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## American National Standards

### Call for comment on proposals listed

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

#### Ordering Instructions for "Call-for-Comment" Listings

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

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

## Comment Deadline: November 22, 2009

### NECA (National Electrical Contractors Association)

#### Revisions

BSR/NECA 408-201x, Standard for Installing and Maintaining Busways (revision of ANSI/NECA 408-2002)

Describes the installation and maintenance procedures for feeder and plug-in busways and accessories rated 600 Volts AC or less, and 100 Amperes or more. This standard also covers periodic routine maintenance procedures for busway, and special procedures used after adverse operating conditions such as a short-circuit, ground-fault, or immersion in water.

[Click here to see these changes in full, or look at the end of "Standards Action."](#)

Send comments (with copy to BSR) to: am2@necanet.org

BSR/NECA 409-201x, Standard for Installing and Maintaining Dry-Type Transformers (revision of ANSI/NECA 409-2002)

Describes the installation and maintenance procedures for single- and three-phase general purpose dry-type distribution and power transformers and associated accessories rated 600 Volts AC or less, and 0.25 kVA or more.

[Click here to see these changes in full, or look at the end of "Standards Action."](#)

Send comments (with copy to BSR) to: am2@necanet.org

### NEMA (National Electrical Manufacturers Association)

#### Revisions

BSR/NEMA OS 1-201x, Sheet-Steel Outlet Boxes, Device Boxes, Covers, and Box Supports (revision of ANSI/NEMA OS 1-2008)

Covers general-purpose metal outlet boxes, device boxes, covers, and supports designed to facilitate the pulling of wires, to protect and facilitate wiring splices and taps, to provide a means of mounting and protecting wiring devices, and to provide a connection for rigid conduit, electrical metallic tubing, armored cable, metal clad cable, nonmetallic sheathed cable, flexible metallic conduit and knob-and-tube wiring systems.

[Click here to see these changes in full, or look at the end of "Standards Action."](#)

Send comments (with copy to BSR) to: Michael Leibowitz, (703) 841-3264, mik\_leibowitz@nema.org

### NSF (NSF International)

#### Revisions

BSR/NSF 14-201x (i29), Plastics piping system components and related materials (revision of ANSI/NSF 14-2008)

Issue 29 - Add dezincification and resistance to stress corrosion requirements in ANSI/NSF14 with the addition of a new section, Section 5.8.

[Click here to see these changes in full, or look at the end of "Standards Action."](#)

Send comments (with copy to BSR) to: Adrienne O'Day, (734) 827-5676, oday@nsf.org

### UL (Underwriters Laboratories, Inc.)

#### Revisions

BSR/UL 618-201x, Standard for Concrete Masonry Units (revision of ANSI/UL 618-2003 (R2007))

Updates the ASTM reference in paragraph 4A.3.

[Click here to see these changes in full, or look at the end of "Standards Action."](#)

Send comments (with copy to BSR) to: Heather Sakellariou, (847) 664-2346, Heather.Sakellariou@us.ul.com

BSR/UL 746C-201x, Standard for Safety for Polymeric Materials - Use in Electrical Equipment Evaluations (revision of ANSI/UL 746C-2009b)

Deletes Table 34.1, Generic Thermal Indices.

[Click here to see these changes in full, or look at the end of "Standards Action."](#)

Send comments (with copy to BSR) to: Raymond Suga, (631) 546-2593, Raymond.M.Suga@us.ul.com

BSR/UL 1450-201x, Standard for Safety for Motor-Operated Air Compressors, Vacuum Pumps, and Painting Equipment (revision of ANSI/UL 1450-2009)

Clarifies Scope to remove "industrial compressors".

[Click here to see these changes in full, or look at the end of "Standards Action."](#)

Send comments (with copy to BSR) to: Susan Malohn, (847) 664-1725, Susan.P.Malohn@us.ul.com

BSR/UL 1450-201x, Standard for Safety for Motor-Operated Air Compressors, Vacuum Pumps, and Painting Equipment (revision of ANSI/UL 1450-2009)

Clarifies Cord Length Requirements for cord lengths that are 18 inches or less.

[Click here to see these changes in full, or look at the end of "Standards Action."](#)

Send comments (with copy to BSR) to: Susan Malohn, UL-IL; susan.p.malohn@us.ul.com

## Comment Deadline: December 7, 2009

### AIHA (ASC Z88) (American Industrial Hygiene Association)

#### Revisions

BSR AIHA Z88.7-201x, Color Coding of Air-Purifying Respirator Canisters, Cartridges, and Filters (revision of ANSI Z88.7-2001)

Establishes a system of marking air-purifying respirator canisters, cartridges and filter containers by means of colors in order to:

- (1) Facilitate rapid identification of the canisters, cartridges, and filters by users; and
- (2) Ensure color consistency among respirator manufacturers.

Single copy price: Free

Obtain an electronic copy from: mmavely@aiha.org

Order from: Mili Washington, (703) 846-0794, mmavely@aiha.org

Send comments (with copy to BSR) to: Same

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

### Reaffirmations

BSR/ASAE S422-MAR95 (R201x), Mapping Symbols and Nomenclature for Erosion and Sediment Control Plans for Land Disturbing Activities (reaffirmation of ANSI/ASAE S422-MAR95 (R2005))

Establishes a list of standard mapping symbols for use in erosion- and sediment-control plan development.

Single copy price: \$48.00

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

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

Send comments (with copy to BSR) to: Same

## ASME (American Society of Mechanical Engineers)

### Revisions

BSR/ASME B31.8S-201x, Managing System Integrity of Gas Pipelines (revision of ANSI/ASME B31.8S-2004)

Applies to onshore pipeline systems constructed with ferrous materials and that transport gas. Pipeline system means all parts of physical facilities through which gas is transported, including pipe, valves, appurtenances attached to pipe, compressor units, metering stations, regulator stations, delivery stations, holders, and fabricated assemblies. The principles and processes embodied in integrity management are applicable to all pipeline systems.

Single copy price: Free

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

Order from: Mayra Santiago, ASME; [ANSIBOX@asme.org](mailto:ANSIBOX@asme.org)

Send comments (with copy to BSR) to: Robert Horvath, (212) 591-8514, [HorvathR@asme.org](mailto:HorvathR@asme.org)

BSR/ASME B31.8-201x, Gas Transmission and Distribution Piping Systems (revision of ANSI/ASME B31.8-2007)

Covers the design, fabrication, installation, inspection, and testing of pipeline facilities used for the transportation of gas. This Code also covers safety aspects of the operation and maintenance of those facilities.

Single copy price: Free

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

Order from: Mayra Santiago, ASME; [ANSIBOX@asme.org](mailto:ANSIBOX@asme.org)

Send comments (with copy to BSR) to: Robert Horvath, (212) 591-8514, [HorvathR@asme.org](mailto:HorvathR@asme.org)

BSR/ASME BPVC Section I-201x, Rules for Construction of Power Boilers (5/14/09 Meeting) (revision of ANSI/ASME BPVC 2007 Edition)

Section I of the ASME Boiler and Pressure Vessel Code provides requirements for all methods of construction of power, electric, and miniature boilers; high temperature water boilers used in stationary service; and power boilers used in locomotive, portable, and traction service. Rules pertaining to use of the V, A, M, PP, S and E Code symbol stamps are also included. The rules are applicable to boilers in which steam or other vapor is generated at a pressures exceeding 15 psig, and high temperature water boilers intended for operation at pressures exceeding 160 psig and/or temperatures exceeding 250 degree F. Superheaters, economizers, and other pressure parts connected directly to the boiler without intervening valves are considered as part of the scope of Section I.

Single copy price: Free

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

Order from: Mayra Santiago, ASME; [ANSIBOX@asme.org](mailto:ANSIBOX@asme.org)

Send comments (with copy to BSR) to: Umberto D'Urso, (212) 591-8535, [dursou@asme.org](mailto:dursou@asme.org)

## HL7 (Health Level Seven)

### Revisions

BSR/HL7 V3 GELLO, R2-201x, HL7 Version 3 Standard: GELLO; A Common Expression Language, Release 2 (revision of ANSI/HL7 V3 GELLO, R1-2005)

Corrects a number of errors in the text, examples, and BNF of the GELLO R1 standard. GELLO is an OCL-like expression language for clinical computing.

Single copy price: Free (HL7 members); \$650.00 (non-members)

Obtain an electronic copy from: [Karenvan@HL7.org](mailto:Karenvan@HL7.org)

Order from: Karen Van Hentenryck, (734) 677-7777 Ext 104, [Karenvan@HL7.org](mailto:Karenvan@HL7.org)

Send comments (with copy to BSR) to: Same

BSR/HL7 V3 RBAC, R2-200x, HL7 Version 3 Standard: Role-based Access Control Healthcare Permission Catalog, Release 2 (revision of ANSI/HL7 V3 RBAC, R1-2008)

Presents the ANSI-INCITS-compliant healthcare permissions that may be assigned to licensed, certified and non-licensed healthcare personnel as well as healthcare consumers. The Healthcare Permission Catalogue provides the necessary content for creating interoperable roles facilitating interorganizational access control decisions and communications and promoting information sharing among healthcare organizations, their business partners and consumers.

Single copy price: Free (HL7 members); \$650.00 (non-members)

Obtain an electronic copy from: [Karenvan@HL7.org](mailto:Karenvan@HL7.org)

Order from: Karen Van Hentenryck, (734) 677-7777 Ext 104, [Karenvan@HL7.org](mailto:Karenvan@HL7.org)

Send comments (with copy to BSR) to: Same

### Withdrawals

BSR/HL7 V3 RRNCR, R1-2004, HL7 Version 3 Standard: Notifiable Condition Report, Release 1 (withdrawal of ANSI/HL7 V3 RRNCR, R1-2004)

Includes standards developed for the reporting of regulated information that extends outside the context of clinical trials. Such standards include, but are not limited to, standards for submission of NCT information to a regulatory agency. The current document contains messages addressing Adverse Event Notification and Product Stability Reporting.

Single copy price: Free (HL7 members); \$650.00 (non-members)

Obtain an electronic copy from: [Karenvan@HL7.org](mailto:Karenvan@HL7.org)

Order from: Karen Van Hentenryck, (734) 677-7777 Ext 104, [Karenvan@HL7.org](mailto:Karenvan@HL7.org)

Send comments (with copy to BSR) to: Same

## ISA (ISA)

### Reaffirmations

BSR/ISA 75.25.01-2001 (R201x), Test Procedure for Control Valve Response Measurement from Step Inputs (reaffirmation of ANSI/ISA 75.25.01-2001)

Defines the testing and reporting of step response of control valves that are used in throttling closed loop control applications. A control valve consists of the complete, ready-to-use assembly of the control valve body, actuator, and any required accessories. The most probable accessory is a valve positioner.

Single copy price: \$55.00

Obtain an electronic copy from: [ebeattie@isa.org](mailto:ebeattie@isa.org)

Order from: Eliana Beattie, (919) 990-9228, [ebeattie@isa.org](mailto:ebeattie@isa.org)

Send comments (with copy to BSR) to: Same

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

*Stabilized Maintenance: See 3.3.3 of the ANSI Essential Requirements*

INCITS/ISO/IEC 10279-1991 (S201x), Information technology - Programming languages - Full BASIC (stabilized maintenance of INCITS/ISO/IEC 10279-1991 (R2005))

Specifies the programming language that is derived from ANSI X3.113-1987. For details of the syntax and semantics, see ANSI X3.113-1987. Annexes A and B are for information only.

Single copy price: \$30.00

Obtain an electronic copy from: <http://webstore.ansi.org> or [incits.org](http://incits.org)

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

Send comments (with copy to BSR) to: Serena Patrick, (202) 626-5741, [spatrick@itic.org](mailto:spatrick@itic.org); [bbennett@itic.org](mailto:bbennett@itic.org)

## NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)

### Revisions

BSR/NB 23 2010 Edition with 2010 Addendum Cycle A-201x, National Board Inspection Code (revision of ANSI/NB 23 2007 Edition with 2009 Addendum, Cycle A-2009)

Provides rules and guidelines for the in-service, inspection, installation, repair and alteration of pressure-retaining items and in-service inspection and repair of pressure relief valves.

Single copy price: N/A

Obtain an electronic copy from: [rrough@nationalboard.org](mailto:rrough@nationalboard.org)

Order from: Terry Parks, (614) 431-3231, [tparks@nationalboard.org](mailto:tparks@nationalboard.org); [rrough@nationalboard.org](mailto:rrough@nationalboard.org)

Send comments (with copy to BSR) to: Same

## NECA (National Electrical Contractors Association)

### Revisions

BSR/NECA 407-201x, Standard for Installing and Maintaining Panelboards (revision of ANSI/NECA 407-2002)

Describes installation and maintenance procedures for panelboards, and special procedures used after adverse operating conditions such as a short-circuit, ground-fault, or immersion in water.

Single copy price: \$40.00

Obtain an electronic copy from: [www.necanet.org/store](http://www.necanet.org/store)

Order from: Nancy Sipe, (301) 215-4504, [orderdesk@necanet.org](mailto:orderdesk@necanet.org)

Send comments (with copy to BSR) to: [am2@necanet.org](mailto:am2@necanet.org)

## NEMA (ASC C78) (National Electrical Manufacturers Association)

### Revisions

BSR C78.21-201x, Electric Lamps - PAR and R Shapes (revision of ANSI C78.21-2003 (R2007))

Provides physical and electrical characteristics of the group of incandescent lamps that have PAR and R bulb shapes.

