American National Standards

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

**Addenda**


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](https://www.ashrae.org/standards-research--technology/public-review-drafts)

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

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

**Addenda**


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](https://www.ashrae.org/standards-research--technology/public-review-drafts)

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

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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](https://www.ashrae.org/standards-research--technology/public-review-drafts)

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

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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](https://www.ashrae.org/standards-research--technology/public-review-drafts)

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

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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](https://www.ashrae.org/standards-research--technology/public-review-drafts)

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

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UL (Underwriters Laboratories, Inc.)

**Revision**


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

[Click here to view these changes in full](https://www.ashrae.org/standards-research--technology/public-review-drafts)

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

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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](https://www.ashrae.org/standards-research--technology/public-review-drafts)

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

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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

Order from: Crystal McDuffie, (919) 625-6864, mcduffiec@apcointl.org

Send comments (with copy to 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
Order from: Susan Blaeser, (631) 390-0215, sblaeser@aip.org; asastds@aip.org
Send comments (with copy to 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 an 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
Order from: standards.section@ashrae.org
Send comments (with copy to psa@ansi.org) to: http://www.ashrae.org/standards-research–technology/public-review-drafts

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

Revision


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

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
Order from: Kerrianne Conn, (202) 434-8841, kconn@atis.org; jjemard@atis.org
Send comments (with copy to 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
Order from: Kerrianne Conn, (202) 434-8841, kconn@atis.org; jjemard@atis.org
Send comments (with copy to 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
Order from: Kerrianne Conn, (202) 434-8841, kconn@atis.org; jjemard@atis.org
Send comments (with copy to 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
Order from: Kerrianne Conn, (202) 434-8841, kconn@atis.org; jjemard@atis.org
Send comments (with copy to psa@ansi.org) to: Same
ATIS (Alliance for Telecommunications Industry Solutions)

Revision
BSR ATIS 0600010-201x, Temperature, Humidity, & Altitude Standards (revised 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
Order from: Kerrianne Conn, (202) 434-8841, kconn@atis.org; jpmard@atis.org
Send comments (with copy to psa@ansi.org) to: Same

ATIS (Alliance for Telecommunications Industry Solutions)

Withdrawal

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
Order from: Kerrianne Conn, (202) 434-8841, kconn@atis.org; jpmard@atis.org
Send comments (with copy to 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 (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; standards@bpi.org
Send comments (with copy to 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 (Link posted on BPI.org for document download and to submit comments.)
Order from: Susan Carson, (877) 274-1274, scarson@bpi.org; standards@bpi.org
Send comments (with copy to 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
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 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

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
Send comments (with copy to psa@ansi.org) to: Barbara Bennett, (202) 626-5743, 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
Order from: Diana Brioso, (301) 215-4549, diana.brioso@necanet.org; neis@necanet.org
Send comments (with copy to psa@ansi.org) to: Same
**NEMA (ASC C8) (National Electrical Manufacturers Association)**

**Revision**


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

Single copy price: $138.00


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

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

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**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


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

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

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**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

Order from: OPEI

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

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

**Revision**


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


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

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**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

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

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

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**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

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

Send comments (with copy to 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
Order from: Telecommunications Industry Association (TIA); standards@tiaonline.org
Send comments (with copy to psa@ansi.org) to: Same

UL (Underwriters Laboratories, Inc.)

Reaffirmation
Reaffirmation of current ANSI, 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
Order from: comm2000
Send comments (with copy to psa@ansi.org) to: Paul Lloret, (408) 754-6618, Paul.E.Lloret@ul.com

UL (Underwriters Laboratories, Inc.)

Reaffirmation
BSR/UL 1441-2005 (R201x), Standard for Safety for Coated Electrical Sleevings (reaffirmation of ANSI/UL 1441-2005 (R2009))
Reaffirmation of the Standard for Coated Electrical Sleevings, UL 1441.
Single copy price: Contact comm2000 for pricing and delivery options
Order from: comm2000
Send comments (with copy to psa@ansi.org) to: Danielle Tremblay, (919) 549-1309, 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
Order from: comm2000
Send comments (with copy to psa@ansi.org) to: Patricia Sena, (919) 549-1636, 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
Order from: comm2000
Send comments (with copy to psa@ansi.org) to: Dale Ivery, (919) 549-0989, 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
Order from: comm2000
Send comments (with copy to psa@ansi.org) to: Ritu Madan, 847-664-3297, 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
Order from: comm2000
Send comments (with copy to psa@ansi.org) to: Alan McGrath, (847) 664-3038, 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)**

