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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: November 3, 2013

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

#### Addenda

BSR/ASHRAE/USGBC/IES Addendum 189.1aj-201x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2011)

This addendum addresses site sustainability aspects of building projects by addressing site development that mitigates transportation impacts.

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

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

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

#### Addenda

BSR/ASHRAE/USGBC/IES Addendum 189.1aw-201x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2011)

This addendum will increase the range of products and materials that are considered under Section 9.4.1, Reduced Impact Materials.

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

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

### NSF9 (NSF International)

#### Revision

BSR/NSF 50-201x (i56r2), Equipment for Swimming Pools, Spas, Hot Tubs and other Recreational Water Facilities (revision of ANSI/NSF 50-2012)

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

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Mindy Costello, (734) 827-6819, [mcostello@nsf.org](mailto:mcostello@nsf.org)

### NSF9 (NSF International)

#### Revision

BSR/NSF 223-201x (i3r1), Conformity Assessment Requirements for Certification Bodies that Certify Products Pursuant to NSF/ANSI 60: Drinking Water Treatment Chemicals - Health Effects (revision of ANSI/NSF 223-2012)

This Standard establishes minimum requirements for certification bodies to be used when certifying products to NSF/ANSI 60 - Drinking Water Treatment Chemicals - Health Effects. These requirements are supplemental to those contained in ISO Guide 65 or ISO 17020 and do not replace the requirements of either ISO standard. By specifying this Standard, users of product certifications can communicate their expectation that certification activities addressed in this standard are performed in the particular manner described.

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

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

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 1191-201X, Standard for Safety for Components for Personal Flotation Devices (revision of ANSI/UL 1191-2011b)

This 10/4/13 UL 1191 proposal includes changes to the Metal Hardware Exposures for Webbing and Lacing closures and adjusters (Tables 19.2 and 20.1).

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Betty Holthouser, (919) 549-1896, [betty.c.holthouser@ul.com](mailto:betty.c.holthouser@ul.com)

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 1203-201X, Standard for Safety for Explosion-Proof and Dust-Ignition Proof Electrical Equipment (Proposal dated 10-04-13) (revision of ANSI/UL 1203-2009)

This proposal includes revisions to Section 5 per responses to comments.

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

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

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 2580-201x, Batteries for Use In Electric Vehicles (revision of ANSI/UL 2580-2011)

(1) Recirculation of the proposed new edition of the joint UL/ULC Standard for Batteries for Use In Electric Vehicles, UL 2580/ULC-S2580.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Megan VanHeirselee, (847) 664-2881, [Megan.M.VanHeirselee@ul.com](mailto:Megan.M.VanHeirselee@ul.com)

## Comment Deadline: November 18, 2013

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

#### New Standard

BSR/APCO ANS 1.111.1-201x, Public Safety Communications Common Disposition Codes for Data Exchange (new standard)

This document is intended to provide a list of Common Incident Disposition Codes that could be used when disparate PSAPs/authorized agencies are sharing incident information. This standard was drafted, in part, to complement the work being done for the Emergency Incident Data Document (EIDD) that will provide a NIEM conformant data exchange standard for sharing comprehensive incident information. The standard does not require an agency to change any internal codes; it simply provides a list of common codes to which the agency can map their internal data.

Single copy price: Free

Obtain an electronic copy from: [mcduffiec@apointl.org](mailto:mcduffiec@apointl.org)

Order from: Crystal McDuffie, (919) 625-6864, [mcduffiec@apointl.org](mailto:mcduffiec@apointl.org); [standards@apointl.org](mailto:standards@apointl.org)

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

**ASA (ASC S2) (Acoustical Society of America)*****New National Adoption***

BSR/ASA S2.73-201x/ISO 10819:2013, Mechanical Vibration and shock - Hand-arm vibration - Measurement and evaluation of the vibration transmissibility of gloves at the palm of the hand (identical national adoption of ISO 10819:2013)

This Standard specifies a method for the laboratory measurement, data analysis, and reporting of the vibration transmissibility of a glove with a vibration-reducing material that covers the palm, fingers, and thumb of the hand. This Standard specifies vibration transmissibility in terms of vibration transmitted from a handle through a glove to the palm of the hand in one-third-octave frequency bands with center frequencies of 25 Hz to 1,250 Hz.

Single copy price: \$135.00

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

Order from: Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

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

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

BSR/ASHRAE Standard 41.6-201x, Standard Method for Humidity Measurement (revision of ANSI/ASHRAE Standard 41.6-1994 (R2006))

This revision of Standard 41.6-1994 is a result of the completion of ASHRAE research project 1460-RP, "Design Specifications for Wet-Bulb Aspirator Apparatus." Additional updates to this standard include the removal of moist-air properties calculations, the inclusion of uncertainty analysis for humidity measurements, and changes to bring this standard into compliance with ASHRAE's mandatory language and SI (I-P) units' requirements. Also, the standard has been arranged consistent with recently published 41-series standards, which include a classifications section and updated definitions and references.

Single copy price: \$35.00

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

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

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

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

BSR/ASHRAE Standard 120-201x, Method of Testing to Determine Flow Resistance of HVAC Ducts and Fittings (revision of ANSI/ASHRAE Standard 120-2008)

This revision of Standard 120-2008 establishes uniform methods of laboratory testing of HVAC ducts and fittings to determine their resistance to airflow. The fitting losses, which are reported as local loss coefficients, are used to update and refine the ASHRAE Duct Fitting Database.

Single copy price: \$35.00

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

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

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

**ATIS (Alliance for Telecommunications Industry Solutions)*****Reaffirmation***

BSR ATIS 0600329-2008 (R201x), Network Equipment - Earthquake Resistance (reaffirmation of ANSI ATIS 0600329-2008)

This standard, when used with established earthquake qualification practices, sets forth test methods, performance requirements, and acceptance criteria for determining the earthquake resistance of telecommunications equipment.

Single copy price: \$145.00

Obtain an electronic copy from: [kconn@atis.org](mailto:kconn@atis.org)

Order from: Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org); [jpmard@atis.org](mailto:jpmard@atis.org)

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

**ATIS (Alliance for Telecommunications Industry Solutions)*****Reaffirmation***

BSR ATIS 0700711-1999 (R201x), Number Portability for PCS 1900 Short Message Service and Other Services (reaffirmation of ANSI ATIS 0700711-1999 (R2009))

This standard defines the PCS 1900 requirements needed to support Short Message Service and other Services in a Number Portability environment. This standard ensures that Short Message Service Point-to-Point (SMS-PP) works for all subscribers in a PCS 1900 Number Portability environment regardless of whether the subscriber has ported or not.

Single copy price: \$145.00

Obtain an electronic copy from: [kconn@atis.org](mailto:kconn@atis.org)

Order from: Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org); [jpmard@atis.org](mailto:jpmard@atis.org)

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

**ATIS (Alliance for Telecommunications Industry Solutions)*****Revision***

BSR ATIS 0300247-201x, Operations, Administration, Maintenance, and Provisioning (OAM&P) - Performance Management Functional Area Services and Information Mode for Interfaces between Operations Systems and Network Elements (revision of ANSI ATIS 0300247-1998 (R2007))

This American National Standard is part of a series of standards needed to specify the interfaces between Operations Systems (OSs) and Network Elements (NEs). It specifies a Performance Management Information Model needed to facilitate the exchange of performance management information between OSs and NEs when providing Operations, Administration, Maintenance, and Provisioning functions.

Single copy price: \$220.00

Obtain an electronic copy from: [kconn@atis.org](mailto:kconn@atis.org)

Order from: Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org); [jpmard@atis.org](mailto:jpmard@atis.org)

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

## **ATIS (Alliance for Telecommunications Industry Solutions)**

### **Revision**

BSR ATIS 0600010-201x, Temperature, Humidity, & Altitude Standards (revision of ANSI ATIS 0600010-2007)

This standard covers the minimum temperature, humidity, and altitude criteria for telecommunications network equipment to be installed and utilized by service providers in controlled environmental spaces (e.g., Data Centers, Central Offices, Huts, CEVs, and on customer premises). It describes test methodologies and test report criteria necessary for proper evaluation by interested parties, and those intending to deploy equipment in such environments.

Single copy price: \$110.00

Obtain an electronic copy from: [kconn@atis.org](mailto:kconn@atis.org)

Order from: Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org); [jpemard@atis.org](mailto:jpemard@atis.org)

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

## **ATIS (Alliance for Telecommunications Industry Solutions)**

### **Revision**

BSR ATIS 0600307-201x, Fire Resistance Criteria - Ignitability Requirements for Equipment Assemblies, Ancillary Non-Metallic Apparatus, and Fire Spread Requirements for Wire and Cable (revision of ANSI ATIS 0600307-2007)

This standard covers the fire resistance characteristics of equipment assemblies and selected products and materials used within telecommunications network equipment facilities and spaces of similar function. This standard - along with that latest published version of T1.319 (which is T1.319-2002 at the time of this publication) - shall be used as the means of appraising fire risk within a telecommunications network equipment facility or space with similar function.

Single copy price: \$60.00

Obtain an electronic copy from: [kconn@atis.org](mailto:kconn@atis.org)

Order from: Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org); [jpemard@atis.org](mailto:jpemard@atis.org)

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

## **ATIS (Alliance for Telecommunications Industry Solutions)**

### **Withdrawal**

ANSI ATIS 0700721-2003 (R2009), PCS1900 and GSM 850 References - GSM Specifications (Release 99 & Release 4 & GTT) (withdrawal of ANSI ATIS 0700721-2003 (R2009))

This standard provides the North American GSM industry with information on the PCS1900 and GSM 850 technologies to ensure interoperability between equipment. This standard includes the core standards for PCS1900 and GSM 850, which are the Radio Interface, A-Interface, and MAP Specifications; these specifications also provide support for the 3-digit MNC and the Enhanced Full Rate (EFR) Vocoder. This standard also supports features for General Packet Radio Service (GPRS), Enhanced Data Rate for GSM Evolution (EDGE), Number Portability (NP), Customized Application for Mobile Network Enhanced Logic (CAMEL), and Location Services (LCS).

Single copy price: \$110.00

Obtain an electronic copy from: [kconn@atis.org](mailto:kconn@atis.org)

Order from: Kerriane Conn, (202) 434-8841, [kconn@atis.org](mailto:kconn@atis.org); [jpemard@atis.org](mailto:jpemard@atis.org)

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

## **BPI (Building Performance Institute)**

### **New Standard**

BSR/BPI 1100-T-201x, Home Energy Auditing Standard (new standard)

This standard practice defines the minimum criteria for conducting a building-science-based energy audit of existing detached single-family dwellings and townhouses that meet certain criteria. The energy audit will address energy usage, and limited aspects of building durability and occupant health and safety. The energy audit will provide a comprehensive report with a list of prioritized recommendations to improve the home and will include a cost-benefit analysis.

Single copy price: Free

Obtain an electronic copy from: [standards@bpi.org](mailto:standards@bpi.org) (A link is provided on the bpi.org website for document download and to submit comments.)

Order from: Susan Carson, (877) 274-1274, [scarson@bpi.org](mailto:scarson@bpi.org); [standards@bpi.org](mailto:standards@bpi.org)

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

## **BPI (Building Performance Institute)**

### **New Standard**

BSR/BPI 1200-S-201x (formerly BPI-109), Standard Practice for Basic Analysis of Buildings (new standard)

Defines the minimum criteria for conducting building-science-based inspections and diagnostic testing of existing detached single-family dwellings and townhouses that meet certain criteria. The building evaluation will address energy usage, and limited aspects of building durability and occupant health and safety. This standard parallels ANSI/BSR BPI-1100-T-201x, Home Energy Auditing Standard and provides specific procedures regarding how to meet the requirements detailed in BPI-1100-T.

Single copy price: Free

Obtain an electronic copy from: [standards@bpi.org](mailto:standards@bpi.org) (Link posted on BPI.org for document download and to submit comments)

Order from: Susan Carson, (877) 274-1274, [scarson@bpi.org](mailto:scarson@bpi.org); [standards@bpi.org](mailto:standards@bpi.org)

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

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

### **New National Adoption**

BSR/ISO/MSE 50002-201x, Energy audits (identical national adoption of ISO 50002)

This Standard defines the requirements, common methodology, and deliverables for energy audits in relation to energy performance. This Standard applies to all forms of establishments and organizations, as well as all forms of energy and uses of energy.

Obtain an electronic copy from: [Moon.Kim@gtri.gatech.edu](mailto:Moon.Kim@gtri.gatech.edu)

Order from: Moon Kim, (404) 407-6404, [Moon.Kim@gtri.gatech.edu](mailto:Moon.Kim@gtri.gatech.edu)

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

**GTESS (Georgia Tech Energy & Sustainability Services)*****New National Adoption***

BSR/ISO/MSE 50003-201x, Energy management systems - Requirements for bodies providing audit and certification of energy management systems (identical national adoption of ISO 50003)

This International Standard is intended to be used in conjunction with ISO/IEC 17021-2011. This International Standard provides additional requirements reflecting the specific technical area of energy management systems (EnMS) needed to assure the effectiveness of the audit and the certification.

Obtain an electronic copy from: Moon.Kim@gtri.gatech.edu

Order from: Moon Kim, (404) 407-6404, Moon.Kim@gtri.gatech.edu

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

**GTESS (Georgia Tech Energy & Sustainability Services)*****New National Adoption***

BSR/ISO/MSE 50015-201x, Measurement and verification of organizational energy performance - General principles and guidance (identical national adoption of ISO CD 50015)

The purpose of this International Standard is to establish a common set of principles and guidelines to be used for measurement and verification of organizational energy performance. This International Standard does not specify calculation methods or methodology.

Obtain an electronic copy from: Moon.Kim@gtri.gatech.edu

Order from: Moon Kim, (404) 407-6404, Moon.Kim@gtri.gatech.edu

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

**IAPMO (Z) (International Association of Plumbing & Mechanical Officials)*****New Standard***

BSR/CSA B45.12/IAPMO Z402-201x, Aluminum and copper plumbing fixtures (new standard)

This Standard covers aluminum and copper plumbing fixtures and specifies requirements for materials, construction, performance, testing, and markings of these fixtures. This Standard covers the following plumbing fixtures:

- (a) bathtubs and combination tub/showers;
- (b) lavatories;
- (c) shower bases and shower stalls; and
- (d) sinks, such as:
  - (i) bar sinks;
  - (ii) kitchen sinks;
  - (iii) laundry sinks;
  - (iv) service sinks; and
  - (v) drinking fountains.

Single copy price: \$75.00

Obtain an electronic copy from: standards@IAPMOstandards.org

Order from: Abraham Murra, (909) 472-4106, abraham.murra@IAPMOstandards.org

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

**ISA (ISA)*****Revision***

BSR/ISA 75.10.01-201x, General Requirements for Clamp or Pinch Valves (revision of ANSI/ISA 75.10.01-2008)

This document applies to valves, sizes 1 inch through 26 inches, of the clamp or pinch valve design, incorporating clamp or pinch elements.

Single copy price: \$40.00

Obtain an electronic copy from: ebrazda@isa.org

Order from: Eliana Brazda, (919) 990-9228, ebrazda@isa.org

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

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

INCITS/ISO/IEC 19794-9:2011/Cor 1:2012, Information technology - Biometric data interchange formats - Part 9: Vascular image data - Technical Corrigendum 1 (identical national adoption of ISO/IEC 19794-9:2011/Cor 1:2012)

This is the first corrigendum to ISO/IEC 19794-9:2011 that specifies an image interchange format for biometric person identification or verification technologies that utilize human vascular biometric images and can be used for the exchange and comparison of vascular image data. It specifies a data record interchange format for storing, recording, and transmitting vascular biometric information from one or more areas of the human body. It defines the contents, format, and units of measurement for the image exchange, etc.

Single copy price: Free

Obtain an electronic copy from: <http://www.incits.org> or <http://webstore.ansi.org>

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

Send comments (with copy to psa@ansi.org) to: Barbara Bennett, (202) 626-5743, [comments@itic.org](mailto:comments@itic.org)

**NECA (National Electrical Contractors Association)*****New Standard***

BSR/NECA 503-201x, Standard for Installing Fiber Optic Lighting Systems (new standard)

This standard describes installation procedures for glass fiber optics lighting systems.

Single copy price: \$40.00

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

Order from: Diana Brioso, (301) 215-4549, [diana.brioso@necanet.org](mailto:diana.brioso@necanet.org); [neis@necanet.org](mailto:neis@necanet.org)

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

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

### **Revision**

BSR/NEMA WC53/ICEA T-27-581-2013, Standard Test Methods for Extruded Dielectric Power, Control, Instrumentation, and Portable Cables (revision and redesignation of ANSI/NEMA WC53/ICEA T-27-581-2013)

This Standard applies to the testing of extruded dielectric insulated power, control, instrumentation and portable cables.

Single copy price: \$138.00

Obtain an electronic copy from: [http://workspaces.nema.org/ansi/stds/Shared%20Documents/C8/T-27-581\\_WC%2053-2013/\(A\)%20ANSI%20Forms%20and%20Information%20to%20ANSI/2013%20revised%20NEMA%20WC53%20Standard%20Sept%202013.pdf](http://workspaces.nema.org/ansi/stds/Shared%20Documents/C8/T-27-581_WC%2053-2013/(A)%20ANSI%20Forms%20and%20Information%20to%20ANSI/2013%20revised%20NEMA%20WC53%20Standard%20Sept%202013.pdf)

Order from: Ryan Franks, (703) 841-3271, [ryan.franks@nema.org](mailto:ryan.franks@nema.org)

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

## **NSF9 (NSF International)**

### **Revision**

BSR/NSF 50-201x (i47r3), Equipment for Swimming Pools, Spas, Hot Tubs and other Recreational Water Facilities (revision of ANSI/NSF 50-2012)

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

Single copy price: Free

Obtain an electronic copy from: [http://standards.nsf.org/apps/group\\_public/document.php?document\\_id=21622&wg\\_abbrev=jc\\_rwf](http://standards.nsf.org/apps/group_public/document.php?document_id=21622&wg_abbrev=jc_rwf)

Order from: Mindy Costello, (734) 827-6819, [mcostello@nsf.org](mailto:mcostello@nsf.org)

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

## **OPEI (Outdoor Power Equipment Institute)**

### **Addenda**

BSR/OPEI B175.2-2012/A1-201x, Internal Combustion Engine-Powered Handheld and Backpack Blowers and Blower-Vacuums - Safety Requirements and Performance Testing Procedures - Amendment 1 (addenda to ANSI/OPEI B175.2-2012)

Addenda to address revisions to Implementation Terms and Standard Identification in Scope, Probe Test for Power Driven Components, Probe Test for Hot Surfaces, UV Resistance, Equivalent Vibration Equation and Performance Testing Procedures of ANSI/OPEI B175.2-2012.

Single copy price: N/A - Addenda to be provided free of charge with standard purchase

Obtain an electronic copy from: [gknott@opei.org](mailto:gknott@opei.org)

Order from: OPEI

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Greg Knott, (703) 549-7600, [gknott@opei.org](mailto:gknott@opei.org)

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

### **Revision**

BSR/SCTE 39-201x, Test Method for Static Minimum Bending Radius for Coaxial Trunk, Feeder, and Distribution Cables (revision of ANSI/SCTE 39-2002 (R2007))

This test procedure is to be used for initially establishing or alternatively verifying the minimum static bend radius for coaxial distribution cable products. This procedure establishes the methodology to be used in the determination of a minimum bend radius as well as establishing acceptance criteria by which products can be tested or compared.