Single copy price: \$At cost+

Obtain an electronic copy from: [Mat\\_clark@nema.org](mailto:Mat_clark@nema.org)

Order from: Randolph Roy, (703) 841-3277, [ran\\_roy@nema.org](mailto:ran_roy@nema.org); [mat\\_clark@nema.org](mailto:mat_clark@nema.org)

Send comments (with copy to BSR) to: Same

## NSF (NSF International)

### New Standards

BSR/NSF 360-201x, Field Performance Verification (new standard)

Field Performance Verification was developed as a means to properly evaluate the performance of residential wastewater treatment systems under field conditions. Establishment of a national standard ensures a single, comprehensive method for properly conducting independent field performance studies, and enables broad acceptance of data to minimize redundant efforts.

Single copy price: Free

Obtain an electronic copy from:

[http://standards.nsf.org/apps/group\\_public/document.php?document\\_id=6204&wg\\_abbrev=wwt\\_jc](http://standards.nsf.org/apps/group_public/document.php?document_id=6204&wg_abbrev=wwt_jc)

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

Send comments (with copy to BSR) to: Same

## ROHVA (Recreational Off-Highway Vehicle Association)

### New Standards

BSR/ROHVA 1-201x, Recreational Off-Highway Vehicles (new standard)

Addresses design, configuration, and performance aspects of ROVs, including, among other items, requirements for accelerator, clutch, and gearshift controls; engine and fuel cutoff devices; lighting; tires; service and parking brake/parking mechanism performance; lateral and pitch stability; occupant handholds, Roll-Over Protective Structure; occupant restraints; and requirements for labels and owner's manuals.

Single copy price: \$60.00

Obtain an electronic copy from: [tyager@rohva.org](mailto:tyager@rohva.org)

Order from: ROHVA

Send comments (with copy to BSR) to: Thomas Yager, (949) 255-2560, [tyager@rohva.org](mailto:tyager@rohva.org)

## SCTE (Society of Cable Telecommunications Engineers)

### New Standards

BSR/SCTE 135-5-201x, DOCSIS 3.0 Part 5: Cable Modem to Customer Premise Equipment Interface (new standard)

Defines the interface requirements for data over cable services between a cable modem and the customer premise equipment (CPE). The CPE may include PCs, Macintoshes, workstations, network computers, and other electronic equipment. This specification defines the applicable communications standards and protocols as needed to implement a cable modem interface to the CPE.

Single copy price: \$50.00

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

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

Send comments (with copy to BSR) to: Rebecca Quartapella, (610) 594-7316, [rquartapella@scte.org](mailto:rquartapella@scte.org)

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

BSR/UL 1046-201x, Standard for Safety for Grease Filters for Exhaust Ducts (new standard)

Recirculates portions of the Proposed New (Fourth) Edition of UL 1046 including changes from the previous (Third) Edition such as the following:

- (a) the Scope;
- (b) the Grease Loading Test;
- (c) the Flame Exposure Test;
- (d) the Conditions of Acceptance; and
- (e) the Marking Section

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to BSR) to: Raymond Suga, (631) 546-2593, [Raymond.M.Suga@us.ul.com](mailto:Raymond.M.Suga@us.ul.com)

BSR/UL 2523-201x, Standard for Safety for Solid Fuel-Fired Hydronic Heating Appliances, Water Heaters, and Boilers (new standard)

Provides revisions to the proposed first edition of UL 2523, proposal dated 6-5-09.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to BSR) to: Nicolette Allen, (919) 549-0973, [Nicolette.Allen@us.ul.com](mailto:Nicolette.Allen@us.ul.com)

**Revisions**

BSR/UL 555-201x, Standard for Fire Dampers (revision of ANSI/UL 555-2009a)

Adds corridor dampers.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to BSR) to: Mitchell Gold, (847) 664-2850, [Mitchell.Gold@us.ul.com](mailto:Mitchell.Gold@us.ul.com)

BSR/UL 555C-201x, Standard for Ceiling Dampers (revision of ANSI/UL 555C-2009a)

Adds evaluation of dampers other than those being compared to hinged-door type dampers.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to BSR) to: Mitchell Gold, (847) 664-2850, [Mitchell.Gold@us.ul.com](mailto:Mitchell.Gold@us.ul.com)

BSR/UL 555S-201x, Standard for Smoke Dampers (revision of ANSI/UL 555S-2009a)

Adds corridor dampers.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to BSR) to: Mitchell Gold, (847) 664-2850, [Mitchell.Gold@us.ul.com](mailto:Mitchell.Gold@us.ul.com)

BSR/UL 1081-201x, Standard for Safety for Swimming Pool Pumps, Filters, and Chlorinators (Proposal dated 10-23-09) (revision of ANSI/UL 1081-2009a)

Proposes to remove the 5-horsepower limit and proposes an editorial update of important safety instructions.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to BSR) to: Barbara Davis, (408) 754-6722, [Barbara.J.Davis@us.ul.com](mailto:Barbara.J.Davis@us.ul.com)

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

BSR/VITA 57.1-201x, FPGA Mezzanine Card (FMC) Standard (revision of ANSI/VITA 57.1-2008)

Describes FMC IO modules and introduces an electro-mechanical standard that creates a low-overhead protocol bridge between the front-panel IO on the mezzanine module and an FPGA processing device on the carrier card, which accepts the mezzanine module.

Single copy price: Free

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

Send comments (with copy to BSR) to: John Rynearson, (480) 837-7486, [techdir@vita.com](mailto:techdir@vita.com)

**Comment Deadline: December 22, 2009**

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

**ASME (American Society of Mechanical Engineers)****New Standards**

BSR/ASME ASP-201x, Safety Standard for Automotive Service and Maintenance Products (new standard)

Standardizes the safety and performance requirements for automotive service and maintenance products, including but not limited to:

- (a) Shop presses;
- (b) Oil filter crushers;
- (c) Strut spring compressors;
- (d) Oil/Anti-freeze handlers; and
- (e) Portable hydraulic power kits.

This Standard may include requirements for safety, health, design, production, construction, maintenance, performance, or operation of mechanical, hydraulic or pneumatically powered equipment and/or qualification of personnel.

Single copy price: Free

Order from: Mayra Santiago, ASME; [ANSIBOX@asme.org](mailto:ANSIBOX@asme.org)

Send comments (with copy to BSR) to: Thomas Schellens, (212) 591-8077, [schellenst@asme.org](mailto:schellenst@asme.org)

**Revisions**

BSR/ASME QEI-1-201x, Standard for the Qualification of Elevator Inspectors (revision of ANSI/ASME QEI-1-2007)

Applies to the qualification and duties of inspectors and inspection supervisors engaged in the inspection and testing of equipment to determine compliance with the requirements of ASME A17.1/CSA B44; ASME A17.3; CSA B44.1/ASME A17.5; ASME A18.1 or CSA B355, CSA B311, and ANIS/ASSE A10.4 or CSA Z185. This standard also includes requirements for accreditation of organizations that certify inspectors and inspection supervisors.

Single copy price: Free

Order from: Mayra Santiago, ASME; [ANSIBOX@asme.org](mailto:ANSIBOX@asme.org)

Send comments (with copy to BSR) to: Joseph Pang, (212) 591-8525, [Pangj@asme.org](mailto:Pangj@asme.org)

**ASSE (American Society of Sanitary Engineering)****Revisions**

BSR/ASSE 1013-201x, Performance Requirements for Reduced Pressure Principle Backflow Preventers and Reduced Pressure Principle Fire Protection Backflow Preventers (revision of ANSI/ASSE 1013-2005)

Describes assemblies that keep contaminated water from flowing back into a potable-water distribution system when some abnormality in the system causes the pressure to be temporarily higher in the contaminated part of the system than in the potable water supply piping.

Single copy price: \$45.00

Obtain an electronic copy from: <http://global.ihs.com/>

Order from: Elaine Matheison, (440) 835-3040,  
elaine@asse-plumbing.org

Send comments (with copy to BSR) to: Steve Hazzard, (440) 835-3040,  
steve@asse-plumbing.org

BSR/ASSE 1015-201x, Performance Requirements for Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies (revision of ANSI/ASSE 1015-2005)

Describes assemblies that keep contaminated water from flowing back into a potable-water distribution system when some abnormality in the system causes the pressure to be temporarily higher in the contaminated part of the system than in the potable water supply piping.

Single copy price: \$45.00

Obtain an electronic copy from: <http://global.ihs.com/>

Order from: Elaine Matheison, (440) 835-3040,  
elaine@asse-plumbing.org

Send comments (with copy to BSR) to: Steve Hazzard, (440) 835-3040,  
steve@asse-plumbing.org

BSR/ASSE 1047-201x, Performance Requirements for Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies (revision of ANSI/ASSE 1047-2005)

Describes assemblies that keep contaminated water from fire-protection systems from flowing back into a potable-water distribution system when some abnormality in the system causes the pressure to be temporarily higher in the contaminated part of the system than in the potable water supply piping. These assemblies are designed to detect low rates of flow up to 2.0 GPM caused by leakage or unauthorized use.

Single copy price: \$45.00

Obtain an electronic copy from: <http://global.ihs.com/>

Order from: Elaine Matheison, (440) 835-3040,  
elaine@asse-plumbing.org

Send comments (with copy to BSR) to: Steve Hazzard, (440) 835-3040,  
steve@asse-plumbing.org

BSR/IPC-4101B-200x, Specification for Base Materials for Rigid and Multilayer Printed Boards (revision and redesignation of ANSI/IPC 4101A-2002)

BSR/IPC 4103A-200x, Specification for Base Materials for High Speed/High Frequency Applications (revision and redesignation of ANSI/IPC 4103-2002)

BSR/IPC 6018B-200x, Microwave End Product Board Inspection and Test (revision and redesignation of ANSI/IPC 6018A-2002)

BSR/IPC 9191-1999, SPC Implementation Requirements Applied to Printed Board and Interconnection Structure Manufacture (revision of ANSI/IPC PC-90-1990)

BSR/IPC 9199-200x, SPC Quality Rating (SQR) (new standard)

BSR/IPC A-600G-200x, Acceptability of Printed Boards (revision of ANSI/IPC A-600-F-1999)

BSR/IPC EG-140 (Addition of Amendment 2), Specification for Finished Fabric Woven from "E" Glass for Printed Boards (new standard)

BSR/IPC J-STD-004B-200x, Requirements for Soldering Fluxes (revision and redesignation of ANSI/IPC J-STD-004A-2004)

BSR/IPC WHMA-A-620AS-200x, Space Applications Electronic Hardware (supplement to ANSI/IPC WHMA-A-620-2002)

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

INCITS/ISO 2132-1972-200x, Offset duplicators - Attachment features of plates (identical national adoption of ISO 2132:1972)

INCITS/ISO 2132/AMD1-200x, Offset duplicators - Attachment features of plates - Amendment 1 (identical national adoption of ISO 2132/AMD1:1975)

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

BSR/UL 1449-200x, Standard for Surge Protective Devices (revision of ANSI/UL 1449-2009a)

**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:

**IPC (IPC - Association Connecting Electronics Industries)**

BSR/IPC/WHMA-A-620A-200x, Requirements and Acceptance for Cable and Wire Harness Assemblies (revision of ANSI/IPC WHMA-A-620-2002)

## Withdrawal by Accredited Standards Developer

### ANSI IPC Standards

In accordance with ANSI Essential Requirements section 4.2.1.3.2, Withdrawal by an Accredited Standards Developer, the following American National Standards are hereby withdrawn:

- ANSI/IPC 1066-2004, Marking, Symbols and Labels for Identification of Lead Free and Other Reportable Materials in Lead Free Assemblies, Components and Devices
- ANSI/IPC 4101A-2002, Specification for Base Materials for Rigid and Multi-layer Printed Boards
- ANSI/IPC 4101A-Amendment 1-2002, Specification for Base Materials for Rigid and Multi-layer Printed Boards
- ANSI/IPC 4103-2002, Specification for Base Materials for High Speed/High Frequency Applications
- ANSI/IPC 4202-2002, Flexible Metal-Clad Dielectrics for Use in Fabrication of Flexible Printed Wiring
- ANSI/IPC 4203-2002, Adhesive coated Dielectric Films for Use as Cover Sheets for Flexible Printed Wiring and Flexible Adhesive Bonding Films
- ANSI/IPC 4204-2002, Flexible Base Dielectrics for Use in Flexible Printed Wiring
- ANSI/IPC 4412-2002, Specification for Finished Fabric Woven From "E" Glass for Printed Boards
- ANSI/IPC 4552-2002, Specification for Electroless Nickel/Immersion Gold (EMIG) Plating for Printed Circuit Boards
- ANSI/IPC 4553-2005, Specification for Immersion Silver Plating for Printed Circuit Boards
- ANSI/IPC 4562-2000, Metal Foil for Printed Wiring Applications
- ANSI/IPC 6013 Amd-1-2000, Qualification and Performance Specification for Flexible Printed Boards
- ANSI/IPC 6013-1999, Qualification and Performance Specification for Flexible Printed Wiring
- ANSI/IPC 6018A-2002, Microwave End Product Board Inspection and Test
- ANSI/IPC 7525-2000, Stencil Design Guidelines
- ANSI/IPC 7912A-2004, End-Item DPMO for Printed Circuit Board Assemblies
- ANSI/IPC 9191-1999, General Requirements for Implementation of Statistical Process Control (SPC)
- ANSI/IPC 9252-2001, Guidelines and Requirements for Electrical Testing of Unpopulated Printed Boards
- ANSI/IPC 9261-2002, In-Process DPMO and Estimated Yield for PWAs
- ANSI/IPC 9701-2002, Qualification and Performance Test Methods for Surface Mount Solder Attachments
- ANSI/IPC 9850-2002, Surface Mount Equipment Characterization
- ANSI/IPC A-600-F-1999, Acceptability of Printed Boards
- ANSI/IPC CC-830A AMD 1-1999, Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies
- ANSI/IPC CH-65A-1999, Guidelines for Cleaning of Printed Boards and Assemblies
- ANSI/IPC HDBK-610-2002, Handbook and Guide to IPC-A-610 (Includes IPC-A-610B and C Comparison)
- ANSI/IPC J-STD-004A-2004, Requirements for Soldering Fluxes