**ASTM (ASTM International)**

**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)**

**ASTM (ASTM International)**

**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)

**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.

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: sblaeser@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)

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 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)

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


NECA (National Electrical Contractors Association)
Office: 3 Bethesda Metro Center
         Suite 1100
         Bethesda, MD  20814
Contact: Diana Brioso
Phone:  (301) 215-4549
Fax:    (301) 215-4500
E-mail: diana.brioso@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 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*


**AGMA (American Gear Manufacturers Association)**

*Withdrawal*


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

*New Standard*


*Revision*


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

*New Standard*


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

*Revision*


**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*


*Revision*


**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*


**ECA (Electronic Components Association)**

*New Standard*


**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*


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

*New Standard*


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

*Revision*


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

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

NEMA (ASC C8) (National Electrical Manufacturers Association)

New Standard
ANSI/NEMA HP 5-2013, Electrical and Electronic Crosslinked, Modified Polytetrafluoroethylene (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

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

UL (Underwriters Laboratories, Inc.)

New Standard
Reaffirmation
Revision
**Project Initiation Notification System (PINS)**

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

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

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

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

**Office:** 4301 N Fairfax Drive  
Suite 301  
Arlington, VA  22203-1633

**Contact:** Colleen Elliott  
**Fax:** (703) 276-0793  
**E-mail:** celliott@aami.org

**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)

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

**Contact:** Amy Barrett  
**E-mail:** AmyB@aiaa.org

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 documentSAWE 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)

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

**Contact:** Susan Blaeser  
**Fax:** (631) 390-0217  
**E-mail:** sblaeser@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)**  
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.

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 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)

Office: 1801 Alexander Bell Dr
Reston, VA 20191

Contact: James Neckel
E-mail: jneckel@asce.org

* 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)

Office: 600 N Plankinton Ave
Milwaukee, WI 53201

Contact: Julie Sharp
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)

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)

Office: 1200 S Street, NW
Suite 500
Washington, DC 20005

Contact: Kerrianne Conn
Fax: (202) 347-7125
E-mail: kconn@atis.org; jpeimard@atis.org

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.
This standard provides guidelines for the methods and odorants to be used in the odorization of liquified natural gas. This standard details construction and performance requirements for liquefied natural gas powered vehicles. This standard contains requirements for newly produced liquefied natural-gas fuel-dispensing systems. This standard describes test methods to measure impedance, reflection coefficient, return loss, and VSWR measured in the time and frequency domain. This document establishes the procedure for testing and characterizing electrostatic discharge sensitivity testing - human metal model (HMM) - component level (revision of ANSI/ESD SP5.6-2010) and system level (revision and redesignation of ANSI/EIA 364-108-C-2000 (R2013)). 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.

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 integer 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.


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)

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

Contact: Diana Brioso
E-mail: diana.brioso@necanet.org; neis@necanet.org
Fax: (301) 215-4500

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.
maintaining quality control of the manufacture of such thin porcelain tile panels. These specifications are also a guide to producers, specifiers, and/or installers of thin porcelain tile and thin porcelain tile panels. 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

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.

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 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.

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

Office: 100 Clemson Research Blvd.
Anderson, SC 29625

Contact: Katelyn Simpson
Fax: (864) 646-2821
E-mail: KSimpson@tileusa.com

* 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)

Office: 51 Glade Mallow Road
Ballston Spa, NY 12020

Contact: Ken Jackson
Fax: (817) 598-1177
E-mail: ken.jackson@nelac-institute.org

* 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 ANSI 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 ANSI 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 ANSI 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 ANSI with the same title and similar content.
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, select “Standards Activities,” click on “Public Review and Comment” and “American National Standards Maintained Under Continuous Maintenance.” This information is also available directly at www.ansi.org/publicreview.