Single copy price: \$50.00

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

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

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

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

### **New Standard**

BSR/TAPPI T 825 om-201x, Flat crush test of corrugated board (rigid support method) (new standard)

The flat crush test is a measure of the resistance of the flutes in corrugated board to a crushing force applied perpendicular to the surface of the board under prescribed conditions. The test is satisfactory for single-faced or single-wall (double-faced) corrugated board, but not for double-wall or triple-wall corrugated board, because of lateral motion of the central facing or facings.

Single copy price: Free

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

Order from: Charles Bohanan, (770) 209-7276, [standards@tappi.org](mailto:standards@tappi.org)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Charles Bohanan, (770) 209-7276, [standards@tappi.org](mailto:standards@tappi.org)

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

### **New Standard**

BSR/TAPPI T 843 om-201x, Fluted edge crush of corrugating medium (rigid support method) (new standard)

This test evaluates the ability of corrugating medium to contribute to the compression strength of a corrugated box. It is a procedure for measuring the edgewise compression strength of a laboratory-fluted strip of corrugating medium in a direction parallel to the fluted tips.

Single copy price: Free

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

Order from: Charles Bohanan, (770) 209-7276, [standards@tappi.org](mailto:standards@tappi.org)

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

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

BSR/TIA 470.112-201x, Telecommunications - Telephone Terminal Equipment - Transmission Requirements for Wideband Analog Telephones with Handsets (new standard)

This document addresses the wideband (150 to 7000 Hz) voice transmission requirements specific to analog telephones equipped with handsets.

Single copy price: \$112.00

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

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

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

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

BSR/UL 38-2005 (R201x), Standard for Safety for Standard for Manual Signaling Boxes for Fire Alarm Systems (reaffirmation of ANSI/UL 38-2005 (R2008))

Reaffirmation of current ANS, which covers manual signaling boxes for fire alarm systems intended for permanent installation and use in ordinary locations in accordance with the National Electrical Code, NFPA 70, and the National Fire Alarm Code, NFPA 72.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

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

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

BSR/UL 1441-2005 (R201x), Standard for Safety for Coated Electrical Sleeving (reaffirmation of ANSI/UL 1441-2005 (R2009))

Reaffirmation of the Standard for Coated Electrical Sleeving, UL 1441.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Danielle Tremblay, (919) 549-1309, [Danielle.Tremblay@ul.com](mailto:Danielle.Tremblay@ul.com)

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

BSR/UL 498-201x, Standard for Safety for Attachment Plugs and Adapters (revision of ANSI/UL 498-2013a)

(1) Revision to the Grounding Contact Test requirements for consistency with CSA C22.2 No. 42.

(2) Proposed Supplement SG - Recessed Outlet Kit Assembly.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

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

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

BSR/UL 1447-201x, Standard for Safety for Electric Lawn Mowers (revision of ANSI/UL 1447-2013)

This proposal covers the removal of the Thrown Object Test in Section 69 due to duplication in ANSI B71.1.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Dale Ivery, (919) 549-0989, [Dale.Ivery@ul.com](mailto:Dale.Ivery@ul.com)

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

BSR/UL 2108-201x, Standard for Safety for Low Voltage Lighting Systems (revision of ANSI/UL 2108-2011)

- Revise electric shock limits to DC voltages up to 60 V;
- Revise polymeric enclosure requirements;
- Revise branch circuit protection level requirements;
- Revise Input Test; Add requirements for luminaires intended for storage space of closet;
- Revise normal temperature test method;
- Clarify marking requirements;
- Revise power unit installation instructions;
- Clarify Class 2 and Exposed Bare Conductor Luminaires requirements;
- Add Luminaire Component Fault Test;
- Clarify requirements for concealed supply connections;
- Revise lamp replacement markings;
- Add marking requirements for Class 2 and other luminaires intended for air-handling spaces;
- Add reference to UL 1598; and
- Miscellaneous revisions.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Ritu Madan, 847-664-3297, [ritu.madan@ul.com](mailto:ritu.madan@ul.com)

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

BSR/UL 60730-2-2-201X, Standard for Automatic Electrical Controls for Household and Similar Use; Part 2: Particular Requirements for Thermal Motor Protectors (revision of ANSI/UL 60730-2-2-2010)

This proposal revises the requirements covering the endurance test and adds deviation and drift requirements to provide a performance/reliability benchmark for thermal motor protectors when tested to the manufacturer's declared electrical and thermal rating.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Alan McGrath, (847) 664-3038, [alan.t.mcgrath@ul.com](mailto:alan.t.mcgrath@ul.com)

## Projects Withdrawn from Consideration

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

### ASTM (ASTM International)

BSR/ASTM D3679-201x, Specification for Rigid Poly(Vinyl Chloride) (PVC) Siding (revision of ANSI/ASTM D3679-2011)

### ASTM (ASTM International)

BSR/ASTM D3841-201x, Specification for Glass-Fiber-Reinforced Polyester Plastic Panels (revision of ANSI/ASTM D3841-2001 (R2008))

### ASTM (ASTM International)

BSR/ASTM D4726-201x, Specification for Rigid Poly(Vinyl Chloride) (PVC) Exterior-Profile Extrusions Used for Assembled Windows and Doors (revision of ANSI/ASTM D4726-2009)

### ASTM (ASTM International)

BSR/ASTM D7793-201x, Specification for Insulated Vinyl Siding (revision of ANSI/ASTM D7793-2012)

### ASTM (ASTM International)

BSR/ASTM F405-201x, Specification for Corrugated Polyethylene (PE) Pipe and Fittings (revision of ANSI/ASTM F405-2005)

### ASTM (ASTM International)

BSR/ASTM F2788-201x, Specification for Metric-sized Crosslinked Polyethylene (PEX) Pipe (revision of ANSI/ASTM F2788-2011)

### ASTM (ASTM International)

BSR/ASTM F2795-201x, Test Method for Performance of Self-Contained Soft Serve and Shake Machines (revision of ANSI/ASTM F2795-2011)

### ASTM (ASTM International)

BSR/ASTM WK23226-201x, Specification for Multilayer Polyethylene-Polyamide (PE-PA) Pipe for Pressure Piping Applications (new standard)

### ASTM (ASTM International)

BSR/ASTM WK28668-201x, Specification for Loose-Fill Rubber for Use as a Playground Safety Surface under and around Playground Equipment (new standard)

### ASTM (ASTM International)

BSR/ASTM WK30983-201x, New Test Method for Cyclic Pressure Time to Failure for Thermoplastic Pipe (new standard)

### ASTM (ASTM International)

BSR/ASTM WK33352-201x, Specification for Black Crosslinked Polyethylene (PEX) Pipe, Fittings and Joints for Gas Distribution Applications (new standard)

### PLASA (PLASA North America)

BSR E1.49-201x, DMX512 Extensions for Architectural Lighting (new standard)

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

BSR/TAPPI T 577 om-201x, Score bend test (new standard)

### UL (Underwriters Laboratories, Inc.)

BSR/UL 2250-201x, Standard for Safety for Instrumentation Tray Cable (revision of ANSI/UL 2250-2009a)

### UL (Underwriters Laboratories, Inc.)

BSR/UL 2250-201x, Standard for Safety for Instrumentation Tray Cable (revision of ANSI/UL 2250-2009a)

## Correction

### Incorrect Listings

### SCTE 143 and SCTE 136-2

SCTE 143 and SCTE 136-2 were mistakenly listed in the Call-for Comment section of the September 20, 2013 edition of Standards Action. These drafts are not available for review and comment. Revisions of both standards received public reviews earlier in 2013 and were recently approved and announced in Final Actions, September 27, 2013.



# 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.

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## AIAA (American Institute of Aeronautics and Astronautics)

**Office:** 1801 Alexander Bell Drive  
Suite 500  
Reston, VA 20191-4344

**Contact:** Amy Barrett

**Phone:** 703-264-7546

**E-mail:** AmyB@aiaa.org

BSR/AIAA-S-120A-201x, Mass Properties Control for Space Systems  
(new standard)

## ASA (ASC S2) (Acoustical Society of America)

**Office:** 35 Pinelawn Road  
Suite 114E  
Melville, NY 11747

**Contact:** Susan Blaeser

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

**Fax:** (631) 390-0217

**E-mail:** sbleser@aip.org; asastds@aip.org

BSR/ASA S2.73-201x/ISO 10819:2013, Mechanical Vibration and shock  
- Hand-arm vibration - Measurement and evaluation of the vibration  
transmissibility of gloves at the palm of the hand (identical national  
adoption of ISO 10819:2013)

## ASA (ASC S3) (Acoustical Society of America)

**Office:** 35 Pinelawn Road  
Suite 114E  
Melville, NY 11747

**Contact:** Susan Blaeser

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

**Fax:** (631) 390-0217

**E-mail:** sbleser@aip.org; asastds@aip.org

BSR/ASA S3.55-201X/Part 3 /IEC 60318-3:201x, Electroacoustics -  
Simulators of human head and ear - Part 3: Acoustic coupler for the  
calibration of supra-aural earphones used in audiometry (identical  
national adoption of IEC 60318-3 Ed.2.0: 201x)

BSR/ASA S3.55-201X/Part 1/IEC 60318-1:2009, Electroacoustics -  
Simulators of Human Head and Ear - Part 1: Ear simulator for the  
measurement of supra-aural and circumaural earphones (identical  
national adoption of IEC 60318-1 Ed.2.0 b: 2009)

BSR/ASA S3.55-201X/Part 5 /IEC 60318-5:2006, Electroacoustics -  
Simulators of Human Head and Ear - Part 5: 2 cm<sup>3</sup> coupler for the  
measurement of hearing aids and earphones coupled to the ear by  
means of ear inserts (identical national adoption of IEC 60318-5  
Ed.1.0 b: 2006)

## ASQ (American Society for Quality)

**Office:** 600 N Plankinton Ave  
Milwaukee, WI 53201

**Contact:** Julie Sharp

**Phone:** (414) 272-8575

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

BSR/ASQ E4-201x, Quality Management Systems for Environmental  
Information and Technology Programs - Requirements with Guidance  
for Use (revision of ANSI/ASQ E4-2004)

## CSA (CSA Group)

**Office:** 8501 E. Pleasant Valley Road  
Cleveland, OH 44131

**Contact:** David Zimmerman

**Phone:** (216) 524-4990

**Fax:** (216) 520-8979

**E-mail:** david.zimmerman@csagroup.org

BSR/CSA LNG 3.1-201x, Fuel System Components for Liquefied  
Natural Gas Powered Vehicles (new standard)

BSR/CSA LNG 4.3-201x, Temperature Compensation Devices for  
Liquefied Natural Gas Dispensing Systems (new standard)

BSR/CSA LNG 4.11-201x, Odorizer for Liquefied Natural Gas  
Dispensing Systems (new standard)

## ISA (ISA)

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

**Contact:** Eliana Brazda

**Phone:** (919) 990-9228

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

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

BSR/ISA 75.10.01-201x, General Requirements for Clamp or Pinch  
Valves (revision of ANSI/ISA 75.10.01-2008)

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

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

**Contact:** *Barbara Bennett*

**Phone:** (202) 626-5743

**Fax:** (202) 638-4922

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

INCITS/ISO/IEC 19794-2:2011/Cor 1:2012, Information technology -- Biometric data interchange formats -- Part 2: Finger minutiae data - Technical Corrigendum 1 (identical national adoption of ISO/IEC 19794-2:2011/Cor 1:2012)

INCITS/ISO/IEC 19794-4:2011/Cor 1:2012, Information technology -- Biometric data interchange formats -- Part 4: Finger image data - Technical Corrigendum 1 (identical national adoption of ISO/IEC 19794-4:2011/Cor 1:2012)

INCITS/ISO/IEC 19794-4:2011/Amd 1:2013, Information technology -- Biometric data interchange formats -- Part 4: Finger image data - Amendment 1: Conformance testing methodology and clarification of defects (identical national adoption of ISO/IEC 19794-4:2011/Amd 1:2013)

INCITS/ISO/IEC 19794-6:2011/Cor 1:2012, Information technology - Biometric data interchange formats - Part 6: Iris image data - Technical Corrigendum 1 (identical national adoption of ISO/IEC 19794-6:2011/Cor 1:2012)

INCITS/ISO/IEC 19794-9:2011/Cor 1:2012, Information technology - Biometric data interchange formats - Part 9: Vascular image data - Technical Corrigendum 1 (identical national adoption of ISO/IEC 19794-9:2011/Cor 1:2012)

INCITS/ISO/IEC 29109-1:2009/Cor 1:2010, Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 1: Generalized conformance testing methodology - Technical Corrigendum 1 (identical national adoption of ISO/IEC 29109-1:2009/Cor 1:2010)

**NECA (National Electrical Contractors Association)**

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

**Contact:** *Diana Briosio*

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

**Fax:** (301) 215-4500

**E-mail:** diana.briosio@necanet.org; neis@necanet.org

BSR/NECA 102-201x, Standard for Installing Aluminum Rigid Metal Conduit (revision of ANSI/NECA 102-2004)

BSR/NECA 503-201x, Standard for Installing Fiber Optic Lighting Systems (revision of ANSI/NECA 503-201x)

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

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

**Contact:** *Charles Bohanan*

**Phone:** (770) 209-7276

**Fax:** (770) 446-6947

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

BSR/TAPPI T 278 sp-201x, Pulp screening (Valley-type screening device) (new standard)

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

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

**Contact:** *Paul Lloret*

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

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

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

BSR/UL 38-2005 (R201x), Standard for Safety for Standard for Manual Signaling Boxes for Fire Alarm Systems (reaffirmation of ANSI/UL 38-2005 (R2008))

BSR/UL 2108-201x, Standard for Safety for Low Voltage Lighting Systems (revision of ANSI/UL 2108-2011)

BSR/UL 60730-2-2-201X, Standard for Automatic Electrical Controls for Household and Similar Use; Part 2: Particular Requirements for Thermal Motor Protectors (revision of ANSI/UL 60730-2-2-2010)

# 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.

## **ABMA (American Brush Manufacturers Association)**

### **Revision**

- \* ANSI B165.1-2013, Power Driven Brushing Tools - Safety Requirements for Design, Care and Use (revision of ANSI B165.1-2005): 9/30/2013

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

### **Withdrawal**

ANSI/AGMA 2005-D03, Design Manual for Bevel Gears (withdrawal of ANSI/AGMA 2005-D03 (R2008)): 10/1/2013

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

### **New Standard**

ANSI/AHRI Standard 1110 (I-P)-2013, Performance Rating of Mechanical Transport Refrigeration Units (new standard): 9/30/2013  
 ANSI/AHRI Standard 1111 (SI)-2013, Performance Rating of Mechanical Transport Refrigeration Units (new standard): 9/30/2013  
 ANSI/AHRI Standard 1300 (I-P)-2013, Performance Rating of Commercial Heat Pump Water Heaters (new standard): 9/30/2013  
 ANSI/AHRI Standard 1301 (SI)-2013, Performance Rating of Commercial Heat Pump Water Heaters (new standard): 9/30/2013

### **Revision**

ANSI/AHRI Standard 1200 (I-P)-2013, Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets (revision of ANSI/AHRI Standard 1200-2010): 10/1/2013  
 ANSI/AHRI Standard 1201 (SI)-2013, Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets (revision of ANSI/AHRI Standard 1201-2010): 10/1/2013  
 ANSI/AHRI Standard 1210 (I-P)-2011 with Addendum 1, Performance Rating of Variable Frequency Drives (revision, redesignation and consolidation of ANSI/AHRI Standard 1210-2011): 10/1/2013  
 ANSI/AHRI Standard 1211 (SI)-2011 with Addendum 1, Performance Rating of Variable Frequency Drives (revision of ANSI/AHRI Standard 1210-2011): 10/1/2013

## **AIAA (American Institute of Aeronautics and Astronautics)**

### **New Standard**

ANSI/AIAA S-115-2013, Low Earth Orbit Spacecraft Charging Design Standard Requirement and Associated Handbook (new standard): 9/26/2013

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

### **Revision**

ANSI/APCO ANS 1.103.2-2013, Wireless 9-1-1 Deployment & Management Effective Practices Guide (revision and redesignation of ANSI/APCO ANS 1.103.1-2008): 9/27/2013

## **ASB (ASC Z50) (American Society of Baking)**

### **Revision**

ANSI/ASB Z50.2-2013, Bakery Equipment - Sanitation Standards (revision and redesignation of ANSI Z50.2-2012): 9/30/2013

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

### **Reaffirmation**

ANSI/ASME B29.400-2001 (R2013), Combination, "H" Type Mill Chains and Sprockets (reaffirmation of ANSI/ASME B29.400-2001 (R2008)): 9/26/2013

### **Revision**

ANSI/ASME QE1-1-2013, Standard for the Qualification of Elevator Inspectors (revision of ANSI/ASME QE1-1-2010): 9/27/2013

## **ASQ (ASC Z1) (American Society for Quality)**

### **Reaffirmation**

ANSI/ASQ Z1.4-2003 (R2013), Sampling Procedures and Tables for Inspection by Attributes (reaffirmation of ANSI/ASQ Z1.4-2003 (R2008)): 10/1/2013  
 ANSI/ASQ Z1.9-2003 (R2013), Sampling procedures and tables for inspection by variables for percent nonconforming (reaffirmation of ANSI/ASQ Z1.9-2003 (R2008)): 10/1/2013

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

### **Revision**

ANSI/AWWA D110-2013, Wire- and Strand-Wound, Circular, Prestressed Concrete Water Tanks (revision of ANSI/AWWA D110-2004): 9/30/2013

## **ECA (Electronic Components Association)**

### **New Standard**

ANSI/EIA 364-49-2013, Ultraviolet Radiation Test Procedure for Electrical Connectors and Sockets (new standard): 9/27/2013

## **EOS/ESD (ESD Association, Inc.)**

### **Reaffirmation**

ANSI/ESD SP 5.3.2-2004 (R2013), ESD Association Standard Practice for Electrostatic Discharge Sensitivity Testing - Socketed Device Model (SDM) - Component Level (reaffirmation of ANSI/ESD SP 5.3.2-2004 (R2008)): 9/30/2013

### **Revision**

ANSI/ESD SP 5.2.1-2013, ESD Association Standard Practice for Electrostatic Discharge Sensitivity Testing - Machine Model (MM) Alternative Test Method: Supply Pin Ganging - Component Level (revision and redesignation of ANSI/ESD SP5.1.1-2006): 9/30/2013

## **HPS (ASC N13) (Health Physics Society)**

### **New Standard**

ANSI N13.22-2013, Bioassay Program for Uranium (new standard): 9/30/2013

## **IAPMO (Z) (International Association of Plumbing & Mechanical Officials)**

### **Revision**

- \* ANSI/IAPMO Z1000-2013, Prefabricated Septic Tanks (revision of ANSI/IAPMO Z1000-2006): 9/30/2013
- \* ANSI/IAPMO Z1001-2013, Prefabricated Gravity Grease Interceptors (revision of ANSI/IAPMO Z1001-2006): 9/30/2013