ANSI/IPC SC-60A-1999, Post Solder Solvent Cleaning Handbook  
ANSI/IPC SM-840C Amendment 1-2000, Qualification and Performance of Permanent Solder Mask  
ANSI/IPC WHMA-A-620-2002, Requirements and Acceptance for Cable and Wire Harness Assemblies  
ANSI/IPC-CC-830B-2002, Qualification and Performance of Electrical Insulating Compound for Printed Wiring Assemblies  
ANSI/IPC/EIA J-STD-006A-2002, Requirements for Electronic Grade Solder Alloys and Fluxed and Non-Fluxed Solid Solders for Electronic Soldering Applications  
ANSI/IPC/JEDEC J-STD-020B-2002, Moisture/Reflow Sensitivity Classification for Non-Hermetic Solid State Surface Mount Devices  
ANSI/IPC/JEDEC J-STD-033A-2002, Handling, Packing, Shipping and Use of Moisture/Reflow Sensitive Surface Mount Devices

Direct inquiries to: Jeanne Cooney, IPC, [JeanneCooney@ipc.org](mailto:JeanneCooney@ipc.org)

# Correction

## **Incorrect Abstract**

### **BSR/ASME HST-4**

The abstract in the October 16, 2009 issue of Standards Action was printed in error. The correct abstract is:

This Standard establishes performance requirements for electric wire rope hoists for vertical lifting service involving material handling of freely suspended (unguided) loads using wire rope with one of the following types of suspension: (1) lug; (2) hook; (3) trolley; (4) base or deck mounted (does not include base-mounted drum hoists of the type covered by ASME B30.7); (5) wall or ceiling mounted (does not include base mounted drum hoists of the type covered by ASME B30.7). This Standard is applicable to hoists manufactured after the date on which this Standard is issued. This Standard is not applicable to: (1) damaged or malfunctioning hoists; (2) hoists that have been misused or abused; (3) hoists that have been altered without authorization of the manufacturer or a qualified person; (4) hoists used for the purpose of drawing both the load and the hoist up or down the hoist's own wire rope; (5) hoists used for marine and other applications as required by the Department of Defense (DOD).

# Call for Comment Contact Information

The addresses listed in this section are to be used in conjunction with standards listed in Call for Comment. This section is a list of developers who have submitted standards for public review in this issue of *Standards Action* – it is not intended to be a list of all ANSI developers. Please send all address corrections to: Standards Action Editor, American National Standards Institute, 25 West 43rd Street, New York, NY 10036 or [standact@ansi.org](mailto:standact@ansi.org).

## Order from:

### **AIHA (ASC Z88)**

American Industrial Hygiene Association  
2700 Prosperity Avenue, Suite 250  
Fairfax, VA 22031  
Phone: (703) 846-0794  
Fax: (703) 207-8558  
Web: [www.aiha.org](http://www.aiha.org)

### **ASABE**

American Society of Agricultural and Biological Engineers  
2950 Niles Road  
St Joseph, MI 49085  
Phone: (269) 932-7015  
Fax: (269) 429-3852  
Web: [www.asabe.org](http://www.asabe.org)

### **ASME**

American Society of Mechanical Engineers  
3 Park Avenue, 20th Floor (20N2)  
New York, NY 10016  
Phone: (212) 591-8521  
Fax: (212) 591-8501  
Web: [www.asme.org](http://www.asme.org)

### **ASSE (Organization)**

American Society of Sanitary Engineering  
901 Canterbury Road, Suite A  
Westlake, OH 44145-1480  
Phone: (440) 835-3040  
Fax: (440) 835-3488  
Web: [www.asse-plumbing.org](http://www.asse-plumbing.org)

### **comm2000**

1414 Brook Drive  
Downers Grove, IL 60515

### **Global Engineering Documents**

Global Engineering Documents  
15 Inverness Way East  
Englewood, CO 80112-5704  
Phone: (800) 854-7179  
Fax: (303) 379-2740

### **HL7**

Health Level Seven  
3300 Washtenaw Avenue  
Suite 227  
Ann Arbor, MI 48104  
Phone: (734) 677-7777, Ext 104  
Fax: (734) 677-6622  
Web: [www.hl7.org](http://www.hl7.org)

### **ISA (Organization)**

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

### **NBBPVI**

National Board of Boiler and Pressure Vessel Inspectors  
1055 Crupper Avenue  
Columbus, OH 43229-1183  
Phone: (614) 431-3231  
Fax: (614) 847-1828  
Web: [www.nationalboard.org](http://www.nationalboard.org)

### **NECA**

National Electrical Contractors Association  
3 Bethesda Metro Center  
Suite 1100  
Bethesda, MD 20814  
Phone: (301) 215-4504  
Fax: (301) 215-4500  
Web: [www.necanet.org](http://www.necanet.org)

### **NEMA (ASC C78)**

National Electrical Manufacturers Association  
1300 North 17th Street, Suite 1847  
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Phone: (703) 841-3277  
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### **NSF**

NSF International  
789 N. Dixboro Road  
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Phone: (734) 827-6819  
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## Send comments to:

### **AIHA (ASC Z88)**

American Industrial Hygiene  
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2700 Prosperity Avenue, Suite 250  
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Phone: (703) 846-0794  
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2950 Niles Road  
St Joseph, MI 49085  
Phone: (269) 932-7015  
Fax: (269) 429-3852  
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### **ASME**

American Society of Mechanical  
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3 Park Avenue, 20th Floor (23E4)  
New York, NY 10016  
Phone: (212) 591-8077  
Fax: (212) 591-8501  
Web: www.asme.org

### **ASSE (Organization)**

American Society of Sanitary  
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901 Canterbury Road, Suite A  
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Fax: (440) 835-3488  
Web: www.asse-plumbing.org

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3300 Washtenaw Avenue  
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### **ISA (Organization)**

ISA-The Instrumentation, Systems,  
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67 Alexander Drive  
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Phone: (919) 990-9228  
Fax: (919) 549-8288  
Web: www.isa.org

### **ITI (INCITS)**

InterNational Committee for  
Information Technology  
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1101 K Street NW, Suite 610  
Washington, DC 20005  
Phone: (202) 626-5741  
Fax: (202) 638-4922  
Web: www.incits.org

### **NBBPVI**

National Board of Boiler and  
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1055 Crupper Avenue  
Columbus, OH 43229-1183  
Phone: (614) 431-3231  
Fax: (614) 847-1828  
Web: www.nationalboard.org

### **NECA**

National Electrical Contractors  
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Suite 1100  
Bethesda, MD 20814  
Phone: (301) 215-4504  
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### **NEMA (ASC C78)**

National Electrical Manufacturers  
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1300 North 17th Street, Suite 1847  
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### **NEMA (Canvass)**

National Electrical Manufacturers  
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1300 North 17th Street, Suite 1752  
Rosslyn, VA 22209  
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Web: www.nema.org

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NSF International  
789 N. Dixboro Road  
Ann Arbor, MI 48105  
Phone: (734) 827-6819  
Fax: (734) 827-7875  
Web: www.nsf.org

### **ROHVA**

Recreational Off-Highway Vehicle  
Association  
2 Jenner Street  
Suite 150  
Irvine, CA 92618  
Phone: (949) 255-2560  
Fax: (949) 727-4216

### **SCTE**

Society of Cable  
Telecommunications Engineers  
140 Philips Road  
Exton, PA 19341-1318  
Phone: (610) 594-7316  
Fax: (610) 363-5898  
Web: www.scte.org

### **UL**

Underwriters Laboratories, Inc.  
1285 Walt Whitman Road  
Melville, NY 11747  
Phone: (631) 546-2593  
Fax: (631) 439-6021  
Web: www.ul.com/

### **VITA**

VMEbus International Trade  
Association (VITA)  
PO Box 19658  
Fountain Hills, AZ 85269  
Phone: (480) 837-7486  
Fax: (480) 837-7486  
Web: www.vita.com/

# 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.

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

**Office:** 1110 N. Glebe Rd., Ste 220  
Suite 220  
Arlington, VA 22201

**Contact:** *Cliff Bernier*

**Phone:** (703) 525-4890 x229

**Fax:** (703) 276-0793

**E-mail:** [CBernier@aami.org](mailto:CBernier@aami.org)

BSR/AAMI/ISO 11138-6-201x, Sterilization of health care products - Biological indicators - Part 6: Biological indicators for hydrogen peroxide vapour sterilization processes (identical national adoption of ISO 11138-6)

BSR/AAMI/ISO 11140-6-201x, Sterilization of health care products - Chemical indicators - Part 6: Class 2 indicators and process challenge devices for use in performance testing of steam sterilizers (identical national adoption of ISO 11140-6)

BSR/AAMI/ISO 11658-201x, Cardiovascular implants and artificial organs - Coatings for blood-contact equipment (identical national adoption of ISO 11658)

BSR/AAMI/ISO TS 12417-201x, Cardiovascular Implants - Vascular device-drug combination products (identical national adoption of ISO/TS 12417)

BSR/AAMI/ISO TS 23810-201x, Cardiovascular implants and artificial organs - Checklist for preoperative extracorporeal circulation equipment setup (identical national adoption of ISO/TS 23810)

## **ASSE (ASC Z15) (American Society of Safety Engineers)**

**Office:** 1800 East Oakton Street  
Des Plaines, IL 60018-2187

**Contact:** *Tim Fisher*

**Phone:** (847) 768-3411

**Fax:** (847) 768-3411

**E-mail:** [TFisher@ASSE.org](mailto:TFisher@ASSE.org)

BSR ASSE Z15.2-201x, Safe Practices for Off-Road Vehicle Operations (new standard)

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

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

**Contact:** *Barbara Bennett*

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

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

**E-mail:** [bbennett@itic.org](mailto:bbennett@itic.org); [lbarra@itic.org](mailto:lbarra@itic.org)

INCITS/ISO 19111-2:2009, Geographic information - Spatial referencing by coordinates - Part 2: Extension for parametric values (identical national adoption of ISO 19111-2:2009)

INCITS/ISO 19144-1:2009, Geographic information - Classification systems - Part 1: Classification system structure (identical national adoption of ISO 19144-2:2009)

INCITS/ISO 6709:2008/Cor 1:2009, Standard representation of geographic point location by coordinates - Technical Corrigendum 1 (identical national adoption of ISO 6709:2008/Cor 1:2009)

INCITS/ISO/IEC 10279-1991 (S201x), Information technology - Programming languages - Full BASIC (stabilized maintenance of INCITS/ISO/IEC 10279-1991 (R2005))

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

**Office:** 1300 North 17th Street, Suite 1752  
Rosslyn, VA 22209

**Contact:** *Michael Leibowitz*

**Phone:** (703) 841-3264

**Fax:** (703) 841-3364

**E-mail:** [mik\\_leibowitz@nema.org](mailto:mik_leibowitz@nema.org)

BSR/NEMA OS 1-201x, Sheet-Steel Outlet Boxes, Device Boxes, Covers, and Box Supports (revision of ANSI/NEMA OS 1-2008)

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

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

*Contact:* Barbara Davis

**Phone:** (408) 754-6722

**Fax:** (408) 689-6722

**E-mail:** Barbara.J.Davis@us.ul.com

BSR/UL 1081-201x, Standard for Safety for Swimming Pool Pumps, Filters, and Chlorinators (Proposal dated 10-23-09) (revision of ANSI/UL 1081-2009a)

BSR/UL 1450-201x, Standard for Safety for Motor-Operated Air Compressors, Vacuum Pumps, and Painting Equipment (revision of ANSI/UL 1450-2009)

## Call for Members (ANS Consensus Bodies) UL Standards Committees STP 231, STP 466, STP 1594, and STP 61496

**STP 231** seeks to broaden its membership base and is recruiting new participants in the following interest categories:

Commercial / Industrial User, Consumer, General, Government, Supply Chain  
STP 231 covers UL 231, the Standard for Safety for Power Outlets

**STP 466** seeks to broaden its membership base and is recruiting new participants in the following interest categories:

AHJ, Commercial / Industrial User, Consumer, General Interest, Government, Supply Chain, Testing & Standards  
STP 466 covers UL 466, the Standard for Safety for Electric Scales and Accessories

**STP 1594** seeks to broaden its membership base and is recruiting new participants in the following interest categories:

AHJ, Commercial / Industrial Users, Consumer, General Interest, Government, Supply Chain, Testing & Standards  
STP 1594 covers UL 1594, the Standard for Safety for Sewing and Cutting Machines

**STP 61496** seeks to broaden its membership base and is recruiting new participants in the following interest categories:

AHJ, Commercial / Industrial User, General Interest, Government, Supply Chain, Testing & Standards  
STP 61496 covers UL 61496-1, the Standard for Safety for Electro-Sensitive Protective Equipment, Part 1; General Requirements and Tests, and UL 61496-2, Electro-Sensitive Protective Equipment, Part 2 : Particular Requirements for Equipment Using Active Opto-Electronic Protective Devices (AOPDs)

Information concerning the application process may contact:

Linda Phinney  
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Phone: (408) 754-6684  
Fax: (408) 689-6684

## **Call for Members (ANS Consensus Bodies) UL Standards Committees STP 2024 and STP 651**

**STP 2024**, Optical Fiber Cable Raceway, seeks to broaden its membership base and is recruiting new participants in the following interest categories:

AHJ, General, Supply Chain, Testing and Standards.