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

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

AAIM
Association for the Advancement of Medical Instrumentation
4301 N Fairfax Drive
Suite 301
Arlington, VA 22203-1633
Phone: (703) 253-8261
Fax: (703) 276-0793
Web: www.aami.org

ABMA
American Brush Manufacturers Association
736 Main Avenue
Durango, CO 81301-5479
Phone: (720) 392-2262
Fax: (866) 837-8450
Web: www.abma.org

AGMA
American Gear Manufacturers Association
1001 N Fairfax Street, 5th Floor
Arlington, VA 22214
Phone: (703) 684-0211
Fax: (703) 684-0242
Web: www.agem.org

AHRI
Air-Conditioning, Heating, and Refrigeration Institute
2111 Wilson Boulevard
Suite 500
Arlington, VA 22201
Phone: (703) 680-0227
Fax: (703) 562-1942
Web: 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

APCO
Association of Public-Safety\nCommunications Officials-\nInternational
351 N. Williamson Boulevard\nDaytona Beach, FL 32114-1112
Phone: (919) 625-6864
Fax: (386) 944-2794
Web: 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

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

ASCE
American Society of Civil Engineers
1801 Alexander Bell Dr
Reston, VA 20191
Phone: 703-295-6176
Web: www.asce.org

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

ASQ
American Society for Quality
600 N Plankton Ave
Milwaukee, WI 53201
Phone: (414) 272-8575
Web: www.asq.org

ASQ (ASC Z1)
American Society for Quality
600 N Plankton Ave
Milwaukee, WI 53201
Phone: (414) 272-8575
Web: 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

ATIS
Alliance for Telecommunications\nIndustry Solutions
1200 G Street, NW
Suite 500
Washington, DC 20005
Phone: (202) 434-8841
Fax: (202) 347-7125
Web: www.atis.org

AWS
American Welding Society
8669 NW 36 Street, #130
Miami, FL 33166
Phone: (305) 443-9353
Web: 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

BPI
Building Performance Institute
107 Hermes Road
Suite 110
Malta, NY 12020
Phone: (877) 274-1274
Fax: (866) 777-1274
Web: 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

ECA
Electronic Components Association
2214 Rock Hill Road
Suite 170
Hendron, VA 20170-4212
Phone: (571) 323-0294
Fax: (571) 323-0245
Web: www.ecionline.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

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

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

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
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

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

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

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

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

NEMA (ASC B)
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

NSF
NSF International
789 N. Diabolo Road
Ann Arbor, MI 48105
Phone: (734) 827-5643
Fax: (734) 827-7880
Web: 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

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

RVIA
Recreational Vehicle Industry Association
1836 Preston White Drive
P.O. Box 2999
Reston, VA 20191-4363
Phone: (703) 620-6003
Fax: (703) 620-5071
Web: www.rvia.org

SCTE
Society of Cable Telecommunications Engineers
140 Philips Rd.
Exton, PA 19341
Phone: (610) 994-7308
Fax: (610) 363-7133
Web: www.scte.org

SPI
The Society of the Plastics Industry, Inc.
POB 690005
Houston, TX 77269
Phone: (832) 446-6999
Web: 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.tapppi.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

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

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

UL
Underwriters Laboratories, Inc.
333 Pfingsten Road
Northbrook, IL 60062
Phone: (847) 664-2881
Fax: (847) 664-2881
Web: www.ul.com
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.

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### 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.

#### 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)

#### 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

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.

17A/1054/DC, Revision of IEC 62271-102 of SC 17A: Alternating current disconnectors and earthing switches, 11/01/2013
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
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
23A/688/CDV, Amendment 1 to IEC 61386-1 Ed.2: Conduit systems for cable management - Part 1: General requirements, 11/01/2013
23E/821/CID, IEC 62873-2 Ed.1: Definitions - Glossary for RCDs, 12/13/2013
23E/822/NP, PNW 23E-822: General requirements for portable leakage current devices, 01/10/2014
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
31J/225/FDIS, IEC 60079-14/Ed5: Explosive atmospheres - Part 14: Electrical installations design, selection and erection, 11/15/2013
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
32B/616/CDV, IEC 60269-1/A2/Ed4: Low-voltage fuses - Part 1: General requirements, 12/06/2013
34C/1069/NP, PNW 34C-1069: Digital addressable lighting interface - Part 332: Particular requirements - Input control devices - Feedback, 12/13/2013
34A/1689/CDV, IEC 60968 Ed.3: Self-ballasted fluorescent lamps for general lighting services - Safety requirements, 12/12/2013
34A/1702/FDIS, IEC 62707-1 Ed.1: LED-binning - Part 1: General requirements and white colour grid, 11/08/2013
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
46F/242/CDV, IEC 62810: Cylindrical cavity method to measure the complex permittivity of low-loss dielectric rods, 01/10/2014
46A/1168/CD, IEC 61196-1-110: Coaxial communication cables - Part 1-110: Electrical test methods - Test for continuity, 01/03/2014
46A/1169/CD, IEC 61196-1-114: Coaxial communication cables - Part 1-114: Electrical test methods - Inductance, 01/03/2014
46A/1170/CD, IEC 61196-1-209: Coaxial communication cables - Part 1-209: Environmental test methods - Thermal cycling, 01/03/2014
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
46A/1172/CD, IEC 61196-9-1: Coaxial communication cables - Part 9-1: Blank detail specification for flexible RF coaxial cables, 01/03/2014
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
47D/844/CD, IEC 60191-2 Ed.1: Proposed new package outline - P-ZMP-P165, 12/06/2013
47D/845/CD, IEC 60191-2 Ed.1: Proposed new package outline - P-ZMP-P89, 12/06/2013

