI Z21.74-2014)

This standard covers gas-fired refrigerators, having refrigerated spaces for storage of foods with input ratings of 1000 Btu per hour (293 W) or less, and which are for use with propane gas, butane gas, or propane-butane gas mixtures. These refrigerators are intended for use both indoors in adequately ventilated structures and outdoors. This standard applies to refrigerators designed for self contained fuel supplies and using fuel cylinders of not more than 75 cubic inches (1230 cm³) (2-1/2 pounds nominal water capacity). Fuel supplies shall be in accordance with the Standard for the Storage and Handling of Liquefied Petroleum Gases, ANSI/NFPA No. 58.

Single copy price: Free

Obtain an electronic copy from: cathy.rake@csagroup.org

Order from: Cathy Rake, (216) 524-4990 x88321, cathy.rake@csagroup.org

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

CSA (CSA Group)**Revision**

BSR Z83.19-201x, Standard for Gas-Fired High Intensity Infrared Heaters (same as CSA 2.35) (revision of ANSI Z83.19-2009 (R2014))

Details test and examination criteria for gas-fired high-intensity infrared heaters for use with natural, manufactured, mixed, and liquefied petroleum (propane) gases and may be convertible for use with natural and LP-gases. Applies to heaters for installation in and heating of outdoor spaces or nonresidential indoor spaces where flammable gases or vapors are not generally present.

Single copy price: Free

Obtain an electronic copy from: cathy.rake@csagroup.org

Order from: Cathy Rake, (216) 524-4990 x88321, cathy.rake@csagroup.org

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

CTA (Consumer Technology Association)**New Standard**

BSR/CTA 2060-201x, Interoperability Standards Series for Consumer EEG Data - File Storage (new standard)

The purpose of this standard is to adopt a file format for storing several data streams in a single, self-describing, file, with each stream potentially sampled at a different rate, or having a different type (e.g., real numbers and strings). It will allow this data to be provided in an efficient and temporally accurate manner to analysis and visualization applications.

Single copy price: \$81.00

Obtain an electronic copy from: standards@cta.tech

Order from: Veronica Lancaster, (703) 907-7697, vlancaster@cta.tech

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

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

BSR E1.31-201x, Entertainment Technology - Lightweight streaming protocol for transport of DMX512 using ACN (revision of ANSI E1.31-2016) E1.31 provides a very simple protocol that offers functionality comparable to proprietary DMX512 over Ethernet protocols while being compatible with the E1.17 suite of protocols. The standard is being revised, limited to the addition of IPv6 compatibility and the correction of errors. Input on additional features is not being sought at this time.

Single copy price: Free

Obtain an electronic copy from: http://tsp.esta.org/tsp/documents/public_review_docs.php

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

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

MSS (Manufacturers Standardization Society)**New Standard**

BSR/MSS SP-122-201x, Plastic Industrial Ball Valves (new standard)

This Standard Practice establishes requirements for plastic industrial ball valves in nominal pipe sizes (NPS) 1/2 through 6, designed for general industrial systems for the distribution of pressurized liquids that are chemically compatible with the piping material. It reflects the industry practice for the design, manufacture, and application of these valves. This SP-122 applies to valves having the ball seal against two self-lubricating seats of the following types: (a) True-Union Ball Valves, (b) Single Union Ball Valves, and (c) Non-Union Ball Valves.

Single copy price: \$73.00

Obtain an electronic copy from: standards@msshq.org

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

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

NEMA (ASC C18) (National Electrical Manufacturers Association)**Revision**

BSR C18.4M-201x, Standard for Portable Cells and Batteries - Environmental (revision of ANSI C18.4M-2015)

- Raise awareness that provisions in battery standards can affect the environment in negative and positive ways;
- Outline the relationship between battery standards and the environment;
- Help avoid provisions in battery standards that may lead to adverse environmental effects;
- Emphasize that addressing environmental aspects in battery standards is a complex process which requires a balance in competing priorities; and
- Recommend the use of recognized scientific methodologies when developing battery standards that incorporate environmental aspects.

Single copy price: \$88.00

Obtain an electronic copy from: Communications@nema.org

Order from: <http://www.nema.org/Standards/About-Standards/Pages/How-to-Purchase-a-NEMA-Standard.aspx>

Send comments (with copy to psa@ansi.org) to: khaled.masri@nema.org

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

BSR NEMA ICEA S-93-639/WC 74-201x, 5-46 kV Shielded Power Cable for Use in the Transmission and Distribution of Electric Energy (revision of ANSI NEMA ICEA S-93-639/WC 74-2012)

This standard applies to materials, constructions, and testing of 5,000-volt to 46,000-volt shielded crosslinked polyethylene, and ethylene propylene rubber insulated wires and cables that are used for the transmission and distribution of electrical energy for normal conditions of installation and service, either indoors, outdoors, aerial, underground, or submarine.

Single copy price: \$242.00

Obtain an electronic copy from: Communications@nema.org

Order from: Communications@nema.org

Send comments (with copy to psa@ansi.org) to: khaled.masri@nema.org

NISO (National Information Standards Organization)**New Standard**

BSR/NISO Z39.102-201X, STS: Standard Tag Suite (new standard)

The Standards Tag Suite (STS) provides a common XML format that developers, publishers, and distributors of standards, including national standards bodies, regional and international standards bodies, and standards development organizations, can use to publish and exchange full-text content and metadata of standards. STS is based on ANSI/NISO Z39.96 (JATS). Structures are provided to encode both the normative and non-normative content of: standards, adoptions of standards, and standards-like documents that are produced by standards organizations.

Single copy price: \$45.00

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

Order from: <http://www.niso.org/contact/>

Send comments (with copy to psa@ansi.org) to: nisohq@niso.org

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

BSR/SCTE 240-201x, SCTE Test Procedures for Testing CWDM Systems in Cable Telecommunications Access Networks (new standard)

This document describes procedures to support the measurement and characterization of the system optical (loss) performance through the passive points and segments of a Coarse Wavelength Division Multiplexing (CWDM)-based Multi-point Optical Access Network (CWDM-MOAN) fiber cable plant. The procedures contained in this standard are designed to be used in conjunction with the relevant industry test procedures for testing outside plant optical systems.

Single copy price: \$50.00

Obtain an electronic copy from: standards@scte.org

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

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

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

BSR/SCTE 23-2-201x, DOCSIS 1.1 Part 2: Baseline Privacy Plus Interface (revision of ANSI/SCTE 23-2-2012)

The intent of this BPI+ specification is to describe MAC layer security services for DOCSIS® CMTS CM communications. BPI+ security goals are twofold: Provide cable modem users with data privacy across the cable network and provide MSOs with service protection; i.e., prevent unauthorized users from gaining access to the network's RF MAC services.

Single copy price: \$50.00

Obtain an electronic copy from: standards@scte.org

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

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

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

BSR/SCTE 45-201x, Test Method for Group Delay (revision of ANSI/SCTE 45-2012)

The purpose of this test is to measure the group delay and group delay variation of a properly terminated device. This procedure is applicable to testing of 75 Ω components.

Single copy price: \$50.00

Obtain an electronic copy from: standards@scte.org

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

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

TIA (Telecommunications Industry Association)**Addenda**

BSR/TIA 102.AABC-D-2-201x, Trunking Control Channel Messages - Addendum 2: Vehicle Sensed Emergency (addenda to ANSI/TIA 102.AABC-D-1-2016)

This addendum enhances trunking control channel messages as follows: (1) Specification of a "Vehicle Sensed Emergency" (VSE) bit in the "Special Information" field of the EMRG_ALARM_REQ message to convey additional information regarding a specific emergency alarm scenario request.

Single copy price: \$61.00

Obtain an electronic copy from: standards@tiaonline.org

Order from: TIA; standards@tiaonline.org

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

TIA (Telecommunications Industry Association)**New Standard**

BSR/TIA 455-95-B-201x, Absolute Optical Power Test for Optical Fibers and Cables (new standard)

Method for determining the total optical power emanating from an optical fiber.

Single copy price: \$67.00

Obtain an electronic copy from: standards@tiaonline.org

Order from: TIA; standards@tiaonline.org

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

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

BSR/UL 60079-0-2009 (R201x), Standard for Safety for Explosive Atmospheres - Part 0: Equipment - General Requirements (Proposal dated 08-18-17) (reaffirmation of ANSI/UL 60079-0-2009)

(1) Reaffirmation and continuance of the sixth edition of the Standard for Explosive Atmospheres - Part 0: Equipment - General Requirements, UL 60079-0, as an American National Standard.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

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

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

BSR/UL 430-201x, Standard for Safety for Waste Disposers (Proposal dated 08-18-2017) (revision of ANSI/UL 430-2015)

The following are changes in requirements to UL 430. They are: (1) Alternate method for evaluating protective electronic circuits and controls using requirements based on the Standard for Safety of Household and Similar Electrical Appliances, Part 1: General Requirements, UL 60335-1; (2) Proposed addition of requirements for waste disposers with wireless control; (3) Proposed addition of requirements for battery-operated waste disposers.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to psa@ansi.org) to: Wilbert Fletcher, (919) 549-1337, Wilbert.Fletcher@ul.com

Comment Deadline: October 17, 2017

Reaffirmations and withdrawals available electronically may be accessed at: webstore.ansi.org

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

BSR/AAMI EQ56-2013 (R201x), Recommended practice for a medical equipment management program (reaffirmation of ANSI/AAMI EQ56-2013)

This AAMI Recommended Practice specifies required characteristics for a management program designed to minimize certain risks associated with equipment that is used in a health care organization during routine care of patients. The document addresses the structure of such a program, the documentation that must be produced by the program, program staffing, and resources that should be allocated to those responsible for maintaining medical equipment. Definitions of terms and normative references are also included, as are notes and rationale that expand the provisions of the document.

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

BSR/ASME A112.6.2-201x, Carriers (Framing-Affixed Supports) for Off-The-Floor Plumbing Fixtures (revision of ANSI/ASME A112.6.2-200x (R2010))

This Standard covers framing-affixed supports (i.e., carriers), with or without concealed tanks, including combination carriers and fittings, for off-the-floor plumbing fixtures (i.e., water closets urinals, bidets, lavatories, and sinks).

Single copy price: Free

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

Order from: Mayra Santiago, ASME; ansibox@asme.org

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

ITI (INCITS) (InterNational Committee for Information Technology Standards)**New National Adoption**

INCITS/ISO/IEC 9075-1:2016 [201x], Information technology - Database languages - SQL - Part 1: Framework (SQL/Framework) (identical national adoption of ISO/IEC 9075-1:2016 and revision of INCITS/ISO/IEC 9075-1:2011 [2012])

Describes the conceptual framework used in other parts of ISO/IEC 9075 to specify the grammar of SQL and the result of processing statements in that language by an SQL-implementation.

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ITI (INCITS) (InterNational Committee for Information Technology Standards)**New National Adoption**

INCITS/ISO/IEC 9075-2:2016 [201x], Information technology - Database languages - SQL - Part 2: Foundation (SQL/Foundation) (identical national adoption of ISO/IEC 9075-2:2016 and revision of INCITS/ISO/IEC 9075-2:2011 [2012])

Defines the data structures and basic operations on SQL-data. It provides functional capabilities for creating, accessing, maintaining, controlling, and protecting SQL-data.

Single copy price: \$232.00

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

New National Adoption

INCITS/ISO/IEC 9075-4:2016 [201x], Information technology - Database languages - SQL - Part 4: Persistent stored modules (SQL/PSM) (identical national adoption of ISO/IEC 9075-4:2016] and revision of INCITS/ISO/IEC 9075-4:2011 [2012])

Specifies the syntax and semantics of a database language for declaring and maintaining persistent database language routines in SQL-server modules. The database language for <externally-invoked procedure>s and <SQL-invoked routine>s includes: the specification of statements to direct the flow of control, the assignment of the result of expressions to variables and parameters. The specification of condition handlers that allow SQL-invoked routines to deal with various conditions that arise during their execution.

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

New National Adoption

INCITS/ISO/IEC 9075-9:2016 [201x], Information technology - Database languages - SQL - Part 9: Management of External Data (SQL/MED) (identical national adoption of ISO/IEC 9075-9:2016 and revision of INCITS/ISO/IEC 9075-9:2008 [R2013])

Defines extensions to Database Language SQL to support management of external data through the use of foreign-data wrappers and datalink types.

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

New National Adoption

INCITS/ISO/IEC 9075-10:2016 [201x], Information technology - Database languages - SQL - Part 10: Object language bindings (SQL/OLB) (identical national adoption of ISO/IEC 9075-10:2016 and revision of INCITS/ISO/IEC 9075-10:2008 [R2013])

Specifies embedded SQL for the programming languages: Ada, C, COBOL, Fortran, MUMPS, Pascal, and PL/I. ISO/IEC 9075-10:2016 defines similar features of Database language SQL that support embedding of SQL-statements into programs written in the Java™ programming language (Java is a registered trademark of Sun Microsystems, Inc.). The embedding of SQL into Java is commonly known as "SQLJ". This part of ISO/IEC 9075 specifies the syntax and semantics of SQLJ, as well as mechanisms to ensure binary portability of resulting SQLJ applications. In addition, it specifies a number of Java packages and their contained classes (including methods).

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

New National Adoption

INCITS/ISO/IEC 9075-11:2016 [201x], Information technology - Database languages - SQL - Part 11: Information and definition schemas (SQL/Schemata) (identical national adoption of ISO/IEC 9075-11:2016 and revision of INCITS/ISO/IEC 9075-11:2011 [2012])

Specifies an Information Schema and a Definition Schema that describes the structure and integrity constraints of SQL-data, the security and authorization specifications relating to SQL-data, the features and subfeatures of ISO/IEC 9075, and the support that each of these has in an SQL-implementation, the SQL-implementation information and sizing items of ISO/IEC 9075 and the values supported by an SQL-implementation

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

New National Adoption

INCITS/ISO/IEC 9075-13:2016 [201x], Information technology - Database languages - SQL - Part 13: SQL Routines and types using the Java™ programming language (SQL/JRT) (identical national adoption of ISO/IEC 9075-13:2016 and revision of INCITS/ISO/IEC 9075-13:2008 [R2013])

Specifies the ability to invoke static methods written in the Java™ programming language as SQL-invoked routines and to use classes defined in the Java programming language as SQL structured user-defined types. (Java is a registered trademark of Oracle Corporation and/or its affiliates.)

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

New National Adoption

INCITS/ISO/IEC 9075-14:2016 [201x], Information technology - Database languages - SQL - Part 14: XML-Related Specifications (SQL/XML) (identical national adoption of ISO/IEC 9075-14:2016 and revision of INCITS/ISO 9075-14:2011 [2012] and

INCITS/ISO/IEC 9075-14:2011/Cor 1:2013[2014])

Defines ways in which Database Language SQL can be used in conjunction with XML.

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

New National Adoption

INCITS/ISO/IEC 10373-5:2014 [201x], Identification cards - Test methods - Part 5: Optical memory cards (identical national adoption of ISO/IEC 10373-5:2014 and revision of INCITS/ISO/IEC 10373-5:2006 [R2012])

Defines test methods for characteristics of identification cards according to the definition given in ISO/IEC 7810. Each test method is cross-referenced to one or more base standards, which can be ISO/IEC 7810 or one or more of the supplementary standards that define the information storage technologies employed in identification cards applications.