STP 2024 covers the Standard for Safety for Optical Fiber and Communication Cable Raceway, UL 2024.

**STP 651**, Rigid Nonmetallic Conduit and Fittings, seeks to broaden its membership base and is recruiting new participants in the following interest categories:

AHJ, General, Supply Chain

STP 651 covers the following standards:

UL 651, the Standard for Safety for Schedule 40 and 80 Rigid PVC Conduit and Fittings;

UL 651A, the Standard for Safety for Type EB and A Rigid PVC Conduit and HDPE Conduit;

UL 651B, the Standard for Safety for Continuous Length HDPE Conduit;

UL 1684A, the Standard for Safety for Supplemental Requirements for Extra Heavy Wall Reinforced Thermosetting Resin Conduit (RTRC) and Fittings

UL 1990, the Standard for Safety for Nonmetallic Underground Conduit with Conductors

UL 2420, the Standard for Safety for Belowground Reinforced Thermosetting Resin Conduit (RTRC) and Fittings

UL 2515, the Standard for Safety for Aboveground Reinforced Thermosetting Resin Conduit (RTRC) and Fittings

For information regarding the application process, please contact:

Paul Lloret

Underwriters Laboratories Inc. (UL)

455 E Trimble Road

San Jose, CA 95131

E-mail: [paul.e.lloret@us.ul.com](mailto:paul.e.lloret@us.ul.com)

Phone: (408) 754-6618

# 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.

## ALI (Automotive Lift Institute)

### Revisions

ANSI/ALI ALIS-2009, Standard for Automotive Lifts - Safety Requirement for Installation and Service (revision of ANSI ALI ALIS-2001): 10/20/2009

## CEA (Consumer Electronics Association)

### Withdrawals

ANSI/CEA 600.10-2000, Introduction to the CEBus Standard (withdrawal of ANSI/CEA 600.10-2000): 10/20/2009

ANSI/CEA 600.31-1997, Power Line Physical Layer and Medium Specification (withdrawal of ANSI/CEA 600.31-1997 (R2004)): 10/20/2009

ANSI/CEA 600.32-1997, Twisted Pair Physical Layer & Medium Specification (withdrawal of ANSI/CEA 600.32-1997 (R2004)): 10/20/2009

ANSI/CEA 600.33-1997, Coax Cable Physical Layer & Medium Specification (withdrawal of ANSI/CEA 600.33-1997 (R2004)): 10/20/2009

ANSI/CEA 600.34-1997, IR Physical Layer & Medium Specification (withdrawal of ANSI/CEA 600.34-1997 (R2004)): 10/20/2009

ANSI/CEA 600.35-1997, RF Physical Layer & Medium Specification (withdrawal of ANSI/CEA 600.35-1997 (R2004)): 10/20/2009

ANSI/CEA 600.37-1997, Symbol-Encoding Sublayer (withdrawal of ANSI/CEA 600.37-1997 (R2004)): 10/20/2009

ANSI/CEA 600.38-1997, Power Line/Radio Frequency Symbol Encoding Sublayer (withdrawal of ANSI/CEA 600.38-1997 (R2004)): 10/20/2009

ANSI/CEA 600.41-1997, Description of the Data Link Layer (withdrawal of ANSI/CEA 600.41-1997 (R2004)): 10/20/2009

ANSI/CEA 776.2-1999, CEBus-EIB Router Communications Protocol - CEBus-EIB Router Medium Access Control Sublayer (withdrawal of ANSI/CEA 776.2-1999): 10/13/2009

ANSI/CEA 776.3-1999, CEBus-EIB Router Communications Protocol - CEBus-EIB Router Logical Link Control Sublayer (withdrawal of ANSI/CEA 776.3-1999): 10/13/2009

ANSI/CEA 776.4-1999, CEBus-EIB Router Communications Protocol - CEBus-EIB Router Network Layer (withdrawal of ANSI/CEA 776.4-1999): 10/13/2009

ANSI/CEA 776.5-2000, CEBus-EIB Router Communication Protocol - Description of the CEBus-EIB Router (withdrawal of ANSI/CEA 776.5-1999): 10/13/2009

## HI (Hydraulic Institute)

### Revisions

ANSI/HI 9.6.5-2009, Rotodynamic (Centrifugal and Vertical) Pumps for Condition Monitoring (revision of ANSI/HI 9.6.5-2000): 10/13/2009

## IEEE (ASC C63) (Institute of Electrical and Electronics Engineers)

### New Standards

ANSI C63.2-2009, Eletromagnetic Noise and Field Strength Instrumentation, 10Hz - 40 GHz Specifications (new standard): 10/20/2009

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

### New National Adoptions

INCITS/ISO/IEC 24752-2:2009, Information technology - User interfaces - Universal remote console - Part 2: User interface socket description (identical national adoption of ISO/IEC 24752-2:2008): 10/14/2009

### New Standards

ANSI INCITS 423.4-2009, Information Technology - Conformance Testing Methodology Standard for Biometric Data Interchange Format Standards - Part 4: Conformance Testing Methodology for INCITS 381, Finger Image-Based Data Interchange Format (new standard): 10/13/2009

### Withdrawals

INCITS/ISO/IEC 11159-1996, Information technology - Office Equipment - Minimum information to be included in specification sheets - Copying machines (withdrawal of INCITS/ISO/IEC 11159-1996 (R2004)): 10/13/2009

## NFSI (National Floor Safety Institute)

### New Standards

ANSI/NFSI B101.1-2009, Test Method for Measuring Wet SCOF of Common Hard-Surface Floor Materials (new standard): 10/13/2009

## UL (Underwriters Laboratories, Inc.)

### Revisions

ANSI/UL 864-2009, Standard for General-Purpose Signaling Devices and Systems (revision of ANSI/UL 864-2006): 10/20/2009

ANSI/UL 1123-2009d, Standard for Safety for Marine Buoyant Devices (revision of ANSI/UL 1123-2009b): 10/14/2009

ANSI/UL 2227-2009, Standard for Safety for Overfilling Prevention Devices (Proposals dated 9/19/08) (revision of ANSI/UL 2227-2008): 10/16/2009

# Project Initiation Notification System (PINS)

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

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

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

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

**Office:** 1110 N. Glebe Rd., Ste 220  
Suite 220  
Arlington, VA 22201

**Contact:** *Cliff Bernier*

**Fax:** (703) 276-0793

**E-mail:** [CBernier@aami.org](mailto:CBernier@aami.org)

BSR/AAMI/ISO 11138-6-201x, Sterilization of health care products - Biological indicators - Part 6: Biological indicators for hydrogen peroxide vapour sterilization processes (identical national adoption of ISO 11138-6)

Stakeholders: Biological indicator manufacturers, health care facilities, users of biological indicators.

Project Need: To create standards that specify the testing methods and performance requirements of biological indicators for hydrogen peroxide vapor sterilization processes.

Provides specific requirements for test organisms, suspensions, inoculated carriers, biological indicators, and test methods intended for use in assessing the performance of sterilizers, sterilization processes and other antimicrobial processes (sometimes referred to as high-level disinfection) employing hydrogen peroxide vapor as the antimicrobial agent, at process temperatures within the range of 20 C to 60 C.

BSR/AAMI/ISO 11140-6-201x, Sterilization of health care products - Chemical indicators - Part 6: Class 2 indicators and process challenge devices for use in performance testing of steam sterilizers (identical national adoption of ISO 11140-6)

Stakeholders: Manufacturers and users of chemical indicators.

Project Need: To give requirements for test devices and chemical indicators that are used to show adequate steam penetration performance for both small and large sterilizers that are used around the world.

Specifies the performance requirements and test methods for chemical indicators and chemical indicator systems and process challenge devices (PCDs) within which they are intended to function, to be used for testing the steam penetration performance of steam sterilizers. Small steam sterilizers are defined in EN 13060 and large steam sterilizers are defined in EN 285.

BSR/AAMI/ISO 11658-201x, Cardiovascular implants and artificial organs - Coatings for blood-contact equipment (identical national adoption of ISO 11658)

Stakeholders: Users and manufacturers of heart-lung bypass and extracorporeal life support equipment.

Project Need: To address the composition, mechanical and biological characteristics, performance, and safety of coatings for all components used in heart-lung bypass and extracorporeal life support equipment.

Specifies requirements for the physical attribute testing of biocompatible coatings on CPB devices. Will apply to components of heart-lung bypass equipment and of extracorporeal life-support equipment that carry blood and have a coating on the blood contact surface of the device.

BSR/AAMI/ISO TS 12417-201x, Cardiovascular Implants - Vascular device-drug combination products (identical national adoption of ISO/TS 12417)

Stakeholders: Manufacturers and users of vascular combination products.

Project Need: To develop a technical specification to address typical conceptual and technical issues that result when devices are combined with medicinal products.

Specifies requirements for vascular device-drug combination products, based upon current technical and medical knowledge. With regard to safety, this document outlines requirements for intended performance, design attributes, materials, design evaluation, manufacturing, sterilization packaging and information supplied by the manufacturer.

BSR/AAMI/ISO TS 23810-201x, Cardiovascular implants and artificial organs - Checklist for preoperative extracorporeal circulation equipment setup (identical national adoption of ISO/TS 23810)

Stakeholders: Healthcare facilities, perfusionists.

Project Need: To provide a generic guideline for safe use of extracorporeal circulation (ECC) equipment.

Covers activities performed by perfusionists during equipment setup prior to cardiopulmonary bypass (CPB); extracorporeal membrane oxygenation (ECMO); cardiopulmonary support (CPS); left or right heart bypass (LHB, RHB); venovenous (VV) extracorporeal support for liver transplantation. These checklist items should be considered for assuring verification that the equipment, devices or systems have been set up correctly. This checklist is comprehensive by design and may be modified by each institution in order to conform to specific procedures or institutional practice.

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

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**Contact:** John Adey

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

BSR/ABYC H-22-201x, Electric Bilge Pump Systems (new standard)

Stakeholders: Boat manufacturers, insurance personnel, trade organizations, consumers.

Project Need: To identify the safety issues with electric bilge pump systems.

Provides a guide for the design, construction, installation, operation, and control of electric bilge pump systems.

BSR/ABYC H-30-201x, Hydraulic Systems (new standard)

Stakeholders: Boat manufacturers, insurance personnel, trade organizations, consumers.

Project Need: To identify safety issues with hydraulic systems.

Provides a guide for the design, construction, installation, operation, and control of hydraulic components used to transmit force.

BSR/ABYC H-35-201x, Powering and Load Capacity of Pontoon Boats (new standard)

Stakeholders: Boat manufacturers, insurance personnel, trade organizations, consumers.

Project Need: To identify safety issues with pontoon boats.

Provides a guide for determining powering and load capacity of pontoon boats.

**AISI (American Iron and Steel Institute)**

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BSR/AISI S100-2007/S2-200x, Supplement 2 to the North American Specification for the Design of Cold-Formed Steel Structural Members, 2007 Edition (supplement to ANSI/AISI S100-2007 and BSR/AISI S100-2007/S1-201x)

Stakeholders: Cold-formed steel industry.

Project Need: Using new research findings, to update and improve the current standard.

Provides supplemental information for determining member and connection strengths of cold-formed carbon and low-alloy steels.

Provides supplemental information for determining resistance factors of cold-formed carbon and low alloy steel members and connections via tests. This Supplement 2 to AISI S100-07 replaces Supplement 1 to AISI S100-07 and is applicable to the United States, Canada, and Mexico.

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

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BSR X9.79 Part 3 and Part 4-201x, Public Key Infrastructure (PKI) - Part 3: Certificate Management and Part 4: Certificate Extensions (new standard)

Stakeholders: Financial institutions, service providers, product providers, end-users, security assessors.

Project Need: The expansion of X9.79 with Parts 3 and 4 consolidates PKI management and security requirements into a single American National Standard.

Addresses the necessary revision of two withdrawn American National Standards (X9.57 and X9.55) and the unacceptability of an international standard (ISO 15782) into an existing American National Standard (X9.79). X9.57-1997, Certificate Management, was internationalized as ISO 15782, Certificate management for financial services - Part 1: Public key certificates. However, the X9F4 working group has determined that the USA cannot adopt ISO 15782-1 due to the numerous inconsistencies with USA practices including the removal of certificate revocations.

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

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BSR/ASME B18.6.3-201x, Machine Screw and Tapping Screw Nuts (Inch Seires) (revision, redesignation and consolidation of ANSI/ASME B18.6.3-2003 (R2008) and ANSI/ASME B18.6.4-2009)

Stakeholders: Users, distributors, and manufacturers.

Project Need: To revise and consolidate ASME B18.6.3 and ASME B18.6.4, and add information on Type VI recess (TORX®, 6 Lobe) dimensions and the gaging information in the Appendix. It will also add thread rolling screws, Type TRS to the tapping screw types.

Covers the complete general and dimensional data for the various types of slotted and recessed head machine screws, tapping screws, metallic drive screws, and machine screw nuts recognized as the American National Standard.

**ASSE (ASC Z15) (American Society of Safety Engineers)**

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BSR ASSE Z15.2-201x, Safe Practices for Off-Road Vehicle Operations (new standard)

Stakeholders: SH&E professionals working with offroad vehicles.

Project Need: To revise the standard based upon the consensus of Accredited Standards Committee Z15.

Sets forth practices for the safe operation of off-road vehicle operations. This standard does not address vehicles being used for non-work-related purposes.

**ASTM (ASTM International)**

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BSR/ASTM WK25983-201x, New Test Method for Evaluating the Limited Surface Burning Characteristics of Building Materials (new standard)

Stakeholders: Fire standards industry.