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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/CVD, IEC 6826 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/CVD, IEC 6826 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/CVD, Amendment to ISO 80601-2-13: Medical electrical equipment - Part 2-13: Particular requirements for basic safety and essential performance of an anaesthetic workstaton, 01/10/2014


86B/3645/CVD, 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/CVD, 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


14/757/CVD, IEC 61378-3 Ed.2: Converter transformers - Part 3: Application guide, 12/06/2013

2/1717/CVD, 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


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/CVD, 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/CVD, 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


42/323/CVD, IEC 60270/A1/Ed3: High-voltage test techniques - Partial discharge measurements, 12/06/2013

46/473/CVD, 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/CVD, 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-gray-scale medical ultrasound scanners applicable to a broad range of transducer types, 12/06/2013


92/323/CVD, IEC 60270/A1/Ed3: High-voltage test techniques - Partial discharge measurements, 12/06/2013

93/817/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

96/1829/CVD, IEC 61375-2-3 Ed.1: Electronic railway equipment - Train Communication Network (TCN) - Part 2-3: TCN communication profile, 01/03/2014

9/1853/CVD, IEC 62724 Ed.1: Railway applications - Fixed installations - Electric traction - Insulating synthetic rope assemblies for support of overhead contact lines, 11/22/2013
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
91/1144/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
100/2212/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. All paper copies are available from Standards resellers (http://webstore.ansi.org/faq.aspx#resellers).

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<td>Energy performance of buildings - Assessment of overall energy performance</td>
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<td>ISO/TR 11371:2013</td>
<td>PAPER, BOARD AND PULPS</td>
<td>Pulps - Basic guidelines for laboratory refining</td>
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<td>ISO/IEC JTC 1, Information Technology</td>
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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 or notifyus@nist.gov.
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. Visit 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 ANSI consensus bodies and is interested in new members in all membership categories to participate in new work in fiber-optic networks, advanced advertising, 3D television, and other important topics. Of particular interest is membership from the content (program and advertising) provider and user communities.

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

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.

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.

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: jevans@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
Web Site: 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, 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.

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.

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.


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.

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

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 ASHARE expressly disclaims such.

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

(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 strikethrough (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.
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 ¼ 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 and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at www.ashrae.org/bookstore or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

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 ASHARE expressly disclaims such.

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ASHRAE, 1791 Tullie Circle, NE, Atlanta GA 30329-2305
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 strikethrough (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.
Addendum aw to 189.1-2011

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” label, and be listed on the USDA’s list of biobased products.
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
First Public Review Draft.

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<th>Description</th>
<th>Sections</th>
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<td>Environmental labels and declarations – Type III</td>
<td>9.4.1.4</td>
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<td></td>
<td>environmental declarations – Principles and procedures</td>
<td></td>
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<tr>
<td>ISO 14040 – 2006</td>
<td>Environmental management – Life cycle assessment – Principles and framework</td>
<td>9.4.1.4</td>
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<td>ISO 14044 – 2006</td>
<td>Environmental management — Life cycle assessment — Requirements and guidelines</td>
<td>9.4.1.4, 9.5.1, 9.5.1.2</td>
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<td>ISO 21930 – 2007</td>
<td>Sustainability in building construction – Environmental declaration of building products</td>
<td>9.4.1.4</td>
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</tbody>
</table>
NSF/ANSI Standard

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

5 Filters

5.2.1 Filtration area

5.2.1.1 The actual calculated filtration area shall be within ± 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 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 equal 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/ft² 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/ft² 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