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

New National Adoption

INCITS/ISO/IEC 13249-1:2016 [201x], Information technology - Database languages - SQL multimedia and application packages - Part 1: Framework (identical national adoption of ISO/IEC 13249-1:2016 and revision of INCITS/ISO/IEC 13249-1:2007 [R2012])

Defines a number of packages of generic data types and table structures common to various kinds of data used in multimedia and application areas, to enable that data to be stored and manipulated in an SQL database. The package in each subject area is defined as a part of ISO/IEC 13249. This part defines those concepts, notations and conventions that are common to two or more other parts of ISO/IEC 13249. In particular, it describes the way parts of ISO/IEC 9075 are used to define the user-defined types and their behavior and views as a representation of table structures appropriate to each subject area.

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

New National Adoption

INCITS/ISO/IEC 13249-3:2016 [201x], Information technology - Database languages - SQL multimedia and application packages - Part 3: Spatial (identical national adoption of ISO/IEC 13249-3:2016 and revision of INCITS/ISO/IEC 13249-3:2011 [2012])

Defines concepts specific to this part of ISO/IEC 13249 and defines spatial user-defined types and their associated routines.

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

New National Adoption

INCITS/ISO/IEC 18033-1:2015 [201x], Information technology - Security techniques - Encryption algorithms - Part 1: General (identical national adoption of ISO/IEC 18033-1:2015 and revision of INCITS/ISO/IEC 18033-1:2005 [R2014])

Provides definitions that apply in subsequent parts of this International Standard. The nature of encryption is introduced, and certain general aspects of its use and properties are described. The criteria used to select the algorithms specified in subsequent parts of this International Standard are defined in Annexes A and B.

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

New National Adoption

INCITS/ISO/IEC 19763-1:2015 [201x], Information technology - Metamodel framework for interoperability (MFI) - Part 1: Framework (identical national adoption of ISO/IEC 19763-1:2015 and revision of INCITS/ISO/IEC 19763-1:2007 [R2012])

Provides an overview of the whole of MFI. In particular, the purpose, the underlying concepts, the overall architecture and the requirements for the development of other standards within the MFI family are described.

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

New National Adoption

INCITS/ISO/IEC 19776-1:2015 [201x], Information technology - Computer graphics, image processing and environmental data representation - Extensible 3D (X3D) encodings - Part 1: Extensible Markup Language (XML) encoding (identical national adoption of ISO/IEC 19776-1:2015 and revision of INCITS/ISO/IEC 19776-1:2009 [2012])

Defines a system that integrates 3D graphics and multimedia. Conceptually, each X3D file is a 3D time-based space that contains graphic and aural objects that can be dynamically modified through a variety of mechanisms. This part of ISO/IEC 19776 defines a mapping of the abstract objects in X3D to a specific X3D encoding using the Extensible Markup Language.

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

New National Adoption

INCITS/ISO/IEC 19776-3:2015 [201x], Information technology - Computer graphics, image processing and environmental data representation - Extensible 3D (X3D) encodings - Part 3: Compressed binary encoding (identical national adoption of ISO/IEC 19776-3:2015 and revision of INCITS/ISO/IEC 19776-3:2011 [2012])

Defines a system that integrates 3D graphics and multimedia. Conceptually, each X3D file is a 3D time-based space that contains graphic and aural objects that can be dynamically modified through a variety of mechanisms. This part of ISO/IEC 19776 defines a mapping of the abstract objects in X3D to a specific X3D encoding written out in a compact binary form.

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

New National Adoption

INCITS/ISO/IEC 27033-1:2015 [201x], Information technology - Security techniques - Network security - Part 1: Overview and concepts (identical national adoption of ISO/IEC 27033-1:2015 and revision of INCITS/ISO/IEC 27033-1:2009 [2012])

Provides an overview of network security and related definitions. It defines and describes the concepts associated with, and provides management guidance on, network security. (Network security applies to the security of devices, security of management activities related to the devices, applications/services, and end-users, in addition to security of the information being transferred across the communication links.)

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

New National Adoption

INCITS/ISO/IEC 10646:2014 [201x], Information technology - Universal Coded Character Set (UCS) (identical national adoption of ISO/IEC 10646:2014 and revision of INCITS/ISO/IEC 10646:2012 [2012])

Specifies the Universal Character Set (UCS). It is applicable to the representation, transmission, interchange, processing, storage, input, and presentation of the written form of the languages of the world as well as additional symbols. It covers 120,585 characters from the world's scripts.

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

New National Adoption

INCITS/ISO/IEC 14651:2016 [201x], Information technology - International string ordering and comparison - Method for comparing character strings and description of the common template tailorable ordering (identical national adoption of ISO/IEC 14651:2016 and revision of INCITS/ISO/IEC 14651:2011 [2012])

Defines the following: A reference comparison method. This method is applicable to two-character strings to determine their collating order in a sorted list. The method can be applied to strings containing characters from the full repertoire of ISO/IEC 10646. This method is also applicable to subsets of that repertoire, such as those of the different ISO/IEC 8-bit standard character sets, or any other character set, standardized or not, to produce ordering results valid (after tailoring) for a given set of languages for each script. This method uses collation tables derived either from the Common Template Table defined in this International Standard or from one of its tailorings. This method provides a reference format. The format is described using the Backus-Naur Form (BNF). This format is used to describe the Common Template Table. The format is used normatively within this International Standard.

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

New National Adoption

INCITS/ISO/IEC 24790:2017 [201x], Information technology - Office equipment - Measurement of image quality attributes for hardcopy output - Monochrome text and graphic images (identical national adoption of ISO/IEC 13660:2001 and revision of INCITS/ISO/IEC 13660:2001 [R2012])

Specifies device-independent image quality attributes, measurement methods, and analytical procedures to describe the quality of output images from hardcopy devices. This document is applicable to human-readable monochrome documents produced from printers and copiers.

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

New National Adoption

INCITS/ISO/IEC 27003:2017 [201x], Information technology - Security techniques - Information security management systems - Guidance (identical national adoption of ISO/IEC 27003:2017 and revision of INCITS/ISO/IEC 27003:2010 [2012])

Provides explanation and guidance on ISO/IEC 27001:2013.

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

New National Adoption

INCITS/ISO/IEC 27006:2015 [201x], Information technology - Security techniques - Requirements for bodies providing audit and certification of information security management systems (identical national adoption of ISO/IEC 27006:2015 and revision of INCITS/ISO/IEC 27006:2011 [2012])

Specifies requirements and provides guidance for bodies providing audit and certification of an information security management system (ISMS), in addition to the requirements contained within ISO/IEC 17021-1 and ISO/IEC 27001. It is primarily intended to support the accreditation of certification bodies providing ISMS certification.

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UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 96-201x, Standard for Safety for Lightning Protection Components (revision of ANSI/UL 96-2016)

(1) Compliance with UL 467 is sufficient to comply with UL 96.

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AAMI (Association for the Advancement of Medical Instrumentation)

AAMI/ISO TR 80002-2-201x, Medical device software - Part 2: Validation of software for medical device quality systems (TECHNICAL REPORT) (technical report)

This document applies to any software used in device design, testing, component acceptance, manufacturing, labeling, packaging, distribution, and complaint handling or to automate any other aspect of a medical device quality system as described in ISO 13485.

This document applies to:

- software used in the quality management system,
- software used in production and service provision, and
- software used for the monitoring and measurement of requirements.

It does not apply to

- software used as a component, part or accessory of a medical device, or
- software that is itself a medical device.

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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.

ASQ (American Society for Quality)

ASQ TR1-2012, Best quality practices for biomedical research in drug development (Technical Report)

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.

CTA (Consumer Technology Association)

Office: 1919 South Eads Street
Arlington, VA 22202

Contact: *Veronica Lancaster*

Phone: (703) 907-7697

Fax: (703) 907-4197

E-mail: vlancaster@cta.tech

BSR/CTA 2060-201x, Interoperability Standards Series for Consumer EEG Data - File Storage (new standard)

ECIA (Electronic Components Industry Association)

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

Contact: *Laura Donohoe*

Phone: (571) 323-0294

Fax: (571) 323-0245

E-mail: ldonohoe@ecianow.org

BSR/EIA 261-C-201x, Rectangular Waveguides (WR2 to WR2300) (new standard)

IES (Illuminating Engineering Society)

Office: 120 Wall St. 17th Floor
New York, NY 10005

Contact: *Patricia McGillicuddy*

Phone: (212) 248-5000

E-mail: pmcgillicuddy@ies.org

BSR/IES RP-27-201x, Recommended Practice for Photobiological Safety for Lamps (revision, redesignation and consolidation of ANSI/IESNA RP-27.1-2015, ANSI/IESNA RP-27.2-2000 (R2010), and ANSI/IES RP-27.3-2017)

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

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

Contact: *INCITS Secretariat*

Phone: (202) 737-8888

E-mail: comments@standards.incits.org

INCITS/ISO/IEC 9075-1:2016 [201x], Information technology - Database languages - SQL - Part 1: Framework (SQL/Framework) (identical national adoption of ISO/IEC 9075-1:2016 and revision of INCITS/ISO/IEC 9075-1:2011 [2012])

INCITS/ISO/IEC 9075-2:2016 [201x], Information technology - Database languages - SQL - Part 2: Foundation (SQL/Foundation) (identical national adoption of ISO/IEC 9075-2:2016 and revision of INCITS/ISO/IEC 9075-2:2011 [2012])

INCITS/ISO/IEC 9075-4:2016 [201x], Information technology - Database languages - SQL - Part 4: Persistent stored modules (SQL/PSM) (identical national adoption of ISO/IEC 9075-4:2016 and revision of INCITS/ISO/IEC 9075-4:2011 [2012])

INCITS/ISO/IEC 9075-9:2016 [201x], Information technology - Database languages - SQL - Part 9: Management of External Data (SQL/MED) (identical national adoption of ISO/IEC 9075-9:2016 and revision of INCITS/ISO/IEC 9075-9:2008 [R2013])

INCITS/ISO/IEC 9075-10:2016 [201x], Information technology - Database languages - SQL - Part 10: Object language bindings (SQL/OLB) (identical national adoption of ISO/IEC 9075-10:2016 and revision of INCITS/ISO/IEC 9075-10:2008 [R2013])

INCITS/ISO/IEC 9075-11:2016 [201x], Information technology - Database languages - SQL - Part 11: Information and definition schemas (SQL/Schemata) (identical national adoption of ISO/IEC 9075-11:2016 and revision of INCITS/ISO/IEC 9075-11:2011 [2012])

INCITS/ISO/IEC 9075-13:2016 [201x], Information technology - Database languages - SQL - Part 13: SQL Routines and types using the Java TM programming language (SQL/JRT) (identical national adoption of ISO/IEC 9075-13:2016 and revision of INCITS/ISO/IEC 9075-13:2008 [R2013])

INCITS/ISO/IEC 9075-14:2016 [201x], Information technology - Database languages - SQL - Part 14: XML-Related Specifications (SQL/XML) (identical national adoption of ISO/IEC 9075-14:2016 and revision of INCITS/ISO 9075-14:2011 [2012], and INCITS/ISO/IEC 9075-14:2011/Cor 1:2013[2014])

INCITS/ISO/IEC 10373-5:2014 [201x], Identification cards - Test methods - Part 5: Optical memory cards (identical national adoption of ISO/IEC 10373-5:2014 and revision of INCITS/ISO/IEC 10373-5:2006 [R2012])

INCITS/ISO/IEC 13249-1:2016 [201x], Information technology - Database languages - SQL multimedia and application packages - Part 1: Framework (identical national adoption of ISO/IEC 13249-1:2016 and revision of INCITS/ISO/IEC 13249-1:2007 [R2012])

INCITS/ISO/IEC 13249-3:2016 [201x], Information technology - Database languages - SQL multimedia and application packages - Part 3: Spatial (identical national adoption of ISO/IEC 13249-3:2016 and revision of INCITS/ISO/IEC 13249-3:2011 [2012])

INCITS/ISO/IEC 18033-1:2015 [201x], Information technology - Security techniques - Encryption algorithms - Part 1: General (identical national adoption of ISO/IEC 18033-1:2015 and revision of INCITS/ISO/IEC 18033-1:2005 [R2014])

INCITS/ISO/IEC 19763-1:2015 [201x], Information technology - Metamodel framework for interoperability (MFI) - Part 1: Framework (identical national adoption of ISO/IEC 19763-1:2015 and revision of INCITS/ISO/IEC 19763-1:2007 [R2012])

INCITS/ISO/IEC 19776-1:2015 [201x], Information technology - Computer graphics, image processing and environmental data representation - Extensible 3D (X3D) encodings - Part 1: Extensible Markup Language (XML) encoding (identical national adoption of ISO/IEC 19776-1:2015 and revision of INCITS/ISO/IEC 19776-1:2009 [2012])

INCITS/ISO/IEC 19776-3:2015 [201x], Information technology - Computer graphics, image processing and environmental data representation - Extensible 3D (X3D) encodings - Part 3: Compressed binary encoding (identical national adoption of ISO/IEC 19776-3:2015 and revision of INCITS/ISO/IEC 19776-3:2011 [2012])

INCITS/ISO/IEC 27033-1:2015 [201x], Information technology - Security techniques - Network security - Part 1: Overview and concepts (identical national adoption of ISO/IEC 27033-1:2015 and revision of INCITS/ISO/IEC 27033-1:2009 [2012])

INCITS/ISO/IEC 10646:2014 [201x], Information technology - Universal Coded Character Set (UCS) (identical national adoption of ISO/IEC 10646:2014 and revision of INCITS/ISO/IEC 10646:2012 [2012])

INCITS/ISO/IEC 14651:2016 [201x], Information technology - International string ordering and comparison - Method for comparing character strings and description of the common template tailorable ordering (identical national adoption of ISO/IEC 14651:2016 and revision of INCITS/ISO/IEC 14651:2011 [2012])

INCITS/ISO/IEC 24790:2017 [201x], Information technology - Office equipment - Measurement of image quality attributes for hardcopy output - Monochrome text and graphic images (identical national adoption of ISO/IEC 13660:2001 and revision of INCITS/ISO/IEC 13660:2001 [R2012])

INCITS/ISO/IEC 27003:2017 [201x], Information technology - Security techniques - Information security management systems - Guidance (identical national adoption of ISO/IEC 27003:2017 and revision of INCITS/ISO/IEC 27003:2010 [2012])

INCITS/ISO/IEC 27006:2015 [201x], Information technology - Security techniques - Requirements for bodies providing audit and certification of information security management systems (identical national adoption of ISO/IEC 27006:2015 and revision of INCITS/ISO/IEC 27006:2011 [2012])

NEMA (ASC C8) (National Electrical Manufacturers Association)

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E-mail: khaled.masri@nema.org

BSR NEMA ICEA S-93-639/WC 74-201x, 5-46 kV Shielded Power Cable for Use in the Transmission and Distribution of Electric Energy (revision of ANSI NEMA ICEA S-93-639/WC 74-2012)

NISO (National Information Standards Organization)

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Phone: (301) 654-2512

Fax: (410) 685-5278

E-mail: nlagace@niso.org

BSR/NISO Z39.102-201X, STS: Standard Tag Suite (new standard)

TIA (Telecommunications Industry Association)

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

Contact: *Teesha Jenkins*

Phone: (703) 907-7706

Fax: (703) 907-7727

E-mail: standards@tiaonline.org

BSR/TIA 102.AABC-D-2-201x, Trunking Control Channel Messages - Addendum 2: Vehicle Sensed Emergency (addenda to ANSI/TIA 102.AABC-D-1-2016)

BSR/TIA 455-95-B-201x, Absolute Optical Power Test for Optical Fibers and Cables (new standard)

BSR/TIA 470.230-D-201x, Telecommunications - Telephone Terminal Equipment - Network Signaling Performance Requirements (revision and redesignation of ANSI/TIA 470.230-C-2005 (R2012))

BSR/TIA 4957.000-B-201x, Architecture Overview - Extension on Field Area Networks (revision and redesignation of ANSI/TIA 4957.000-A-2017)

BSR/TIA 4957.100-B-201x, Physical Layer Specification - Extension on Field Area Networks (revision and redesignation of ANSI/TIA 4957.100-A-2017)

BSR/TIA 4957.200-B-201x, Data Link Layer Specification - Extension on Field Area Networks (revision and redesignation of ANSI/TIA 4957.200-A-2017)

BSR/TIA 4957.210-B-201x, Multi-hop Sublayer Specification - Extension on Field Area Networks (revision and redesignation of ANSI/TIA 4957.210-A-2017)

BSR/TIA 4957.300-B-201x, Network Layer Specification - Extension on Field Area Networks (revision and redesignation of ANSI/TIA 4957.300-A-2017)

BSR/TIA 4957.400-B-201x, Transport Layer Specification - Extension on Field Area Networks (revision and redesignation of ANSI/TIA 4957.400-A-2017)

BSR/TIA 4957.500-A-201x, Security Specification - Extension on Field Area Networks (revision and redesignation of ANSI/TIA 4957.500-2017)

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 57.4-201x, FPGA Mezzanine Card Plus (FMC+) Standard (new standard)

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.