Project Need:

<http://www.astm.org/DATABASE.CART/WORKITEMS/WK25983.htm>

<http://www.astm.org/DATABASE.CART/WORKITEMS/WK25983.htm>

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

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BSR/IEEE 45.7-201x, Recommended Practice for Electrical Installations on Shipboard - Switchboards (new standard)

Stakeholders: Shipping companies, off-shore exploration and production facilities, manufacturers, shipyards.

Project Need: IEEE 45 has grown due to new technology and methods. As a result, the document is being divided into a top-level document (IEEE 45) and seven sub-documents IEEE 45.1 through IEEE 45.7.

Establishes the design, installation, and testing recommendations for generator control panels and switchboards on a ship. These recommendations reflect the present-day technologies, engineering methods, and engineering practices.

BSR/IEEE 275-200x, Recommended Practice for Thermal Evaluation of Insulation Systems for Alternating-Current Electric Machinery Employing Form-Wound Pre-Insulated Stator Coils for Machines Rated 6900 V and Below (new standard)

Stakeholders: Manufacturers and users of large (form-wound) electric motors and generators.

Project Need: To classify insulation systems for the machinery within the scope of this standard in accordance with their temperature limits by test, rather than by chemical composition.

Outlines a test procedure for comparing two or more insulation systems in accordance with their expected life at rated temperature. The procedure is limited to insulation systems for ac electric machines using form-wound preinsulated stator coils and rated 6900 V and below.

BSR/IEEE 671-1985/Cor 1-200x, Specification Format Guide and Test Procedure for Nongyroscopic Inertial Angular Sensors: Jerk, Acceleration, Velocity, and Displacement - Corrigendum 1: 4.7.2.6 Short-Term Stability and Annex A Sensor Dynamic Block Diagrams (addenda to ANSI/IEEE 671-1985 (R2008))

Stakeholders: Producers, users, and those with a general interest in nongyroscopic inertial angular sensors.

Project Need: The project is needed to correct known errors in the published standard.

Describes changes that are being made to fix section 4.7.2.6 in order to delete a sentence that does not belong there, to add a subclause that was inadvertently left out, and to renumber the existing subclauses. Changes are also being made to fix the block diagrams in Annex A in order to correct a misspelling of "inertia" and to add a missing symbol.

BSR/IEEE 802.1Qbc-200x, Local and Metropolitan Area Networks - Virtual Bridged Local Area Networks Amendment: Provider Bridging - Remote Customer Service Interfaces (addenda to ANSI/IEEE 802.1Q-2006)

Stakeholders: Developers and users of networking equipment and services for provider network environments.

Project Need: To provide Metro Ethernet service providers with standardized Provider Bridge functionality that allows customers connected via an independently operated access network to be given service as if they were directly connected to the service provider's network.

Allows a service-tagged (S-tagged) service interface connecting two independently administered Provider Bridged Networks to be used to handle traffic (identified by a single service virtual local area network (S-VLAN) identifier) for a given customer port attached to one provider backbone network (PBN) as if the customer were directly attached to the other PBN using a Port-based or customer tagged (C-tagged) service interface.

BSR/IEEE 802.1Qbe-200x, Local and Metropolitan Area Networks - Virtual Bridged Local Area Networks Amendment: Multiple Backbone Service Instance Identifier (I-SID) Registration Protocol (MIRP) (addenda to ANSI/IEEE 802.1Q-2006)

Stakeholders: Vendors, users, administrators, designers, customers, and owners of provider backbone bridged networks.

Project Need: The deployment of IEEE Provider Backbone Bridged Networks, including tagged connections between these networks, has raised requirements for both signaling among Provider Edge Bridges the need to forget MAC address associations, and for extending the capabilities of MRP to backbone service identifiers.

Specifies protocols, procedures, and managed objects to support topology change signaling to alter the binding (held in an I-Component) of Customer addresses to Backbone addresses on a per-Backbone Service Instance Identifier (I-SID) basis. This is accomplished by extending the use of the Multiple Registration Protocol (MRP).

BSR/IEEE 802.1Qbf-200x, Local and Metropolitan Area Networks - Virtual Bridged Local Area Networks Amendment: Provider Backbone Bridge Traffic Engineering (PBB-TE) Infrastructure Segment Protection (addenda to ANSI/IEEE 802.1Q-2006)

Stakeholders: Vendors, users, administrators, designers, customers, and owners of traffic-engineered bridged networks.

Project Need: To describe a simple localized protection capability, which would strengthen the applicability of PBB-TE networks.

Specifies procedures and managed objects to provide 1:1 (M:1 if practical) protection switching, without modifying data or control frames and using connectivity fault management (CFM), for a group of Traffic Engineered Service Instances (TESIs) that traverses a sequence of local area networks (LANs) and intervening bridges. Operator requests and operational modes consistent with those supported by PBB-TE TESI Protection are specified.

BSR/IEEE 1028-200x, Standard for Software Reviews (revision of ANSI/IEEE 1028-2008)

Stakeholders: Software engineers.

Project Need: To define systematic reviews applicable to software acquisition, supply, development, operation, and maintenance. This standard describes how to carry out a review.

Provides minimum acceptable requirements for systematic software reviews, where "systematic" includes the following attributes: Team participation, documented results of the review; and documented procedures for conducting the review.

BSR/IEEE 1241-200x, Standard for Terminology and Test Methods for Analog-to-Digital Converters (revision of ANSI/IEEE 1241-2000)

Stakeholders: Commercial, industrial, military, medical, environmental, manufacturing, universities, laboratories.

Project Need: To identify ADC error sources and provide test methods with which to perform the required error measurements.

Provides common terminology and test methods for the testing and evaluation of analog-to-digital converters (ADCs).

BSR/IEEE 1413-200x, Standard Methodology for Reliability Prediction and Assessment for Electronic Systems and Equipment (new standard)

Stakeholders: Consumer, industrial, computer, medical, telecommunication, defense, automotive, aerospace.

Project Need: To provide an approach for developing reliability predictions for electronic systems and equipment which will emphasize the physical-of-failure approach.

Covers the framework for the reliability prediction process for electronic systems and equipment at all levels.

BSR/IEEE 1484.13.2-201x, Recommended Practice for Learning Technology - Metadata Encoding and Transmission Standard (METS) Mapping to the Conceptual Model for Resource Aggregation (new standard)

Stakeholders: Designers, developers, and vendors of learning management systems.

Project Need: To unify the specifications and standards for resource aggregations that were created by different communities, such as the multimedia community, the library community, the technical documentation community, and the learning technology community.

Specifies how the elements and attributes defined in the Metadata Encoding and Transmission Standard (METS) relate to the components of the conceptual model for resource aggregation defined in IEEE Std 1484.13.1.

BSR/IEEE 1484.13.3-201x, Recommended Practice for Learning Technology - ISO 21000-2:2005 Information Technology - Multimedia Framework (MPEG-21) - Part 2: Digital Item Declaration Mapping to the Conceptual Model for Resource Aggregation (new standard)

Stakeholders: Designers, developers, and vendors of learning management systems.

Project Need: To unify the specifications and standards for resource aggregations that were created by different communities, such as the multimedia community, the library community, the technical documentation community, and the learning technology community.

Specifies how the elements and attributes defined in ISO 21000-2:2005, Multimedia Framework (MPEG-21) - Part 2: Digital Item Declaration (MPEG21 DID), relate to the components of the conceptual model for resource aggregation defined in IEEE Std 1484.13.1.

BSR/IEEE 1484.13.4-201x, Recommended Practice for Learning Technology - IMS Content Packaging Information Model (CP) Version 1.2 - Mapping to the Conceptual Model for Resource Aggregation (new standard)

Stakeholders: Designers, developers, and vendors of learning management systems.

Project Need: To unify the specifications and standards for resource aggregations that were created by different communities, such as the multimedia community, the library community, the technical documentation community, and the learning technology community.

Specifies how the elements and attributes defined in the IMS Content Packaging Information Model (CP) Version 1.2 relate to the components of the conceptual model for resource aggregation defined in IEEE Std 1484.13.1.

BSR/IEEE 1484.13.5-201x, Recommended Practice for Learning Technology - IETF RFC 4287 - Atom Syndication Format - Mapping to the Conceptual Model for Resource Aggregation (new standard)

Stakeholders: Designers, developers, and vendors of learning management systems.

Project Need: To unify the specifications and standards for resource aggregations that were created by different communities, such as the multimedia community, the library community, the technical documentation community, and the learning technology community.

Specifies how the elements and attributes defined in Atom Syndication Format (Atom) relate to the components of the conceptual model for resource aggregation defined in IEEE Std 1484.13.1.

BSR/IEEE 1484.13.6-201x, Recommended Practice for Learning Technology - Open Archives Initiative Object Reuse and Exchange Abstract Model (OAI-ORE) - Mapping to the Conceptual Model for Resource Aggregation (new standard)

Stakeholders: Designers, developers, and vendors of learning management systems.

Project Need: To unify the specifications and standards for resource aggregations that were created by different communities, such as the multimedia community, the library community, the technical documentation community, and the learning technology community.

Specifies how the elements and attributes defined in the Open Archives Initiative Object Reuse and Exchange (OAI-ORE) Abstract Model and expressed in the OAI-ORE Resource Map Implementation in RDF/XML relate to the components of the conceptual model for resource aggregation defined in IEEE Std 1484.13.1.

BSR/IEEE 1613a-200x, Environmental and Testing Requirements for Communications Networking Devices Installed in Electric Power Substations - Amendment: Additions of Definitions, DC Power Supply Requirements, History, and Testing Comments (addenda to ANSI/IEEE 1613-2003)

Stakeholders: Specifiers, designers, testers, and users.

Project Need: The History annex is a response to questions as to the reason for the required transient tests. The testing Q&A is intended as an aid those new to these test requirements

Adds a definition, a requirement to dc power supplies, and two Informative Annexes.

BSR/IEEE 1619.1-200x, Standard Architecture for Encrypted Variable Block Storage Media (new standard)

Stakeholders: Users of removable storage.

Project Need: To address the security qualities and interoperability of encrypted tape systems.

Specifies the architecture for protection-use-data in Variable Block storage devices, describing the methods, algorithm(s), and modes of data protection to be used.

BSR/IEEE 1668-201x, Recommended Practice for Voltage Sag and Interruption Ride-Through Testing for End Use Electrical Equipment Less than 1,000 Volts (new standard)

Stakeholders: All categories of equipment manufacturers for voltage applications below 1000Vac.

Project Need: To create a standardized methodology to test electronic equipment and understand its susceptibility to AC voltage variations.

Defines minimum voltage sag immunity requirements based on actual voltage sag data. This document is a non-industry-specific recommended practice for voltage sag ride-through performance and compliance testing for all electrical and electronic equipment connected to low-voltage power systems that can experience malfunction or shutdown as a result of reductions in supply voltage lasting less than one minute.

BSR/IEEE 1680.2-201x, Standard for Environmental Assessment of Imaging Equipment (new standard)

Stakeholders: Imaging equipment manufacturers; suppliers of materials, equipment, and packaging.

Project Need: IEEE 1680.2 will consist of environmental criteria and other materials that relate specifically to imaging equipment products. The August 2007 EPEAT Standards Development Roadmap identified imaging equipment as a high priority for standard development, based on extensive input from stakeholders.

Defines environmental performance standards for imaging equipment (as defined by the U.S. ENERGY STAR Imaging Equipment Specification) including copiers, digital duplicators, facsimile machines, multifunction devices, printers, mailing machines and scanners, relating to reduction or elimination of environmentally sensitive materials, materials selection, design for end of life, lifecycle extension, energy conservation, end of life management, corporate performance, and packaging.

BSR/IEEE 1680.3-201x, Standard for Environmental Assessment of Televisions (new standard)

Stakeholders: Television manufacturers; suppliers of materials, equipment, and packaging.

Project Need: IEEE 1680.3 will consist of environmental criteria and other materials that relate specifically to television products. The August 2007 EPEAT Standards Development Roadmap identified televisions as a high priority for standard development, based on extensive input from stakeholders.

Defines environmental performance for televisions, television combination units, and component television units, relating to reduction or elimination of environmentally sensitive materials, materials selection, design for end of life, lifecycle extension, energy conservation, end of life management, corporate performance, and packaging. This Standard applies to products that are primarily marketed as televisions, and does not cover computer displays as defined by IEEE 1680.1.

BSR/IEEE 1680-200x, Standard for Environmental Assessment of Personal Computer products (including laptop and desktop computers, and monitors) (new standard)

Stakeholders: Institutional purchasers, electronic product manufacturers, trade associations.

Project Need: To create a comprehensive standard for evaluating environmental attributes of electronic products.

Defines environmental performance standards for desktop computers, laptop computers, and monitors. This standard addresses the following eight categories of environmental product performance:

- (1) Reduction/elimination of environmentally sensitive materials;
- (2) Materials selection;
- (3) Design for end of life;
- (4) Life cycle extension;
- (5) Energy conservation;
- (6) End of life management;
- (7) Corporate performance; and
- (8) Packaging.

BSR/IEEE 1685-200x, Standard Structure for Packaging, Integrating and Re-using IP within Tool-flows, (SPIRIT) (new standard)

Stakeholders: Electronics industry.

Project Need: As designs get larger and more complex, the electronics industry is using increasing numbers of IP blocks in those designs. The lack of a standard description of those blocks makes their use difficult and error.

Describes a metadata schema for the description of Intellectual Property (IP) and an Application Programming Interface (API) to provide tool access to this schema. This schema provides a standard method to describe IP that is compatible with automated integration techniques.

BSR/IEEE 1722.1-201x, Standard Device Discovery, Connection Management and Control Protocol for IEEE 1722 Based Devices (new standard)

Stakeholders: Developers and users of bridged LAN and end-point systems supporting audio/video applications.