<table>
<thead>
<tr>
<th>Element diameter (inches)</th>
<th>Minimum filter cake thickness (inches)</th>
<th>Maximum average flow velocity through filter cake (ft/ min)</th>
<th>Maximum flow rate for uncoated (active) surface of filter element L/min/m² (gal/min/ft²)</th>
<th>Factor to determine effective filter area from active surface area</th>
<th>Maximum flow rate for rated effective filter area L/min/m² (gal/min/ft²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>0.125</td>
<td>0.377</td>
<td>122 (3.00)</td>
<td>1.5</td>
<td>81 (2.0)</td>
</tr>
<tr>
<td>0.75</td>
<td>0.125</td>
<td>0.377</td>
<td>115 (2.82)</td>
<td>1.41</td>
<td>81 (2.0)</td>
</tr>
<tr>
<td>1.0</td>
<td>0.125</td>
<td>0.377</td>
<td>111 (2.73)</td>
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<td>81 (2.0)</td>
</tr>
<tr>
<td>1.25</td>
<td>0.125</td>
<td>0.377</td>
<td>109 (2.67)</td>
<td>1.33</td>
<td>81 (2.0)</td>
</tr>
</tbody>
</table>
5.2.2 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).

5.2.2.3 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.

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.

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>
<thead>
<tr>
<th>Filter design</th>
<th>Intended application</th>
<th>Maximum design filtration rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>slurry feed</td>
<td>residential pool or spa/hot tub</td>
<td>3 gal/min/ft² (122 L/min/m²)</td>
</tr>
<tr>
<td>slurry feed</td>
<td>public pool or spa/hot tub</td>
<td>2.5 gal/min/ft² (102 L/min/m²)</td>
</tr>
<tr>
<td>no slurry feed</td>
<td>residential pool or spa/hot tub</td>
<td>2.5 gal/min/ft² (102 L/min/m²)</td>
</tr>
<tr>
<td>no slurry feed</td>
<td>public pool or spa/hot tub</td>
<td>2 gal/min/ft² (81 L/min/m²)</td>
</tr>
</tbody>
</table>

...
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.

1 General

1.3 Normative references
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*

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

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

Transparency International *Corruption Perception Index*, 2009-2012

5 Facility audits

5.2 Facility audits during surveillance

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 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


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

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 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.

Annex A

3 (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.]

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.

3 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.
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.
### Table 19.2

**Webbing closures and adjusters**

<table>
<thead>
<tr>
<th>Tests</th>
<th>Exposure</th>
<th>Test method</th>
<th>Number of samples</th>
<th>Use code</th>
<th>Compliance criteria pounds-force (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultimate Breaking Strength (^1)</td>
<td>1. SC</td>
<td>19.3.1.1</td>
<td>5 for each separate conditioning</td>
<td>1, 1F, and 5</td>
<td>Exposures 1 - 10, except 2b</td>
</tr>
<tr>
<td></td>
<td>2a. (Xe_{500}) or (CA_{100}) (^g)</td>
<td>19.3.1.3</td>
<td></td>
<td></td>
<td>Minimum 300 (1600)</td>
</tr>
<tr>
<td></td>
<td>2b. (Xe_{750}) or (CA_{300}) or (Nt_{75}) (^g)</td>
<td></td>
<td></td>
<td></td>
<td>Exposures 1 - 10, except 2b</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Minimum ³ 225 (1000)</td>
</tr>
<tr>
<td></td>
<td>3. 70 hours immersion in ASTM Ref. Fuel B (^e)</td>
<td>19.3.4a</td>
<td>2, 3, 4E, and 5F</td>
<td></td>
<td>Exposure 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Minimum ³ 200 (888)</td>
</tr>
<tr>
<td></td>
<td>4. 70 hours immersion in IRM 902 (Calumet Oil No. 2) (^e)</td>
<td>19.3.4b</td>
<td>2C and 3C</td>
<td></td>
<td>Exposures 1 - 10, except 2b</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Minimum ³ 115 (511)</td>
</tr>
<tr>
<td></td>
<td>5. 70 hours immersion in Perchloroethylene (^e)</td>
<td>19.3.4c</td>
<td>2, 3, 4H, and 5R</td>
<td></td>
<td>Exposures 2a - 10, except 2b</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Minimum ³ 150 (666)</td>
</tr>
<tr>
<td></td>
<td>6. 70 hours immersion in 0.5 percent per volume AATCC 2003 Standard Reference Liquid Detergent, by volume, no greater than “1” hardness water</td>
<td>19.3.4d</td>
<td>All except 1F, 2F, 3F, and 5H</td>
<td></td>
<td>Exposure 2a</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Average ³ 60 percent of exposure 1, or</td>
</tr>
<tr>
<td></td>
<td>7. 70 ±2°C (158 ±40F) for 7 days(^i)</td>
<td>19.3.4e</td>
<td></td>
<td></td>
<td>Exposures 2b</td>
</tr>
<tr>
<td></td>
<td>8. 30 ±2°C (-22 ±40F) or 24 hours(^i)</td>
<td>19.3.4f</td>
<td></td>
<td></td>
<td>Average ³ 40 percent of exposure 1.</td>
</tr>
<tr>
<td></td>
<td>9. 720 hours of Salt Spray as specified in ASTM B117-94(^i)</td>
<td>19.3.4g</td>
<td></td>
<td></td>
<td>Exposures 3 - 10</td>
</tr>
<tr>
<td></td>
<td>10. Fatigue(^i)</td>
<td>19.3.4h</td>
<td></td>
<td></td>
<td>Average ³ 60 percent of exposure 1.</td>
</tr>
</tbody>
</table>