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.

ESTA (Entertainment Services and Technology Association)

New Standard

ANSI E1.50-1-2017, Entertainment Technology - Requirements for the Structural Support of Temporary LED, Video & Display Systems (new standard): 8/14/2017

NEMA (ASC C8) (National Electrical Manufacturers Association)

Revision

ANSI/ICEA S-75-381-2017/NEMA WC 58-2017, Portable and Power Feeder Cables for Use in Mines and Similar Applications (revision and redesignation of ANSI ICEA S-75-381-2008/NEMA WC 58-2008): 8/15/2017

NSF (NSF International)

New Standard

* ANSI/NSF 426-2017, Environmental Leadership and Corporate Social Responsibility Assessment of Servers (new standard): 8/7/2017

UL (Underwriters Laboratories, Inc.)

New National Adoption

ANSI/UL 60947-5-5-2017, Standard for Safety for Low-voltage switchgear and controlgear - Part 5-5: Control circuit devices and switching elements - Electrical emergency stop device with mechanical latching function (identical national adoption of IEC 60947-5-5): 8/11/2017

Project Initiation Notification System (PINS)

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

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

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

APA (APA - The Engineered Wood Association)

Office: 7011 South 19th Street
Tacoma, WA 98466

Contact: *Borjen Yeh*

Fax: (253) 565-7265

E-mail: borjen.yeh@apawood.org

- * BSR/APA PRS 610.1-201x, Standard for Performance-Rated Structural Insulated Panels in Wall Applications (revision of ANSI/APA PRS 610.1-2013)

Stakeholders: Structural insulated panel manufacturers and component suppliers, distributors, designers, users, building code regulators, and government agencies.

Project Need: Regular standard update and revision.

This standard provides requirements and test methods for qualification and quality assurance for performance-rated structural insulated panels (SIPs), which are manufactured with a foam plastic insulation core bonded between two wood structural panel facings intended for use in wall and roof applications.

ASTM (ASTM International)

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

Contact: *Corice Leonard*

Fax: (610) 834-3683

E-mail: accreditation@astm.org

- BSR/ASTM WK60062-201x, New Standard Specification for Polyethylene of Raised Temperature/Aluminum/Polyethylene of Raised Temperature (PERT-AL-PERT) Composite Pressure Pipe (new standard)

Stakeholders: Composite industry.

Project Need: This specification covers a coextruded polyethylene of raised-temperature composite pressure pipe with a welded aluminum tube reinforcement between the inner and outer layers. The inner and outer polyethylene of raised temperature are bonded to the aluminum tube by a melt adhesive.

<https://www.astm.org/DATABASE.CART/WORKITEMS/WK60062.htm>

AWS (American Welding Society)

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

Contact: *Stephen Borrero*

Fax: (305) 443-5951

E-mail: sborrero@aws.org

- BSR/AWS G2.1M/G2.1-201x, Guide for the Joining of Wrought Nickel-Based Alloys (revision of ANSI/AWS G2.1M/G2.1-2012)

Stakeholders: Any fabricator who works with nickel-based alloys.

Project Need: To guide fabricators of nickel-based components on welding practices by incorporating minor corrections and editorial changes to previous edition.

This document describes the welding of different wrought nickel-based alloys, including solid solution and precipitation hardening alloys.

- BSR/AWS G2.4/G2.4M-201x, Guide for the Fusion Welding of Titanium and Titanium Alloys (revision of ANSI/AWS G2.4/G2.4M-2014)

Stakeholders: Equipment fabricators world-wide, engineering companies, maintenance welders, chemical companies who use titanium equipment, repair welders, etc.

Project Need: This document is needed to provide continued proper procedures and instructions for those companies fabricating and using titanium equipment world-wide.

The standard Guide for the Fusion Welding of Titanium and Titanium Alloys provides instructional guidance for the welding of titanium and titanium alloys. This guide explains processes, equipment, materials, workshop practices, joint preparation, welding technique, tests, and the repair of defects.

HL7 (Health Level Seven)

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

Contact: Karen Van Hentenryck

Fax: (734) 677-6622

E-mail: Karenvan@HL7.org

BSR/HL7 V3 PASS SECURITY LABELSRV, R2-201x, HL7 Version 3 Standard: Privacy, Access and Security Services; Security Labeling Service, Release 2 (revision of ANSI/HL7 V3 PASS SECURITY LABELSRV, R1-2014)

Stakeholders: Regulatory agencies.

Project Need: To clarify existing requirements and models which facilitates implementation and supports the original need.

This project specifies interoperable Security Labeling functional capabilities that are exposed through well-defined, technology agnostic service interfaces. This version refines and updates the standard based on lessons learned from implementations.

HPS (ASC N13) (Health Physics Society)

Office: 1313 Dolley Madison Blvd #402
McLean, VA 22101

Contact: Nancy Johnson

Fax: (703) 790-2672

E-mail: njohnson@burkinc.com

BSR N13.50-201x, Radiological Characterization of Low-Level Radioactive and Transuramic Wastes (new standard)

Stakeholders: Persons responsible for developing and implementing radiological characterization programs. Industries that are expected to use this standard include commercial nuclear power plants, Department of Energy, National Laboratories, environmental remediation projects, and industries requiring radionuclide characterization.

Project Need: Radiological characterization is the process of identifying and quantifying radionuclides of interest found in solid, liquid, or gaseous matrices. Although characterization guidance has been published for assessing building surface and soil final status surveys, conditions to acquire a representative sample generated from a process stream or nuclear plant radioactive waste system can vary significantly and require alternate guidance.

The scope of this standard addresses:

- Developing a radioactive waste characterization strategy using Data Quality Objectives, Quality Assurance Objectives, and Measurement Quality Objectives;
- Waste stream identification and sampling;
- Characterization methods;
- Scaling factors for difficult-to-measure radionuclides;
- Verification and validation of results;
- Evaluating uncertainties and interferences;
- Reporting and transmitting results;
- Organizational and administrative requirements; and
- Selection and use of an offsite laboratory.

NETA (InterNational Electrical Testing Association)

Office: 3050 Old Centre
Suite 101
Portage, MI 49024

Contact: Kristen Wicks

Fax: (269) 488-3683

E-mail: kwicks@netaworld.org

BSR/NETA ETT-201x, NETA Standard for Certification of Electrical Testing Technicians (revision of ANSI/NETA ETT-2015)

Stakeholders: Electrical testing technicians; electrical testing firms; Federal, state, and municipal electrical inspectors

Project Need: Update standard to reflect current industry information.

Establishes minimum requirements for qualification and certification of the electrical testing technician. Also details the minimum training and experience requirements for electrical testing technicians and provides criteria for documenting qualifications and certification. Also outlines the minimum qualifications for an independent and impartial certifying body to certify electrical testing technicians.

NSF (NSF International)

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

Contact: Lauren Panoff

E-mail: lpanoff@nsf.org

BSR/NSF 358-4-201x, Polyethylene of Raised Temperature (PE-RT) Pipe and Fittings for Water-Based Ground-Source (Geothermal) Heat Pump Systems (new standard)

Stakeholders: Engineers, designers, installers, geo-exchange trade associations, building officials, and manufacturers.

Project Need: There is an industry need as there are currently no standards covering this.

The physical and performance requirements in this Standard apply to plastic piping system components as well as non-plastic components of the ground loop heat exchanger including but not limited to Polyethylene of Raised Temperature (PE-RT) pipes and fittings used in water-based ground-source heat pump systems.

SCTE (Society of Cable Telecommunications Engineers)

Office: 140 Philips Rd
Exton, PA 19341

Contact: Kim Cooney

Fax: (800) 542-5040

E-mail: kcooney@scte.org

BSR/SCTE 185-201x, Test Method for Cantilever Force, Female "F" Port (revision of ANSI/SCTE 185-2012)

Stakeholders: Cable Telecommunications industry.

Project Need: Update to current technology.

This test procedure is used to evaluate the mechanical strength of female "F" ports on passive or active devices when a cantilever force is applied to the port.

TIA (Telecommunications Industry Association)

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

Contact: Teesha Jenkins

Fax: (703) 907-7727

E-mail: standards@tiaonline.org

BSR/TIA 4957.000-B-201x, Architecture Overview - Extension on Field Area Networks (revision and redesignation of ANSI/TIA 4957.000-A-2017)

Stakeholders: Smart grid, smart metering, smart building industries.
Project Need: Update standard.

This revision would specify technical updates required as part of the Field Area Network (FAN) applications.

BSR/TIA 4957.100-B-201x, Physical Layer Specification - Extension on Field Area Networks (revision and redesignation of ANSI/TIA 4957.100-A-2017)

Stakeholders: Smart grid, smart metering, smart building industries.
Project Need: Update standard.

This revision would specify technical updates required as part of the Field Area Network (FAN) applications.

BSR/TIA 4957.200-B-201x, Data Link Layer Specification - Extension on Field Area Networks (revision and redesignation of ANSI/TIA 4957.200-A-2017)

Stakeholders: Smart grid, smart metering, smart building industries.
Project Need: Update standard.

This revision would specify technical updates required as part of the Field Area Network (FAN) applications.

BSR/TIA 4957.210-B-201x, Multi-hop Sublayer Specification - Extension on Field Area Networks (revision and redesignation of ANSI/TIA 4957.210-A-2017)

Stakeholders: Smart grid, smart metering, smart building industries.
Project Need: Update standard.

This revision of the 4957 document would specify technical updates required as part of the Field Area Network (FAN) applications.

BSR/TIA 4957.300-B-201x, Network Layer Specification - Extension on Field Area Networks (revision and redesignation of ANSI/TIA 4957.300-A-2017)

Stakeholders: Smart grid, smart metering, smart building industries.
Project Need: Update standard.

This revision would specify technical updates required as part of the Field Area Network (FAN) applications.

BSR/TIA 4957.400-B-201x, Transport Layer Specification - Extension on Field Area Networks (revision and redesignation of ANSI/TIA 4957.400-A-2017)

Stakeholders: Smart grid, smart metering, smart building industries.
Project Need: Update standard.

This revision would specify technical updates required as part of the Field Area Network (FAN) applications.

BSR/TIA 4957.500-A-201x, Security Specification - Extension on Field Area Networks (revision and redesignation of ANSI/TIA 4957.500-2017)

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

Project Need: Update standard.

This revision would specify technical updates required as part of the Field Area Network (FAN) applications

UL (Underwriters Laboratories, Inc.)

Office: 12 Laboratory Dr.
Research Triangle Park, NC 27709

Contact: Jonette Herman

Fax: (919) 549-1479

E-mail: Jonette.A.Herman@ul.com

- * BSR/UL 60335-2-29-201x, Standard for Safety for Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers (national adoption with modifications of IEC 60335-2-29, Standard for Safety for Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers)

Stakeholders: Manufacturers of battery chargers, end-product manufacturers of products that use battery chargers, supply chain or retail stores, consumers.

Project Need: To obtain national recognition of a standard, based on IEC requirements, covering electric battery chargers for household and similar use.

UL 60335-2-29 covers electric battery chargers for household and similar use having an output not exceeding 120 V ripple-free direct current with rated voltage not more than 250 V. This standard covers (1) battery chargers intended for charging batteries in a household end use application; (2) battery chargers for use by children at least 8 years old without supervision; and (3) battery chargers not intended for normal household use, but which may be a source of danger to the public, such as battery chargers intended for use in garages, shops, light industry, and on farms.

- * BSR/UL 62040-1-201x, Standard for Safety for Uninterruptible power systems (UPS) - Part 1: Safety requirements (national adoption with modifications of IEC 62040-1, Uninterruptible power systems (UPS) - Part 1: Safety requirements)

Stakeholders: Manufacturers of uninterruptible power systems (UPS), supply chain or retail stores, consumers, users of UPS equipment.

Project Need: To obtain national recognition of a standard, based on IEC requirements, covering uninterruptible power systems (UPS).

UL 62040-1 covers movable, stationary, fixed or built-in UPS for use in low-voltage distribution systems that are intended to be installed in an area accessible by an ordinary person or in a restricted access area, and that delivers fixed-frequency AC output voltage with port voltages not exceeding 1,000 V AC or 1,500 V DC and that includes an energy storage device. It applies to pluggable and to permanently connected UPS, whether consisting of a system of interconnected units or of independent units, subject to installing, operating, and maintaining the UPS in the manner prescribed by the manufacturer.

BSR/UL 62477-1-201X, Safety requirements for power electronic converter systems and equipment - Part 1: General (national adoption with modifications of IEC 62477-1, Safety requirements for power electronic converter systems and equipment - Part 1: General)

Stakeholders: Manufacturers of uninterruptible power systems (UPS) and users of UPS equipment.

Project Need: To obtain national recognition of a standard, based on IEC requirements, covering general safety requirements for power electronic converter systems and equipment, excluding motors controls and adjustable speed electric power drive systems (PDS), which can be applied to UL 62040-1, Uninterruptible power systems (UPS) - Part 1: Safety requirements.