Project Need: To define a simple yet common method for handling real-time audio/video suitable for consumer electronics, professional A/V applications, etc.

Specifies the protocol, device discovery, connection management, and device control procedures used to ensure interoperability between audio- and video-based end stations that use IEEE-1722-based stream on IEEE-802-based networks.

BSR/IEEE 1808-201x, Guide for Collecting and Managing Transmission Line Inspection and Maintenance Data (new standard)

Stakeholders: Computer-based data collection and management.

Project Need: To provide resources to guide the design and development of systems appropriate for their work practices and reporting requirements in the area of transmission line inspection and maintenance.

Provides reference information to assist electric utilities and their contractors with the development of computer-based means for collecting and managing transmission-line inspection and maintenance data and associated asset information including transmission-line inventory data. This standard provides a high-level overview of key principles and considerations learned through experience that will help ensure common pitfalls are avoided and enhance the usability of systems.

BSR/IEEE 1809-201x, Guide for Electric-Sourced Transportation Infrastructure (new standard)

Stakeholders: Electric power system owners, planners, designers, and operators; electricity consumers.

Project Need: To provide guidelines that, if adopted, will facilitate the wide-scale and consistent implementation of electric-sourced, road-based transportation.

Provides guidelines that can be used by utilities, manufacturers, transportation providers, infrastructure developers, and end users of electric-sourced vehicles and related support infrastructure in addressing applications for road-based personal and mass transportation. This guide provides a knowledge base addressing terminology, methods, equipment, and planning requirements for such transportation and its impacts on commercial and industrial systems including, for example, generation, transmission, and distribution systems of electrical power.

BSR/IEEE 16326-200x, Software Engineering - Project management (new standard)

Stakeholders: Software engineers.

Project Need: To update the current standard, extend it to include project execution as well as planning, to promote it to the status of an International Standard, and to achieve greater harmonization with software engineering standards of JTC1/SC7; the relevant standards of ISO TC176, IEEE, and PMI; and the merging systems engineering standards of JTC1/SC7.

Provides a revision of IEEE Std 1058-1998 (IEEE Standard for Software Project Management Plans) to become an International Standard by merging it with an existing ISO/IEC Technical Report 16326-1999 (Software engineering - Guide for the application of ISO/IEC 12207 to Project Management).

BSR/IEEE 26512-201x, Standard for Software and Systems Engineering - Requirements for Acquirers and Suppliers of User Documentation (new standard)

Stakeholders: Acquirers/suppliers of user documentation, information designers and architects, business analysts.

Project Need: To cover the requirements for information items used in the acquisition of user documentation products.

Describes the acquisition and supply processes as applicable to user documentation, including how to establish what information users need, how to determine the way in which that information should be presented to the users, and how to specify the required information and its delivery. This standard is not limited to the initial selection activities in the acquisition/supply processes, but includes activities throughout the information management and documentation processes. It applies to printed user manuals, online help, tutorials, and user reference documentation.

BSR/IEEE 26513-201x, Standard for Systems and Software Engineering - Requirements for Testers and Reviewers of User Documentation (identical national adoption of ISO/IEC 26513)

Stakeholders: Managers, authors, acquirers of documentation.

Project Need: To assist those who test and review software user documentation as part of the software lifecycle process.

Defines the process in which user documentation products are tested. This standard is not limited to the test and review phase of the lifecycle, but includes activities throughout the Information Management and Documentation Management processes. This International Standard is intended for use in all types of organizations, whether or not a dedicated documentation department is present. It applies to printed user manuals, online help, tutorials, and user reference documentation. This International Standard deals with the evaluation of documentation only, and not with the evaluation of the software it supports.

BSR/IEEE 26514-201x, Standard for Systems and Software Engineering - Requirements for Designers and Developers of User Documentation (identical national adoption of ISO/IEC 26514)

Stakeholders: Software user documentation designers, writers, editors, managers, and acquirers.

Project Need: IEEE 26514 will supersede IEEE 1063, Standard for Software User Documentation. IEEE 26514 incorporates the normative content of IEEE 1063 on the structure, format, and content of user documentation, and also includes requirements for the information management and documentation processes and substantial additional informative material.

Supports the interest of software users in consistent, complete, accurate, and usable documentation. The first part of this International Standard covers the user documentation process for designers and developers of documentation. It describes how to establish what information users need, how to determine the way in which that information should be presented to the users, and how to prepare the information and make it available. It is not limited to the design and development phase of the lifecycle, but includes activities throughout the information management and documentation processes.

BSR/IEEE 60092-510-201x, Electrical Installations in Ships - Part 510: High Voltage Shore Connection Systems (HVSC) (new standard)

Stakeholders: Ports, shipbuilders, designers of shore power systems as well as end users and regulatory agencies.

Project Need: To provide coordinated development of analytical techniques, port infrastructure, and shipboard electrical plants, which will facilitate the implementation of the "any ship, any port" concept.

Describes high-voltage shore connection (HVSC) systems, on board the ship and on shore, to supply the ship with electrical power from shore during the port lay period. This standard is applicable to the design, installation and testing of HVSC systems and plants and addresses:

- high-voltage shore distribution system;
- shore-to-ship connection;
- transformers/reactors;
- semiconductor/rotating convertors;
- ship distribution system; and
- control, monitoring, interlocking, and power management system.

BSR/IEEE C95.1-2345-201x, Standard for the Evaluation and Control of Personnel Exposure to Electric, Magnetic and Electromagnetic Fields, 0 Hz to 300 GHz (new standard)

Stakeholders: NATO members and other organizations in need of workplace standards.

Project Need: Under an agreement between IEEE and the NATO Standardization Agency, this standard will be considered for use under NATO STANAG 2345.

Provides recommendations that protect personnel against established adverse health effects associated with exposure to electric, magnetic, and electromagnetic fields in the frequency range of 0 Hz to 300 GHz. The recommendations are expressed in terms of basic restrictions (BRs) and reference levels. The BRs are limits on internal fields, specific absorption rate (SAR), and power density; the reference levels are derived from the BRs, and are expressed in terms of external fields and induced and contact current.

#### **IPC (IPC - Association Connecting Electronics Industries)**

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BSR/IPC-1758-201x, Declaration of Shipping, Packing and Packaging Materials (new standard)

Stakeholders: Electronics manufacturing industry.

Project Need: To facilitate the gathering and exchange of information related to the compliance and conformance with customer and legal requirements pertaining to shipping, packing, and packaging materials.

Establishes the requirements for exchanging material and substance data between suppliers and their customers for shipping, packing, and packaging. This standard applies to shipping, packing, and packaging that is supplied to or used by producers of EEE for the protection, handling and transportation of their products. It covers materials and substances that may be present in the supplied shipping, packing or packaging materials.

BSR/IPC A-610E-201x, Acceptability of Electronic Assemblies (revision and redesignation of ANSI/IPC A-610D-2005)

Stakeholders: Electronics manufacturing industry.

Project Need: This standard is used world-wide by companies that make electronic assemblies.

In the 18 months since Rev D was published, IPC has on file more than 80 comments (included some deferred from Rev D), and the committee has asked to begin work on Rev E. A large number of these comments are to technical content that will also impact J-STD-001, and a separate PIN to open that document for Rev E has also been submitted.

BSR/IPC J-STD-001E-201x, Requirements for Soldered Electrical and Electronic Assemblies (revision and redesignation of ANSI/IPC J-STD-001D-2005)

Stakeholders: Electronics manufacturing industry.

Project Need: This standard is used world-wide by companies that make electronic assemblies.

In the 18 months since Rev D was published, IPC has on file more than 80 comments (included some deferred from Rev D), and the committee has asked to begin work on Rev E. A large number of these comments are to technical content that will also impact IPC-A-610, and a separate PIN to open that document for Rev E has also been submitted.

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

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INCITS/ISO 19111-2:2009, Geographic information - Spatial referencing by coordinates - Part 2: Extension for parametric values (identical national adoption of ISO 19111-2:2009)

Stakeholders: ICT industry.

Project Need: To adopt this International Standard, which will be beneficial to the ICT industry.

Specifies the conceptual schema for the description of spatial referencing using parametric values or functions. This standard applies the schema of ISO 19111 to combine a position referenced by coordinates with a parametric value to form a spatio-parametric coordinate reference system (CRS). The spatio-parametric CRS can optionally be extended to include time. The intended users of ISO 19111-2:2009 are producers and users of environmental information. Parameters that are attributes of spatial locations or features but that are not involved in their spatial referencing are not addressed by this standard.

INCITS/ISO 19144-1:2009, Geographic information - Classification systems - Part 1: Classification system structure (identical national adoption of ISO 19144-2:2009)

Stakeholders: ICT industry.

Project Need: To adopt this International Standard, which will be beneficial to the ICT industry.

Establishes the structure of a geographic information classification system, together with the mechanism for defining and registering the classifiers for such a system. This standard specifies the use of discrete coverages to represent the result of applying the classification system to a particular area and defines the technical structure of a register of classifiers in accordance with ISO 19135.

INCITS/ISO 6709:2008/Cor 1:2009, Standard representation of geographic point location by coordinates - Technical Corrigendum 1 (identical national adoption of ISO 6709:2008/Cor 1:2009)

Stakeholders: ICT industry.

Project Need: To adopt this International Standard, which will be beneficial to the ICT industry.

Represents the first Corrigendum to ISO 6709:2008.

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BSR/EIA 836-B-201x, Configuration Management Data Exchange and Interoperability (revision of ANSI/EIA 836-A-2008)

Stakeholders: Commercial, military, and space electronics manufacturers; system integrators; operators.

Project Need: To evaluate and incorporate approved submitted Requests for Change to EIA-836-A and to review and update references used in creation of the standard.

Logically extends the Configuration Management (CM) principles of ANSI/EIA 649. This standard provides for interoperability between trading partners by establishing a common language for the exchange of data between dissimilar databases. The Data Dictionary, which is the normative portion of this standard, identifies standard terms, their definitions, and relationships.

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

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BSR/ULE WK91023-201x, Standard for Sustainability for Suspended Ceiling Materials and Systems (new standard)

Stakeholders: Suspended ceiling related product manufacturers; building product retailers; building owners.

Project Need: To assist manufacturers and consumers in identifying environmentally preferable suspended ceiling materials and systems.

Establishes multiple attribute environmental requirements for suspended ceiling materials and systems. The product environmental criteria in this standard were developed based on the lifecycle stages of the associated products.

# American National Standards Maintained Under Continuous Maintenance

The ANSI Essential Requirements: Due Process Requirements for American National Standards provide 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
- AAMVA
- AGA
- AGRSS, Inc.
- ASC X9
- ASHRAE
- ASME
- ASTM
- GEIA
- HL7
- MHI (ASC MH10)
- NBBPVI
- NCPDP
- NISO
- NSF
- TIA
- Underwriters Laboratories, Inc. (UL)

To obtain additional information with regard to these standards, such as contact information at the ANSI accredited standards developer, please visit ANSI Online at [www.ansi.org](http://www.ansi.org), select Internet Resources, click on "Standards Information," and see "American National Standards Maintained Under Continuous Maintenance". This information is also available directly at [www.ansi.org/publicreview](http://www.ansi.org/publicreview).

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

# ISO and IEC Draft International Standards



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

## Comments

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

## Ordering Instructions

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

## ISO Standards

### **COMPRESSORS, PNEUMATIC TOOLS AND PNEUMATIC MACHINES (TC 118)**

- ISO/DIS 11148-1, Hand-held non-electric power tools - Safety requirements - Part 1: Assembly power tools for non-threaded mechanical fasteners - 1/14/2010, \$88.00
- ISO/DIS 11148-2, Hand-held non-electric power tools - Safety requirements - Part 2: Cutting-off and crimping power tools - 1/14/2010, \$82.00
- ISO/DIS 11148-5, Hand-held non-electric power tools - Safety requirements - Part 5: Rotary percussive drills - 1/14/2010, \$88.00
- ISO/DIS 11148-7, Hand-held non-electric power tools - Safety requirements - Part 7: Grinders - 1/14/2010, \$125.00
- ISO/DIS 11148-8, Hand-held non-electric power tools - Safety requirements - Part 8: Sanders and polishers - 1/14/2010, \$88.00
- ISO/DIS 11148-9, Hand-held non-electric power tools - Safety requirements - Part 9: Die grinders - 1/14/2010, \$88.00
- ISO/DIS 11148-10, Hand-held non-electric power tools - Safety requirements - Part 10: Compression power tools - 1/14/2010, \$93.00
- ISO/DIS 11148-11, Hand-held non-electric power tools - Safety requirements - Part 11: Nibblers and shears - 1/14/2010, \$88.00
- ISO/DIS 11148-12, Hand-held non-electric power tools - Safety requirements - Part 12: Circular, oscillating and reciprocating saws - 1/14/2010, \$98.00

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

- ISO/DIS 13102, Geometrical product specifications (GPS) - Dimensional measuring equipment: Electronic digital indicator - Design and metrological characteristics - 1/14/2010, \$62.00

### **EQUIPMENT FOR FIRE PROTECTION AND FIRE FIGHTING (TC 21)**

- ISO/DIS 7240-6, Fire detection and alarm systems - Part 6: Carbon monoxide fire detectors using electro-chemical cells - 1/18/2010, \$112.00

### **FLOOR COVERINGS (TC 219)**

- ISO/DIS 10575, Resilient floor coverings - Specification for rubber sheet floor coverings with backing - 1/18/2010, \$46.00
- ISO/DIS 10577, Resilient floor coverings - Specification for rubber sheet floor coverings without backing - 1/18/2010, \$46.00