**Strength/Slippage**

<table>
<thead>
<tr>
<th>Tests</th>
<th>Exposure</th>
<th>Test method</th>
<th>Number of samples</th>
<th>Use code</th>
<th>Compliance criteria pounds-force (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. SC</td>
<td>19.3.2.1 and 19.3.2.2</td>
<td>5 for each separate exposure each for webbing Type I and II. See Table 19.1 for webbing types.</td>
<td></td>
<td></td>
<td>Exposures 1 - 3 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</td>
</tr>
<tr>
<td>Ultimate Breaking Strength Test&lt;sup&gt;h&lt;/sup&gt; †</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1, 1F, and 5</td>
<td>360 (1600)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2F, 3F, 5WV, and 5H</td>
<td>225 (1000)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2, 3, 4H, and 5R</td>
<td>150 (666)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2C and 3C</td>
<td>115 (511)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Inadvertent Release Test (Dual-tab closures only) | SC | 19.3.3.1 and 19.3.3.2 | 5 | 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**
<table>
<thead>
<tr>
<th>Tests</th>
<th>Exposure&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Test method</th>
<th>Number of samples&lt;sup&gt;b,c&lt;/sup&gt;</th>
<th>Use codes&lt;sup&gt;d&lt;/sup&gt;</th>
<th>Compliance criteria pounds-force (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultimate Breaking Strength&lt;sup&gt;2&lt;/sup&gt;</td>
<td>1. SC 20.3.1.1-20.3.1.3</td>
<td>5 for each separate conditioning</td>
<td>2, 3, and 5R (Primary adjustment used in multi-routed side lacing.)</td>
<td>Exposure 1, 2a, and 3 - 10.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2a. Xe&lt;sub&gt;500&lt;/sub&gt; or CA&lt;sub&gt;100&lt;/sub&gt;&lt;sup&gt;9&lt;/sup&gt;</td>
<td></td>
<td></td>
<td>Minimum ≥ 150 lbs (666N) divided by the minimum number of lacing passes</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2b. Xe&lt;sub&gt;750&lt;/sub&gt; or CA&lt;sub&gt;300&lt;/sub&gt; or Nb&lt;sub&gt;9&lt;/sub&gt;&lt;sup&gt;9&lt;/sup&gt;</td>
<td></td>
<td></td>
<td>Exposure 1, 2a, and 3 - 10.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. 70 hours immersion in ASTM Ref. Fuel B&lt;sup&gt;9&lt;/sup&gt;</td>
<td></td>
<td>2F, 3F, 5 and 5H (Primary adjustment used in multi-routed side lacing).</td>
<td>Minimum ≥ 70 lbs (311 N)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4. 70 hours immersion in IRM 902 (Calumet Oil No. 2)&lt;sup&gt;9&lt;/sup&gt;</td>
<td></td>
<td></td>
<td>Exposure 1, 2a, and 3 - 10.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5. 70 hours immersion in Perchloroethylene&lt;sup&gt;9&lt;/sup&gt;</td>
<td></td>
<td></td>
<td>Minimum ≥ 70 lbs (311 N)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6. 70 hours immersion in 0.5 percent per volume AATCC 2003 Standard Reference Liquid Detergent, by volume, in no greater than &quot;1&quot; hardness water&lt;sup&gt;9&lt;/sup&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7. 70 ±2°C (158 ±4°F) for 7 days&lt;sup&gt;9&lt;/sup&gt;</td>
<td></td>
<td>2, 2F, 3, 3F, 5, and 5H.</td>
<td>Exposure 3 - 10.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8. -30 ±2°C (-22 ±4°F)&lt;sup&gt;9&lt;/sup&gt;</td>
<td></td>
<td></td>
<td>Average ≥ 60 percent of exposure 1 strength</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9. 720 hours of Salt Spray as specified in ASTM B117-94&lt;sup&gt;4&lt;/sup&gt;</td>
<td></td>
<td>2, 3, 5R</td>
<td>Exposure 2a</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10. Fatigue&lt;sup&gt;9&lt;/sup&gt;</td>
<td></td>
<td></td>
<td>Average ≥ 60 percent of exposure 1 strength, or Exposure 2b</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Average ≥ 40 percent of exposure 1 strength. Exposure 2b</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strength/Slippage</td>
<td>1. SC 20.3.2.1-20.3.2.3</td>
<td>5 for each separate exposure</td>
<td>For exposures 1 - 2, 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:</td>
<td>A. For primary</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. 2 minute water soak&lt;sup&gt;9&lt;/sup&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tab Disengagement Test</td>
<td>SC</td>
<td>20.3.3.1 and 20.3.3.2</td>
<td>5</td>
<td>2F, 3F and 5H</td>
<td></td>
</tr>
<tr>
<td>------------------------</td>
<td>----</td>
<td>----------------------</td>
<td>---</td>
<td>--------------</td>
<td></td>
</tr>
</tbody>
</table>