UL 62477-1 covers Power Electronic Converter Systems (PECS) and equipment and is to be used as a general reference standard for UL 62040-1, Uninterruptible power systems (UPS) - Part 1: Safety requirements. The scope excludes equipment intended for motor control and adjustable-speed electric power drive systems (PDS). This general reference standard provides minimum safety requirements for power electronic converter systems and equipment.

VITA (VMEbus International Trade Association (VITA))

Office: 929 W. Portobello Avenue
Mesa, AZ 85210

Contact: *Jing Kwok*

E-mail: jing.kwok@vita.com

BSR/VITA 57.4-201x, FPGA Mezzanine Card Plus (FMC+) Standard (new standard)

Stakeholders: Manufacturers, system integrators, end-users of critical embedded systems.

Project Need: Need for mezzanine module that works intimately with an FPGA processing device.

This standard extends the VITA 57.1 FMC standard by specifying two new connectors that enable additional Gigabit Transceiver interfaces that run at up to 28 Gbps.

American National Standards Maintained Under Continuous Maintenance

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

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

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

- AAMI (Association for the Advancement of Medical Instrumentation)
- AAMVA (American Association of Motor Vehicle Administrators)
- AARST (The AARST Consortium on National Radon Standards)
- 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 (The Green Building Initiative)
- GEIA (Greenguard Environmental Institute)
- HI (Home Innovation)
- HL7 (Health Level Seven)
- IESNA (The Illuminating Engineering Society of North America)
- MHI (ASC MH10) (Material Handling Industry)
- NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)
- NCPDP (National Council for Prescription Drug Programs)
- NISO (National Information Standards Organization)
- NSF (NSF International)
- PRCA (Professional Ropes Course Association)
- RESNET (Residential Energy Services Network)
- TIA (Telecommunications Industry Association)
- UL (Underwriters Laboratories, Inc.)

To obtain additional information with regard to these standards, including contact information at the ANSI Accredited Standards Developer, please visit *ANSI Online* at www.ansi.org/asd, 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.

Alternatively, you may contact the Procedures & Standards Administration department (PSA) at 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.

AAMI

Association for the Advancement of
Medical Instrumentation
4301 N Fairfax Drive
Suite 301
Arlington, VA 22203-1633
Phone: (703) 647-2779
Web: www.aami.org

ANS

American Nuclear Society
555 North Kensington Avenue
La Grange Park, IL 60526
Phone: (708) 579-8268
Fax: (708) 579-8248
Web: www.ans.org

APA

APA - The Engineered Wood
Association
7011 South 19th Street
Tacoma, WA 98466
Phone: (253) 620-7467
Fax: (253) 565-7265
Web: www.apawood.org

ASX9

Accredited Standards Committee X9,
Incorporated
275 West Street
Suite 107
Annapolis, MD 21401
Phone: (410) 267-7707
Web: www.x9.org

ASHRAE

American Society of Heating,
Refrigerating and Air-Conditioning
Engineers, Inc.
1791 Tullie Circle, NE
Atlanta, GA 30329
Phone: (404) 636-8400
Fax: (404) 321-5478
Web: www.ashrae.org

ASME

American Society of Mechanical
Engineers
Two Park Avenue
New York, NY 10016
Phone: (212) 591-8521
Fax: (212) 591-8501
Web: www.asme.org

ASTM

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

AWS

American Welding Society
8669 NW 36th Street
Suite 130
Doral, FL 33166
Phone: (305) 443-9353
Fax: (305) 443-5951
Web: www.aws.org

CPLSO

CPLSO
The Marchioness Building,
Commercial Road
Bristol BS16TG, UK BS1 6TG
Phone: (078) 796-2989

CSA

CSA Group
8501 East Pleasant Valley Rd.
Cleveland, OH 44131
Phone: (216) 524-4990 x88321
Fax: (216) 520-8979
Web: www.csa-america.org

CTA

Consumer Technology Association
1919 South Eads Street
Arlington, VA 22202
Phone: (703) 907-7697
Fax: (703) 907-4197
Web: www.cta.tech

ESTA

Entertainment Services and
Technology Association
630 Ninth Avenue
Suite 609
New York, NY 10036-3748
Phone: (212) 244-1505
Fax: (212) 244-1502
Web: www.esta.org

HL7

Health Level Seven
3300 Washtenaw Avenue
Suite 227
Ann Arbor, MI 48104
Phone: (734) 677-7777
Fax: (734) 677-6622
Web: www.hl7.org

HPS (ASC N13)

Health Physics Society
1313 Dolley Madison Blvd #402
McLean, VA 22101
Phone: (703) 790-1745
Fax: (703) 790-2672
Web: www.hps.org

IES

Illuminating Engineering Society
120 Wall St. 17th Floor
New York, NY 10005
Phone: (212) 248-5000
Web: www.ies.org

ITI (INCITS)

InterNational Committee for
Information Technology Standards
1101 K Street NW
Suite 610
Washington, DC 20005-3922
Phone: (202) 626-5737
Web: www.incits.org

MSS

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

NEMA (ASC C12)

National Electrical Manufacturers
Association
1300 North 17th Street
Suite 900
Rosslyn, VA 22209
Phone: (703) 841-3278
Fax: (703) 841-3367
Web: www.nema.org

NEMA (ASC C8)

National Electrical Manufacturers
Association
1300 North 17th Street
Suite 900
Rosslyn, VA 22209
Phone: (703) 841-3278
Fax: (703) 841-3367
Web: www.nema.org

NETA

InterNational Electrical Testing
Association
3050 Old Centre
Suite 101
Portage, MI 49024
Phone: (269) 488-6382
Fax: (269) 488-3683
Web: www.netaworld.org

NISO

National Information Standards
Organization
3600 Clipper Mill Road
Suite 302
Baltimore, MD 21211
Phone: (301) 654-2512
Fax: (410) 685-5278
Web: www.niso.org

NSF

NSF International
789 N. Dixboro Road
Ann Arbor, MI 48105-9723
Phone: (734) 769-5197
Web: www.nsf.org

SCTE

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

TIA

Telecommunications Industry
Association
1320 North Courthouse Road
Suite 200
Arlington, VA 22201
Phone: (703) 907-7706
Fax: (703) 907-7727
Web: www.tiaonline.org

UL

Underwriters Laboratories, Inc.
12 Laboratory Dr.
Research Triangle Park, NC 27709
Phone: (919) 549-1479
Fax: (919) 549-1479
Web: www.ul.com

VITA

VMEbus International Trade
Association (VITA)
929 W. Portobello Avenue
Mesa, AZ 85210
Phone: (602) 281-4497
Web: www.vita.com



ISO & IEC Draft International Standards

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

Comments

Comments regarding ISO documents should be sent to ANSI's ISO Team (isot@ansi.org); comments on IEC documents must be submitted electronically in the approved ISO template and as a Word document as other formats will not be accepted.

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

Ordering Instructions

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

ISO Standards

ACOUSTICS (TC 43)

ISO/DIS 11654, Acoustics - Sound absorbers - Rating of sound absorption coefficients - 10/28/2017, \$46.00

ISO/DIS 20189, Acoustics - Screens furniture and single objects intended for interior use - Rating of sound absorption and sound reduction of elements based on laboratory measurements - 10/28/2017, \$93.00

AIR QUALITY (TC 146)

ISO/DIS 16000-36, Indoor air - Part 36: Standard method for assessing the reduction rate of culturable airborne bacteria by air purifiers using a test chamber - 9/2/2017, \$82.00

AIRCRAFT AND SPACE VEHICLES (TC 20)

ISO/DIS 5884, Aerospace series - Fluid systems and components - Methods for system sampling and measuring the solid particle contamination of hydraulic fluids - 10/28/2017, \$67.00

ISO/DIS 9206, Aerospace - Fixed displacement hydraulic motors - General specifications - 9/2/2017, \$112.00

ISO/DIS 10794, Space systems - Programme management - Material, mechanical parts and processes - 9/2/2017, \$119.00

ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

ISO/DIS 17256, Anaesthetic and respiratory equipment - Respiratory therapy tubing and connectors - 8/31/2017, \$58.00

ISO/DIS 19211, Anaesthetic and respiratory equipment - Fire-activated oxygen shut-off devices for use during oxygen therapy - 8/31/2017, \$67.00

EQUIPMENT FOR FIRE PROTECTION AND FIRE FIGHTING (TC 21)

ISO/DIS 7240-7, Fire detection and alarm systems - Part 7: Smoke point detectors using scattered light, transmitted light or ionization - 9/2/2017, \$134.00

ERGONOMICS (TC 159)

ISO/DIS 21056, Ergonomics - Accessible design - Guidelines for designing tactile symbols and letters - 10/29/2017, \$58.00

FLUID POWER SYSTEMS (TC 131)

ISO/DIS 4409, Hydraulic fluid power - Positive-displacement pumps, motors and integral transmissions - Methods of testing and presenting basic steady state performance - 9/2/2017, \$93.00

GAS CYLINDERS (TC 58)

ISO/DIS 16964, Gas cylinders - Flexible hoses assemblies - Specification and testing - 10/29/2017, \$67.00

HYDROMETRIC DETERMINATIONS (TC 113)

ISO/DIS 1070, Hydrometry - Slope - Area Method - 9/1/2017, \$93.00

INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)

ISO/DIS 10303-57, Industrial automation systems and integration - Product data representation and exchange - Part 57: Integrated generic resource: Persistent identification of elements in procedural shape modelling - 9/2/2017, \$29.00

MECHANICAL VIBRATION AND SHOCK (TC 108)

ISO/DIS 2631-5, Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration - Part 5: Method for evaluation of vibration containing multiple shocks - 8/31/2017, \$119.00

MEDICAL DEVICES FOR INJECTIONS (TC 84)

ISO/DIS 23907-1, Sharps injury protection - Requirements and test methods - Part 1: Single-use sharps containers - 10/28/2017, \$58.00

NATURAL GAS (TC 193)

ISO/DIS 6974-3, Natural gas - Determination of composition and associated uncertainty by gas chromatography - Part 3: Precision and bias - 10/28/2017, \$53.00

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

ISO/DIS 14880-1, Optics and photonics - Microlens arrays - Part 1: Vocabulary - 10/28/2017, \$77.00

OTHER

- ISO/DIS 17072-1, Leather - Chemical determination of metal content - Part 1: Extractable metals - 8/31/2017, \$46.00
- ISO/DIS 17072-2, Leather - Chemical determination of metal content - Part 2: Total metal content - 8/31/2017, \$40.00

PAINTS AND VARNISHES (TC 35)

- ISO/DIS 11124-1, Preparation of steel substrates before application of paints and related products - Specifications for metallic blast-cleaning abrasives - Part 1: General introduction and classification - 10/28/2017, \$46.00
- ISO/DIS 11124-2, Preparation of steel substrates before application of paints and related products - Specifications for metallic blast-cleaning abrasives - Part 2: Chilled-iron grit - 10/28/2017, \$46.00
- ISO/DIS 11124-3, Preparation of steel substrates before application of paints and related products - Specifications for metallic blast-cleaning abrasives - Part 3: High-carbon cast-steel shot and grit - 10/28/2017, \$46.00
- ISO/DIS 11124-4, Preparation of steel substrates before application of paints and related products - Specifications for metallic blast-cleaning abrasives - Part 4: Low-carbon cast-steel shot - 10/28/2017, \$46.00
- ISO/DIS 11125-1, Preparation of steel substrates before application of paints and related products - Test methods for metallic blast-cleaning abrasives - Part 1: Sampling - 10/28/2017, \$46.00
- ISO/DIS 11125-2, Preparation of steel substrates before application of paints and related products - Test methods for metallic blast-cleaning abrasives - Part 2: Determination of particle size distribution - 10/28/2017, \$40.00
- ISO/DIS 11125-3, Preparation of steel substrates before application of paints and related products - Test methods for metallic blast-cleaning abrasives - Part 3: Determination of hardness - 10/28/2017, \$33.00
- ISO/DIS 11125-4, Preparation of steel substrates before application of paints and related products - Test methods for metallic blast-cleaning abrasives - Part 4: Determination of apparent density - 10/28/2017, \$33.00
- ISO/DIS 11125-5, Preparation of steel substrates before application of paints and related products - Test methods for metallic blast-cleaning abrasives - Part 5: Determination of percentage defective particles and of microstructure - 10/28/2017, \$33.00
- ISO/DIS 11125-6, Preparation of steel substrates before application of paints and related products - Test methods for metallic blast-cleaning abrasives - Part 6: Determination of foreign matter - 10/28/2017, \$33.00
- ISO/DIS 11125-7, Preparation of steel substrates before application of paints and related products - Test methods for metallic blast-cleaning abrasives - Part 7: Determination of moisture - 10/28/2017, \$40.00
- ISO/DIS 11126-1, Preparation of steel substrates before application of paints and related products - Specifications for non-metallic blast-cleaning abrasives - Part 1: General introduction and classification - 10/28/2017, \$40.00
- ISO/DIS 11126-3, Preparation of steel substrates before application of paints and related products - Specifications for non-metallic blast-cleaning abrasives - Part 3: Copper refinery slag - 10/28/2017, \$40.00
- ISO/DIS 11126-4, Preparation of steel substrates before application of paints and related products - Specifications for non-metallic blast-cleaning abrasives - Part 4: Coal furnace slag - 10/28/2017, \$33.00

- ISO/DIS 11126-5, Preparation of steel substrates before application of paints and related products - Specifications for non-metallic blast-cleaning abrasives - Part 5: Nickel refinery slag - 10/28/2017, \$40.00
- ISO/DIS 11126-6, Preparation of steel substrates before application of paints and related products - Specifications for non-metallic blast-cleaning abrasives - Part 6: Iron furnace slag - 10/28/2017, \$40.00
- ISO/DIS 11126-8, Preparation of steel substrates before application of paints and related products - Specifications for non-metallic blast-cleaning abrasives - Part 8: Olivine - 10/28/2017, \$40.00

PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)

- ISO/DIS 4007, Personal protective equipment - Eye and face protection - Vocabulary - 9/3/2017, \$146.00

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

- ISO/DIS 8483, Glass-reinforced thermosetting plastics (GRP) pipes and fittings - Test methods to prove the design of bolted flange joints - 9/2/2017, \$58.00
- ISO/DIS 21138-2, Plastics piping systems for non-pressure underground drainage and sewerage - Structured-wall piping systems of unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) - Part 2: Pipes and fittings with smooth external surface, Type A - 9/3/2017, \$119.00
- ISO/DIS 21138-3, Plastics piping systems for non-pressure underground drainage and sewerage - Structured-wall piping systems of unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) - Part 3: Pipes and fittings with non-smooth external surface, Type B - 9/3/2017, \$119.00

ROAD VEHICLES (TC 22)

- ISO/DIS 17373, Road vehicles - Sled test procedure for evaluating occupant head and neck interactions with seat/head restraint designs in low-speed rear-end impact - 9/2/2017, \$82.00

STERILIZATION OF HEALTH CARE PRODUCTS (TC 198)

- ISO 11135/DAmD1, Sterilization of health-care products - Ethylene oxide - Requirements for the development, validation and routine control of a sterilization process for medical devices - Amendment 1: Revision of Annex E, Single batch release - 8/31/2017, \$33.00