**ISA (ISA)****New Standard**

ANSI/ISA 92.00.02-2013, Installation, Operation, and Maintenance of Toxic Gas-Detection Instruments (new standard): 9/30/2013

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

ANSI INCITS 504-4-2013, Information Technology - Generic Identity Command Set Part 4: Card Application Profile Template (new standard): 9/26/2013

**ITSDF (Industrial Truck Standards Development Foundation, Inc.)****Reaffirmation**

ANSI/ITSDF B56.11.6-2005 (R2013), Evaluation of Visibility from Powered Industrial Trucks (reaffirmation of ANSI/ITSDF B56.11.6-2005): 9/26/2013

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

ANSI/MSS SP-25-2013, Standard Marking System for Valves, Fittings, Flanges, and Unions (new standard): 9/26/2013

**NEMA (ASC C8) (National Electrical Manufacturers Association)****New Standard**

ANSI/NEMA HP 5-2013, Electrical and Electronic Crosslinked, Modified Polyethylene (XLPE) Insulated, 125 C Hook-UP Wire, Types L (600 V), LL (1000 V), and LX (3000 V) (new standard): 9/26/2013

ANSI/NEMA WC 55021-2013, Standard for Military Internal Electrical Cable (new standard): 10/1/2013

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

ANSI/RVIA EGS-1-2013, Engine Generator Sets for Recreational Vehicle Requirements (revision of ANSI/RVIA EGS-1-2008): 9/26/2013

**SPI (The Society of the Plastics Industry, Inc.)****New Standard**

ANSI/SPI B151.20-2013, Safety Requirements for Plastic Sheet Production Machinery (new standard): 9/30/2013

**Revision**

ANSI/SPI B151.27-2013, Safety Requirements for the Integration of Robots with Injection Molding Machines (revision of ANSI/SPI B151.27-2003): 9/30/2013

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

ANSI/TIA 455-204-A-2013, FOTP-204 - Measurement of Bandwidth on Multimode Fiber (identical national adoption of IEC 60793-1-41): 10/1/2013

**New Standard**

ANSI/TIA 102.BAED-2013, Packet Data Logical Link Control Procedures (new standard): 9/26/2013

ANSI/TIA 102.BAEJ-2013, Conventional Management Service Specification for Packet Data (new standard): 9/27/2013

ANSI/TIA 136-350-C-2013, TDMA Third Generation Wireless - Data Service Control (new standard): 9/27/2013

**Reaffirmation**

ANSI/TIA 455-123-2000 (R2013), Measurement of Optical Fiber Ribbon Dimensions (reaffirmation of ANSI/TIA 455-123-2000 (R2005)): 9/30/2013

ANSI/TIA 455-192-1999 (R2013), H-Parameter Test Method for Polarization-Maintaining Optical Fiber (reaffirmation of ANSI/TIA 455-192-1999 (R2005)): 9/30/2013

ANSI/TIA 455-193-1999 (R2013), Polarization Crosstalk Method for Polarization-Maintaining Optical Fiber and Component (reaffirmation of ANSI/TIA 455-193-1999 (R2005)): 9/30/2013

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

ANSI/UL 1989-2013, Standby Batteries (new standard): 10/2/2013

ANSI/UL 1989-2013a, Standby Batteries (new standard): 10/2/2013

**Reaffirmation**

ANSI/UL 147B-2008 (R2013), Standard for Safety for Nonrefillable (Disposable) Type Metal Container Assemblies for Butane (reaffirmation of ANSI/UL 147B-2008): 9/27/2013

ANSI/UL 147A-2009 (R2013), Standard for Safety for Nonrefillable (Disposable) Type Fuel Gas Cylinder Assemblies (reaffirmation of ANSI/UL 147A-2009): 9/25/2013

**Revision**

ANSI/UL 746E-2013b, Standard for Safety for Polymeric Materials - Industrial Laminates, Filament Wound Tubing, Vulcanized Fibre, and Materials Used in Printed-Wiring Boards (revision of ANSI/UL 746E-2012): 9/30/2013

ANSI/UL 746E-2013c, Standard for Safety for Polymeric Materials - Industrial Laminates, Filament Wound Tubing, Vulcanized Fibre, and Materials Used In Printed-Wiring Boards (revision of ANSI/UL 746E-2013a): 9/30/2013

ANSI/UL 1004-1-2013, Standard for Safety for Rotating Electrical Machines - General Requirements (Proposal dated 2/1/13)) (revision of ANSI/UL 1004-1-2012): 9/25/2013

ANSI/UL 1004-1-2013a, Standard for Safety for Rotating Electrical Machines - General Requirements (Proposal dated 4-5-13) (revision of ANSI/UL 1004-1-2012): 9/25/2013

ANSI/UL 2225-2013, Standard for Safety for Cables and Cable-Fittings for Use in Hazardous (Classified) Locations (Proposal dated 04-19-13) (revision of ANSI/UL 2225-2011): 9/30/2013

ANSI/UL 2225-2013a, Standard for Safety for Cables and Cable-Fitting for Use in Hazardous (Classified) Locations (Proposal dated 06-28-13) (revision of ANSI/UL 2225-2011): 9/30/2013

\* ANSI/UL 2738-2013, Standard for Safety for Induction Power Transmitters and Receivers for use with Low Energy Products (Proposal dated 8-9-13) (revision of ANSI/UL 2738-2011): 9/30/2013

ANSI/UL 8752-2013, Standard for Safety for Organic Light Emitting Diode (OLED) Panels (revision of ANSI/UL 8752-2012a): 9/30/2013

# Project Initiation Notification System (PINS)

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

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

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

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

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BSR/AAMI/ISO 80369-1-201x, Small-bore connectors for liquids and gases in healthcare applications - Part 1: General requirements (revision of ANSI/AAMI/ISO 80369-1-2010)

Stakeholders: Small-bore connectors manufacturers.

Project Need: Addresses the following: (1) ambiguity regarding one design per application, (2) testing for connection as well as misconnection, (3) these are not device standards, and (4) proprietary connectors.

This part of ISO 80369 specifies general requirements for material properties, assessment of incompatibility and the allocation of applications for small-bore connectors, used in medical devices or accessories that convey liquids or gases to or from a patient. This International Standard also specifies the healthcare fields in which these small-bore connectors are intended to be used. These applications of use include, but are not limited to, applications for:

- respiratory;
- enteral and gastric;
- urethral and urinary;
- limb cuff inflation;
- neuraxial; and
- intravascular or hypodermic.

## **AIAA (American Institute of Aeronautics and Astronautics)**

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BSR/AIAA-S-120A-201x, Mass Properties Control for Space Systems (new standard)

Stakeholders: The US government; Society of Allied Weight Engineers (SAWE-Update of SAWE RP-11C); new contracts for satellite, launch vehicle, and space system contractors.

Project Need: Mass is a critical resource within the Space Systems community, fungible with cost and schedule resources. As new participants enter into space system community, this revision unifies the AIAA standard and SAWE Recommended Practices, adds relevant content, and elevates the standard to ANSI.

This standard contains mass control requirements for space system development and refers to recommended practices in a partner document SAWE RP-11. Included are requirements for mass control terminology; dry-mass estimating factors; mass properties reporting and monitoring; and mass properties testing, verification, and validation.

## **ASA (ASC S3) (Acoustical Society of America)**

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BSR/ASA S3.55-201X/Part 3 /IEC 60318-3:201x, Electroacoustics - Simulators of human head and ear - Part 3: Acoustic coupler for the calibration of supra-aural earphones used in audiometry (identical national adoption of IEC 60318-3 Ed.2.0: 201x)

Stakeholders: Hearing-aid manufacturers, telecom manufacturers, consumer headphone and earphone manufacturers, audiologists, acoustical researchers.

Project Need: This national adoption will promote harmonization and eliminate possible confusion between American National Standards and related IEC standards.

This part of IEC 60318 specifies an acoustic coupler for the measurement of supra-aural audiometric earphones in the frequency range from 125 Hz to 8,000 Hz. The sound pressure developed by an earphone is not the same in the coupler as in a person's ear. The acoustic coupler can be used as an objective and reproducible means of measuring the output of supra-aural headphones. It can be used for specifying reference-equivalent threshold sound pressure levels for the calibration of audiometers.

BSR/ASA S3.55-201X/Part 1/IEC 60318-1:2009, Electroacoustics - Simulators of Human Head and Ear - Part 1: Ear simulator for the measurement of supra-aural and circumaural earphones (identical national adoption of IEC 60318-1 Ed.2.0 b: 2009)

Stakeholders: Hearing-aid manufacturers, telecom manufacturers, consumer headphone and earphone manufacturers, audiologists, acoustical researchers

Project Need: This national adoption will promote harmonization and eliminate possible confusion between American National Standards and related IEC standards.

This part of IEC 60318 specifies an ear simulator for the measurement of supra-aural and circumaural earphones (used for example in audiometry and telephonometry) applied to the ear without acoustical leakage, in the frequency range from 20 Hz to 10 kHz. The same device can be used as an acoustic coupler at additional frequencies up to 16 kHz.

BSR/ASA S3.55-201X/Part 5 /IEC 60318-5:2006, Electroacoustics - Simulators of Human Head and Ear - Part 5: 2 cm3 coupler for the measurement of hearing aids and earphones coupled to the ear by means of ear inserts (identical national adoption of IEC 60318-5 Ed.1.0 b: 2006)

Stakeholders: Hearing-aid manufacturers, telecom manufacturers, consumer headphone and earphone manufacturers, audiologists, acoustical researchers

Project Need: This national adoption will promote harmonization and eliminate possible confusion between American National Standards and related IEC standards.

This part of IEC 60318 describes an acoustic coupler for loading an earphone or hearing aid with a specified acoustic impedance when determining its physical performance characteristics, in the frequency range 125 Hz to 8 kHz. It is suitable for air-conduction hearing aids and earphones, coupled to the ear by means of ear inserts, e.g., ear molds or similar devices.

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

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Reston, VA 20191

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\* BSR/ASCE TBD-201x, Disproportionate Collapse Mitigation of Building Structures (new standard)

Stakeholders: Users of the standard would include, but not be limited to, design professionals, building officials, building owners, and building users.

Project Need: To publish a national consensus standard governing the design of new buildings and assessment of existing buildings to resist disproportionate collapse. The intent of the standard is to complement the building code provisions.

The scope is to develop a standard for disproportionate collapse mitigation of building structures and publish it as an ASCE standard. The content of the standard will be based on available technical information including the technical documents produced by the SEI/TAD disproportionate collapse committee, the GSA/DoD Guide, other available guides and standards, and published research papers and reports.

#### **ASQ (American Society for Quality)**

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Milwaukee, WI 53201

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BSR/ASQ E4-201x, Quality Management Systems for Environmental Information and Technology Programs - Requirements with Guidance for Use (revision of ANSI/ASQ E4-2004)

Stakeholders: Government, academia, and industry.

Project Need: ANSI/ASQ E4 has been the principal QMS standard for environmental programs with widespread use by government, academia, and industry for almost 20 years. This revision reflects the evolution of this long use. And as part of the revision, efforts have been made to conform to ISO Annex SL for the high-level structure and common terminology.

This American National Standard specifies requirements for a Quality Management System (QMS) to enable an organization to formulate policies and procedures to plan and implement sufficient and adequate quality management practices for environmental programs.

#### **ATIS (Alliance for Telecommunications Industry Solutions)**

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Washington, DC 20005

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BSR ATIS 0600031-201x, (Pumped) Distributed Refrigerant Cooling - Standardized Infrastructure (new standard)

Stakeholders: Communication industry.

Project Need: This standard outlines design requirements for a standard refrigerant distribution infrastructure.

Equipment cooling infrastructure solutions have expanded and adapted to meet increasing equipment heat loads and improved energy efficiencies. Infrastructure solutions now include energy-efficient Close-Coupled Cooling (C3) alternatives that bring the cooling (heat transfer) closer to the heat source. One C3 solution utilizes distributed refrigerant as a thermal transfer medium. As the industry adopts and integrates Distributed Refrigerant Cooling (DRC) systems, common infrastructure standards are needed to assure interoperability and connectivity between manufacturers. This standard outlines design requirements for a standard refrigerant distribution infrastructure.

BSR ATIS 0600315.01-201x, 400v DC-Powered Equipment Used in the Telecommunications Environment (new standard)

Stakeholders: Communication industry.

Project Need: Develop a Standard as a ".01" to 315 that provides guidance in relation to the use of 400v DC-powered systems.

There is currently an ATIS Standard, ATIS 0600315.2007, Voltage Levels for DC-Powered Equipment Used in the Telecommunications Environment, that covers voltage systems of up to 190v. Currently, there is no ATIS standard that describes the power interface for systems up to 400v DC.

**AWS (American Welding Society)**

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Miami, FL 33166

**Contact:** *Stephen Hedrick*

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BSR/ASW F4.2-201X, Safety Guidelines for Proper Selection and Safe Use of Welding Cables (new standard)

Stakeholders: Personnel involved in welding.

Project Need: To provide safety guidance on selecting proper welding cables.

This document provides guidance on the safe and proper selection of welding cables. This includes identifying specific criteria including minimum copper content, gauge sizing, electrical performance, and resistance for welding cable sizes.

**CSA (CSA Group)**

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BSR/CSA LPRD2-201x, Pressure Relief Valves for Natural Gas Dispensing Systems (new standard)

Stakeholders: Manufacturers, gas suppliers, and certifying agencies.

Project Need: Standard needed for safety.

This standard contains requirements for the materials, design, manufacture, and testing of pressure relief valves produced for use on liquefied natural-gas fuel-dispensing systems.

BSR/CSA LNG 3.1-201x, Fuel System Components for Liquefied Natural Gas Powered Vehicles (new standard)

Stakeholders: Manufacturers, gas suppliers, and certifying agencies.

Project Need: Standard needed for safety.

This standard contains requirements for newly produced liquefied natural-gas fuel-system components, intended for use on liquefied natural gas powered vehicles. This standard applies to devices which have a service pressure of 30 bar (450 psi). Components include: regulator, valves (manual, manual container, automatic valve, excess flow, pressure relief), gas injector, pressure indicator, pressure regulator, gas flow adjuster, gas/air mixer, pressure relief device, gas-tight housing and ventilation hose, rigid fuel line, flexible fuel line, vehicle hoses, filter, fittings, vaporizer/heat exchanger, and relief line closures.

BSR/CSA LNG 4.3-201x, Temperature Compensation Devices for Liquefied Natural Gas Dispensing Systems (new standard)

Stakeholders: Manufacturers, gas suppliers, and certifying agencies.

Project Need: Standard needed for safety.

This standard details construction and performance requirements for temperature compensation devices (TCD) to adjust for the different levels of onboard fuel temperature and density requirements to complement the vehicle fuel delivery strategies under all surrounding ambient conditions.

BSR/CSA LNG 4.11-201x, Odorizer for Liquefied Natural Gas Dispensing Systems (new standard)

Stakeholders: Manufacturers, gas suppliers, and certifying agencies.

Project Need: Standard needed for safety.

This standard provides guidelines for the methods and odorants to be used in the odorization of liquified natural gas.

**ECA (Electronic Components Association)**

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BSR/EIA 364-108-C-201x, Impedance, Reflection Coefficient, Return Loss, and VSWR Measured in the Time and Frequency Domain Test Procedure for Electrical Connectors, Cable Assemblies or Interconnection Systems (revision and redesignation of ANSI/EIA 364-108-2000 (R2013))

Stakeholders: Electrical, electronics, and telecommunications industries.

Project Need: Periodic review.

This standard describes test methods to measure impedance, reflection coefficient, return loss, and voltage standing wave ratio (VSWR) in the time and frequency domains.

**EOS/ESD (ESD Association, Inc.)**

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Rome, NY 13440

**Contact:** *Christina Earl*

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**E-mail:** [cearl@esda.org](mailto:cearl@esda.org)

BSR/ESD SP5.6-201x, ESD Association Standard Practice for Electrostatic Discharge Sensitivity Testing - Human Metal Model (HMM) - Component Level (revision of ANSI/ESD SP5.6-2010)

Stakeholders: Electronics industry including medical, telecom, consumer, and industrial.

Project Need: The purpose of this document is to establish a test method for stressing pins of electrical components such as integrated circuits, protection elements, or filters that will be directly connected to external ports of a system and may be subjected to a system-level-type ESD stress waveform. This document is not intended to prove that a component will survive stress of a specified level within a completed system or to estimate the protection level from ESD that is incorporated within a system.

This document establishes the procedure for testing and characterizing the electrostatic discharge (ESD) sensitivity of component pins that will be directly connected to external connectors or ports on a completed system. This method is not intended for ESD testing of device, module, or component pins that do not directly connect to a system port or connector. This document covers testing under unpowered and powered states but does not cover testing of integrated circuits in a functioning state. For the purposes of this document, the HMM test pulse will be modeled after the contact discharge defined by the IEC 61000-4-2 document.

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

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INCITS/ISO/IEC 19794-2:2011/Cor 1:2012, Information technology - Biometric data interchange formats - Part 2: Finger minutiae data - Technical Corrigendum 1 (identical national adoption of ISO/IEC 19794-2:2011/Cor 1:2012)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard will be beneficial to the ICT industry.

This is the first corrigendum to ISO/IEC 19794-2:2011. ISO/IEC 19794-2:2011 specifies a concept and data formats for representation of fingerprints using the fundamental notion of minutiae. It is generic, in that it may be applied and used in a wide range of application areas where automated fingerprint recognition is involved. It contains definitions of relevant terms, a description of how minutiae are to be determined, data formats for containing the data for both general use and for use with cards, and conformance information. Guidelines and values for matching and decision parameters are provided.

INCITS/ISO/IEC 19794-4:2011/Cor 1:2012, Information technology - Biometric data interchange formats - Part 4: Finger image data - Technical Corrigendum 1 (identical national adoption of ISO/IEC 19794-4:2011/Cor 1:2012)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard will be beneficial to the ICT industry.

This is the first corrigendum to ISO/IEC 19794-4:2011. ISO/IEC 19794-4:2011 specifies a data record interchange format for storing, recording, and transmitting the information from one or more finger or palm image areas within an ISO/IEC 19785-1 data structure. This can be used for the exchange and comparison of finger image data.

INCITS/ISO/IEC 19794-4:2011/Amd 1:2013, Information technology - Biometric data interchange formats - Part 4: Finger image data - Amendment 1: Conformance testing methodology and clarification of defects (identical national adoption of ISO/IEC 19794-4:2011/Amd 1:2013)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard will be beneficial to the ICT industry.

This is the first amendment to ISO/IEC 19794-4:2011 on Conformance testing methodology and clarification of defects. ISO/IEC 19794-4:2011 specifies a data record interchange format for storing, recording, and transmitting the information from one or more finger or palm image areas within an ISO/IEC 19785-1 data structure. This can be used for the exchange and comparison of finger image data.

INCITS/ISO/IEC 19794-6:2011/Cor 1:2012, Information technology - Biometric data interchange formats - Part 6: Iris image data - Technical Corrigendum 1 (identical national adoption of ISO/IEC 19794-6:2011/Cor 1:2012)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard will be beneficial to the ICT industry.