**a** See Table 2.2 for conditioning details.

**b** Color dependent. See 2.4.

**c** For polymeric hardware, a minimum of 80 samples. For metal hardware, 35 hardware samples.

**d** See Table 2.1 for an explanation of Use Code designations.

**e** 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.

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

**g** 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.

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

**i** 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.

**j** 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.

**k** 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.

**l** 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

<table>
<thead>
<tr>
<th>Type number</th>
<th>Application</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Class I, Division 1, Groups A, B, C, or D—Indoor Hazardous Locations—Air-Break Equipment</td>
<td>Part I, Sections 8-34</td>
</tr>
<tr>
<td>9</td>
<td>Class II, Division 1, Groups E, F, or G—Indoor Hazardous Locations—Air-Break Equipment</td>
<td>Part II, Sections 35-57</td>
</tr>
</tbody>
</table>
BSR/UL 2580, Standard for Batteries for Use In Electric Vehicles


6.37 SAFETY CRITICAL 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 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: 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/contacts 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 H₂O) at room temperature for a minimum of 2 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).

41.4 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 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>
<thead>
<tr>
<th>Non-compliant results</th>
<th>Designation</th>
<th>Tests(^a)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explosion</td>
<td>E</td>
<td>All tests</td>
</tr>
<tr>
<td>Fire</td>
<td>F</td>
<td>All tests except external fire exposure</td>
</tr>
<tr>
<td>Combustible Concentrations</td>
<td>C</td>
<td>All tests except external fire exposure and internal fire exposure</td>
</tr>
<tr>
<td>Rupture (enclosure)</td>
<td>R</td>
<td>All tests except external fire exposure, internal fire exposure and crush</td>
</tr>
<tr>
<td>Leakage (external to enclosure)</td>
<td>L</td>
<td>All tests except external fire exposure, internal fire exposure and crush</td>
</tr>
</tbody>
</table>
| Venting\(^c\)                             | V           | All tests except crush, drop, rotation, immersion, external fire exposure, and internal fire exposure:  
  • Operational level limit if applicable (i.e. venting into passenger compartment) when using analysis methods per Section 23 for all tests.  
  Crush, drop, and rotation tests include the following ventilation check:  
  • Crash/Nonoperational level limit: Toxic gas release of ERPG-2 or greater when using analysis methods per Section 23. |
| Electric shock hazard                     | S           | All tests (if hazardous voltage) except immersion, external fire exposure, and internal fire exposure |
| Loss of protection controls\(^b\)         | P           | All tests except external fire exposure, internal fire exposure, crush, and immersion |

\(^a\) 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.

\(^b\) 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.

\(^c\) 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 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.