TECHNICAL SYSTEMS AND AIDS FOR DISABLED OR HANDICAPPED PERSONS (TC 173)

- ISO/DIS 7176-6, Wheelchairs - Part 6: Determination of maximum speed, acceleration and deceleration of electric wheelchairs - 10/30/2017, \$40.00

TEXTILES (TC 38)

- ISO/DIS 10290, Textiles - Cotton yarns - Basis for specification - 10/28/2017, \$40.00
- ISO/DIS 1833-27, Textiles - Quantitative chemical analysis - Part 27: Mixtures of cellulose fibres with certain other fibres (method using aluminium sulfate) - 9/3/2017, \$40.00

THERMAL INSULATION (TC 163)

- ISO/DIS 16536, Thermal insulating products for building applications - Determination of long-term water absorption by diffusion - 10/30/2017, \$46.00
- ISO/DIS 29767, Thermal insulating products for building applications - Determination of short-term water absorption by partial immersion - 10/30/2017, \$40.00

TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)

ISO/DIS 11783-3, Tractors and machinery for agriculture and forestry - Serial control and communications data network - Part 3: Data link layer - 10/28/2017, \$125.00

TRANSFUSION, INFUSION AND INJECTION EQUIPMENT FOR MEDICAL USE (TC 76)

ISO/DIS 11040-6, Prefilled syringes - Part 6: Plastic barrels for injectables and sterilized subassembled syringes ready for filling - 10/28/2017, \$125.00

TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)

ISO 14816/DAMd1, Road transport and traffic telematics - Automatic vehicle and equipment identification - Numbering and data structure - Amendment 1 - 9/2/2017, \$58.00

ISO 17262/DAMd1, Intelligent transport systems - Automatic vehicle and equipment identification - Numbering and data structures - Amendment 1 - 9/2/2017, \$46.00

ISO 17264/DAMd1, Intelligent transport systems - Automatic vehicle and equipment identification - Interfaces - Amendment 1 - 9/2/2017, \$46.00

ISO 24534-4/DAMd1, Automatic vehicle and equipment identification - Electronic registration identification (ERI) for vehicles - Part 4: Secure communications using asymmetrical techniques - Amendment 1 - 9/2/2017, \$58.00

ISO 24534-5/DAMd1, Intelligent transport systems - Automatic vehicle and equipment identification - Electronic Registration Identification (ERI) for vehicles - Part 5: Secure communications using symmetrical techniques - Amendment 1 - 9/2/2017, \$33.00

ISO/DIS 21215, Intelligent transport systems - Localized communications - ITS-M5 - 10/28/2017, \$102.00

ISO/DIS 21218, Intelligent transport systems - Hybrid communications - Access technology support - 10/29/2017, \$155.00

ISO/DIS 15638-21, Intelligent transport systems - Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV) - Part 21: Monitoring of regulated vehicles using roadside sensors and data collected from the vehicle for enforcement and other purposes - 9/2/2017, \$102.00

WATER QUALITY (TC 147)

ISO/DIS 8199, Water quality - General requirements and guidance for microbiological examinations by culture - 10/28/2017, \$125.00

IEC Standards

2/1868/CDV, IEC 60034-23 ED1: Rotating electrical machines - Part 23: Repair, overhaul and reclamation, 2017/11/3

5/190/CDV, ISO 10494 ED1: Turbines and turbine sets - Measurement of emitted airborne noise - Engineering/survey method, 2017/11/3

8B/2/CD, IEC TS 62898-3-1 ED1: Microgrids - Technical Requirements - Protection, 2017/11/3

17A/1153/FDIS, IEC 62271-111 ED3: High-voltage switchgear and controlgear - Part 111: Automatic circuit reclosers for alternating current systems up to and including 38 kV, 2017/9/22

18/1593/DC, High Voltage Installations, 2017/9/22

23A/843/CDV, IEC 62275/AMD1 ED2: Cable management systems - Cable ties for electrical installations, 2017/11/3

23E/1035/FDIS, IEC 60755 ED1: General Safety Requirements for Residual Current Operated Protective Devices - Group Safety Publication, 2017/9/22

25/607/FDIS, ISO 80000-11 ED2: Quantities and units - Part 11: Characteristic numbers, 2017/9/22

25/608/FDIS, ISO 80000-9 ED2: Quantities and units - Part 9: Physical chemistry and molecular physics, 2017/9/22

34A/2032/FDIS, IEC 60809/AMD2 ED3: Amendment 2 - Lamps for road vehicles - Dimensional, electrical and luminous requirements, 2017/9/22

46F/379/NP, PNW 46F-379: Radio-Frequency-Connectors, Part XX: Sectional specification for RF coaxial connectors with 1,35mm inner diameter of outer conductor, with screw coupling, 50 Ohm characteristic impedance, for use up to 90 GHz, 2017/11/3

47E/578A/CD, IEC 60747-17 ED1: Semiconductor devices - Part 17: Magnetic and capacitive coupler for basic and reinforced isolation, 2017/9/29

48B/2587/CD, IEC 61076-8-100 Ed1: Connectors for electronic equipment - Product requirements - Part 8-100: Power connectors - Detail specification for 2P or 3P power plus 2P signal shielded and sealed connectors with plastic housing for rated current of 20 A, 2017/10/6

48B/2588/CD, IEC 61076-8-101 Ed1: Connectors for electronic equipment - Product requirements - Part 8-101: Power connectors - Detail specification for 2P or 3P power plus 2P signal shielded and sealed connectors with plastic housing for rated current of 40 A, 2017/10/6

48B/2589/CD, IEC 61076-8-102 Ed1: Connectors for electronic equipment - Product requirements - Part 8-102: Power connectors - Detail specification for 2P or 3P power plus 2P signal shielded and sealed connectors with plastic housing for rated current of 150 A, 2017/10/6

57/1894/CDV, IEC 62351-3/AMD1 ED1: Amendment 1 - Power systems management and associated information exchange - Data and communications security - Part 3: Communication network and system security - Profiles including TCP/IP, 2017/11/3

57/1895/CDV, IEC 61968-11 ED3: Application integration at electric utilities - System interfaces for distribution management - Part 11: Common information model (CIM) extensions for distribution, 2017/11/3

64/2230/FDIS, IEC 60364-4-44/AMD2 ED2: Amendment 2 - Low-voltage electrical installations - Part 4-44: Protection for safety - Protection against voltage disturbances and electromagnetic disturbances, 2017/9/22

64/2229/CD, IEC 60364-5-57 ED1: Low-voltage electrical installations - Part 5: Selection and erection of electrical equipment - Clause 57: Stationary secondary batteries, 2017/11/3

72/1104/DC, IEC TC 72 Working Group 1 proposal to amend IEC 60730-2-5, Edition 4.1 - Automatic electrical controls - Part 2-5: Particular requirements for automatic electrical burner control systems, 2017/9/29

80/860/CD, IEC 61097-16 ED1: Global Maritime Distress and Safety System (GMDSS) - Part 16: Ship earth stations operating in mobile-satellite systems recognized for use in the GMDSS - Operational and performance requirements, methods of testing and required test results, 2017/11/3

80/861/FDIS, IEC 61097-3 ED2: Global maritime distress and safety system (GMDSS) - Part 3: Digital selective calling (DSC) equipment - Operational and performance requirements, methods of testing and required test results, 2017/9/22

86A/1811/CDV, IEC 60794-2-50 ED2: Optical fibre cables - Part 2-50: Indoor optical fibre cables - Family specification for simplex and duplex cables for use in terminated cable assemblies, 2017/11/3

90/390/CDV, IEC 61788-25 ED1: Superconductivity - Part 25: Mechanical properties measurement - Room Temperature Tensile Test on REBCO Wires, 2017/11/3

- 91/1447/CDV, IEC 61249-2-45 ED1: Materials for printed boards and other interconnecting structures - Part 2-45: Reinforced base materials clad and unclad - Non-halogenated epoxide non-woven/woven E-glass reinforced laminate sheets of thermal conductivity $\leq 1.0\text{W/m}\cdot\text{K}$ and defined flammability (vertical burning test), copper-clad for lead-free assembly, 2017/11/3
- 91/1448/CDV, IEC 61249-2-46 ED1: Materials for printed boards and other interconnecting structures - Part 2-46: Reinforced base materials clad and unclad - Non-halogenated epoxide non-woven/woven E-glass reinforced laminate sheets of thermal conductivity $\leq 1.5\text{W/m}\cdot\text{K}$ and defined flammability (vertical burning test), copper-clad for lead-free assembly, 2017/11/3
- 91/1449/CDV, IEC 61249-2-47 ED1: Materials for printed boards and other interconnecting structures - Part 2-47: Reinforced base materials clad and unclad - Non-halogenated epoxide non-woven/woven E-glass reinforced laminate sheets of thermal conductivity $\leq 2.0\text{W/m}\cdot\text{K}$ and defined flammability (vertical burning test), copper-clad for lead-free assembly, 2017/11/3
- 100/2971/NP, PNW 100-2971: LCD multi-screen display terminals - Part 1: Conceptual model, 2017/11/3
- 100/2972/NP, PNW 100-2972: LCD multi-screen display terminals - Part 2: Measuring methods, 2017/11/3
- 100/2957/CDV, IEC 60268-21 ED1: Sound system equipment - Loudspeakers - Acoustical (output based) measurements, 2017/11/3
- 100/2969/CD, IEC 62942 ED1: File format for professional transfer and exchange of digital audio data (TA 6), 2017/11/3
- 104/750/CD, IEC 60721-3-3 ED3: Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities - Section 3: Stationary use at weatherprotected locations, 2017/11/3
- 106/411/CD, IEC 62209-2/AMD1 ED1: Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz), 2017/11/3
- 107/313/DTR, IEC TR 62240-1 ED2: Process management for avionics - Electronic components capability in operation - Part 1: Temperature uprating, 2017/10/6
- 107/314/DTS, IEC TS 62647-4 ED1: Process management for avionics - Aerospace and defence electronic systems containing lead-free solder - Part 4: Ball grid array (BGA) package reballing, 2017/11/3
- 107/312/CD, IEC 62239-1 ED1: Process management for avionics - Management plan - Part 1: Preparation and maintenance of an electronic components management plan, 2017/11/3
- 110/882/CDV, IEC 61747-40-6 ED1: Liquid crystal display devices - Part 40-6: Mechanical testing of display cover glass for mobile devices - Retained biaxial flexural strength (Abraded Ring-on-Ring), 2017/11/3
- 114/233/DTS, IEC TS 62600-103 ED1: Marine energy - Wave, tidal and other water current converters - Part 103: Guidelines for the early stage development of wave energy converters: Best practices and recommended procedures for the testing of pre-prototype scale devices, 2017/11/3
- 115/166/CD, IEC TR 62672 ED1: Reliability and availability evaluation of HVDC systems, 2017/11/3
- 115/167/DTS, IEC TS 63014-1 ED1: High voltage direct current (HVDC) power transmission - System requirements for DC-side equipment - Part 1: Using line-commutated converters, 2017/11/3



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. All paper copies are available from Standards resellers (<http://webstore.ansi.org/faq.aspx#resellers>).

ISO Standards

ISO/IEC JTC 1 Technical Reports

[ISO/IEC TR 23008-13:2017](#), Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 13: MPEG media transport implementation guidelines, \$232.00

AGRICULTURAL FOOD PRODUCTS (TC 34)

[ISO 12099:2017](#), Animal feeding stuffs, cereals and milled cereal products - Guidelines for the application of near infrared spectrometry, \$162.00

AIR QUALITY (TC 146)

[ISO 16000-33:2017](#), Indoor air - Part 33: Determination of phthalates with gas chromatography/mass spectrometry (GC/MS), \$185.00

BUILDING CONSTRUCTION (TC 59)

[ISO 6707-3:2017](#), Buildings and civil engineering works - Vocabulary - Part 3: Sustainability terms, \$45.00

EARTH-MOVING MACHINERY (TC 127)

[ISO 7131/Amd1:2017](#), Earth-moving machinery - Loaders - Terminology and commercial specifications - Amendment 1, \$19.00

ERGONOMICS (TC 159)

[ISO 7250-1:2017](#), Basic human body measurements for technological design - Part 1: Body measurement definitions and landmarks, \$209.00

FERROALLOYS (TC 132)

[ISO 5446:2017](#), Ferromanganese - Specification and conditions of delivery, \$68.00

FINE CERAMICS (TC 206)

[ISO 18753:2017](#), Fine ceramics (advanced ceramics, advanced technical ceramics) - Determination of absolute density of ceramic powders by pycnometer, \$68.00

FLUID POWER SYSTEMS (TC 131)

[ISO 4406:2017](#), Hydraulic fluid power - Fluids - Method for coding the level of contamination by solid particles, \$45.00

[ISO 6149-4:2017](#), Connections for fluid power and general use - Ports and stud ends with ISO 261 metric threads and O-ring sealing - Part 4: Dimensions, design, test methods and requirements for external hex and internal hex port plugs, \$68.00

GAS CYLINDERS (TC 58)

[ISO 15996:2017](#), Gas cylinders - Residual pressure valves - Specification and type testing of cylinder valves incorporating residual pressure devices, \$138.00

GEOGRAPHIC INFORMATION/GEOMATICS (TC 211)

[ISO 19155-2:2017](#), Geographic information - Place Identifier (PI) architecture - Part 2: Place Identifier (PI) linking, \$162.00

GRAPHIC TECHNOLOGY (TC 130)

[ISO 20654:2017](#), Graphic technology - Measurement and calculation of spot colour tone value, \$45.00

HEALTH INFORMATICS (TC 215)

[ISO 17090-5:2017](#), Health informatics - Public key infrastructure - Part 5: Authentication using Healthcare PKI credentials, \$103.00

INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)

[ISO 18828-3:2017](#), Industrial automation systems and integration - Standardized procedures for production systems engineering - Part 3: Information flows in production planning processes, \$209.00

INDUSTRIAL FURNACES AND ASSOCIATED PROCESSING EQUIPMENT (TC 244)

[ISO 13579-11:2017](#), Industrial furnaces and associated processing equipment - Method of measuring energy balance and calculating energy efficiency - Part 11: Evaluation of various kinds of efficiency, \$209.00

LEARNING SERVICES FOR NON-FORMAL EDUCATION AND TRAINING (TC 232)

[ISO 29993:2017](#), Learning services outside formal education - Service requirements, \$68.00

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

[ISO 24817:2017](#), Petroleum, petrochemical and natural gas industries - Composite repairs for pipework - Qualification and design, installation, testing and inspection, \$232.00

MECHANICAL VIBRATION AND SHOCK (TC 108)

[ISO 7919-4/Amd1:2017](#), Mechanical vibration - Evaluation of machine vibration by measurements on rotating shafts - Part 4: Gas turbine sets with fluid-film bearings - Amendment 1, \$19.00

[ISO 10816-3/Amd1:2017](#), Mechanical vibration - Evaluation of machine vibration by measurements on non-rotating parts - Part 3: Industrial machines with nominal power above 15 kW and nominal speeds between 120 r/min and 15 000 r/min when measured in situ - Amendment 1, \$19.00