### **INFORMATION AND DOCUMENTATION (TC 46)**

- ISO/DIS 27729, Information and documentation - International Standard Name Identifier (ISNI) - 1/15/2010, \$58.00

### **MACHINE TOOLS (TC 39)**

- ISO/DIS 230-10, Test code for machine tools - Part 10: Determination of measuring performance of probing systems of numerically controlled machine tools - 1/18/2010, \$102.00
- ISO/DIS 230-1, Test code for machine tools - Part 1: Geometric accuracy of machines operating under no-load or quasi-static conditions - 1/14/2010, \$165.00

### **OTHER**

- ISO/DIS 13365, Leather - Chemical tests - Determination of the preservative (TCMTB, CMK, OPP, OIT) content in leather - 1/14/2010, \$40.00

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

- ISO/DIS 12625-1, Tissue paper and tissue products - Part 1: General principles for the use of terms - 1/14/2010, \$71.00

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

- ISO/DIS 12312-1, Eye and face protection - Sunglasses and related eyewear - Part 1: Sunglasses for general use - 1/14/2010, \$82.00

### **TEXTILES (TC 38)**

- ISO/DIS 105-B02, Textiles - Tests for colour fastness - Part B02: Colour fastness to artificial light: Xenon arc fading lamp test - 1/14/2010, \$102.00

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

- ISO/DIS 22867, Forestry and garden machinery - Vibration test code for portable hand-held machines with internal combustion engine - Vibration at the handles - 1/14/2010, \$88.00

## ISO/IEC JTC 1, Information Technology

- ISO/IEC DIS 14297, Information technology - UOML (Unstructured Operation Markup Language) Part 1 Version 1.0 - 2/20/2010, \$107.00

# IEC Standards

- 31/837/FDIS, IEC 60079-20-1 Ed. 1.0: Explosive Atmospheres - Part 20-1: Material characteristics for gas and vapour classification - Test methods and data, 12/18/2009
- 91/897/FDIS, IEC 61191-6 Ed.1: Printed board assemblies - Part 6: Evaluation criteria for voids in soldered joints of BGA and LGA and measurement method, 12/18/2009
- 23E/681/FDIS, IEC 61008-1 Ed 3: Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) - Part 1: General rules, 12/11/2009
- 23E/682/FDIS, IEC 61009-1 Ed 3: Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) - Part 1: General rules, 12/11/2009
- 31/833/FDIS, IEC 60079-15 Ed. 4.0: Explosive atmospheres - Part 15: Equipment protection by type of protection "n", 12/11/2009
- 47D/753A/FDIS, IEC 60191-6-18, Ed.1: Mechanical standardization of semiconductor devices - Part 6-18: General rules for the preparation of outline drawings of surface mounted semiconductor device packagers - Design guide for ball grid array (BGA), 12/04/2009
- 51/970/FDIS, IEC 62333-3 Ed.1: Noise Suppression Sheet for Digital Devices and Equipment - Part 3: Characterization of parameters of noise suppression sheet, 12/11/2009
- 101/291/FDIS, IEC 61340-4-6 Ed.1: Electrostatics - Part 4-6: Standard test methods for specific applications - Wrist straps, 12/11/2009
- 101/292/FDIS, IEC 61340-4-7 Ed.1: Electrostatics - Part 4-7: Standard test methods for specific applications - Ionization, 12/11/2009
- 101/293/FDIS, IEC 61340-4-8 Ed.1: Electrostatics - Part 4-8: Standard test methods for specific applications - Discharge shielding - Bags, 12/11/2009
- 101/294/FDIS, IEC 61340-4-9 Ed.1: Electrostatics - Part 4-9: Standard test methods for specific applications - Garments, 12/11/2009
- 2/1579/FDIS, IEC 60034-1 Ed.12: Rotating electrical machines - Part 1: Rating and performance, 12/04/2009
- 26/404/FDIS, IEC 60974-9 Ed 1: Arc welding equipment - Part 9: installation and use, 12/04/2009
- 34B/1487/FDIS, IEC 60061: Lamp caps and holders together with gauges for the control of interchangeability and safety Part 1: Lamp caps - Amendment 43, 12/04/2009
- 34B/1488/FDIS, IEC 60061: Lamp caps and holders together with gauges for the control of interchangeability and safety Part 2: Lampholders - Amendment 40, 12/04/2009
- 34B/1489/FDIS, IEC 60061: Lamp caps and holders together with gauges for the control of interchangeability and safety Part 3: Gauges - Amendment 41, 12/04/2009
- 46C/903/FDIS, IEC 61156-6 Ed. 3.0: Multicore and symmetrical pair/quad cables for digital communications - Part 6: Symmetrical pair/quad cables with transmission characteristics up to 1 000 MHz - Work area wiring - Sectional specification, 12/04/2009
- 47D/753/FDIS, IEC 60191-6-18, Ed.1: Mechanical standardization of semiconductor devices - Part 6-18: General rules for the preparation of outline drawings of surface mounted semiconductor device packagers - Design guide for ball grid array (BGA), 12/04/2009
- 82/582/FDIS, IEC 60904-10 Ed.2: Photovoltaic devices - Part 10: Methods of linearity measurement, 12/04/2009
- 100/1622/FDIS, IEC 60728-1-1: Cable networks for television signals, sound signals and interactive services - Part 1-1: RF cabling for two way home networks (TA 5), 12/04/2009
- 100/1623/FDIS, IEC 60728-13: Cable networks for television signals, sound signals and interactive services - Part 13: Optical systems for broadcast signal transmissions, 12/04/2009
- 100/1624/FDIS, IEC 62458: Sound system equipment - Electroacoustical transducers - Measurement of large signal parameters, 12/04/2009

# Newly Published ISO and IEC Standards



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

## ISO Standards

### ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

[ISO 21969:2009](#), High-pressure flexible connections for use with medical gas systems, \$80.00

### BANKING AND RELATED FINANCIAL SERVICES (TC 68)

[ISO 15782-1:2009](#), Certificate management for financial services - Part 1: Public key certificates, \$149.00

### BIOLOGICAL EVALUATION OF MEDICAL AND DENTAL MATERIALS AND DEVICES (TC 194)

[ISO 10993-1:2009](#), Biological evaluation of medical devices - Part 1: Evaluation and testing within a risk management process, \$104.00

### EARTH-MOVING MACHINERY (TC 127)

[ISO 7131:2009](#), Earth-moving machinery - Loaders - Terminology and commercial specifications, \$116.00

### FLOOR COVERINGS (TC 219)

[ISO 24011:2009](#), Resilient floor coverings - Specification for plain and decorative linoleum, \$57.00

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

[ISO 15156-1:2009](#), Petroleum and natural gas industries - Materials for use in H<sub>2</sub>S-containing environments in oil and gas production - Part 1: General principles for selection of cracking-resistant materials, \$65.00

[ISO 15156-2:2009](#), Petroleum and natural gas industries - Materials for use in H<sub>2</sub>S-containing environments in oil and gas production - Part 2: Cracking-resistant carbon and low-alloy steels, and the use of cast irons, \$141.00

[ISO 15156-3:2009](#), Petroleum and natural gas industries - Materials for use in H<sub>2</sub>S-containing environments in oil and gas production - Part 3: Cracking-resistant CRAs (corrosion-resistant alloys) and other alloys, \$180.00

### OPTICS AND OPTICAL INSTRUMENTS (TC 172)

[ISO 11980:2009](#), Ophthalmic optics - Contact lenses and contact lens care products - Guidance for clinical investigations, \$116.00

### OTHER

[ISO 27587:2009](#), Leather - Chemical tests - Determination of the free formaldehyde in process auxiliaries, \$49.00

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

[ISO 5631-1:2009](#), Paper and board - Determination of colour by diffuse reflectance - Part 1: Indoor daylight conditions (C/2 degrees), \$65.00

### PLASTICS (TC 61)

[ISO 11357-1:2009](#), Plastics - Differential scanning calorimetry (DSC) - Part 1: General principles, \$122.00

### SHIPS AND MARINE TECHNOLOGY (TC 8)

[ISO/PAS 28005-2:2009](#), Security management systems for the supply chain - Electronic port clearance (EPC) - Part 2: Core data elements, \$180.00

[ISO 10596:2009](#), Ships and marine technology - Marine wind vane and anemometers, \$57.00

### STERILIZATION OF HEALTH CARE PRODUCTS (TC 198)

[ISO 14937:2009](#), Sterilization of health care products - General requirements for characterization of a sterilizing agent and the development, validation and routine control of a sterilization process for medical devices, \$135.00

### WELDING AND ALLIED PROCESSES (TC 44)

[ISO 2560:2009](#), Welding consumables - Covered electrodes for manual metal arc welding of non-alloy and fine grain steels - Classification, \$116.00

## ISO Technical Reports

### CAST IRON AND PIG IRON (TC 25)

[ISO/TR 10809-1:2009](#), Cast irons - Part 1: Materials and properties for design, \$157.00

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

[ISO/TR 21808:2009](#), Guidance on the selection, use, care and maintenance of personal protective equipment (PPE) designed to provide protection for firefighters, \$86.00

### ROAD VEHICLES (TC 22)

[ISO/TR 10603:1992](#), Road vehicles - Legal situation concerning lighting and light-signalling devices, \$65.00

## ISO/IEC JTC 1, Information Technology

[ISO/IEC 10646/Amd6:2009](#), Information technology - Universal Multiple-Octet Coded Character Set (UCS) - Amendment 6: Bamum, Javanese, Lisu, Meetei Mayek, Samaritan, and other characters, \$98.00

[ISO/IEC 11693-2:2009](#), Identification cards - Optical memory cards - Part 2: Co-existence of optical memory with other machine readable technologies, \$49.00

## ISO/IEC JTC 1 Technical Reports

[ISO/IEC TR 20000-3:2009](#), Information technology - Service management - Part 3: Guidance on scope definition and applicability of ISO/IEC 20000-1, \$110.00

# IEC Standards

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

[IEC 60728-7-3 Ed. 2.0 en:2009](#), Cable networks for television signals, sound signals and interactive services - Part 7-3: Hybrid fibre coax outside plant status monitoring - Power supply to transponder interface bus (PSTIB), \$158.00

[IEC 60958-SER Ed. 1.0 b:2009](#), Digital audio interface - ALL PARTS, \$460.00

[IEC 60958-3 Amd.1 Ed. 3.0 en:2009](#), Amendment 1 - Digital audio interface - Part 3: Consumer applications, \$46.00

## AUTOMATIC CONTROLS FOR HOUSEHOLD USE (TC 72)

[IEC 60730-2-17 Ed. 1.0 b:1997](#), Automatic electrical controls for household and similar use - Part 2: Particular requirements for electrically operated gas valves, including mechanical requirements, \$128.00

[IEC 60730-2-19 Ed. 1.0 b:1997](#), Automatic electrical controls for household and similar use - Part 2: Particular requirements for electrically operated oil valves, including mechanical requirements, \$128.00

## CABLES, WIRES, WAVEGUIDES, R.F. CONNECTORS, AND ACCESSORIES FOR COMMUNICATION AND SIGNALLING (TC 46)

[IEC 61156-1 Ed. 3.1 b:2009](#), Multicore and symmetrical pair/quad cables for digital communications - Part 1: Generic specification, \$179.00

[IEC 61156-5-1 Ed. 3.0 en:2009](#), Multicore and symmetrical pair/quad cables for digital communications - Part 5-1: Symmetrical pair/quad cables with transmission characteristics up to 1 000 MHz - Horizontal floor wiring - Blank detail specification, \$51.00

[IEC 61156-6-1 Ed. 3.0 en:2009](#), Multicore and symmetrical pair/quad cables for digital communications - Part 6-1: Symmetrical pair/quad cables with transmission characteristics up to 1 000 MHz - Work area wiring - Blank detail specification, \$51.00

## DEGREES OF PROTECTION BY ENCLOSURES (TC 70)

[IEC 60529 Ed. 2.1 b Cor.3:2009](#), Corrigendum 3 - Degrees of protection provided by enclosures (IP Code), \$0.00

## ELECTRIC CABLES (TC 20)

[IEC 60811-2-1 Ed. 2.0 b:1998](#), Insulating and sheathing materials of electric and optical cables - Common test methods - Part 2-1: Methods specific to elastomeric compounds - Ozone resistance, hot set and mineral oil immersion tests, \$56.00

## ELECTRICAL ACCESSORIES (TC 23)

[IEC 60320-2-4 Amd.1 Ed. 1.0 b:2009](#), Amendment 1 - Appliance couplers for household and similar general purposes - Part 2-4: Couplers dependent on appliance weight for engagement, \$56.00

[IEC 60669-1 Ed. 3.0 b:1998](#), Switches for household and similar fixed-electrical installations - Part 1: General requirements, \$260.00

## ELECTRICAL EQUIPMENT IN MEDICAL PRACTICE (TC 62)

[IEC/TR 62354 Ed. 2.0 en:2009](#), General testing procedures for medical electrical equipment, \$291.00

[IEC 60601-1-4 Ed. 1.0 b:1996](#), Medical electrical equipment - Part 1: General requirements for safety - 4. Collateral standard: Programmable electrical medical systems, \$143.00

[IEC 60601-2-1 Ed. 3.0 b:2009](#), Medical electrical equipment - Part 2-1: Particular requirements for the basic safety and essential performance of electron accelerators in the range 1 MeV to 50 MeV, \$235.00

[IEC 60601-2-33 Ed. 2.0 b:2002](#), Medical electrical equipment - Part 2-33: Particular requirements for the safety of magnetic resonance equipment for medical diagnosis, \$260.00

[IEC 60789 Ed. 3.0 b Cor.1:2009](#), Corrigendum 1 - Medical electrical equipment - Characteristics and test conditions of radionuclide imaging devices - Anger type gamma cameras, \$0.00