This is the first corrigendum to ISO/IEC 19794-6:2011. ISO/IEC 19794-6:2011 specifies iris image interchange formats for biometric enrolment, verification and identification systems. The image information might be stored as an array of intensity values optionally compressed with ISO/IEC 15948 or ISO/IEC 15444, or an array of intensity values optionally compressed with ISO/IEC 15948 or ISO/IEC 15444 that might be cropped around the iris, with the iris at the center, and which might incorporate region-of-interest masking of non-iris regions.

INCITS/ISO/IEC 29109-1:2009/Cor 1:2010, Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 1: Generalized conformance testing methodology - Technical Corrigendum 1 (identical national adoption of ISO/IEC 29109-1:2009/Cor 1:2010)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard will be beneficial to the ICT industry.

This is the first corrigendum to ISO/IEC 29109-1:2009. ISO/IEC 29109-1:2009 defines the concepts of conformance testing for biometric data interchange formats and defines a general conformance testing framework. It specifies common (modality-neutral) elements of the testing methodology, such as test methods and procedures, implementation conformance claim, and test results reporting. It also provides the assertion language definition and sets forth other testing and reporting requirements, and outlines other aspects of the conformance testing methodology that are generally applicable and not modality-specific.

**NECA (National Electrical Contractors Association)**

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BSR/NECA 102-201x, Standard for Installing Aluminum Rigid Metal Conduit (revision of ANSI/NECA 102-2004)

Stakeholders: Electrical contractors, specifiers, electrical workers, inspectors, building owners, maintenance engineers.

Project Need: National Electrical Installation Standards (developed by NECA in partnership with other industry organizations) are the first performance standards for electrical construction. They go beyond the basic safety requirements of the National Electrical Code to clearly define what is meant by installing products and systems in a "neat and workmanlike" manner.

This standard describes installation procedures for aluminum rigid metal conduit, including aluminum RMC with a supplementary PVC coating.



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

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Peachtree Corners, GA 30092

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BSR/TAPPI T 278 sp-201x, Pulp screening (Valley-type screening device) (new standard)

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

Project Need: To conduct required five-year review of an existing TAPPI standard in order to revise it if needed to address new technology or correct errors.

This practice provides a laboratory screening procedure for pulps taken directly from a blow pit or discharged from digesters, eliminating time lapse and assuring uniform pulp properties. This practice describes a method for separating debris from virgin or recycled pulps.

**TCNA (ASC A108) (Tile Council of North America)**

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\* BSR/A108.19-201x, Standard Specifications for the Handling, Preparation, and Installation of Thin Porcelain Tile and Thin Porcelain Tile Panels (new standard)

Stakeholders: Ceramic tile installers, contractors, and builders (labor interest category); related material manufacturers (manufacturing interest category); distributors, retailers and consumers (user interest category); and affiliated industries and other general-interest users of this standard (general interest category).

Project Need: Various stakeholders have suggested that a new standard be created to address the installation of thin porcelain tile and thin porcelain tile panels.

This standard will outline the guidelines for the handling, preparation, and installation of thin porcelain tile and thin porcelain tile panels.

\* BSR/A137.3-201x, Standard Specifications for Thin Porcelain Tile and Thin Porcelain Tile Panels (new standard)

Stakeholders: Ceramic tile installers, contractors, and builders (labor interest category); related material manufacturers (manufacturing interest category); distributors, retailers and consumers (user interest category); and affiliated industries and other general-interest users of this standard (general interest category).

Project Need: Various stakeholders have suggested that a new specification for thin porcelain tile and thin porcelain tile panels be created.

These specifications serve as a reference standard for buyers, specifiers, and/or installers of thin porcelain tile and thin porcelain tile panels. These specifications are also a guide to producers in maintaining quality control of the manufacture of such thin porcelain tile and thin porcelain tile panels.

\* BSR A108.02-201x, General Requirements: Materials, Environmental, and Workmanship (revision of ANSI A108.02-2013)

Stakeholders: Ceramic tile installers, contractors, and builders (labor interest category); related material manufacturers (manufacturing interest category); distributors, retailers and consumers (user interest category); and affiliated industries and other general-interest users of this standard (general interest category).

Project Need: Stakeholders have suggested that new and/or revised criteria should be addressed by this standard.

This standard outlines the requirements for delivery, storage and handling of materials at the jobsite. Also included are requirements for the installer to inspect the site prior to installation of the tile and preparation of the floor, curing the mortar bed, etc. prior to installing tile. This is the section that contains the requirements for acceptable workmanship such as consistent width of grout joints, acceptable lippage, and the types of things that are under control of the installer.

**TNI (The NELAC Institute)**

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BSR/TNI EL-V1-201x, Management and Technical Requirements for Laboratories Performing Environmental Analysis (revision of ANSI/TNI EL-V1-2009)

Stakeholders: Accreditation bodies, laboratories, data users.

Project Need: Responds to updated federal, state, and industry requirements for environmental laboratory accreditation.

The proposed standard will replace an existing ANS with the same title, incorporating modules on proficiency testing; quality systems; general requirements; asbestos testing; chemical testing; microbiological testing; radiochemical testing; and toxicity testing.

BSR/TNI EL-V2-201x, General Requirements for Accreditation Bodies Accrediting Environmental Laboratories (revision of ANSI/TNI EL-V2-2009)

Stakeholders: Accreditation bodies, laboratories, data users.

Project Need: Responds to updated federal, state, and industry requirements for accreditation of environmental laboratories.

The proposed standard will replace an existing ANS with the same title, incorporating modules on general requirements, proficiency testing, and on-site assessment

BSR/TNI EL-V3-201x, General Requirements for Environmental Proficiency Test Providers (revision of ANSI/TNI EL-V3-2009)

Stakeholders: Accreditation bodies, laboratories, data users.

Project Need: Responds to updated federal, state, and industry requirements for environmental laboratory accreditation

The proposed standard will replace an existing ANS with the same title and similar content.

BSR/TNI EL-V4-201x, General requirements for an accreditor of environmental proficiency test providers (revision of ANSI/TNI EL-V4-2009)

Stakeholders: Accreditation bodies, laboratories, data users.

Project Need: Responds to updated federal, state, and industry requirements for environmental laboratory accreditation.

The proposed standard will replace an existing ANS with the same title and similar content

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

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BSR/UL 61810-1-201x, Standard for Safety for Electromechanical  
Elementary Relays - Part 1: General and safety requirements (new  
standard)

Stakeholders: Users of electromechanical relays; operators and  
service personnel; producers of appliance control equipment,  
appliances, ITE equipment, and electrical equipment for  
measurement, control, and laboratory use.

Project Need: To obtain national recognition of a standard covering  
electromechanical elementary relays - general and safety  
requirements.

This Standard applies to electromechanical elementary relays for  
incorporation into low voltage equipment (circuits up to 1000 V  
alternate current or 1500 V direct current). It defines the basic  
functional and safety requirements and safety-related aspects for  
applications in all areas of electrical engineering or electronics, such  
as: general industrial equipment, electrical facilities, electrical  
machines, electrical appliances for household and similar use, and  
business equipment, building automation equipment, automation  
equipment, electrical installation equipment, medical equipment, control  
equipment, telecommunications, vehicles, transportation.

# American National Standards Maintained Under Continuous Maintenance

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

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

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

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

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

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

# ANSI-Accredited Standards Developers Contact Information

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

## AAMI

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## ABMA

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Durango, CO 81301-5479  
Phone: (720) 392-2262  
Fax: (866) 837-8450  
Web: [www.abma.org](http://www.abma.org)

## AGMA

American Gear Manufacturers  
Association  
1001 N Fairfax Street, 5th Floor  
Alexandria, VA 22314  
Phone: (703) 684-0211  
Fax: (703) 684-0242  
Web: [www.agma.org](http://www.agma.org)

## AHRI

Air-Conditioning, Heating, and  
Refrigeration Institute  
2111 Wilson Boulevard  
Suite 500  
Arlington, VA 22201  
Phone: (703) 600-0327  
Fax: (703) 562-1942  
Web: [www.ahrinet.org](http://www.ahrinet.org)

## AIAA

American Institute of Aeronautics and  
Astronautics  
1801 Alexander Bell Drive  
Suite 500  
Reston, VA 20191-4344  
Phone: 703-264-7546  
Web: [www.aiaa.org](http://www.aiaa.org)

## APCO

Association of Public-Safety  
Communications Officials-  
International  
351 N. Williamson Boulevard  
Daytona Beach, FL 32114-1112  
Phone: (919) 625-6864  
Fax: (386) 944-2794  
Web: [www.apcolntl.org](http://www.apcolntl.org)

## ASA (ASC S12)

Acoustical Society of America  
35 Pinelawn Road  
Suite 114E  
Melville, NY 11747  
Phone: (631) 390-0215  
Fax: (631) 390-0217  
Web: [acousticalsociety.org](http://acousticalsociety.org)

## ASB (ASC Z50)

American Society of Baking  
243 Reade Drive  
Cogan Station, PA 17728  
Phone: (570) 494-0624  
Fax: (570) 494-0603  
Web: [www.asbe.org](http://www.asbe.org)

## ASCE

American Society of Civil Engineers  
1801 Alexander Bell Dr  
Reston, VA 20191  
Phone: 703-295-6176  
Web: [www.asce.org](http://www.asce.org)

## ASHRAE

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

## ASME

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

## ASQ

American Society for Quality  
600 N Plankinton Ave  
Milwaukee, WI 53201  
Phone: (414) 272-8575  
Web: [www.asq.org](http://www.asq.org)

## ASQ (ASC Z1)

American Society for Quality  
600 N Plankinton Ave  
Milwaukee, WI 53201  
Phone: (414) 272-8575  
Web: [www.asq.org](http://www.asq.org)

## ASTM

ASTM International  
100 Barr Harbor Drive  
West Conshohocken, PA 19428-2959  
Phone: (610) 832-9743  
Fax: (610) 834-3655  
Web: [www.astm.org](http://www.astm.org)

## ATIS

Alliance for Telecommunications  
Industry Solutions  
1200 G Street, NW  
Suite 500  
Washington, DC 20005  
Phone: (202) 434-8841  
Fax: (202) 347-7125  
Web: [www.atis.org](http://www.atis.org)

## AWS

American Welding Society  
8669 NW 36 Street, #130  
Miami, FL 33166  
Phone: (305) 443-9353  
Web: [www.aws.org](http://www.aws.org)

## AWWA

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

## BPI

Building Performance Institute  
107 Hermes Road  
Suite 110  
Malta, NY 12020  
Phone: (877) 274-1274  
Fax: (866) 777-1274  
Web: [www.bpi.org](http://www.bpi.org)

## CSA

CSA Group  
8501 E. Pleasant Valley Road  
Cleveland, OH 44131  
Phone: (216) 524-4990  
Fax: (216) 520-8979  
Web: [www.csa-america.org](http://www.csa-america.org)

## ECA

Electronic Components Association  
2214 Rock Hill Road  
Suite 170  
Herndon, VA 20170-4212  
Phone: (571) 323-0294  
Fax: (571) 323-0245  
Web: [www.eciaonline.org](http://www.eciaonline.org)

## EOS/ESD

ESD Association  
7900 Turin Rd., Bldg. 3  
Rome, NY 13440  
Phone: (315) 339-6937  
Fax: (315) 339-6793  
Web: [www.esda.org](http://www.esda.org)

## GTESS

Georgia Tech Energy & Sustainability  
Services  
75 Fifth Street N.W  
Suite 300  
Atlanta, GA 30332-0640  
Phone: (404) 407-6404  
Fax: (404) 894-8194  
Web: [innovate.gatech.edu](http://innovate.gatech.edu)

## HPS (ASC N13)

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

## IAPMO (ASC Z124)

International Association of Plumbing  
& Mechanical Officials  
5001 East Philadelphia Street  
Ontario, CA 91761-2816  
Phone: (909) 472-4106  
Fax: (909) 472-4150  
Web: [www.iapmort.org](http://www.iapmort.org)

**ISA (Organization)**

ISA-The Instrumentation, Systems,  
and Automation Society

67 Alexander Drive  
Research Triangle Park, NC 27709  
Phone: (919) 990-9228  
Fax: (919) 549-8288  
Web: [www.isa.org](http://www.isa.org)

**ITI (INCITS)**

InterNational Committee for  
Information Technology Standards

1101 K Street NW  
Suite 610  
Washington, DC 20005-3922  
Phone: (202) 626-5746  
Fax: (202) 638-4922  
Web: [www.incits.org](http://www.incits.org)

**ITSDF**

Industrial Truck Standards  
Development Foundation, Inc.

1750 K Street NW  
Suite 460  
Washington, DC 20006  
Phone: (202) 296-9880  
Fax: (202) 296-9884  
Web: [www.indtrk.org/default.asp](http://www.indtrk.org/default.asp)

**MSS**

Manufacturers Standardization  
Society

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

**NECA**

National Electrical Contractors  
Association

3 Bethesda Metro Center  
Suite 1100  
Bethesda, MD 20814  
Phone: (301) 215-4549  
Fax: (301) 215-4500  
Web: [www.necanet.org](http://www.necanet.org)

**NEMA (ASC C8)**

National Electrical Manufacturers  
Association

1300 North 17th Street  
Suite 1752  
Rosslyn, VA 22209  
Phone: (703) 841-3271  
Fax: 703-841-3371  
Web: [www.nema.org](http://www.nema.org)

**NSF**

NSF International

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

**OPEI**

Outdoor Power Equipment Institute

341 South Patrick Street  
Alexandria, VA 22314  
Phone: (703) 549-7600  
Fax: (703) 549-7604  
Web: [www.opei.org](http://www.opei.org)

**PLASA**

PLASA North America

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

**RVIA**

Recreational Vehicle Industry  
Association

1896 Preston White Drive  
P.O. Box 2999  
Reston, VA 20191-4363  
Phone: (703) 620-6003  
Fax: (703) 620-5071  
Web: [www.rvia.org](http://www.rvia.org)

**SCTE**

Society of Cable Telecommunications  
Engineers

140 Philips Rd.  
Exton, PA 19341  
Phone: (610) 594-7308  
Fax: (610) 363-7133  
Web: [www.scte.org](http://www.scte.org)

**SPI**

The Society of the Plastics Industry,  
Inc.

POB 690905  
Houston, TX 77269  
Phone: (832) 446-6999  
Web: [www.plasticsindustry.org](http://www.plasticsindustry.org)

**TAPPI**

Technical Association of the Pulp and  
Paper Industry

15 Technology Parkway South  
Peachtree Corners, GA 30092  
Phone: (770) 209-7276  
Fax: (770) 446-6947  
Web: [www.tappi.org](http://www.tappi.org)

**TCNA (ASC A108)**

Tile Council of North America  
100 Clemson Research Blvd.  
Anderson, SC 29625  
Phone: (864) 646-8453 ext.108  
Fax: (864) 646-2821  
Web: [www.tileusa.com](http://www.tileusa.com)

**TIA**

Telecommunications Industry  
Association

1320 North Courthouse Road  
Suite 200  
Arlington, VA 22201  
Phone: (703) 907-7497  
Fax: (703) 907-7727  
Web: [www.tiaonline.org](http://www.tiaonline.org)

**TNI**

The NELAC Institute

51 Glade Mallow Road  
Ballston Spa, NY 12020  
Phone: (518) 899-9697  
Fax: (817) 598-1177  
Web: [www.NELAC-Institute.org](http://www.NELAC-Institute.org)

**UL**

Underwriters Laboratories, Inc.

333 Pfingsten Road  
Northbrook, IL 60062  
Phone: (847) 664-2881  
Fax: (847) 664-2881  
Web: [www.ul.com](http://www.ul.com)



# ISO Draft International Standards

This section lists proposed standards that the International Organization for Standardization (ISO) is considering for approval. The proposals have received substantial support within the technical committees or subcommittees that developed them and are now being circulated to ISO 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 Karen Hughes, at ANSI's New York offices (isot@ansi.org). The final date for offering comments is listed after each draft.

## Ordering Instructions

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### ACOUSTICS (TC 43)

ISO/DIS 1683, Acoustics - Preferred reference values for acoustical and vibratory levels - 1/2/2014, FREE

### ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

ISO 80601-2-13/DAMd1, Medical electrical equipment - Part 2-13: Particular requirements for basic safety and essential performance of an anaesthetic workstation - Amendment 1 - 10/31/2013, \$58.00

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

ISO/DIS 17093, Corrosion of Metals and Alloys - Guidelines for corrosion test by electrochemical noise measurements - 1/8/2014, FREE

### GRAPHIC TECHNOLOGY (TC 130)

ISO/DIS 17972-1, Graphic technology - Colour data exchange format - Part 1: Relationship to CxF3 (CxF/X) - 12/20/2013, \$71.00

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

ISO/DIS 19901-5, Petroleum and natural gas industries - Specific requirements for offshore structures - Part 5: Weight control during engineering and construction - 1/2/2014, FREE

### PACKAGING (TC 122)

ISO/DIS 17480, Packaging - Accessible design - Ease of opening - 1/2/2014, \$107.00

### PAINTS AND VARNISHES (TC 35)

ISO/DIS 8502-2, Preparation of steel substrates before application of paints and related products - Tests for the assessment of surface cleanliness - Part 2: Laboratory determination of chloride on cleaned surfaces - 1/2/2014, FREE

ISO/DIS 8502-12, Preparation of steel substrates before application of paints and related products - Tests for the assessment of surface cleanliness - Part 12: Field method for the titrimetric determination of water-soluble ferrous ions - 1/2/2014, FREE

### PETROLEUM PRODUCTS AND LUBRICANTS (TC 28)

ISO/DIS 6743-4, Lubricants, industrial oils and related products (class L) - Classification - Part 4: Family H (Hydraulic systems) - 1/2/2014, \$29.00

### PHOTOGRAPHY (TC 42)

ISO/DIS 18938, Imaging materials - Optical discs - Care and handling for extended storage - 1/2/2014, \$88.00

### ROAD VEHICLES (TC 22)

ISO/DIS 8820-1, Road vehicles - Fuse-links - Part 1: Definitions and general test requirements - 1/3/2014, FREE

### SMALL TOOLS (TC 29)

ISO/DIS 7738, Assembly tools for screws and nuts - Combination wrenches - Lengths of wrenches and maximum thickness of heads - 1/1/2014, FREE

### STEEL (TC 17)

ISO/DIS 11970, Specification and approval of welding procedures for production welding of steel castings - 1/2/2014, FREE

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

ISO/DIS 1135-4, Transfusion equipment for medical use - Part 4: Transfusion sets for single use, gravity feed - 1/2/2014, \$71.00

ISO/DIS 1135-5, Transfusion equipment for medical use - Part 5: Transfusion sets for single use with pressure infusion apparatus - 1/2/2014, \$71.00

## ISO/IEC JTC 1, Information Technology

ISO/IEC DIS 19369, Information technology - Reader guidance for NFCIP-2 test methods - 11/3/2013, FREE

ISO/IEC DIS 13157-1, Information technology - Telecommunications and information exchange between systems - NFC Security - Part 1: NFC-SEC NFCIP-1 security services and protocol - 11/3/2013, FREE



# IEC Draft International Standards

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

## Comments

Comments regarding IEC documents should be sent to Charles T. Zegers, at ANSI's New York offices. The final date for offering comments is listed after each draft.