[ISO 10816-4/Amd1:2017](#). Mechanical vibration - Evaluation of machine vibration by measurements on non-rotating parts - Part 4: Gas turbine sets with fluid-film bearings - Amendment 1, \$19.00

[ISO 13373-7:2017](#). Condition monitoring and diagnostics of machines - Vibration condition monitoring - Part 7: Diagnostic techniques for machine sets in hydraulic power generating and pump-storage plants, \$138.00

NUCLEAR ENERGY (TC 85)

[ISO 19361:2017](#). Measurement of radioactivity - Determination of beta emitters activities - Test method using liquid scintillation counting, \$138.00

[ISO 22875:2017](#). Nuclear energy - Determination of chlorine and fluorine in uranium dioxide powder and sintered pellets, \$68.00

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

[ISO 11554:2017](#). Optics and photonics - Lasers and laser-related equipment - Test methods for laser beam power, energy and temporal characteristics, \$103.00

[ISO 11978:2017](#). Ophthalmic optics - Contact lenses and contact lens care products - Labelling, \$68.00

PAINTS AND VARNISHES (TC 35)

[ISO 15110:2017](#). Paints and varnishes - Artificial weathering including acidic deposition, \$103.00

[ISO 11997-1:2017](#). Paints and varnishes - Determination of resistance to cyclic corrosion conditions - Part 1: Wet (salt fog)/dry/humid, \$103.00

[ISO 19396-1:2017](#). Paints and varnishes - Determination of pH value - Part 1: pH electrodes with glass membrane, \$103.00

[ISO 19396-2:2017](#). Paints and varnishes - Determination of pH value - Part 2: pH electrodes with ISFET technology, \$103.00

PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)

[ISO 20349-2:2017](#). Personal protective equipment - Footwear protecting against risks in foundries and welding - Part 2: Requirements and test methods for protection against risks in welding and allied processes, \$68.00

PETROLEUM PRODUCTS AND LUBRICANTS (TC 28)

[ISO 2592:2017](#). Petroleum and related products - Determination of flash and fire points - Cleveland open cup method, \$103.00

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

[ISO 13260/Amd1:2017](#). Thermoplastics piping systems for non-pressure underground drainage and sewerage - Test method for resistance to combined temperature cycling and external loading - Amendment 1, \$19.00

ROAD VEHICLES (TC 22)

[ISO 2575/Amd6:2017](#). Road vehicles - Symbols for controls, indicators and tell-tales - Amendment 6, \$19.00

[ISO 2575/Amd7:2017](#). Road vehicles - Symbols for controls, indicators and tell-tales - Amendment 7, \$19.00

[ISO 12619-9:2017](#). Road vehicles - Compressed gaseous hydrogen (CGH2) and hydrogen/natural gas blends fuel system components - Part 9: Pressure relief valve (PRV), \$45.00

[ISO 12619-10:2017](#). Road vehicles - Compressed gaseous hydrogen (CGH2) and hydrogen/natural gas blends fuel system components - Part 10: Pressure relief device (PRD), \$68.00

[ISO 12619-11:2017](#). Road vehicles - Compressed gaseous hydrogen (CGH2) and hydrogen/natural gas blends fuel system components - Part 11: Excess flow valve, \$45.00

[ISO 12619-12:2017](#). Road vehicles - Compressed gaseous hydrogen (CGH2) and hydrogen/natural gas blends fuel system components - Part 12: Gas-tight housing and ventilation hoses, \$45.00

[ISO 12619-13:2017](#). Road vehicles - Compressed gaseous hydrogen (CGH2) and hydrogen/natural gas blends fuel system components - Part 13: Rigid fuel line in stainless steel, \$45.00

[ISO 12619-14:2017](#). Road vehicles - Compressed gaseous hydrogen (CGH2) and hydrogen/natural gas blends fuel system components - Part 14: Flexible fuel line, \$45.00

[ISO 12619-15:2017](#). Road vehicles - Compressed gaseous hydrogen (CGH2) and hydrogen/natural gas blends fuel system components - Part 15: Filter, \$45.00

[ISO 12619-16:2017](#). Road vehicles - Compressed gaseous hydrogen (CGH2) and hydrogen/natural gas blends fuel system components - Part 16: Fittings, \$45.00

ROLLING BEARINGS (TC 4)

[ISO 15242-3:2017](#). Rolling bearings - Measuring methods for vibration - Part 3: Radial spherical and tapered roller bearings with cylindrical bore and outside surface, \$68.00

RUBBER AND RUBBER PRODUCTS (TC 45)

[ISO 4079:2017](#). Rubber hoses and hose assemblies - Textile-reinforced hydraulic types for oil-based or water-based fluids - Specification, \$103.00

[ISO 6943:2017](#). Rubber, vulcanized - Determination of tension fatigue, \$103.00

[ISO 20058:2017](#). General purpose rubber thread - Specification, \$45.00

[ISO 20851:2017](#). Synthetic rubber latex - Examination for microorganisms, \$45.00

SMALL TOOLS (TC 29)

[ISO 3364:2017](#). Indexable hardmetal (carbide) inserts with rounded corners, with cylindrical fixing hole - Dimensions, \$103.00

SOLID MINERAL FUELS (TC 27)

[ISO 7404-4:2017](#). Methods for the petrographic analysis of coals - Part 4: Method of determining microlithotype, carbominerite and minerite composition, \$68.00

TIMBER STRUCTURES (TC 165)

[ISO 12122-6:2017](#). Timber structures - Determination of characteristic values - Part 6: Large components and assemblies, \$138.00

TYRES, RIMS AND VALVES (TC 31)

[ISO 4250-2:2017](#). Earth-mover tyres and rims - Part 2: Loads and inflation pressures, \$138.00

VACUUM TECHNOLOGY (TC 112)

[ISO 3669:2017](#). Vacuum technology - Bakeable flanges - Dimensions of knife-edge flanges, \$68.00

WELDING AND ALLIED PROCESSES (TC 44)

- [ISO 19285:2017](#), Non-destructive testing of welds - Phased array ultrasonic testing (PAUT) - Acceptance levels, \$138.00
- [ISO 23279:2017](#), Non-destructive testing of welds - Ultrasonic testing - Characterization of discontinuities in welds, \$103.00
- [ISO 18278-3:2017](#), Resistance welding - Weldability - Part 3: Evaluation procedures for weldability in spot weld bonding, \$138.00
- [ISO 9455-15:2017](#), Soft soldering fluxes - Test methods - Part 15: Copper corrosion test, \$68.00

ISO Technical Reports**CARBON DIOXIDE CAPTURE, TRANSPORTATION, AND GEOLOGICAL STORAGE (TC 265)**

- [ISO/TR 27915:2017](#), Carbon dioxide capture, transportation and geological storage - Quantification and verification, \$209.00

MECHANICAL VIBRATION AND SHOCK (TC 108)

- [ISO/TR 18570:2017](#), Mechanical vibration - Measurement and evaluation of human exposure to hand transmitted vibration - Supplementary method for assessing risk of vascular disorders, \$103.00

TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)

- [ISO/TR 18317:2017](#), Intelligent transport systems - Pre-emption of ITS communication networks for disaster and emergency communication - Use case scenarios, \$45.00

ISO/IEC JTC 1, Information Technology

- [ISO/IEC 26558:2017](#), Software and systems engineering - Methods and tools for variability modelling in software and systems product line, \$185.00
- [ISO/IEC 26559:2017](#), Software and systems engineering - Methods and tools for variability traceability in software and systems product line, \$162.00
- [ISO/IEC 15946-5:2017](#), Information technology - Security techniques - Cryptographic techniques based on elliptic curves - Part 5: Elliptic curve generation, \$162.00
- [ISO/IEC 20009-4:2017](#), Information technology - Security techniques - Anonymous entity authentication - Part 4: Mechanisms based on weak secrets, \$138.00
- [ISO/IEC 23001-4:2017](#), Information technology - MPEG systems technologies - Part 4: Codec configuration representation, \$232.00
- [ISO/IEC 23008-1:2017](#), Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 1: MPEG media transport (MMT), \$232.00
- [ISO/IEC/IEEE 8802-1Q/Amd1:2017](#), Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 1Q: Bridges and bridged networks - Amendment 1: Path control and reservation, \$232.00
- [ISO/IEC/IEEE 8802-1Q/Amd3:2017](#), Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 1Q: Bridges and bridged networks - Amendment 3: Enhancements for scheduled traffic, \$209.00

- [ISO/IEC/IEEE 8802-1AB:2017](#), Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 1AB: Station and media access control connectivity discovery, \$232.00

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

- [IEC 61937-9 Ed. 2.0 en:2017](#), Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - Part 9: Non-linear PCM bitstreams according to the MAT format, \$47.00
- [IEC 63005-1 Ed. 1.0 en:2017](#), Event video data recorder for road vehicle accidents - Part 1: Basic requirements, \$117.00
- [IEC 61937-14 Ed. 1.0 en:2017](#), Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - Part 14: Non-linear PCM bitstreams according to the AC-4 format, \$199.00

ELECTRIC TRACTION EQUIPMENT (TC 9)

- [IEC 62486 Ed. 2.0 b:2017](#), Railway applications - Current collection systems - Technical criteria for the interaction between pantograph and overhead contactline (to achieve free access), \$317.00

EQUIPMENT FOR ELECTRICAL ENERGY MEASUREMENT AND LOAD CONTROL (TC 13)

- [IEC 62056-5-3 Ed. 3.0 en:2017](#), Electricity metering data exchange - The DLMS/COSEM suite - Part 5-3: DLMS/COSEM application layer, \$410.00
- [IEC 62056-6-1 Ed. 3.0 b:2017](#), Electricity metering data exchange - The DLMS/COSEM suite - Part 6-1: Object Identification System (OBIS), \$281.00
- [IEC 62056-8-5 Ed. 1.0 en:2017](#), Electricity metering data exchange - The DLMS/COSEM suite - Part 8-5: Narrow-band OFDM G3-PLC communication profile for neighbourhood networks, \$235.00

FIBRE OPTICS (TC 86)

- [IEC 60793-2-10 Ed. 6.0 b:2017](#), Optical fibres - Part 2-10: Product specifications - Sectional specification for category A1 multimode fibres, \$281.00

FUEL CELL TECHNOLOGIES (TC 105)

- [IEC 62282-3-201 Ed. 2.0 b:2017](#), Fuel cell technologies - Part 3-201: Stationary fuel cell power systems - Performance test methods for small fuel cell power systems, \$352.00

POWER SYSTEM CONTROL AND ASSOCIATED COMMUNICATIONS (TC 57)

- [IEC 61970-SER Ed. 1.0 b:2017](#), Energy management system application program interface (EMS-API) - ALL PARTS, \$486.00

PRINTED ELECTRONICS (TC 119)

- [IEC 62899-302-1 Ed. 1.0 en:2017](#), Printed electronics - Part 302-1: Equipment - Inkjet - Imaging based measurement of jetting speed, \$117.00

SMALL POWER TRANSFORMERS AND REACTORS AND SPECIAL TRANSFORMERS AND REACTORS (TC 96)

- [IEC 62041 Ed. 3.0 en:2017](#), Transformers, power supplies, reactors and similar products - EMC requirements, \$199.00

SOLAR PHOTOVOLTAIC ENERGY SYSTEMS (TC 82)

[IEC 62979 Ed. 1.0 en:2017](#), Photovoltaic modules - Bypass diode - Thermal runaway test, \$82.00

[IEC/PAS 62257-10 Ed. 1.0 en:2017](#), Recommendations for renewable energy and hybrid systems for rural electrification - Part 10: Silicon solar module visual inspection guide, \$235.00

WINDING WIRES (TC 55)

[IEC 60317-56 Ed. 2.0 b:2017](#), Specifications for particular types of winding wires - Part 56: Solderable fully insulated (FIW) zero-defect polyurethane enamelled round copper wire, class 180, \$47.00

[IEC 60317-69 Ed. 1.0 b:2017](#), Specifications for particular types of winding wires - Part 69: Polyester or polyesterimide overcoated with polyamide-imide enamelled rectangular aluminium wire, class 220, \$47.00

IEC Technical Reports

TRANSMITTING EQUIPMENT FOR RADIO COMMUNICATION (TC 103)

[IEC/TR 63099-1 Ed. 1.0 en:2017](#), Transmitting equipment for radiocommunication - Radio-over fibre technologies for electromagnetic-field measurement - Part 1: Radio-over-fibre technologies for antenna measurement, \$164.00

Registration of Organization Names in the United States

The Procedures for Registration of Organization Names in the United States of America (document ISSB 989) require that alphanumeric organization names be subject to a 90-day Public Review period prior to registration. For further information, please contact the Registration Coordinator at (212) 642-4975.

The following is a list of alphanumeric organization names that have been submitted to ANSI for registration. Alphanumeric names appearing for the first time are printed in bold type. Names with confidential contact information, as requested by the organization, list only public review dates.

PUBLIC REVIEW

ORSUS

Public Review: August 11 to November 9, 2017

NOTE: Challenged alphanumeric names are underlined. The Procedures for Registration provide for a challenge process, which follows in brief. For complete details, see Section 6.4 of the Procedures.

A challenge is initiated when a letter from an interested entity is received by the Registration Coordinator. The letter shall identify the alphanumeric organization name being challenged and state the rationale supporting the challenge.

A challenge fee shall accompany the letter. After receipt of the challenge, the alphanumeric organization name shall be marked as challenged in the Public Review list. The Registration Coordinator shall take no further action to register the challenged name until the challenge is resolved among the disputing parties.

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

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

Maintenance of Standards

ANS transfer from ASSE to ASTM

The maintenance of the following Z88 American National Standards have been transferred from American Society of Safety Engineers (ASSE) to ASTM International, effective June 2017:

- ANSI/AIHA Z88.2-2015
- ANSI/AIHA Z88.7-2010
- ANSI/AIHA Z88.10-2010

ANSI Accredited Standards Developers

Approval of Reaccreditation

CSA Group

The reaccreditation of the CSA Group, 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 CSA Group-sponsored American National Standards, effective August 14, 2017. For additional information, please contact: Ms. Cathy Rake, Sr. Project Manager, Fuels, CSA Group, 8501 East Pleasant Valley Road, Cleveland, OH 44131; phone: 216.524.4990, ext. 88321; e-mail: cathy.rake@csagroup.org.

International Organization for Standardization (ISO)

ISO Proposals for New Fields of ISO Technical Activity

Ageing Societies

Comment Deadline: September 15, 2017

BSI, the ISO member from the United Kingdom, has submitted to ISO a proposal for a new field of ISO technical activity on Ageing Societies, with the following scope statement:

Standardization in the field of ageing societies.

The program of work will promote lifelong support and quality of life in ageing populations. This will enable people to remain independent throughout their life with a sense of value and contribution to their communities. It will take a holistic approach in addressing services and products that will help manage the advancement of ageing societies. It will take note of where innovation and technology require standards to support this demographic.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, September 15, 2017.

Packaging Machinery

Comment Deadline: September 8, 2017

UNI, the ISO member body for Italy, has submitted to ISO a proposal for a new field of ISO technical activity on Packaging Machinery, with the following scope statement:

Standardization of packaging machines with reference to the aspects of terminology, classification, design and safety.