## Ordering Instructions

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| <p>17A/1054/DC, Revision of IEC 62271-102 of SC 17A: Alternating current disconnectors and earthing switches, 11/01/2013</p> <p>17B/1830/FDIS, Amendment 1 to IEC 60947-6-1 Ed.2: Low-voltage switchgear and controlgear - Part 6-1: Multiple function equipment - Transfer switching equipment, 11/29/2013</p> <p>22H/168/NP, Future IEC/TS 62040-4-1: Uninterruptible power systems (UPS) - Part 4-1: Environmental aspects - Product category rules (PCR) for life cycle assessment, 12/06/2013</p> <p>23A/688/CDV, Amendment 1 to IEC 61386-1 Ed.2: Conduit systems for cable management - Part 1: General requirements, 11/01/2013</p> <p>23E/821/CD, IEC 62873-2 Ed.1: Definitions - Glossary for RCDs, 12/13/2013</p> <p>23E/822/NP, PNW 23E-822: General requirements for portable leakage current devices, 01/10/2014</p> <p>23B/1114/CDV, Amendment 2 to IEC 60669-2-1 Ed.4: Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic switches, 12/06/2013</p> <p>31M/79/NP, Future ISO/IEC 80079-20-2/Ed1: Explosive atmospheres - Part 20-2: Material characteristics - Combustible dusts test methods, 01/03/2014</p> <p>31J/225/FDIS, IEC 60079-14/Ed5: Explosive atmospheres - Part 14: Electrical installations design, selection and erection, 11/15/2013</p> <p>32C/475/Q, Maintenance of IEC 60127-1 Miniature fuses - Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links, 10/11/2013</p> <p>32B/616/CDV, IEC 60269-1/A2/Ed4: Low-voltage fuses - Part 1: General requirements, 12/06/2013</p> <p>34C/1054/CDV, IEC 62756-1 Ed.1: Digital load side transmission lighting control (DLT) - Part 1: Basic requirements, 12/06/2013</p> <p>34C/1058/CDV, IEC 62386-101 Ed.2: Digital addressable lighting interface - Part 101: General requirements - System Components, 12/13/2013</p> <p>34C/1060/CDV, IEC 62386-102 Ed.2: Digital addressable lighting interface - Part 102: General requirements - Control gear, 12/13/2013</p> <p>34C/1062/CDV, IEC 62386-103 Ed.1: Digital addressable lighting interface - Part 103: General requirements - Control devices, 12/13/2013</p> <p>34C/1068/NP, PNW 34C-1068: Digital addressable lighting interface - Part 301: General requirements - Input devices - Push buttons and binary inputs, 12/13/2013</p> | <p>34C/1069/NP, PNW 34C-1069: Digital addressable lighting interface - Part 332: Particular requirements - Input control devices - Feedback, 12/13/2013</p> <p>34A/1689/CDV, IEC 60968 Ed.3: Self-ballasted fluorescent lamps for general lighting services - Safety requirements, 12/13/2013</p> <p>34A/1702/FDIS, IEC 62707-1 Ed.1: LED-binning - Part 1: General requirements and white colour grid, 11/08/2013</p> <p>46F/238/CDV, IEC 61169-45 ed 1.0: Radio-frequency connectors - Part 45: Sectional specification for series SQMA series quick lock RF coaxial connectors, 12/06/2013</p> <p>46F/242/CDV, IEC 62810: Cylindrical cavity method to measure the complex permittivity of low-loss dielectric rods, 01/10/2014</p> <p>46A/1168/CD, IEC 61196-1-110: Coaxial communication cables - Part 1-110: Electrical test methods - Test for continuity, 01/03/2014</p> <p>46A/1169/CD, IEC 61196-1-114: Coaxial communication cables - Part 1-114: Electrical test methods - Inductance, 01/03/2014</p> <p>46A/1170/CD, IEC 61196-1-209: Coaxial communication cables - Part 1-209: Environmental test methods - Thermal cycling, 01/03/2014</p> <p>46A/1171/CD, IEC 61196-1-116: Coaxial communication cables - Part 1-116: Electrical test methods - Test for characteristic impedance with time domain reflectometry (TDR), 01/03/2010</p> <p>46A/1172/CD, IEC 61196-9-1: Coaxial communication cables - Part 9-1: Blank detail specification for flexible RF coaxial cables, 01/03/2014</p> <p>47F/173/NP, Future IEC 62047-27: Semiconductor devices - Micro-electromechanical devices - Part 27: Bond strength test for glass frit bonded structures using micro-chevron-tests (MCT), 12/06/2013</p> <p>47D/842/CD, IEC 60191-1 Ed.3: Mechanical standardization of semiconductor devices - Part 1: General rules for the preparation of outline drawings of discrete devices, 12/06/2013</p> <p>47D/844/CD, IEC 60191-2/F70 Ed.1: Proposed new package outline - P-ZMP-P165, 12/06/2013</p> <p>47D/845/CD, IEC 60191-2/F71 Ed.1: Proposed new package outline - P-ZMP-P89, 12/06/2013</p> <p>47D/847/DC, Proposal for a future IEC Technical Report on Glossary for Semiconductor device packages - Semiconductor package name and parts name, 11/22/2013</p> <p>48D/549/FDIS, IEC 61587-5/Ed1: Mechanical structures for electronic equipment - Tests for IEC 60917 and IEC 60297 - Part 5: Seismic tests for chassis, subracks, and associated plug-in units, 11/15/2013</p> |
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- 48B/2357/CDV, IEC 61076-4-116/A1/Ed1: Connectors for electronic equipment - Product requirements - Part 4-116: Printed board connectors - Detail specification for a high-speed two-part connector with integrated shielding function, 12/13/2013
- 59A/178/CD, IEC 60704-2-3 Ed.3: Household and similar appliances - Test code for the determination of airborne acoustical noise - Part 2 -3: Particular requirements for dishwashers, 01/03/2014
- 59F/238A/CDV, IEC 62826 Ed.1: Surface cleaning appliances - Floor treatment machines with or without traction drive, for commercial use - Methods of measuring the performance, 01/03/2014
- 59F/238/CDV, IEC 62826 Ed.1: Surface cleaning appliances - Floor treatment machines with or without traction drive, for commercial use - Methods of measuring the performance, 01/03/2014
- 62C/575/FDIS, IEC 60601-2-17: Medical electrical equipment - Part 2 -17: Particular requirements for the basic safety and essential performance of automatically-controlled brachytherapy afterloading equipment, 11/08/2013
- 62D/1096/NP, ISO 80601-2-xx (ed. 1), Medical Electrical Equipment - Part 2-xx: Particular requirements for basic safety and essential performance of humidifying equipment, 01/10/2014
- 62D/1098/NP, IEC/ISO 80601-2-xx (ed. 1), Medical electrical equipment - Part 2-xx: Particular requirements for the basic safety and essential performance of medical beds for children, 01/10/2014
- 62D/1100/CDV, Amendment to ISO 80601-2-13: Medical electrical equipment - Part 2-13: Particular requirements for basic safety and essential performance of an anaesthetic workstation, 01/10/2014
- 77A/832/CD, IEC/TR 61000-4-38: Electromagnetic Compatibility (EMC): Testing and measurement techniques - Calibration and Verification Protocol for Flicker Compliance test systems, 01/10/2014
- 86A/1547/CD, IEC 60794-1-21/Ed1: Optical fibre cables - Part 1-21: Generic specification - Basic optical cable test procedures - Mechanical Tests Methods, 12/13/2013
- 86A/1548/CD, IEC 60793-2-40/Ed4: Optical fibres - Part 40: Product specifications - Sectional specification for category A4 multimode fibres, 12/13/2013
- 86B/3645/CDV, IEC 61753-053-2/Ed1: Fibre optic interconnecting devices and passive components - Performance standard - Part 053 -2: Non-connectorised single-mode fibre electrically controlled variable optical attenuator for category C - Controlled environments, 12/06/2013
- 86B/3646/CDV, IEC 61753-081-2/Ed2: Fibre optic interconnecting devices and passive components - Performance standard - Part 081 -2: Non-connectorized single-mode fibre optic middle-scale 1 x N DWDM devices for category C - Controlled environments, 12/06/2013
- 86B/3685/NP, Future IEC 61754-31/Ed1: Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 31: Type ODC industrial connector series, 01/03/2014
- 118/29/PAS, IEC/PAS 62746-199 Ed.1: System interfaces and communication protocol profiles relevant for systems connected to the smart grid - Open Automated Demand Response (OpenADR 2.0 Profile Specification), 11/29/2013
- 1/2242/FDIS, IEC 60050-561: International electrotechnical vocabulary - Part 561: Piezoelectric, dielectric and electrostatic devices and associated materials for frequency control, selection and detection, 11/15/2013
- 14/757/CDV, IEC 61378-3 Ed.2: Converter transformers - Part 3: Application guide, 12/06/2013
- 2/1717/CDV, IEC 60034-19 Ed.2: Rotating electrical machines - Part 19: Specific test methods for d.c. machines on conventional and rectifier-fed supplies, 01/03/2014
- 21/817/CD, IEC 62660-3: Secondary lithium-ion cells for the propulsion of electric road vehicles - Part 3: safety requirements of cells and modules, 01/10/2014
- 22/223/NP, Bi-directional grid connected power converter - Part 1: General requirements for bi-directional grid connected power converter, 12/06/2013
- 23/639/DTR, IEC/TR 61916 Ed.3: Electrical accessories - Harmonization of general rules, 11/08/2013
- 25/474/CD, IEC 60027-2 Ed. 4.0 Letter symbols to be used in electrical technology - Part 2: Telecommunications and electronics, 12/06/2013
- 26/518/FDIS, IEC 60974-3 Ed.3: Arc welding equipment - Part 3: Arc striking and stabilizing devices, 11/01/2013
- 29/817/CDV, IEC 62489-2: Electroacoustics - Audio-frequency induction loop systems for assisted hearing - Part 2: Methods of calculating and measuring the low-frequency magnetic field emissions from the loop for assessing conformity with guidelines on limits for human exposure, 12/06/2013
- 3/1152/CDV, IEC 62744/Ed.1: Representation of states of objects by graphical symbols, 12/06/2013
- 36/337/FDIS, IEC/TS 60507/Ed3: Artificial pollution tests on high-voltage ceramic and glass insulators to be used on a.c. systems, 11/22/2013
- 38/468/FDIS, IEC 61869-4: Instrument transformers - Part 4: Additional requirements for combined transformers, 11/08/2013
- 42/323/CDV, IEC 60270/A1/Ed3: High-voltage test techniques - Partial discharge measurements, 12/06/2013
- 46/473/CDV, IEC 61935-1 ed 4.0: Testing of Balanced Communication Cabling in Accordance with ISO/IEC 11801 Part 1: Installed cabling, 01/03/2014
- 69/260/NP, Electric vehicle battery swap system - Part 1: System description and general requirements, 12/06/2013
- 69/263/CDV, ISO/IEC 17409: Electrically propelled road vehicles - Connection to an external electric power supply - Safety requirements, 12/06/2013
- 69/266/CD, IEC 61851-21-1/Ed. 1: Electric vehicle conductive charging systems - Part 21-1: Electric vehicle onboard charger EMC requirements for conductive connection to an a.c./d.c. supply, 01/03/2014
- 76/497/DTR, IEC/TR 62471-3: Safety of intense pulsed light source equipment - Guidelines for the safe use of intense pulsed light source equipment on humans, 11/01/2013
- 8/1334/NP, Future IEC 62559-3 Ed.1: Use case methodology - Part 3: Definition of use case template artefacts into an XML serialized format, 12/06/2013
- 82/782/NP, Photovoltaic (PV) Modules - Retesting for type approval, design and safety qualification, 12/06/2013
- 82/791/NP, Non-uniform snow load testing for photovoltaic (PV) modules, 12/06/2013
- 87/542/CD, IEC/TS 62791: Ultrasonics - Pulse-echo scanners - Low-echo sphere phantoms and methods for performance testing of gray-scale medical ultrasound scanners applicable to a broad range of transducer types, 12/06/2013
- 88/465/FDIS, IEC 61400-2 Ed.3: Wind turbines - Part 2: Small wind turbines, 11/15/2013
- 9/1829/CDV, IEC 61375-2-3 Ed.1: Electronic railway equipment - Train Communication Network (TCN) - Part 2-3: TCN communication profile, 01/03/2014
- 9/1853/FDIS, IEC 62724 Ed.1: Railway applications - Fixed installations - Electric traction - Insulating synthetic rope assemblies for support of overhead contact lines, 11/22/2013



- 94/363/CDV, IEC 61810-1 Ed.4: Electromechanical elementary relays - Part 1: General and safety requirements, 12/13/2013
- 94/364A/CDV, IEC 61810-3 Ed.1: Relays with forcibly guided (mechanically linked) contacts, 01/03/2014
- 94/364/CDV, IEC 61810-3 Ed.1: Relays with forcibly guided (mechanically linked) contacts, 12/13/2013
- 97/159/CD, IEC 62870 Ed.1: Electrical installations for lighting and beaconing of aerodromes - Safety secondary circuits in series circuits - General safety requirement, 12/06/2013
- 105/453/CDV, IEC 62282-6-400 Ed.1: Fuel cell technologies - Part 6 -400: Micro fuel cell power systems - Power and data interchangeability, 12/13/2013
- 106/282/CDV, IEC 61786-2: Measurement of DC magnetic fields, AC magnetic and electric fields from 1 Hz to 100 kHz with regard to exposure of human beings - Part 2: Basic standard for measurements, 01/10/2014
- 106/289/NP, IEC 62209-3: Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 3: Vector probe systems (Frequency range of 100 MHz to 6 GHz), 12/06/2013
- 106/292/FDIS, IEC 61786-1: Measurement of DC magnetic, AC magnetic and AC electric fields from 1 Hz to 100 kHz with regard to exposure of human beings - Part 1: Requirements for measuring instruments (Proposed Horizontal Standards), 11/29/2013
- 107/216/CDV, IEC 62396-5 Ed.1: Process management for avionics - Atmospheric radiation effects - Part 5: Assessment of thermal neutron fluxes and single event effects in avionics systems, 01/03/2014
- 110/481/CDV, IEC 61747-4-1 Ed.2: Liquid crystal display devices - Part 4-1: Matrix colour LCD modules - Essential ratings and characteristics, 12/06/2013
- 110/509/CD, IEC 62341-6-2 Ed.2: Organic light emitting diode (OLED) displays - Part 6-2: Measuring methods of visual quality and ambient performance, 11/01/2013
- 110/510/CD, IEC 61988-2-6 Ed.1: Plasma display panels - Part 2-6: Measuring methods - APL dependent gamma and colour characteristics, 11/01/2013
- 110/512/NP, Future IEC 62679-4-2: Electronic paper displays - Part 4 -2: Environmental test method, 12/06/2013
- 110/516/CD, IEC 61747-40-2 Ed.1: Liquid crystal display devices - Part 40-2: Mechanical testing of display cover glass for mobile devices - Uni-axial flexural strength (4-point bend), 11/08/2013
- 110/517/CD, IEC 61747-40-3 Ed.1: Liquid crystal display devices - Part 40-3: Mechanical testing of display cover glass for mobile devices - Biaxial flexural energy-to-failure (Ball drop), 11/08/2013
- 110/518/CD, IEC 61747-40-4 Ed.1: Liquid crystal display devices - Part 40-4: Mechanical testing of display cover glass for mobile devices - Biaxial flexural strength (Ring-on-ring), 11/08/2013
- 110/523/CD, IEC 61747-30-4 Ed.1: Liquid crystal display devices - Part 30-4: Measuring methods of LCD modules with dynamic backlight units, 11/22/2013
- 110/524/FDIS, IEC 62629-12-1 Ed.1: 3D display devices - Part 12-1: Measuring methods for stereoscopic displays using glasses - Optical, 11/29/2013
- 111/321/CD, IEC 62321 2nd Edition - Determination of certain substances in electrotechnical products - Part 8: Phthalates in polymers by Pyrolyzer Gas Chromatography-Mass Spectrometry (Py-GC-MS), Ion Attachment Mass Spectrometry (IAMS), Gas Chromatography-Mass Spectrometry (GC-MS) and Liquid Chromatography - Mass Spectrometry (LC-MS), 12/06/2013
- 114/121/NP, River energy resource assesment and characterization, 12/13/2013
- 13/1551/CDV, IEC 62052-31 Ed. 1: Electricity metering equipment (AC) - General requirements, tests and test conditions - Part 31: Safety requirements and tests, 12/13/2013
- 13/1556/DC, Revision of IEC Guide 111 Ed. 2.0, 10/18/2013
- 18/1345/CD, IEC 60092-101: Electrical installations in ships - Part 101: Definitions and general requirements, 11/01/2013
- 18/1346/CD, IEC 60092-201: Electrical installations in ships - Part 201: System design - General, 11/01/2013
- 18/1347/CD, IEC 60092-202: Electrical installations in ships - Part 202: System design - Protection, 11/01/2013
- 18/1351/FDIS, IEC 61892-6: Mobile and fixed offshore units - Electrical installations - Part 6: Installation, 11/22/2013
- 20/1462/FDIS, Amendment 1 to IEC 62230: Electric cables - Spark-test method, 11/08/2013
- 31/1070/CDV, IEC 60079-6/Ed4: Explosive atmospheres - Part 6: Equipment protection by liquid immersion "o", 12/06/2013
- 49/1078/CDV, Amendment 1 to IEC 61837-2 Ed.2: Surface mounted piezoelectric devices for frequency control and selection - Standard outlines and terminal lead connections - Part 2: Ceramic enclosures, 12/06/2013
- 49/1080/CDV, IEC 61837-3 Ed.2: Surface mounted piezoelectric devices for frequency control and selection - Standard outlines and terminal lead connections - Part 3: Metal enclosure, 01/03/2014
- 49/1081/CDV, IEC 61837-4 Ed.2: Surface mounted piezoelectric devices for frequency control and selection - Standard outline and terminal lead connections - Part 4: Hybrid enclosure outline, 01/03/2014
- 57/1391/FDIS, IEC 61850-3 Ed.2: Communication networks and systems for power utility automation - Part 3: General requirements, 11/08/2013
- 57/1395/FDIS, IEC 61970-301 Ed.5: Energy management system application program interface (EMS-API) - Part 301: Common information model (CIM) base, 11/22/2013
- 61/4639/FDIS, IEC 60335-2-A1/Ed5: Household and similar electrical appliances - Safety - Part 1: General requirements, 11/01/2013
- 61/4661/FDIS, IEC 60335-2-84-A2/Ed2: Household and similar electrical appliances - Safety - Part 2-84: Particular requirements for toilets, 11/08/2013
- 64/1890/CDV, IEC 60364-8-1: Low voltage electrical installations - Energy Efficiency, 01/10/2014
- 64/1891/CDV, IEC 60364-9-1: Low-voltage electrical installations - Part 9-1: installation, design and safety requirements for photovoltaic systems (PV), 01/10/2014
- 64/1896/DC, Basic requirements for low-voltage electrical equipment connected to a low-voltage electrical instalation - common aspects for coordination, 11/01/2013
- 78/1023/CDV, IEC 61482-1-2: Live working - Protective clothing against the thermal hazards of an electric arc - Part 1-2: Test methods - Method 2: Determination of arc protection class of material and clothing by using a constrained and directed arc (box test), 01/03/2014
- 78/1025/NP, IEC/TR 61243-6: Live working - Voltage detectors - Part 6: Guidelines on non-contact voltage detectors (NCVD) for use at nominal voltages above 1 kV a.c., 12/06/2013
- 89/1170/CDV, IEC 60695-1-12/Ed1: Fire hazard testing - Part 1-12: Guidance for assessing the fire hazard of electrotechnical products - Fire safety engineering, 12/06/2013
- 89/1171/CDV, IEC 60695-11-20/Ed2: Fire hazard testing - Part 11-20: Test flames - 500 W flame test methods, 12/06/2013

- 89/1177/CDV, IEC 60695-8-2/Ed1: Fire hazard testing - Part 8-2: Heat release - Summary and relevance of test methods, 12/06/2013
- 89/1193/FDIS, IEC 60695-11-2/Ed2: Fire hazard testing - Part 11-2: Test flames - 1 kW pre-mixed flame: Apparatus, confirmatory test arrangement and guidance, 11/08/2013
- 91/1138/CD, IEC/TR 62878-2-2 Ed.1: Device embedded substrate - Guidelines - Electrical testing, 12/06/2013
- 91/1139/NP, Future IEC 62739-2: Test method for erosion of wave soldering equipment using molten lead free solder alloy - Part 2: Erosion test method for metal materials with surface processing, 12/06/2013
- 91/1142/DTS, IEC/TS 62878-2-1 Ed.1: Device Embedded Substrate - Part 2-1: Guidelines - General description of technology, 12/06/2013
- 91/1143/DTS, IEC/TS 62878-2-3 Ed.1: Device Embedded Substrate - Part 2-3: Guidelines - Design Guide, 12/06/2013
- 91/1144/DTS, IEC/TS 62878-2-4 Ed.1: Device Embedded Substrate - Part 2-4: Guidelines - Test element groups (TEG), 12/06/2013
- 100/2194A/CD, IEC 62760: Audio reproduction method for 123 normalized loudness level, 11/22/2013
- 100/2207/NP, Visible light beacon system for multimedia applications, 12/06/2013
- 100/2209/DC, Maintenance of IEC 61606 Ed.2.0 Audio and audiovisual equipment - Digital audio parts - Basic methods of measurement of audio characteristics - Part 1: General, Part 2: Consumer use, 11/01/2013
- 100/2210/FDIS, IEC 62379-5-2 Ed.1.0: Common control interface for networked digital audio and video products - Part 5-2: Transmission over networks - Signalling (TA 4), 11/08/2013
- 100/2211/FDIS, IEC 62608-1/Ed.1: Multimedia home network configuration - Basic reference model - Part 1: System model, 11/08/2013
- 100/2212/DC, Maintenance of IEC 61937-12 Ed.1.0 Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - Part 12: Non-linear PCM bitstreams according to the DRA formats (TA 4), 10/25/2013
- 100/2213/DC, Maintenance of IEC 60268-7 Ed.3.0 Sound system equipment - Part 7: Headphones and earphones, 11/15/2013
- 100/2219/NP, Stress Free Content Management - Monitoring and management of personal digital content (TA 8), 01/03/2014
- 100/2220/NP, File format for professional transfer and exchange of digital audio data (TA 6), 01/03/2014
- CIS/H/259/CD, Amendment 2 to IEC 61000-6-4: Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments, 01/10/2014
- CIS/H/260/CD, Amendment 2 to IEC 61000-6-3: Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments, 01/10/2014



# Newly Published ISO Standards

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

## ACOUSTICS (TC 43)

ISO 1999:2013, Acoustics - Estimation of noise-induced hearing loss, \$126.00

## CERAMIC TILE (TC 189)

ISO 13007-4:2013, Ceramic tiles - Grouts and adhesives - Part 4: Test methods for grouts, \$126.00

## DENTISTRY (TC 106)

ISO 28888:2013, Dentistry - Screening method for erosion potential of oral rinses on dental hard tissues, \$60.00

## DIMENSIONAL AND GEOMETRICAL PRODUCT SPECIFICATIONS AND VERIFICATION (TC 213)

ISO 25178-603:2013, Geometrical product specifications (GPS) - Surface texture: Areal - Part 603: Nominal characteristics of non-contact (phase-shifting interferometric microscopy) instruments, \$142.00

## NUCLEAR ENERGY (TC 85)

ISO 16117:2013, Nuclear criticality safety - Estimation of the number of fissions of a postulated criticality accident, \$150.00

ISO 18589-7:2013, Measurement of radioactivity in the environment - Soil - Part 7: In situ measurement of gamma-emitting radionuclides, \$192.00

ISO/ASTM 51539:2013, Guide for use of radiation-sensitive indicators, \$53.00

## OPTICS AND OPTICAL INSTRUMENTS (TC 172)

ISO 12858-2/Amd1:2013, Optics and optical instruments - Ancillary devices for geodetic instruments - Part 2: Tripods - Amendment 1, \$20.00

ISO 8980-3:2013, Ophthalmic optics - Uncut finished spectacle lenses - Part 3: Transmittance specifications and test methods, \$150.00

## SAFETY OF MACHINERY (TC 199)

ISO 14119:2013, Safety of machinery - Interlocking devices associated with guards - Principles for design and selection, \$204.00

## SURFACE CHEMICAL ANALYSIS (TC 201)

ISO 13424:2013, Surface chemical analysis - X-ray photoelectron spectroscopy - Reporting of results of thin-film analysis, \$181.00

## TEXTILE MACHINERY AND ALLIED MACHINERY AND ACCESSORIES (TC 72)

ISO 21485:2013, Textile machinery - Draw frame for cotton spinning - Vocabulary and principles of construction, \$46.00

## THERMAL INSULATION (TC 163)

ISO 16346:2013, Energy performance of buildings - Assessment of overall energy performance, \$204.00

## ISO Technical Reports

### PAPER, BOARD AND PULPS (TC 6)

ISO/TR 11371:2013, Pulp - Basic guidelines for laboratory refining, \$112.00

## ISO Technical Specifications

### PALLETS FOR UNIT LOAD METHOD OF MATERIALS HANDLING (TC 51)

ISO/TS 8611-4:2013, Pallets for materials handling - Flat pallets - Part 4: Procedure for predicting creep responses in stiffness tests for plastic pallets using regression analyses, \$80.00

## ISO/IEC JTC 1, Information Technology

ISO/IEC 14496-12/Amd1:2013, Information technology - Coding of audio-visual objects - Part 12: ISO base media file format - Amendment 1: Various enhancements including support for large metadata, \$20.00

ISO/IEC 15444-12/Amd1:2013, Information technology - JPEG 2000 image coding system - Part 12: ISO base media file format - Amendment 1: Various enhancements including support for large metadata, \$20.00

ISO/IEC 13818-2:2013, Information technology - Generic coding of moving pictures and associated audio information - Part 2: Video, \$285.00

# 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) 642-4946.

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

NFC Forum

Public Review: August 23 to November 21, 2013

Sentinel Real Estate Corporation

Public Review: July 19 to October 16, 2013

Topcon Medical Systems

Public Review: August 23 to November 21, 2013

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

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

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

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

# Information Concerning

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## American National Standards

### INCITS Executive Board

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

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

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

The INCITS Executive Board seeks to broaden its membership base and is recruiting new participants in the following membership categories:

- special interest (user, academic, consortia)
- non-business (government and major/minor SDOs)

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

### Calls for Members

#### Society of Cable Telecommunications

#### ANSI Accredited Standards Developer

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

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

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

## ANSI Accredited Standards Developers

### Approval of Accreditations

#### Air Conditioning Contractors of America (ACCA)

ANSI's Executive Standards Council has approved the reaccreditation of the Air Conditioning Contractors of America (ACCA), an ANSI Organizational Member, under its recently revised operating procedures for documenting consensus on ACCA-sponsored American National Standards, effective September 27, 2013. For additional information, please contact: Mr. Dick Shaw, Standards Manager & Technical Education Consultant, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22205; phone: 202.251.3835; e-mail: [shawddd@aol.com](mailto:shawddd@aol.com).

#### CSA America, Inc.

ANSI's Executive Standards Council has approved the reaccreditation of the CSA America, Inc. (operating as CSA Group), an ANSI Organizational Member, under its recently revised operating procedures for documenting consensus on CSA Group-sponsored American National Standards, effective October 1, 2013. For additional information, please contact: Mr. David Zimmerman, Manager, Standards Policy and Accreditation, CSA Group, 8501 East Pleasant Valley Road, Cleveland, OH 44131; phone: 216.524.4990; e-mail: [david.zimmerman@csagroup.org](mailto:david.zimmerman@csagroup.org).

#### NSF International

At the direction of ANSI's Executive Standards Council (ExSC), the reaccreditation of NSF International, an ANSI Organizational Member, has been approved under its recently revised operating procedures for documenting consensus on NSF-sponsored American National Standards, effective September 27, 2013. For additional information, please contact: Ms. Jessica Evans, Director, Standards, NSF International, 789 N. Dixboro Road, Ann Arbor, MI 48105-9723; phone: 734.913.5774; e-mail: [jevens@nsf.org](mailto:jevens@nsf.org).

## ANSI Accreditation Program for Third Party Product Certification Agencies

### Initial Application

### Organic Certifiers

#### Comment Deadline: November 4, 2013

Susan D. Siple - Executive Director  
Organic Certifiers  
6500 Casitas Pass Road  
Ventura, CA 93001  
E-mail: [susan@organiccertifiers.com](mailto:susan@organiccertifiers.com)  
Web Site: [www.organiccertifiers.com](http://www.organiccertifiers.com)

Organic Certifiers Inc. has submitted a formal application for accreditation by ANSI for the following scopes:

#### GLOBALG.A.P

**Integrated Farm Assurance –Crops: Fruits and Vegetables**

**Chain of Custody (Crops Base)**

**Propagation Material**

**Primus GFS Regulations**

Please send your comments by November 4, 2013 to Reinaldo Balbino Figueiredo, Senior Program Director, Product Certifier Accreditation, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036, Fax: 202-293-9287 or e-mail: [rfigueir@ansi.org](mailto:rfigueir@ansi.org), or Nikki Jackson, Senior Program Manager, Product Certifier Accreditation, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036, Fax: 202-293-9287 or e-mail: [njackson@ansi.org](mailto:njackson@ansi.org).

## International Organization for Standardization (ISO)

### Establishment of Project Committees

#### ISO/PC 286 – Collaborative Business Relationship Management – Framework

The ISO Technical Management Board has created a new ISO Technical Committee on Collaborative business relationship management -- Framework (ISO/PC 286). The secretariat has been assigned to BSI (the UK). The new project committee has the following scope:

Standardization in the field of collaborative business relationship management – Framework

Organizations interested in serving as the US/TAG administrator or participating on the US/TAG should contact ANSI's ISO Team at [isot@ansi.org](mailto:isot@ansi.org).

#### ISO/PC 287 – Chain of Custody of Forest-Based Products – Requirements

The ISO Technical Management Board has created a new ISO Project Committee on Chain of custody of forest-based products – Requirements (ISO/PC 287). The secretariat has been assigned to ABNT and DIN (Brazil and Germany). The new project committee has the following scope:

Standardization in the field of chain of custody of forest-based products – Requirements

Organizations interested in serving as the US/TAG administrator or participating on the US/TAG should contact ANSI's ISO Team at [isot@ansi.org](mailto:isot@ansi.org).

#### ISO/PC 288 – Educational Organizations Management Systems – Requirements with Guidance for Use

The ISO Technical Management Board has created a new ISO Project Committee on Educational organizations management systems - Requirements with guidance for use (ISO/PC 288). The secretariat has been assigned to KATS (Korea, Republic of). The new project committee has the following scope:

Standardization in the field of Educational organizations management systems – Requirements with guidance for use.

Organizations interested in serving as the US/TAG administrator or participating on the US/TAG should contact ANSI's ISO Team at [isot@ansi.org](mailto:isot@ansi.org).

## Meeting Notice

### ASC Z133

The next business meeting of the Accredited Standards Committee Z133 (ANSI Standard for Arboricultural Operations —Safety Requirements) will take place on October 16, 2013, at the Westin Baltimore Washington Airport – BWI in Linthicum, Maryland. Revision recommendations for the anticipated 2017 revision of the Z133 standard will be discussed. For more information, please contact Janet Huber at the International Society of Arboriculture, ASC Z133 Secretariat, by phone (217) 355-9411, ext. 259, or e-mail [jhuber@isa-arbor.com](mailto:jhuber@isa-arbor.com).

# Public Review Draft

Proposed Addendum aj to Standard 189.1-2011

## Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings

First Public Review (October 2013)  
(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](http://www.ashrae.org/standards-research-technology/public-review-drafts) and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. 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](http://www.ashrae.org/bookstore) or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

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

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



BSR/ASHRAE/USGBC/IES Addendum aj to ANSI/ASHRAE/USGBC/IES Standard 189.1-2011, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
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 addresses site sustainability aspects of building projects by addressing site development that mitigates transportation impacts, as per Section 5.1 Errata dated May 2, 2012. This addendum adds new requirements to Section 5.3.5 (Mitigation of Transportation Impacts), specifically for preferred vehicle parking and electric vehicle charging infrastructure access.*

*Provisions for preferred vehicle parking increase public awareness of low emission, hybrid, and electric vehicles while providing a nominal benefit to owners of such vehicles. Such benefits encourage use of preferred vehicles over other vehicles, thereby reducing transportation impacts.*

*Provisions related to access to electric vehicle charging as part of the building project site reduce one of the most challenging barriers facing widespread use of electric vehicles. Building projects with sites that consider access to electric vehicle charging services can reduce entry barriers to widespread use of such vehicles. Through the ability to recharge at a building site, the use of otherwise limited range vehicles also reduces transportation impacts.*

*Note that the language in this addendum is consistent with existing language in Section 10.3.2.4.1, which addresses preferred parking under the Transportation Management Plan.*

**Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~striketrough~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes. Only these changes 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 substantive changes.**



BSR/ASHRAE/USGBC/IES Addendum aj to ANSI/ASHRAE/USGBC/IES Standard 189.1-2011, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
First Public Review Draft.

## **Addendum aj to 189.1-2011**

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*Add the following new definitions to Section 3.2:*

**Low emission, hybrid and electric vehicles:** Vehicles that meet the EPA Tier 3 emission standards or the California LEV-II standard.

*Modify section 5.3.5 as follows:*

### **5.3.5 Mitigation of Transportation Impacts**

**5.3.5.2 Site Vehicle Provisions.** Where onsite vehicle parking is provided for a building that has a building occupant load greater than 100, at least one of the following shall be provided:

a.) **Provisions for Preferred Parking Spaces.** At least 5 percent of the parking spaces provided shall be designated as preferred parking for *low emission, hybrid and electric vehicles*. Preferred parking spaces shall be located on the shortest route of travel from the parking facility to a building entrance, but shall not take precedence over parking spaces that are required to be accessible for individuals with disabilities. Where buildings have multiple entrances with adjacent parking, parking spaces shall be dispersed and located near the entrances. Such parking spaces shall be provided with signage approved by the AHJ that specifies the permitted usage.

b.) **Provisions for Electric Vehicle Charging Infrastructure.** Two or more electric vehicle charging systems shall be available to the building occupants and shall be located no more than 1/4 mile (400 m) from the *building project*.

# Public Review Draft

Proposed Addendum aw to Standard 189.1-2011

# Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings

First Public Review (October 2013)  
(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](http://www.ashrae.org/standards-research-technology/public-review-drafts) and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. 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](http://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/USGBC/IES Addendum aw to ANSI/ASHRAE/USGBC/IES Standard 189.1-2011, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
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 has two major intents:*

1. *To increase the range of products and materials that are considered under Section 9.4.1, Reduced Impact Materials. Traditionally, a single attribute approach (such as recycled content, regional, or bio-based) has been taken in addressing the environmental requirements for materials in codes and sustainable rating systems. Frequently, these requirements can be met simply by the structural elements of a high performance building. This is due to the inherent nature of construction projects, the cost of the materials, and the work that has been done by the wood, concrete and steel industries to reduce their environmental impacts. While these are important goals to continue to strive for, the non-structural (interior finishes, fixtures and fit out) materials of a building have been in the calculations for meeting the existing requirements, but due to their lower cost have never really been the focus of compliance with requirements for materials and resources. The committee believes that requiring at least two attribute requirements to be met, including a new option introducing multi-attribute product declaration or verification, will not only bring more sustainable products into high performance buildings, but also encourage material manufacturers to reduce their environmental impacts in a more holistic manner.*
2. *To introduce more holistic considerations of supply chain impacts of products via life-cycle assessment (LCA) based approaches in Section 9.4.1.4, Multiple Attribute Product Declaration or Verification. Environmental product declarations (EPD) are gaining ground in industry and green design standards as an accepted methodology for a manufacturer to communicate the impact that products and their manufacturing have on the environment. The goal of EPD is to provide designers and purchasers with data that will inform decision-making – much the way nutritional labels on food packaging does today. However, as these are simply transparency tools and not all industries have developed EPD, the inclusion of other tools such as multi-attribute standards and certifications or completion of an individual LCA are included along with the traditional single attribute approach. The committee feels that the inclusion of these newer tools as options for compliance along with the traditional single attribute approach is a good transitional methodology towards the long-term goal of true multi-attribute product transparency and performance.*

**Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~struck through~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes. Only these changes 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 substantive changes.**

BSR/ASHRAE/USGBC/IES Addendum aw to ANSI/ASHRAE/USGBC/IES Standard 189.1-2011, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
First Public Review Draft.

## Addendum aw to 189.1-2011

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*Revise Section 9.4.1 as follows:*

**9.4.1 Reduced Impact Materials.** The *building project* shall ~~contain materials that~~ comply with any two of the following sections: 9.4.1.1, 9.4.1.2, or 9.4.1.3, and 9.4.1.4. Components of mechanical, electrical, plumbing, fire safety systems, and transportation devices shall not be included in the calculations except for piping, plumbing fixtures, ductwork, conduit, wiring, cabling, and elevator and escalator framing. Calculations shall only include materials *permanently installed* in the project. A value of 45% of the total construction cost is allowed to be used in lieu of the actual total cost of materials.

**9.4.1.1 Recycled Content and Salvaged Material Content.** The sum of the *recycled content* and the salvaged material content shall constitute a minimum of 10%, based on cost, of the total materials in the *building project*.

**9.4.1.1.1 Recycled Content.** The *recycled content* of a material shall be the post-consumer recycled content plus one-half of the pre-consumer recycled content, determined by weight. The recycled fraction of the material in a product or an assembly shall then be multiplied by the cost of assembly to determine its contribution to the 10% requirement.

The annual average industry values, by country of production, for the *recycled content* of steel products manufactured in basic oxygen furnaces and electric arc furnaces are allowed to be used as the *recycled content* of the steel. For the purpose of calculating the *recycled content* contribution of concrete, the constituent materials in concrete (e.g., the cementitious materials, aggregates, and water) are allowed to be treated as separate components and calculated separately.

**9.4.1.1.2 Salvaged Material Content.** For purposes of this standard, a salvaged material is a material that has been removed in a whole form from a structure and reused in the *building project*. The salvaged material content shall be determined based on the cost of a comparable alternative component material.

**9.4.1.2 Regional Materials.** A minimum of 15% of building materials or products used, based on cost, shall be regionally extracted/harvested/recovered or manufactured within a radius of 500 mi (800 km) of the project *site*. If only a fraction of a product or material is extracted/harvested/recovered or manufactured locally, then only that percentage (by weight) shall contribute to the regional value.