The scope of the ISO TC will be broad enough to cover the machines used to package products. These machines perform packaging functions for primary, secondary, and tertiary (transport / distribution) packaging. Associated equipment are included.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, September 8, 2017.

International Electrotechnical Commission (IEC)

Call for Members (USNC)

USNC Participants Needed

US Technical Advisory Group (TAG) for IEC/SC 32B, Low Voltage Fuses

Scope:

To prepare international standards for the following types of fuses intended to be used at nominal voltages not exceeding 1 000 V a.c. or 1 500 V d.c. and also, in so far as they are applicable, for circuits of higher nominal voltages:

- fuses for the protection of all types of circuits in electrical installations (e.g. industrial or domestic) against overload and/or short-circuit currents
- fuses for the protection of all kinds of systems apparatus or components (e.g. motors, electro-domestic appliances, semiconductor devices) against overload and/or short-circuit currents with a rated breaking capacity of at least 6 000 A a.c. or 2000 A d.c.

TAG Membership Benefits:

- Initiate and approve US proposals for new work items (e.g., ideas for new standards) and working drafts for submission by the US National Committee for consideration by the IEC Technical Committee.
- Determine the US position on IEC draft International Standards, draft technical reports, committee drafts, new work item proposals, IEC questionnaires, and draft reports of meetings.
- Provide adequate US representation to IEC Technical Committee and working group meetings, designate the head of delegation and members of delegations, and ensure compliance with the ANSI Guide for US Delegates to meetings of the International Electrotechnical Commission and ISO.
- Determine US position on agenda items for IEC Technical Committee meetings and advise the US delegation.
- Nominate or participate as a US technical expert to serve on the IEC Technical Committee's working groups.

If you would like to join, please contact the US TAG Secretary Muhammad Ali at Muhammad.ali@nema.org.

Information Concerning International Organization for Standardization (ISO)

Call for U.S. TAG Administrator

ISO/TC 269 – *Railway Applications* and Subcommittees

There is currently no ANSI-accredited U.S. TAG Administrator for ISO/TC 269, ISO/TC 269/SC 1, ISO/TC 269/SC 2 and ISO/TC 269/SC 3 and therefore ANSI is not a member of these committees. The international standardization efforts are being led at present by Germany alongside 21 other countries such as France, the UK, Russia, China, and Sweden.

ISO/TC 269 – *Railway applications* operates under the following scope:

Standardization of all systems, products and services specifically related to the railway sector, including design, manufacture, construction, operation, and maintenance of parts and equipment, methods and technology, interfaces between infrastructure, vehicles and the environment, excluding those electrotechnical and electronic products and services for railways which are within the scope of IEC/TC 9.

ISO/TC 269/SC 1 – *Infrastructure* operates under the following scope:

Standardization in the field of railway infrastructure, including areas such as railway tracks, platforms, stations and shunting yards, as well as railway specific needs for tunnels, bridges and other civil works, and addressing: design, construction and installation requirements, testing and conformity assessment of ground equipment as well as maintenance criteria for their entire life cycle.

ISO/TC 269/SC 2 – *Rolling stocks* operates under the following scope:

Standardization in the field of railway rolling stock products, equipment and systems, including areas such as locomotives, passenger cars, freight wagons, on track machines, multiple units, underground and light rail vehicles, and addressing: design, manufacture and installation requirements, testing and conformity assessment of on-board equipment and rolling stock as well as maintenance criteria for their entire life cycle.

ISO/TC 269/SC 3 – *Operations and services* operates under the following scope:

Standardization of requirements and guidance relating to operations and services in the railway system and related equipment, which are required in and between railway stakeholders as well as at the technical interfaces between railway operators and railway users such as passengers and shippers in order to realize safe, reliable, convenient and sustainable railway transport.

A recent proposal in ISO/TC 269 was recently circulated that may garner more US interest. A recent proposal for a standard has been initiated titled, "*Railway applications -- Guidelines for planning of operational concepts for earthquake events*". The proposed scope of this particular project is as follows:

This document specifies the planning method for operational concepts, which consist of procedures and basic requirements for train operation, in order to reduce customer and railway operator risk due to earthquake occurrence.

This document defines the principles of planning for five stages of train operation in the occurrence of an earthquake. Moreover, this document addresses the guidelines for planning of operational concepts for setting of the operational procedures in five stages, which consist of:

- 1. detection of earthquake*
- 2. judgement for operational restriction*
- 3. operational restriction*
- 4. inspection*
- 5. resumption of operational service and describing factors, elements, and/or conditions on which these procedures are based, and also for indicating the basic requirements of the functions necessary for the implementation of the above procedures in practice.*

The operational procedures for the five stages, will be underpinned by fundamental planning activities which support all stages. This document includes only operational measures (active measures) and excludes any infrastructure measures (passive measures). Furthermore, this document does not include specific measures which ensure, without failure, passenger safety or provide protection against train-operational damage caused by earthquakes, and therefore residual risk may remain. Application of this document complies with the specific laws or decrees applicable within the prevailing environment where the targeted railway is located.

If you are interested in learning more about the ISO/TC 269 and how to become involved, please write to kcalifra@ansi.org for more information.



**BSR/ASHRAE Addendum a
to ANSI/ASHRAE Standard 147-2013**

Public Review Draft

**Proposed Addendum a to
Standard 147-2013, Reducing the Release
of Halogenated Refrigerants from
Refrigerating and Air-Conditioning
Equipment and Systems**

**First Public Review (August 2017)
(Draft shows Proposed Changes to Current Standard)**

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at www.ashrae.org/standards-research--technology/public-review-drafts and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at www.ashrae.org/bookstore or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE website, www.ashrae.org.

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BSR/ASHRAE Addendum a to ANSI/ASHRAE Standard 147-2013, *Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems*
 First Public Review Draft

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FOREWORD

This addendum makes changes to Informative Appendix A. These changes better define specific food items that may produce atmospheres that are corrosive to the evaporator coil in the airstream. It also addresses a more broad view of corrosion protection other than adding coatings.

[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~striketrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.]

Addendum a to 147-2013

Revise Section A2.2.1.2 as shown below.

A2.2.1.2 Corrosion Protection. Construction materials and methods of design should be selected to preclude emissions of refrigerant as a result of release during normal operation. For known corrosive environments (e.g., a service deli case where food items open containers of foods containing vinegars are being refrigerated, produce prep or cooling rooms where significant amounts of Ethylene can accumulate from ripening produce, or a coastal environment where corrosion is eminent salt in the air can corrode metals), the coil ~~must have an adequate tubing thickness or coating or other fin material to ensure adequate life of the heat exchanger~~ should be constructed of materials having an appropriate thickness, coating, and/or corrosion resistance for the application.



**BSR/ASHRAE Addendum b
to ANSI/ASHRAE Standard 147-2013**

Public Review Draft

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BSR/ASHRAE Addendum b to ANSI/ASHRAE Standard 147-2013, *Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems*
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FOREWORD

This addendum makes changes to Appendix A, Section 2.2.1.1. These changes place more specificity on the issues with the causes of refrigerant leaks in systems due to vibration. It also identifies two different remedies to vibration issues.

[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~striketrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.]

Addendum b to 147-2013

Revise Section A2.2.1 as shown below.

A2.2.1 Air-Cooled Condensers and Evaporators

A2.2.1.1 Vibration - Excessive vibration can cause failure of the tubing connected to the condensers and evaporators, leading to refrigerant leaks. Vibration can come from the compressors, fans, nearby equipment, refrigerant boiling off inside a flooded evaporator, or excessive refrigerant velocity inside the tubing. This problem can be avoided by: (a) utilizing vibration dampening pads or springs at the fans, on the mounting base, or mounting lugs, or (b) by changing the spacing of tubing supports as required. ~~or other equipment can cause tube failure. These effects should be considered.~~



**BSR/ASHRAE Addendum c
to ANSI/ASHRAE Standard 147-2013**

Public Review Draft

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FOREWORD

This addendum addresses needed guidance for Informative Appendix A relative to Vibration ([Section A2.2.3.1] and Water Treatment [Section A2.2.3.2]). These are informative in nature.

[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.]

Addendum c to 147-2013

Revise Section A2.2.3 as shown below.

A2.2.3 Evaporative Condensers

A2.2.3.1 Vibration – Excessive vibration can cause failure of the tubing connected to the condensers and evaporators, leading to refrigerant leaks. Vibration can come from the compressors, fans, nearby equipment, refrigerant boiling off inside a flooded evaporator, or excessive refrigerant velocity inside the tubing. This problem can be avoided by: (a) utilizing vibration dampening pads or springs at the fans, on the mounting base, or mounting lugs and (b) by changing the spacing of tubing supports as required.

A.2.2.3.2 Water Treatment - Proper water treatment can minimize the effects of corrosive elements in the evaporative fluid. Without a rigorous water treatment regimen, the service and water usage costs can negate or even eclipse the energy cost savings of evaporative condensers. Furthermore, poor water treatment practices can indirectly lead to refrigerant leaks when the tubing is descaled. Manual and chemical methods of removing scale can remove enough tubing material to weaken the tubing to the point of failure. The condenser should be evacuated prior to descaling and leak tested prior to use whenever possible. To prevent scale buildup, condenser tubing should be visually inspected often; water distribution nozzles should be thoroughly cleaned on a regular basis to ensure complete coverage; and water quality sensors should be cleaned, maintained, and calibrated frequently to ensure that the chemical or electrical scale prevention systems can perform as designed. The frequency of such service practices depends entirely on the water quality at the condenser which can vary from every few days to every few months. See manufacturer's recommendations for baseline intervals.

BSR/ASHRAE Addendum c to ANSI/ASHRAE Standard 147-2013, *Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems*
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A2.3 Piping, Tubing, and Connections. Strainers, filters, and driers should be utilized to control moisture and capture solid contaminants, a process which will minimize damage to moving parts and avoid plugging of refrigerant circuits caused by contaminants in the system. These components should be isolated with valves (or pump-out capability provided) to permit quick recovery of refrigerant before component servicing and to reduce the potential for excessive refrigerant loss. Supports and bimetal transition joints should be designed to guard against electrolytic corrosion.



**BSR/ASHRAE Addendum d
to ANSI/ASHRAE Standard 147-2013**

Public Review Draft

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Equipment and Systems**

**First Public Review (August 2017)
(Draft shows Proposed Changes to Current Standard)**

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at www.ashrae.org/standards-research--technology/public-review-drafts and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at www.ashrae.org/bookstore or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

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

BSR/ASHRAE Addendum d to ANSI/ASHRAE Standard 147-2013, *Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems*
First Public Review Draft

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

FOREWORD

This addendum removes a suggested method to remove a potential leak path that is already a requirement in Section 4 of the standard.

[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~striketrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.]

Addendum d to 147-2013

Revise Section A2.4 as shown below.

A2.4 Access and Isolation Valves. Access valves should be located where pressure readings will be taken. Adequate isolation of system components such as gages, operating controls, and major components (compressors, heat exchangers, expansion devices, receivers, and accumulators) should be provided to minimize refrigerant loss during servicing or replacement in accordance with ANSI/ASHRAE Standard 15-2013, *Safety Standard for Refrigeration Systems*.

~~Valves not having an internal stem diaphragm should be provided with seal caps to fit over the stem (if so equipped) in order to minimize leak sources. Seal caps should be tightened metal-to-metal seal type or should have equally effective long-term sealing capability and should be attached to the valve body by a strap or chain to avoid losing them in service.~~



**BSR/ASHRAE Addendum e
to ANSI/ASHRAE Standard 147-2013**

Public Review Draft

**Proposed Addendum e to
Standard 147-2013, Reducing the
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FOREWORD

This addendum requires the user and manufacturer to specify and use materials that will address the issue of known harsh, corrosive environments where the evaporator and/or condenser may be located.

[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~striketrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.]

Addendum e to 147-2013

Revise Section 4.4.1.1 as shown below.

4.4.1 Air-to-Refrigerant Condensers and Evaporators. These components shall be designed for the ability to withstand stress, vibration, and corrosion under normal operation and during transport. Tubing supports shall be designed to minimize vibration, provide protection against abrasion due to movement, and allow for thermal expansion.

4.4.1.1 The user or the user's designated agent shall specify select materials or options that will prevent corrosion failure in the installed environment. Equipment manufacturers are responsible for ensuring that any equipment that is marketed for a known corrosive environment (e.g., deli service cases, ripening rooms) offers options necessary to make said equipment suitable for the listed application by default.

4.4.2 Liquid-to-Refrigerant Condensers and Evaporators

ANSI/TIA-PN-470.230-D
Default Ballot Draft 2.0
TR41.3.5-17-09-005

Telecommunications

Telephone Terminal Equipment

**Network Signaling Performance Requirements
for Analog Telephones**

Formulated under the cognizance of TIA Subcommittee TR-41.3
Analog and Digital Wireline Terminals

With the approval of TIA Engineering Committee TR-41
Performance and Accessibility for Communications Products

559 4.5.15 DTMF Signal Sidetone and Dialing Confirmation Tones

560 A DUT should present DTMF signals or Confirmation tones to the telephone receiver for acoustic
561 confirmation of dialing for the user.

562 4.5.15.1 Requirements

563 If supported, confirmation of dialing signals generated at the receiver at the Nominal Volume Control
564 Setting as defined in TIA 470.110-D, shall be:

- 565 1. -14 to +10 dBPa (80 to 104 dBSPL) referenced to the free field for telephones with handsets not
566 intended to be held to the ear during dialing (e.g. cordless telephones or telephones with dial-in-handset
567 designs).
- 568 2. -29 to -4 dBPa (65 to 90 dBSPL) referenced to the free field for telephones with handsets, which may
569 normally be held to the ear during dialing (e.g. dial-in-base designs).
- 570 3. -28 to -14 dBPa (66 to 80 dBSPL) for Speakerphones.

571 4.5.15.2 Method of Measurement

572 The following steps shall be taken:

- 573 1. Connect the DUT to the test circuit as shown in Figure 8.
- 574 2. Place the handset in the standard test position on a HATS using a 10N force (see ANSI/TIA-470.110-
575 D). Press the DUT keypad 0 button to generate a DTMF "0" and measure the acoustic output from the
576 receiver referenced to the free-field between 100 Hz and 3300 Hz.
- 577 3. For Speakerphones, setup the DUT using the reference triangle as described in ANSI/TIA-470.120-D.
578 Press the DUT keypad 0 button to generate a DTMF "0" and measure the acoustic output from the
579 speaker between 100 Hz and 3300 Hz.

580

581 4.5.16 DTMF Signaling following DC Line Transitions

582 The DUT may encounter OSI, Line Reversals or DC shifts after an off-hook transition prior to DTMF
583 Transmission.

584 4.5.16.1 Requirements

585 The DTMF signaling shall comply with the requirements of sections 4.5.3 and 4.5.5 when DTMF dialing
586 begins within 100ms after the following events:

- 587 1. end of a 350 ms OSI.
- 588 2. end of a Line Reversal.
- 589 3. after the DUT is taken Off-Hook.

590 4.5.16.2 Method of Measurement

591 The following steps shall be taken:

- 592 1. Connect the DUT to the test circuit as shown in Figure 8.
- 593 2. Apply an OSI and initiate dialing.
- 594 3. Capture DTMF signals and analyze.
- 595 4. Repeat for 10 mA increments up to 100 mA (if applicable) or maximum current obtainable.
- 596 5. Repeat steps 2-4 for Line Reversal.
- 597 6. Repeat steps 2-4 for DUT off-hook transition.

598

BSR/UL 60335-2-1000, Standard for Safety for Household and Similar Electrical Appliances: Particular Requirements for Electrically Powered Pool Lifts

PROPOSAL

1 Scope

This clause of Part 1 is replaced by the following.

This Standard deals with the safety of electrically powered pool lifts intended for persons requiring assistance for safe entry into and out of a pool, their **RATED VOLTAGE** being not more than 150 V between supply phases or one phase and neutral or ground, and intended for installation in accordance with the US National Electrical Code, (NFPA 70) Article 680, Part VIII.

NOTE 101: Examples of appliances that are within the scope of this standard are:

- portable and stationary lifts of the chair type
- stationary lifts of the wheelchair platform type.

As far as is practicable, this standard deals with the common hazards presented by these appliances. However, in general, it does not take into account

- a) the use of appliances by young children or infirm persons without supervision;
- b) playing with the appliance by young children.

NOTE 102: Attention is drawn to the fact that:

- Authorities Having Jurisdiction should be consulted on additional installation regulations and requirements for lifts with respect to accessibility, performance and the like.

NOTE 103: This standard does not apply to:

- platform type lifts intended for multiple wheelchairs
- ~~pool lifts requiring operation by an attendant~~
- pool lifts for use in medical facilities

20.1 Modification:

A portable LIFT shall be set in the most adverse position and placed on a 10 3 o inclined surface with the maximum rated load.

NOTE: The test on the horizontal support may be necessary for appliances provided with rollers, castors or feet. In this case, castors or wheels may be blocked to prevent the appliance from rolling.

20.102 The operator's manual shall provide warnings as to potential pinch points from the moving parts of the lift. Permanent caution labels shall be provided at the corresponding points on the lift. The labels shall consist of the symbol ISO 7000-0434A. There shall be no risk of entrapment or injury caused by movement of the LIFT mechanism.

Compliance is checked by the following test.

~~Unless the entrapment point is guarded so that it cannot be touched by the test probe of Figure 13DV, the LIFT is operated at RATED VOLTAGE and the test probe of Figure 13DV is placed at the entrapment point across the width and height of its opening.~~

~~If the test probe of Figure 13DV is touched by the moving part, it shall not be subjected to a force exceeding 15 N.~~

21.1 Addition:

A portable LIFT shall be set in the most adverse position and placed on a 10° inclined surface and secured against tipping but not against deformation. The LIFT shall then be loaded with 1.25 x rated weight capacity for a period of 5 minutes. The LIFT shall then be placed in the most adverse position on a horizontal surface. The LIFT shall then be loaded with 1.5 x the rated weight capacity for 20 minutes.

The test is repeated on a horizontal surface when loaded with 1.5 x rated weight capacity for 20 minutes.

A fixed LIFT shall be installed in accordance with the installation instructions. It shall be set in the most adverse position and then loaded with 1.5 x the rated weight capacity. It shall be maintained in this position for 20 minutes.

After the tests there shall be no deformation or wear that would affect the function of the LIFT.

Figure AA.1 - Example of a stationary portable pool lift

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BSR/UL 558, Standard for Safety For Industrial Trucks, Internal Combustion Engine-Powered

PROPOSAL

SB3.2 The cleaning machine is to be operated with settings for normal operation as defined by the manufacturer for the duration of the test on a level test course. The test path should include stopping every 200 feet to accommodate heating by breaking or electrically controlled braking (plugging).

Exception: Push type, walk behind floor cleaners are not required to operate over the test course as described in Section 23, Temperature Tests or SB3.2. Push type floor cleaners can operate stationary for this test.

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BSR/UL 844, Standard for Safety for Luminaires for Use in Hazardous (Classified) Locations

1. This proposal provides a new Section 29A to include an alternative Dust-Penetration Test and revisions to 37.5 to permit gasketed serviceable joints in luminaires.

PROPOSAL

29A Dust-Penetration Test

29A.1 A luminaire enclosure having joints in compliance with 12.1 - 12.7 shall be permitted to be subjected to the test of 29A.2 following any Aging Tests of 11.1.12 item c) or Section 37, as are applicable.

29A.2 The luminaire enclosure shall first be subjected to the Pressure Test of 29A.3 followed by the Dust Exclusion Test of 29A.4.

29A.3 Pressure Test - A positive internal pressure of at least 4 ± 0.4 kPa shall be applied to the luminaire enclosure for 60^{+10}_0 s. Any breathing or draining device may be sealed for this test if the pressure cannot be maintained. Any seals of the breathing or draining device shall be removed and the sample shall be subjected to the Dust Exclusion Test in the condition it is in after the completion of this test.

29A.4 Following the Pressure Test of 29A.3, the Dust Exclusion Test shall be performed in accordance with ANSI/IEC 60529 for IP 6X, except that the level of depression shall be increased to at least 4 kPa for a period of at least 8 h. There shall be no entrance of the dust into the luminaire enclosure as determined by visual examination following the test.

37.5 Prior to the test of SA5.3, diffusers, globes, refractors, lenses and similar optics that are made from polymeric material shall be permitted to be subjected to short term-aging using the formula found in SA5.3 when all of the following applies:

- a) The polymeric material which forms the optic portion shall conform with the Standard for Polymeric Materials - Long Term Property Evaluations, UL 746B with an established RTI value, and used within this rating;
- b) The polymeric material which forms the optic portion forms a part of a gasketed metal to polymeric joint;
- c) ~~The joint is not intended to be a serviceable joint;~~
- d) Air temperature is conducted measuring the lens internal service temperature, in addition to all gasket internal service temperatures; and
- e) The maximum internal service temperature is used in the aging formula in SA5.3.

For luminaires with a gasketed joint that is intended to be opened, the luminaire shall be opened and re-closed in accordance with the manufacturer's instructions prior to being subjected to the Dust-Penetration Test, Section 29 or 29A.

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BSR/UL 1030, Standard for Safety for Sheathed Heating Elements

SUPPLEMENT SA - Medium Voltage Sheathed Heating Elements

INTRODUCTION

SA1 Scope

SA1.1 These requirements cover industrial-use medium voltage metal-sheathed heating elements intended for use in appliances and equipment that comply with the requirements for such appliances and equipment. The requirements in this Supplement are applied in addition to the requirements specified in this standard.

SA1.2 These requirements cover cartridge-type sheathed heating elements that do not incorporate a bend in the sheath, rated between 601 and 15,000 V. These requirements cover between the cold pin of the element and the end cap.

SA1.3 These requirements do not cover heating elements for use in equipment for use in hazardous locations as defined in the National Electrical Code, NFPA 70.

SA1.4 Wherever the terms heating element and element are used in these requirements, they are intended to mean a sheathed heating element as defined in Section 2.4 of this Standard.

SA1.5 The medium in which these elements will be used is to be determined by the end product.

SA2 Glossary

SA2.1 For the purpose of this supplement the following definitions apply in addition to the definitions in the preceding sections of this Standard.

SA2.2 MEDIUM VOLTAGE - Voltages between 601 V and 15,000 V.

Note: National Electrical Code, NFPA 70 defines any voltage above 1000 V as High Voltage.

SA3 Units of Measurement

SA3.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

CONSTRUCTION

SA4 General

SA5 Insulation

SA5.1 The thickness of magnesium oxide (MgO) or other similar insulating material between the resistance element and the inside of the sheath, and the material of an end seal between the terminal pin and the inside of the sheath, shall not be less than the Minimum MgO thickness values specified in Table SA6.1.

SA6 Spacings

SA6.1 Spacings through air and over surface between live parts of opposite polarity, and between live parts and dead metal parts, shall not be less than the values indicated in Table SA6.1.

Table SA6.1

Spacings

<u>Voltage rating, V</u>	<u>Minimum spacings</u>					
	<u>Spacings through air and over surface</u>				<u>Minimum MgO thickness</u>	
	<u>Clearance through</u>		<u>Creepage along</u>			
	<u>in</u>	<u>(mm)</u>	<u>in</u>	<u>(mm)</u>	<u>in</u>	<u>(mm)</u>
<u>2500 max^a</u>	<u>1.0</u>	<u>(25.4)</u>	<u>2.0</u>	<u>(50.8)</u>	<u>0.11</u>	<u>(2.7)</u>
<u>7200 max^a</u>	<u>2.0</u>	<u>(50.8)</u>	<u>3.5</u>	<u>(88.9)</u>	<u>0.20</u>	<u>(5.0)</u>
<u>15,000 max^a</u>	<u>4.0</u>	<u>(102)</u>	<u>7.0</u>	<u>(178)</u>	<u>0.50</u>	<u>(12.8)</u>
<u>^a Because of the effect of configuration, spacings in excess of those indicated may be required to meet performance requirements of this standard.</u>						

SA6.2 Spacings at wiring terminals shall be in accordance with the requirements for the end-use product.

SA7 Components

SA7.1 Wiring shall comply with the Standard for Appliance Wiring Material, UL 758, or the Standard for Medium-Voltage Power Cables, UL 1072, and be suitable for the particular application when considered with respect to the temperature and voltage, and conditions of service to which the wiring is likely to be subjected.

SA7.2 Supplemental Insulation - Where the requirements for supplemental insulation (e.g. tape, sleeving or tubing) are not specified, the insulation or device is required to fulfill SA7.3 or a performance requirement of this Standard. In such cases:

- a) Sleeving shall comply with the Standard for Coated Electrical Sleeving, UL 1441.
- b) Tubing shall comply with the Standard for Extruded Insulating Tubing, UL 224.

SA7.3 In determining whether splice insulation consisting of coated fabric, thermoplastic, or other type of sleeving or tubing is acceptable, consideration is to be given to such factors as the material's dielectric properties, heat-resistant and moisture-resistant characteristics.

SA7.4 End Seals and Insulating bushings - constructed of Phenolic, ceramic, porcelain, and cycloaliphatic epoxies are able to be used without additional temperature evaluation. Other materials shall be used in accordance with their rating established for the intended conditions of use are considered to fulfill the requirements of this Standard.

SA7.5 A component of a product covered by this Standard shall comply with the requirements for that component.

PERFORMANCE

SA8 General

SA8.1 Medium Voltage Sheathed Heating Elements shall be subjected to the test sequence specified in Table SA8.1.

Table SA8.1

Test sequence for Medium Voltage Heating Elements

<u>Number of samples</u>	<u>Test</u>	<u>Paragraph</u>
3	Power Input	SA9.1
	Dielectric	SA10.1
	Resistance to Moisture (7 day Humidity Conditioning)	SA11.1
	Insulation Resistance	11.1 (a)
	Dielectric	SA10.1

SA9 Power Input Test

SA9.1 The Power Input Test of Section 9 is to be conducted.

SA10 Dielectric Voltage-Withstand Test

SA10.1 A heating element shall withstand without breakdown for one minute the application of a 60-hertz essentially sinusoidal potential of the value specified in Table SA10.1 between live parts and exposed dead metal parts in a well heated condition.

Table SA10.1

Test voltages for dielectric voltage-withstand test

<u>Rating of element, volts</u>	<u>Test voltage</u>
601 - 15,000 V	2000 + 2.25 V ^b
^b V is the voltage determined in accordance with 9.2.	

SA11 Resistance to Moisture Test

SA11.1 The Resistance to Moisture Test of Section 11 is to be conducted except for 7 days. The values for the Dielectric Voltage Withstand Test shall be obtained from Table SA10.1.

MANUFACTURING AND PRODUCTION LINE TESTS

SA12 Dielectric Voltage-Withstand Test

SA12.1 The Production Line Dielectric Voltage-Withstand Test of Section 15 shall be conducted with

either the 60-second test or the one-second test and associated voltage potential as specified in Table SA12.1 applied between live and exposed dead metal parts.

Table SA12.1

Production-line test conditions

Method^a	Application time, seconds	Applied potential	
		Volts	Frequency
		Element rating, volts	
		601 - 15,000 V	
2 (single-phase)	60	2000 + 2.25 V ^b	60 Hz
3 (single-phase)	1	2400 + 2.25 V ^b	60 Hz

^a Method 2 is described in 15.3; method 3 is described in 15.5.
^b V is the voltage determined in accordance with 9.2.

RATING

SA13 Details

SA13.1 A heating element shall be rated in volts and volt-amperes or watts. The voltage rating shall be any appropriate single voltage or range of voltage.

MARKING

SA14 Details

SA14.1 Markings as specified in Section 17 apply.

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BSR/UL 1090, Standard for Safety for Electric Snow Blowers

1. Proposed Addition Of Electrostatic Discharge Test Requirements To Determine If Potential Safety Hazards Exist During Operation

SA2.1 A battery-powered snow mover, shall comply with the requirements specified in the Standard for General Requirements for Battery-Powered Appliances, UL 2595, as applicable, and with the conditions and specifications as specified in Indent A of Indent Instructions, Annex D of UL 2595, and as specified in (a) - ~~(g)~~ (h). Items (a) - ~~(g)~~ (h) are in reference to the requirements in the main body of the standard.

a) The requirements in 5.4, 5.9, 5.11, 5.12, 5.15, 5.18, 5.19, 5.21 - 5.24, and Sections 7, 10, 11, 13 - 19, 26 - 29, 31 - 34, 35, 37 - 40, 46 - 48, 51, 55 - 57, do not apply in their entirety.

b) The requirements in 1.1, 4.2 - 4.4, 4.14, 4.19, 4.20, 4.21, 5.2.1, 5.5.2, 5.17.3, 6.1.3, 6.3, 6.4.4 (b), 6.4.6, 8.5 (f), 12.2.2, 12.2.3, 12.3, 44.1, 44.3, 44.4, 45.1, 45.5 - 45.7, 50.2, 50.3, 53.7, 54.1.5(b) - 54.1.5(d), 54.1.6(a) and 54.1.6(b), do not apply.

c) For the requirements in Overcurrent Protection, Section 5.17, the overcurrent protection devices are specified in those cases where a fuse is used to comply with the requirements for Circuit Current Conditions in UL 2595.

d) The requirements in 20.4 and 20.5 as they relate to protective controls are applicable, unless a battery-operated snow mover complies with the requirements for safety critical functions. See SA2.2(f).

e) For the test in 42A.2, the appliance is operated at no-load until the appliance no longer operates due to the battery(ies) being discharged.

~~e) f)~~ The Resistance Impact Tests, Section 44.2 and Section 45.2 apply to a battery-operated snow mover, but the acceptance/compliance criteria of the Mechanical Strength Test in UL 2595 shall be applied.

~~f) g)~~ For the requirements in 50.1 (c), the electrical rating in volts may be applied. Also see 6.2 in UL 2595.

~~g) h)~~ In the application of the requirements in 53.4, the marking only applies to products operating at hazardous voltages and shall be marked to indicate that such servicing or cleaning is to be done with the battery removed or disconnected, or the equivalent.