**Exception:** For building materials or products shipped in part by rail or water, the total distance to the project shall be determined by weighted average, whereby that portion of the distance shipped by rail or water shall be multiplied by 0.25 and added to that portion not shipped by rail or water, provided that the total does not exceed 500 mi (800 km)

**9.4.1.3 Biobased Products.** A minimum of 5% of building materials used, based on cost, shall be *biobased products*. *Biobased products* shall comply with the minimum biobased contents of the USDA's Designation of Biobased Items for Federal Procurement, contain the "USDA Certified

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*Biobased Product*” label, or be composed of solid wood, engineered wood, bamboo, wool, cotton, cork, agricultural fibers, or other biobased materials with at least 50% biobased content.

**9.4.1.3.1 Wood Building Components.** Wood building components including, but not limited to, structural framing, sheathing, flooring, sub-flooring, wood window sash and frames, doors, and architectural millwork used to comply with this requirement shall contain not less than 60% certified wood content tracked through a chain of custody process either by physical separation or percentage-based approaches. Acceptable certified wood content documentation shall be provided by sources certified through a forest certification system with principles, criteria, and standards developed using ISO/IEC Guide 59, or the WTO Technical Barriers to Trade. Wood building components from a *vendor* are allowed to comply when the annual average amount of certified wood products purchased by the *vendor*, for which they have chain of custody *verification* not older than two years, is 60% or greater of their total annual wood products purchased.

**9.4.1.4 Multiple Attribute Product Declaration or Certification.** A minimum of 10 different products installed in the *building project* shall be documented to have one of the following:

**9.4.1.4.1 Industry-wide Declaration.** A third-party certified Type III industry-wide (generic) environmental product declaration (EPD), including external verification where the manufacturer is explicitly recognized as a participant by the EPD program operator. All EPD shall be consistent with ISO Standards 14025, 14040, 14044 and 21930 with at least a cradle-to-gate scope.

**9.4.1.4.2 Product Specific Declaration.** A publicly available product specific third-party certified Type III EPD, including external verification. The product specific declaration shall be manufacturer specific for a product family. All EPD shall be consistent with ISO Standards 14025, 14040, 14044 and 21930 with at least a cradle-to-gate scope. Each product complying with this section shall be counted as two of the minimum 10 required under 9.4.1.4.

**9.4.1.4.3 Third-Party Multi-attribute Certification.** A certification meeting the minimum criteria of a multiple attribute standard developed using a consensus based process by an ANSI-accredited standard development organization. Each product complying with this section shall be counted as two of the minimum 10 required under 9.4.1.4.

**9.4.1.4.4 Product Life Cycle.** A third-party certified life cycle product assessment based on ISO Standards 14040 and 14044 that minimally covers cradle-to-gate scope. Each product complying with this section shall be counted as two of the minimum 10 required under 9.4.1.4.

*Add the following references to Section 11:*

International Organization for Standardization (ISO)  
ISO Central Secretariat, 1 rue de Varembee, Case postale 56  
CH-1211 Geneva 20, Switzerland  
+41-22-749-01-11; www.iso.org

BSR/ASHRAE/USGBC/IES Addendum aw to ANSI/ASHRAE/USGBC/IES Standard 189.1-2011, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings  
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<u>ISO 14025 - 2006</u>	<u>Environmental labels and declarations – Type III environmental declarations – Principles and procedures</u>	<u>9.4.1.4</u>
<u>ISO 14040 – 2006</u>	<u>Environmental management – Life cycle assessment – Principles and framework</u>	<u>9.4.1.4</u>
ISO 14044 – 2006	Environmental management — Life cycle assessment — Requirements and guidelines	<u>9.4.1.4</u> , 9.5.1, 9.5.1.2
<u>ISO 21930 – 2007</u>	<u>Sustainability in building construction – Environmental declaration of building products</u>	<u>9.4.1.4</u>

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## NSF/ANSI Standard

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

## 5 Filters

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### 5.2.1 Filtration area

**5.2.1.1** The ~~actual~~ **calculated** filtration area shall be ~~within  $\pm 5\%$  of~~ **greater than or equal to** the effective filtration area specified on the filter data plate.

#### ~~NOTE 1—~~

For leaf or disc-type precoat media-type filters, the effective filtration area ~~is~~ **shall be** equal to the total surface area of all septa minus the combined area of all septum support members wider than 6.4 mm (0.25 in) in contact with the septum during filtration.

#### ~~NOTE 2—~~

For tube-type precoat media-type filters, ~~the effective filtration area shall be~~ **is equal** ~~applied~~ to the total **uncoated (active)** surface area of the precoat filter ~~media-coated~~ tubes minus the combined area of all septum support ~~members~~ wider than 6.4 mm (0.25 in) in contact with the septum during filtration. The effective filtration area shall be no more than 1.5 times the total surface area of the uncoated tubes and shall be calculated on an average flow velocity through the filter cake. The average flow velocity shall not exceed 0.377 ft / min. The multiplier shall be calculated by dividing the maximum gpm/ft<sup>2</sup> flow rate at the total uncoated surface of the filter elements (when operating at a maximum 0.377 ft / min flow velocity through the filter cake) by the maximum gpm/ft<sup>2</sup> flow rate at the rated effective filtration area (Table 5.1) of the filter elements with the effective filtration rate not exceeding those listed in table 5.2.

Table 5.1- Multiplier for determining rated effective filter area for tube-type elements

Element diameter (inches)	Minimum filter cake thickness (inches)	Maximum average flow velocity through filter cake (ft/ min)	Maximum flow rate for uncoated (active) surface of filter element L/min/m <sup>2</sup> (gal/min/ft <sup>2</sup> )	Factor to determine effective filter area from active surface area	Maximum flow rate for rated effective filter area L/min/m <sup>2</sup> (gal/min/ft <sup>2</sup> )
0.5	0.125	0.377	122 (3.00)	1.5	81 (2.0)
0.75	0.125	0.377	115 (2.82)	1.41	81 (2.0)
1.0	0.125	0.377	111 (2.73)	1.36	81 (2.0)
1.25	0.125	0.377	109 (2.67)	1.33	81 (2.0)

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1.5	0.125	0.377	107 (2.63)	1.31	81 (2.0)
1.75	0.125	0.377	106 (2.60)	1.30	81 (2.0)
2.0	0.125	0.377	105 (2.57)	1.29	81 (2.0)
2.25	0.125	0.377	104 (2.56)	1.28	81 (2.0)

**5.2.1.2** For wirewound and similar-type elements, the width of septum support members shall not exceed 0.25 in (6.4 mm). The distance between adjacent septum members and the distance between adjacent openings shall not exceed 0.005 in (0.127 mm).

**5.2.1.3** Septa shall be maintained in such a position as to preclude surface contacts that reduce effective filtration area. Systems designed with flexible tube-type elements operating with incidental minor contact shall be acceptable, providing that the system meets the turbidity reduction requirements of 5.1.9.

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## **5.2.3 Spacing of elements**

**5.2.3.1** Filters shall be designed to provide a minimum clearance between adjacent precoated filter elements in order to provide the intended measure of performance. Clearance for tube-type elements shall be equal to the thickness or diameter of the element or 1 in (25 mm), whichever is less when the uncoated tubes are measured edge to edge at the point where the tubes are anchored into the head of the filter.

**Reason:** When looking at the minimum clearance between adjacent filter elements as stated in 5.2.3.1 in conjunction with the 1.5 multiplier of the uncoated tubes for precoat media thickness to derive effective filter area, it is possible to certify a precoat media filter where bridging of precoat media between adjacent filter elements could occur to achieve the stated effective filter area.

**5.2.3.2** The clearance between filter elements shall be sufficient to prevent contact between the septa during backwashing operations meet the requirements of the cleanability test of Annex B, section B.4.

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## **5.2.8 Filtration rate**

The design filtration rate of precoat media-type filters shall not exceed the values specified in Table 5.24.

**Table 5.24 – Maximum design filtration rates for precoat media-type filters**

Filter design	Intended application	Maximum design filtration rate
slurry feed	residential pool or spa/hot tub	3 gal/min/ft <sup>2</sup> (122 L/min/m <sup>2</sup> )
slurry feed	public pool or spa/hot tub	2.5 gal/min/ft <sup>2</sup> (102 L/min/m <sup>2</sup> )
no slurry feed	residential pool or spa/hot tub	2.5 gal/min/ft <sup>2</sup> (102 L/min/m <sup>2</sup> )
no slurry feed	public pool or spa/hot tub	2 gal/min/ft <sup>2</sup> (81 L/min/m <sup>2</sup> )

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

***[NOTE: The revisions to the foreword are provided for informational purposes only and are not part of the actual ballot.]***

## Foreword

It was noted during the discussion that when NSF/ANSI 60 was originally devised, most production of direct additives occurred in or was overseen by owners from countries where corruption played an insignificant role in business. Today, a substantial portion of the production of direct additives to water has moved to countries where this is no longer the case. Transparency International's Corruption Perceptions Index (CPI) is perhaps the most famous of a number of such indexes constructed to aid international businesses in understanding the conditions they will face in the different countries in which they do business. Such conditions include labor rates, public holidays, endemic diseases, labor laws, business etiquette and corruption. The index has been constructed annually since 1995 for Transparency International by Prof. Johann Graf Lambsdorff of the University of Passau. The process sources 16 independent surveys of countries, and a country must appear in at least three of these sources in order for a score to be calculated. ~~A score of 5.0 or lower on the CPI indicates that corruption will be a significant factor in doing business in that country.~~ The CPI was revised in 2012 from a scale of 0–10 to 0–100, where the lowest possible level of perceived corruption would equal a score of 100 and the highest possible level of perceived corruption would equal a score of 0. As production moves to a wider variety of source countries and raw material sourcing is further diversified due to cost considerations, there must be a method to differentiate locations where oversight can be relaxed, and where it must be maintained. Therefore NSF 223 establishes additional requirements for locations in countries with a CPI score of < 50. This external source of such judgments is the method most commonly used worldwide and is used in this Standard as one of the determinants as to where oversight shall be maintained.

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NSF/ANSI Standard  
for Drinking Water Additives –

## Conformity Assessment Requirements for Certification Bodies that Certify Products Pursuant to NSF/ANSI 60: Drinking Water Treatment Chemicals – Health Effects

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### 1 General

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#### 1.3 Normative references

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The following documents contain provisions that, through reference, constitute provisions of this NSF Standard. At the time this Standard was balloted, the editions listed below were valid. All documents are subject to revision, and parties are encouraged to investigate the possibility of applying the recent editions of the documents indicated below. The most recent published edition of the document shall be used for undated references.

ISO/IEC Guide 65: 1996 *General requirements for bodies operating product certification systems*<sup>1</sup>

ISO/IEC Guide 17020: 1998 *General criteria for the operation of various types of bodies performing inspection*<sup>1</sup>

NSF/ANSI 60 - *Drinking Water Treatment Chemicals – Health Effects*

Transparency International *Corruption Perception Index, 2009-2012*<sup>2</sup>

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## **5 Facility audits**

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### **5.2 Facility audits during surveillance**

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**5.2.3** If the country in which the manufacturing, blending, diluting, dissolving, re-packaging, re-labeling, or product transferring facility is located has a score less than ~~5.0~~ 50 or lacks a Corruption Perceptions Index on Transparency International's most recent Corruption Perceptions Index (TI CPI), then the audit frequency for a facility shall be increased to at least twice per calendar year. The facility shall however, attain the audit frequency in 5.2.1 if,

- a) The facility engages in the audit regimen of 5.1 and if the facility demonstrates and maintains 36 months of continuous freedom from the deficiencies listed in 5.2.2, or
- b) the facility is part of a wholly owned global business entity, or joint venture where all parties are operating under a quality management plan as described as in c) below.
- c) The facility's Quality or Environmental Management or Product Stewardship program includes one or more of the programs listed below and is capable of supporting and demonstrating the consistent fulfillment of the product requirements in NSF/ANSI 60. Registration by an external certification authority shall be the means to demonstrate the implementation of the quality or environmental management systems or product stewardship program. For programs 1, 2, and 3, the external certification authority shall be accredited by an International Accreditation Forum signatory. The certification body shall assess whether the facility's Quality or Environmental Management or Product Stewardship program is capable of

<sup>1</sup> International Standardization Organization, 1 ch. De la Voie-Creuse, Case postale 56, CH 1211 Geneva, 20 Switzerland, <www.iso.org>.

<sup>2</sup> Transparency International, Alt-Moablt 961, 10559 Berlin, Germany, <www.transparency.org>.

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supporting and demonstrating the consistent fulfillment of the product requirements in NSF/ANSI 60.

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**5.2.4** Facilities that blend, dilute, dissolve, re-label, repackage, or transfer non-certified products that are supplied by a facility that is located in a country with a TI CPI < ~~5-0~~ **50** shall have an audit frequency of twice per calendar year. The certification body has the option to reduce the inspection frequency to once every 12 months if the supplying facility meets one of the following criteria:

- a) The supplier to the facility also receives audits from a certification body that is accredited by an International Accreditation Forum signatory, according to the requirements of this Standard.
- b) The blender, diluter, dissolver, re-labeler, re-packager, or transfer facility has an alternate method that is acceptable to the certification body, which provides a mechanism to verify that no changes have been made to the supplied product and continues to be provided identical product.

***Reason: The proposed revision will adjust the TI CPI referenced under section 5 to coincide with the updated scale of <50 and reference the 2012 version of the TI CPI.***

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## Annex A<sup>3</sup> (informative)

### Examples of Conformity Assessment Activities

***[NOTE: The revisions to Annex A are provided for informational purposes only and are not part of the actual ballot.]***

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**A.5 Example of an alternate method that would be acceptable to the certification body to provide verification that non-certified suppliers do not make unauthorized changes to the product.**

A re-packaging firm located in Country 1 (TI CPI <50), is certified by Certification Agency A, and has three suppliers. One supplier is in Country 1 and is certified by Certification Agency B. Another supplier is located in Country 2, and is certified by Certification Agency C. The third supplier is located in Country 3, and is not certified. The third supplier has each batch of material sent to the re-packaging firm tested for the substances prescribed in NSF/ANSI 60 by a third-party testing organization located in Country 4 (TI CPI >50). The testing organization is accredited by an international oversight agency, has a sound reputation, and its ownership is independent of the Country 3 supplier.

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<sup>3</sup> The information contained in this Annex is not part of this American National Standard (ANS) and has not been processed in accordance with ANSI's requirements for an ANS. Therefore, this Annex may contain material that has not been subjected to public review or a consensus process. In addition, it does not contain requirements necessary for conformance to the Standard.

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Issue 3 Revision 1 (September 2013)

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**A.6 Example of an alternate method that would not be acceptable to the certification body to provide verification that non-certified suppliers do not make unauthorized changes to the product.**

A blender, diluter, dissolver, re-labeler, re-packager or a transfer facility located in Country 5 (TI CPI <50), is certified by Certification Agency A, and has two suppliers. One supplier is in Country 6 and is certified by Certification Agency B. The second supplier is located in Country 7, and is not certified. The second supplier has each batch of material sent to the blender, diluter, dissolver, re-labeler, re-packager, or the transfer facility tested for the substances prescribed in NSF/ANSI 60 by a third-party testing organization located in Country 8. The testing organization is not accredited by any international oversight agency, it has been noted in the press for lapses in quality, and it does not have other multi-national clients. It is determined later that the testing organization's ownership is related by marriage to the owners of the blender, diluter, dissolver, re-labeler, re-packager, or transfer facility's firm

## BSR/UL 1191, Standard for Safety for Components for Personal Flotation Devices

## PROPOSAL

Table 19.2

## Webbing closures and adjusters

Tests	Exposure <sup>a</sup>	Test method	Number of samples <sup>b,c</sup>	Use code <sup>d</sup>	Compliance criteria pounds-force (N)
Ultimate Breaking Strength <sup>l</sup>	1. SC	19.3.1.1	5 for each separate conditioning	1, 1F, and 5	<b>Exposures 1 - 10, except 2b</b>
	2a. Xe <sub>500</sub> or CA <sub>100</sub> <sup>g</sup>	19.3.1.3			Minimum <sup>3</sup> 360 (1600)
	2b. Xe <sub>750</sub> or CA <sub>300</sub> or Nt <sub>75</sub> <sup>g</sup>			2F, 3F, 5WV, and 5H	<b>Exposures 1 - 10, except 2b</b>
					Minimum <sup>3</sup> 225 (1000)
	3. 70 hours immersion in ASTM Ref. Fuel B <sup>e</sup>			2, 3, 4H, and 5R	<b>Exposure 1</b>
					Minimum <sup>3</sup> 200 (888)
	4. 70 hours immersion in IRM 902 (Calumet Oil No. 2) <sup>e</sup>			2C and 3C	<b>Exposures 1 - 10, except 2b</b>
					Minimum <sup>3</sup> 115 (511)
	5. 70 hours immersion in Perchloroethylene <sup>e</sup>			2, 3, 4H, and 5R	<b>Exposures 2a - 10, except 2b</b>
					Minimum <sup>3</sup> 150 (666)
	6. 70 hours immersion in 0.5 percent per volume AATCC 2003 Standard Reference Liquid Detergent, by volume on no greater than "1" hardness water <sup>e</sup>			All except 1F, 2F, 3F, and 5H	<b>Exposure 2a</b>
					Average <sup>3</sup> 60 percent of exposure 1,
					or
	7. 70 ±2°C (158 ±40F) for 7 days <sup>i</sup>				<b>Exposure 2b</b>
					Average <sup>3</sup> 40 percent of exposure 1.
	8. -30 ±2°C (-22 ±40F) for 24 hours. <sup>i</sup>				
				All	<b>Exposures 3 - 10</b>
	9. 720 hours of Salt Spray as specified in ASTM B117-94. <sup>f</sup>				Average <sup>3</sup> 60 percent of exposure 1.
	10. Fatigue <sup>j</sup>			1F, 2F, 3F, and 5H	<b>Exposure 2b</b>
					Average <sup>3</sup> 40 percent of exposure 1.
Strength/Slippage	1. SC	19.3.2.1 and 19.3.2.2	5 for each separate exposure each for webbing Type I and II. See Table 19.1 for webbing types.		<b>Exposures 1 - 3</b> Shall support without breaking, distorting, or slipping more than 1 inch (25.4 mm) for the following weights for 10 minutes using the fixed-straight-length body strap method. The load is to be
	2. 2 minute water soak <sup>k</sup>				
	3. Highest percent loss conditioning from the				

	Ultimate Breaking Strength Test <sup>h</sup>				doubled for the closed-loop assembly method:
				1, 1F, and 5	360 (1600)
				2F, 3F, 5WV, and 5H	225 (1000)
				2, 3, 4H, and 5R	150 (666)
				2C and 3C	115 (511)
Inadvertent Release Test (Dual-tab closures only)	SC	19.3.3.1 and 19.3.3.2	5	1, 1F, 2, 2F, 2C, 3, 3F, 3C, 4H, 5, 5WV, 5H, and 5R	Each sample shall support for 5 minutes without breaking, disengagement, or similar condition, a load of at least 1/2 the minimum breaking strength specified for exposure 1 in the Ultimate Breaking Strength Test using webbing Type II.

<sup>a</sup> See Table 2.2 for conditioning details.

<sup>b</sup> Color dependent. See 2.4.

<sup>c</sup> For polymeric hardware, a minimum of 75 hardware/webbing Type II assemblies and 10 hardware/webbing Type I assemblies (including 5 extra). For metal hardware, 30 hardware/webbing Type II assemblies.

<sup>d</sup> See Table 2.1 for an explanation of Use Code designations.

<sup>e</sup> Samples are to be blotted dry to remove surface moisture and are to rest for 30 minutes at ambient room temperature prior to the strength test.

<sup>f</sup> Metallic hardware only. Not applicable to certified AISI 300 or 400 series stainless steel or equivalent corrosion resistant materials.

<sup>g</sup> Each sample is to be routed with webbing. Mount each sample vertically, unbuckled, so the center of the sample is in the same plane as the horizontal centerline of the source of normal radiation. The outside face of the samples is to face the arcs. Replace webbing before testing.

<sup>h</sup> The conditioning (1 - 10) that results in the highest loss in breaking strength for the average of 5 samples, when compared to the corresponding strength of the same group of 5 samples from Standard Conditioning.

<sup>i</sup> Immediately following removal from the cold chamber, the samples are to be dropped using different orientations onto a concrete floor five times from a height of 6 feet (1.8 m). Each sample is then to be manually operated five times and then examined for signs of cracking. The samples are then to be returned to the cold chamber for 15 minutes. The samples are then to be individually removed and subjected to the Ultimate Breaking Strength Test and Strength/Slippage Test.

<sup>j</sup> Each flexible or moveable tab of polymeric part is to be mechanically operated 5000 cycles at a rate of 40 to 60 cycles per minute. The tab is to be completely engaged/disengaged. Also, for hardware which is designed to separate into two parts (i.e., buckles), the parts are to be completely engaged/disengaged. In addition, the samples are to be manually operated 5 times prior to the Ultimate Breaking Strength Test and Strength/Slippage Test.

<sup>k</sup> The webbing which is used for the applicable tests in 19.3.1 is to be soaked in fresh water for 2 minutes prior to the Strength/Slippage Test.

<sup>l</sup> For metallic hardware, only exposures 1 and 9 are applicable.

Table 20.1

#### Lacing closures and adjusters

Tests	Exposure <sup>a</sup>	Test method	Number of samples <sup>b,c</sup>	Use codes <sup>d</sup>	Compliance criteria pounds-force (N)
Ultimate Breaking Strength <sup>l</sup>	1. SC	20.3.1.1-20.3.1.3	5 for each separate conditioning	2, 3, and 5R (Primary adjustment used in multi-routed side lacing.)	<b>Exposure 1, 2a, and 3 - 10.</b>
	2a. Xe <sub>500</sub> or CA <sub>100</sub> <sup>g</sup>				Minimum <sup>3</sup> 150 lbs (666N) divided by the minimum number of lacing passes
	2b. Xe <sub>750</sub> or CA <sub>300</sub> or Nt <sub>75</sub> <sup>g</sup>				
	3. 70 hours immersion in ASTM Ref. Fuel B <sup>e</sup>			2F, 3F, 5 and 5H (Primary adjustment used in multi-routed side lacing.)	<b>Exposure 1, 2a, and 3 - 10.</b>
					Minimum <sup>3</sup> 225 lbs (1008 N) divided by the minimum number of lacing passes.
	4. 70 hours immersion in IRM 902 (Calumet Oil No. 2) <sup>e</sup>				
	5. 70 hours immersion in Perchloroethylene <sup>e</sup>			2, 2F, 3, 3F, 5, and 5H (Secondary closure or adjustment use in encircling drawstrings)	<b>Exposure 1, 2a, and 3 - 10.</b>
	6. 70 hours immersion in 0.5 percent per volume AATCC 2003 Standard Reference Liquid Detergent, by volume, in no greater than "1" hardness water <sup>e</sup>				Minimum <sup>3</sup> 70 lbs (311 N)
	7. 70 ±2°C (158 ±4°F) for 7 days <sup>e</sup>			2, 2F, 3, 3F, 5, and 5H.	<b>Exposure 3 - 10.</b>
	8. -30 ±2°C (-22 ±4°F) <sup>l</sup>				Average <sup>3</sup> 60 percent of exposure 1 strength
	9. 720 hours of Salt Spray as specified in ASTM B117-94 <sup>f</sup>			2, 3, 5R	<b>Exposure 2a</b>
					Average <sup>3</sup> 60 percent of exposure 1 strength,
					or
	10. Fatigue <sup>l</sup>				<b>Exposure 2b</b>
					Average <sup>3</sup> 40 percent of exposure 1 strength
				2F, 3F, and 5H	<b>Exposure 2b</b>
					Average <sup>3</sup> 40 percent of exposure 1 strength.
Strength/Slippage	1. SC	20.3.2.1-20.3.2.3	5 for each separate exposure		<b>For exposures 1 - 2,</b> Shall support without breaking, distorting, or slipping more than 1 inch (25.4 mm) a weight equal to the following load for the following duration using the fixed-straight-length body strap method. The load is to be doubled for the closed-loop assembly method:
	2. 2 minute water soak <sup>k</sup>				
					<b>A. For primary</b>

					adjustment used in multi-routed side lacing for 10 minutes:
				2, 3, and 5R	1. 150 lbs (666 N) divided by the minimum number of lacing passes.
				2F, 3F, 5 and 5H	2. 225 lbs (1,009 N) divided by the minimum number of lacing passes
				2, 2F, 3, 3F, 5 and 5H	B. For secondary closure or adjustment used in encircling drawstrings 70 lbs (311 N) for 5 minutes
Tab Disengagement Test	SC	20.3.3.1 and 20.3.3.2	5	2F, 3F and 5H	A moveable tab shall remain engaged and operable when subjected to a shock load of 5 foot-pounds.

<sup>a</sup> See Table 2.2 for conditioning details.

<sup>b</sup> Color dependent. See 2.4.

<sup>c</sup> For polymeric hardware, a minimum of 80 samples. For metal hardware, 35 hardware samples.

<sup>d</sup> See Table 2.1 for an explanation of Use Code designations.

<sup>e</sup> Samples are to be blotted dry to remove surface moisture and are to rest for 30 minutes at ambient room temperature prior to the strength test.

<sup>f</sup> Metallic hardware only. Not applicable to certified AISI 300 or 400 series stainless steel or equivalent corrosion resistant materials.

<sup>g</sup> Each sample is to be routed with lacing. Mount each sample vertically so the center of the sample is in the same plane as the horizontal centerline of the source of normal radiation. The outside face of the samples is to face the arcs. Replace lacing before testing.

<sup>h</sup> The number of lacing connections between adjacent pieces (i.e., front/back) on a PFD.

<sup>i</sup> Immediately following removal from the cold chamber, the samples are to be dropped using different orientations onto a concrete floor five times from a height of 6 feet (1.8 m). Each sample is then to be manually operated five times and then examined for signs of cracking. The samples are then to be returned to the cold chamber for 15 minutes. The samples are then to be individually removed and subjected to the Ultimate Breaking Strength Test and Strength/Slippage Test.

<sup>j</sup> Each flexible or moveable tab of polymeric part is to be mechanically operated 5000 cycles at a rate of 1 cycle/second. The tab is to be completely engaged/disengaged. Also, for hardware which is designed to separate into two parts (i.e., buckles), the parts are to be completely engaged/disengaged. In addition, the samples are to be manually operated 5 times prior to the Ultimate Breaking Strength Test and Strength/Slippage Test.

<sup>k</sup> The lacing which is used for the applicable tests in 20.3.1 - 20.3.3.2 is to be soaked in fresh water for 2 minutes prior to the Strength/Slippage Test.

For metallic hardware, only exposures 1 and 9 are applicable.



## BSR/UL 1203, Standard for Safety for Explosion-Proof and Dust-Ignition Proof Electrical Equipment for Use in Hazardous (Classified) Locations

### 1. Revisions to Section 5 per responses to comments

#### PROPOSAL

#### 5 Enclosure Types

5.1 ~~An enclosure shall comply with the applicable requirements specified in Table 5.1. An enclosure that is intended for use in other environmental conditions shall also comply with the applicable requirements for each enclosure type, for example Type 3, 4X, or 6, specified in the Standard for Enclosures for Electrical Equipment, Environmental Considerations, UL 50E.~~

5.2 ~~An enclosure that is intended for use in other environmental conditions shall also comply with the applicable requirements for each enclosure type, for example Type 3, 4X, or 6, specified in the Standard for Enclosures for Electrical Equipment, Environmental Considerations, UL 50E. A Type 3, 3R, 3S, 4, 4X, 6, or 6P enclosure is not prohibited from being marked "Raintight" when no water enters the enclosure or "Rainproof" when no water enters the enclosure at a point higher than the lowest live part. Compliance with these requirements shall be determined by the applicable tests in the Standard for Enclosures for Electrical Equipment, Environmental Considerations, UL 50E.~~

5.3 ~~A Type 3, 3R, 3S, 4, 4X, 6, or 6P enclosure is not prohibited from being marked "Raintight" when no water enters the enclosure or "Rainproof" when no water enters the enclosure at a point higher than the lowest live part. Compliance with these requirements shall be determined by the applicable tests in the Standard for Enclosures for Electrical Equipment, Environmental Considerations, UL 50E.~~

**Table 5.1**

#### ***Enclosure types for hazardous locations***

<b>Type number</b>	<b>Application</b>	<b>Requirements</b>
7	Class I, Division 1, Groups A, B, C, or D - Indoor Hazardous Locations - Air-Break Equipment	Part I, Sections 8-34
9	Class II, Division 1, Groups E, F, or G - Indoor Hazardous Locations - Air-Break Equipment	Part II, Sections 35-57

## BSR/UL 2580, Standard for Batteries for Use In Electric Vehicles

### 1. Recirculation of the Proposed New Edition of the Joint UL/ULC Standard for Batteries for Use In Electric Vehicles, UL 2580/ULC-S2580.

6.30 MOSOC - Maximum Operating State of Charge. ~~See 18.1.~~

6.37 SAFETY CRITICAL CIRCUITS/CIRCUITS/COMPONENTS - Those circuits or discrete components that are relied upon for safety as identified in the safety analysis of Section 13.

6.39.1 THERMAL RUNAWAY (CELL) - A condition where an increase in temperature of the cell results in exothermic reactions that further increases the cell temperature due to increased reactions within the cell. A thermal runaway often leads to a destructive result such as a fire or explosion when the heat cannot be safely dissipated.

6.45 VOLTAGE, NOMINAL - A specified operating potential of a battery at its fully charged state.

8.3 Conductive parts in contact at terminals and connections shall not be subject to corrosion due to electrochemical action. Combinations above the line in Table C.1 of Annex C shall be avoided.

Exception: Dissimilar metal combinations above the line may be chosen if provided with a coating to prevent corrosion such as silver or other protective coating determined to be sufficient for this purpose.

16.2 Lithium ion cells shall comply with the requirements for secondary lithium cells in the Standard for Lithium Batteries, UL 1642 with modifications as outlined in Exception No. 1 - 4 below.

*Exception No. 1: The overall dimensions of the projectile test aluminum test screen may be increased from those outlined in the Standard for Lithium Batteries, UL 1642 to accommodate large cells intended for EV applications but the flat panels of the test screen shall not exceed a distance of 305 mm (12 in) from the cell in any direction.*

*Exception No. 2: The overall external resistance for the short circuit test shall be less than or equal to 20 mW.*

*Exception No. 3: The crush test shall be a bar crush test rather than a flat plate crush using a bar with a 15-cm (5.9-in) diameter. The force is to be applied until one of the following occurs first:*

- a) A voltage (OCV) drop of one-third of the original cell voltage occurs; or*
- b) A deformation of 15% or more of initial cell dimension occurs; or*
- c) A force of 1000 times the weight of cell is reached.*

*Exception No. 4: For cells whose weight is greater than 500 g, the maximum temperature of the heating test shall be held for 30 min rather than 10 min.*

*Exception No. 5-4: The requirements outlined in Annex B may be used instead of the Standard for Lithium Batteries, UL 1642 for lithium ion cells and Exception No. 1 - 3 above.*

25.3 The test is to continue until ultimate results occur. Ultimate results are considered to have occurred when one of the following occurs:

- a) The sample charging is terminated by the protective circuitry whether it is due to voltage or temperature controls. The DUT is monitored per 18.5 and 20.2; or

b) Where an automatic interrupt function fails to operate, or no such function the charging is provided and the DUT is charged to 110% of its rated charge capacity or a manufacturer-specified limit. (110% or other limit would be considered as a failure of the overcharge evaluation); or

b-c) EESA failure occurs as evidenced by explosion, fire.

30.6 The test voltages shall be applied for a minimum of 1 min ~~and all cells shall be disconnected from the circuits under test during the test.~~ The test voltage should be applied between the positive terminal or negative terminal and the accessible non-current carrying part in turn, to avoid short circuiting between the positive and negative terminals.

37.2 After being equilibrated at room temperature, an electric energy storage assembly at MOSOC per 18.1 is to be dropped from a minimum height of 1.0 m (3.3 ft) to strike a flat concrete surface in the position most likely to produce the adverse results and in a manner and height most representative of what would occur during maintenance and handling/removal of the EESA during servicing.

40.2 A fully charged electrical energy storage assembly (MOSOC per 18.1) shall be subjected to the test method per the Standard for Environmental Testing - Part 2: Tests - Test Kb: Salt Mist, Cyclic (Sodium Chloride Solution), IEC 60068-2-52, with a severity level of 6.

*Exception No. 1: A sample at the module level that would be representative of the electric energy storage assembly may be used for this test.*

*Exception No. 2: This test may be modified to with a severity level of 1 for those EESAs not intended to be installed in an underbody location but may have some exposure to salt fog.*

*Exception No. 3: This test may be waived for those EESAs not intended to be located where they will be subject to salt exposure, such as those EESAs that are provided with an enclosure that prevents salt fog exposure (i.e. IP67) and not intended to be installed in an underbody location.*

*Exception No. 4: This test may be waived on an EESA whose enclosure has been evaluated for outdoor use and resistance to corrosion (i.e. NEMA Type 4X or 6P) per the Standard for Enclosures for Electrical Equipment, Environmental Considerations, UL 50E.*

41.2 With the DUT in its normal operating orientation and with switches/contactors in closed position and with the output cable connected representative of the end use vehicle application (with the opposite end of the cable outside of the water), it shall be subjected to the immersion. The DUT is to be immersed in salt water (5% by weight NaCl in H<sub>2</sub>O) at room temperature for a minimum of 2-1 h or until any visible reactions have stopped. The water depth is to be sufficient to completely submerge the DUT.

*Exception: Testing may be conducted at the module level that is representative of the energy storage assembly.*

~~41.3 The isolation detection system, if provided, shall be monitored during the test to ensure that a minimum isolation resistance of 100 W/V is maintained. At the conclusion of the tests, the sample shall be subjected to an isolation resistance test in accordance with 31.2(a).~~

~~41.3 41.4 As a result of the immersion, there shall be no fire or explosion. The minimum isolation resistance shall be 100 W/V. Non-complying results are as noted in Table 3.~~

43.2 The fully charged electric energy storage assembly (MOSOC per 18.1) is to be subjected to the internal fire test which consists of heating ~~on an~~ an internal cell that is centrally located within the DUT until thermal runaway or otherwise forcing the failure of the cell through any means necessary (i.e. overvoltage, nail penetration, etc. that results in a thermal runaway condition) and determining whether or not that failure remains safely controlled within the DUT. The applied failure mechanism is to be applied to a single cell at one time. The thermal runaway of the cell should be reached within 10 min of

application of the failure mechanism. Once the thermal runaway is initiated the mechanism used to create the thermal runaway is shut off or removed and the DUT is subjected to a 1-h observation period.

*Exception No. 1: Testing on a cell that is other than centrally located within the DUT may additionally be conducted if it is not clear, which would be the worst case scenario. The location of the failed cell is to be documented for each test.*

*Exception No. 2: Testing may be conducted on a representative subassembly consisting of one or more modules and surrounding representative environment, if it can be demonstrated that there is no propagation beyond the subassembly.*

44.2 Electric Energy Storage Assemblies are to be marked with the manufacturer's name, trade name, trademark, or other descriptive marking which may identify the organization responsible for the product, part number, or model number. The assemblies shall also be marked with their electrical ratings in nominal volts dc and Ah or Wh, and marked with their chemistry (i.e. lithium ion, ni-cad etc.) for battery and hybrid battery/electrochemical capacitor assemblies and marked in volts dc and farads for electrochemical capacitor assemblies.

**Table 3**  
**Noncompliant test results**  
(See 22.1, 23.1, 25.6, 26.9, 27.5, 29.6, 33.6, 34.3, 35.6, 36.6, 39.4, 40.4, 41.4, and 43.3)

Non-compliant results	Designation	Tests <sup>a</sup>
Explosion	E	All tests
Fire	F	All tests except external fire exposure
Combustible Concentrations	C	All tests except external fire exposure and internal fire exposure
Rupture (enclosure)	R	All tests except external fire exposure, internal fire exposure and crush
Leakage (external to enclosure)	L	All tests except external fire exposure, internal fire exposure and crush
Venting <sup>c</sup>	V	All tests except crush, drop, rotation, immersion, external fire exposure, and internal fire exposure: <ul style="list-style-type: none"> <li>Operational level limit if applicable (i.e. venting into passenger compartment) when using analysis methods per Section 23 for all tests.</li> </ul>
		Crush, drop, and rotation tests include the following ventilation check: <ul style="list-style-type: none"> <li>Crash/Nonoperational level limit: Toxic gas release of ERPG-2 or greater when using analysis methods per Section 23.</li> </ul>
Electric shock hazard (resistance below isolation resistance limits)	S	All tests (if hazardous voltage) except <u>immersion</u> , external fire exposure, and internal fire exposure
Loss of protection controls <sup>b</sup>	P	All tests except external fire exposure, internal fire exposure, crush, and immersion

<sup>a</sup> For tests that evaluate one specific part of the DUT such as the mold stress, continuity, dielectric voltage withstand, isolation resistance and material tests only those compliance criteria noted in the tests method need be applied. See individual tests for additional compliance criteria details.

<sup>b</sup> Loss of protection controls - A failure of software and/or electronic controls, discrete control devices or other built-in electrical protection that results in a hazardous event during the after test cycling when operational.

<sup>c</sup> Vapors from internal cell venting as a result of testing are allowed to exit the enclosure only through intended exhaust openings and not into the passenger compartment. If venting into the passenger compartment can occur, analysis per Section 23 shall be conducted. See also definitions regarding toxic gas release in 6.40 and 6.41.

B2.3.2 The cell shall be dropped from a height of 1.0 m (3.28 ft) onto a flat concrete surface. The DUT is to be dropped three times with the orientation of the DUT in each drop varied so that ~~the~~ it impacts the floor in a different manner for each drop. The cell is to be subjected to an observation period of 1 h and then examined to determine compliance.

B2.6.1 The cell shall be subjected to the temperature cycling test as outlined in 6.2.2.1.1 of the Standard for Secondary lithium-Ion Cells for the Propulsion of Electric Road Vehicles - Part 2: Reliability and Abuse Testing, IEC 60662-2.

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