## ELECTRICAL MOTOR-OPERATED CLEANING APPLIANCES FOR INDUSTRIAL USE (TC 61J)

[IEC 60335-2-69 Ed. 3.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-69: Particular requirements for wet and dry vacuum cleaners, including power brush, for industrial and commercial use, \$158.00

## EVALUATION AND QUALIFICATION OF ELECTRICAL INSULATING MATERIALS AND SYSTEMS (TC 112)

[IEC 60112 Ed. 4.1 b:2009](#), Method for the determination of the proof and the comparative tracking indices of solid insulating materials, \$133.00

## FIBRE OPTICS (TC 86)

[IEC 61753-086-2 Ed. 1.0 en:2009](#), Fibre optic interconnecting devices and passive components performance standard - Part 086-2: Non-connectorized single-mode bidirectional 1490 / 1550 nm downstream 1310 nm upstream WDM devices for category C - Controlled environment, \$66.00

[IEC 61754-4 Ed. 1.0 b:1997](#), Fibre optic connector interfaces - Part 4: Type SC connector family, \$51.00

[IEC 61754-24 Ed. 1.0 en:2009](#), Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 24: Type SC-RJ connector family, \$128.00

## FUSES (TC 32)

[IEC 60282-1 Ed. 7.0 b:2009](#), High-voltage fuses - Part 1: Current-limiting fuses, \$250.00

## INDUSTRIAL-PROCESS MEASUREMENT AND CONTROL (TC 65)

[IEC 61512-4 Ed. 1.0 b:2009](#), Batch control - Part 4: Batch production records, \$235.00

## INSTRUMENT TRANSFORMERS (TC 38)

[IEC 60044-2 Ed. 1.0 b:1997](#), Instrument transformers - Part 2: Inductive voltage transformers, \$158.00

## INSULATING MATERIALS (TC 15)

[IEC 60893-3-5 Ed. 2.1 b:2009](#), Insulating materials - Industrial rigid laminated sheets based on thermosetting resins for electrical purposes - Part 3-5: Specifications for individual materials - Requirements for rigid laminated sheets based on polyester resins, \$66.00

[IEC 61061-1 Ed. 3.0 b:2006](#), Non-impregnated densified laminated wood for electrical purposes - Part 1: Definitions, designation and general requirements, \$36.00

[IEC 61212-3-3 Ed. 2.0 b:2006](#), Insulating materials - Industrial rigid round laminated tubes and rods based on thermosetting resins for electrical purposes - Part 3: Specifications for individual materials - Sheet 3: Round laminated moulded rods, \$46.00

## LAMPS AND RELATED EQUIPMENT (TC 34)

[IEC 60925 Ed. 1.0 b:1989](#), D.C. supplied electronic ballasts for tubular fluorescent lamps - Performance requirements, \$97.00

[IEC 60968 Ed. 1.0 b:1988](#), Self-ballasted lamps for general lighting services - Safety requirements, \$66.00

[IEC 60969 Ed. 1.0 b:1988](#), Self-ballasted lamps for general lighting services - Performance requirements, \$46.00

[IEC 61347-2-9 Ed. 1.2 b:2009](#), Lamp controlgear - Part 2-9: Particular requirements for ballasts for discharge lamps (excluding fluorescent lamps), \$133.00

#### **LASER EQUIPMENT (TC 76)**

[IEC 60825-2 Ed. 3.0 b:2004](#), Safety of laser products - Part 2: Safety of optical fibre communication systems (OFCS), \$204.00

#### **MAGNETIC COMPONENTS AND FERRITE MATERIALS (TC 51)**

[IEC 60205 Ed. 3.0 b:2006](#), Calculation of the effective parameters of magnetic piece parts, \$128.00

#### **OTHER**

[CISPR 14-2 Ed. 1.0 b:1997](#), Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard, \$77.00

#### **PERFORMANCE OF HOUSEHOLD ELECTRICAL APPLIANCES (TC 59)**

[IEC 60311 Ed. 4.2 en:2009](#), Electric irons for household or similar use - Methods for measuring performance, \$230.00

[IEC 60704-2-3 Ed. 2.0 b:2001](#), Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-3: Particular requirements for dishwashers, \$66.00

#### **POWER ELECTRONICS (TC 22)**

[IEC/TR 60919-3 Ed. 2.0 b:2009](#), Performance of high-voltage direct current (HVDC) systems with line-commutated converters - Part 3: Dynamic conditions, \$179.00

[IEC/TR 62001 Ed. 1.0 en:2009](#), High-voltage direct current (HVDC) systems - Guidebook to the specification and design evaluation of A.C. filters, \$291.00

#### **ROTATING MACHINERY (TC 2)**

[IEC 60034-7 Ed. 2.0 b:1992](#), Rotating electrical machines - Part 7: Classification of types of constructions and mounting arrangements (IM Code), \$107.00

#### **SAFETY OF ELECTRICALLY-OPERATED FARM APPLIANCES (TC 61H)**

[IEC 60335-2-70 Ed. 2.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-70: Particular requirements for milking machines, \$87.00

[IEC 60335-2-71 Ed. 2.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-71: Particular requirements for electrical heating appliances for breeding and rearing animals, \$87.00

[IEC 60335-2-76 Ed. 2.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-76: Particular requirements for electric fence energizers, \$179.00

[IEC 60335-2-86 Ed. 2.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-86: Particular requirements for electric fishing machines, \$97.00

[IEC 60335-2-87 Ed. 2.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-87: Particular requirements for electrical animal-stunning equipment, \$107.00

#### **SAFETY OF HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS (TC 116)**

[IEC 60745-2-1 Ed. 2.0 b:2003](#), Hand-held motor-operated electric tools - Safety - Part 2-1: Particular requirements for drills and impact drills, \$66.00

[IEC 60745-2-2 Ed. 2.0 b:2003](#), Hand-held motor-operated electric tools - Safety - Part 2-2: Particular requirements for screwdrivers and impact wrenches, \$51.00

[IEC 60745-2-4 Ed. 2.0 b:2002](#), Hand-held motor-operated electric tools - Safety - Part 2-4: Particular requirements for sanders and polishers other than disk type, \$46.00

[IEC 60745-2-6 Ed. 2.0 b:2003](#), Hand-held motor-operated electric tools - Safety - Part 2-6: Particular requirements for hammers, \$66.00

[IEC 60745-2-11 Ed. 2.0 b:2003](#), Hand-held motor-operated electric tools - Safety - Part 2-11: Particular requirements for reciprocating saws (jig and sabre saws), \$51.00

[IEC 60745-2-12 Ed. 2.0 b:2003](#), Hand-held motor-operated electric tools - Safety - Part 2-12: Particular requirements for concrete vibrators, \$56.00

[IEC 60745-2-21 Ed. 1.0 b:2002](#), Hand-held motor-operated electric tools - Safety - Part 2-21: Particular requirements for drain cleaners, \$36.00

#### **SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (TC 61)**

[IEC 60335-2-2 Ed. 5.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances, \$107.00

[IEC 60335-2-3 Ed. 5.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons, \$87.00

[IEC 60335-2-5 Ed. 5.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-5: Particular requirements for dishwashers, \$97.00

[IEC 60335-2-6 Ed. 5.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliance, \$158.00

[IEC 60335-2-8 Ed. 5.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-8: Particular requirements for shavers, hair clippers and similar appliances, \$66.00

[IEC 60335-2-10 Ed. 5.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-10: Particular requirements for floor treatment machines and wet scrubbing machines, \$56.00

[IEC 60335-2-12 Ed. 5.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-12: Particular requirements for warming plates and similar appliances, \$61.00

[IEC 60335-2-13 Ed. 5.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances, \$66.00

[IEC 60335-2-15 Ed. 5.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids, \$107.00

[IEC 60335-2-16 Ed. 5.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-16: Particular requirements for food waste disposers, \$61.00

[IEC 60335-2-17 Ed. 2.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-17: Particular requirements for blankets, pads and similar flexible heating appliances, \$204.00

[IEC 60335-2-17 Ed. 2.2 b:2009](#), Household and similar electrical appliances - Safety - Part 2-17: Particular requirements for blankets, pads, clothing and similar flexible heating appliances, \$230.00

[IEC 60335-2-21 Ed. 5.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-21: Particular requirements for storage water heaters, \$107.00

[IEC 60335-2-24 Ed. 6.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice-makers, \$179.00

[IEC 60335-2-26 Ed. 4.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-26: Particular requirements for clocks, \$56.00

- [IEC 60335-2-27 Ed. 4.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-27: Particular requirements for appliances for skin exposure to ultraviolet and infrared radiation, \$97.00
- [IEC 60335-2-28 Ed. 4.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-28: Particular requirements for sewing machines, \$56.00
- [IEC 60335-2-29 Ed. 4.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers, \$77.00
- [IEC 60335-2-30 Ed. 4.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-30: Particular requirements for room heaters, \$128.00
- [IEC 60335-2-31 Ed. 4.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-31: Particular requirements for range hoods, \$61.00
- [IEC 60335-2-32 Ed. 4.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-32: Particular requirements for massage appliances, \$56.00
- [IEC 60335-2-35 Ed. 4.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters, \$107.00
- [IEC 60335-2-36 Ed. 5.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-36: Particular requirements for commercial electric cooking ranges, ovens, hobs and hob elements, \$128.00
- [IEC 60335-2-37 Ed. 5.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-37: Particular requirements for commercial electric deep fat fryers, \$117.00
- [IEC 60335-2-38 Ed. 5.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-38: Particular requirements for commercial electric griddles and griddle grills, \$107.00
- [IEC 60335-2-39 Ed. 5.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-39: Particular requirements for commercial electric multi-purpose cooking pans, \$107.00
- [IEC 60335-2-40 Ed. 4.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers, \$158.00
- [IEC 60335-2-41 Ed. 3.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-41: Particular requirements for pumps, \$77.00
- [IEC 60335-2-43 Ed. 3.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-43: Particular requirements for clothes dryers and towel rails, \$61.00
- [IEC 60335-2-45 Ed. 3.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-45: Particular requirements for portable heating tools and similar appliances, \$97.00
- [IEC 60335-2-48 Ed. 4.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-48: Particular requirements for commercial electric grillers and toasters, \$87.00
- [IEC 60335-2-49 Ed. 4.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-49: Particular requirements for commercial electric hot cupboards, \$97.00
- [IEC 60335-2-51 Ed. 3.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-51: Particular requirements for stationary circulation pumps for heating and service water installations, \$56.00
- [IEC 60335-2-52 Ed. 3.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-52: Particular requirements for oral hygiene appliances, \$56.00
- [IEC 60335-2-53 Ed. 3.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-53: Particular requirements for sauna heating appliances, \$87.00
- [IEC 60335-2-55 Ed. 3.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-55: Particular requirements for electrical appliances for use with aquariums and garden ponds, \$66.00
- [IEC 60335-2-58 Ed. 3.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-58: Particular requirements for commercial electric dishwashing machines, \$143.00
- [IEC 60335-2-59 Ed. 3.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-59: Particular requirements for insect killers, \$77.00
- [IEC 60335-2-60 Ed. 3.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-60: Particular requirements for whirlpool baths, \$66.00
- [IEC 60335-2-61 Ed. 2.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-61: Particular requirements for thermal storage room heaters, \$97.00
- [IEC 60335-2-62 Ed. 3.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-62: Particular requirements for commercial electric rinsing sinks, \$87.00
- [IEC 60335-2-65 Ed. 2.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances, \$56.00
- [IEC 60335-2-73 Ed. 2.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-73: Particular requirements for fixed immersion heaters, \$56.00
- [IEC 60335-2-74 Ed. 2.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-74: Particular requirements for portable immersion heaters, \$56.00
- [IEC 60335-2-75 Ed. 2.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-75: Particular requirements for commercial dispensing appliances and vending machines, \$128.00
- [IEC 60335-2-78 Ed. 2.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-78: Particular requirements for outdoor barbecues, \$61.00
- [IEC 60335-2-80 Ed. 2.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-80: Particular requirements for fans, \$61.00
- [IEC 60335-2-82 Ed. 2.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-82: Particular requirements for amusement machines and personal service machines, \$97.00
- [IEC 60335-2-83 Ed. 1.0 b:2001](#), Household and similar electrical appliances - Safety - Part 2-83: Particular requirements for heated gullies for roof drainage, \$56.00
- [IEC 60335-2-84 Ed. 2.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-84: Particular requirements for toilets, \$97.00
- [IEC 60335-2-85 Ed. 2.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers, \$61.00
- [IEC 60335-2-95 Ed. 2.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use, \$97.00
- [IEC 60335-2-97 Ed. 2.0 b:2002](#), Household and similar electrical appliances - Safety - Part 2-97: Particular requirements for drives for rolling shutters, awnings, blinds and similar equipment, \$87.00
- [IEC 60335-2-98 Ed. 2.0 b:2005](#), Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers, \$61.00
- [IEC 62115 Ed. 1.0 b:2003](#), Electric toys - Safety, \$158.00

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

[IEC 61496-1 Ed. 2.0 b Cor.1:2008](#), Corrigendum 1 - Safety of machinery - Electro-sensitive protective equipment - Part 1: General requirements and tests, \$0.00

**SURFACE MOUNTING TECHNOLOGY (TC 91)**

[IEC 61188-5-4 Ed. 1.0 b:2007](#), Printed boards and printed board assemblies - Design and use - Part 5-4: Attachment (land/joint) considerations - Components with J leads on two sides, \$66.00

[IEC 61188-5-5 Ed. 1.0 b:2007](#), Printed boards and printed board assemblies - Design and use - Part 5-5: Attachment (land/joint) considerations - Components with gull-wing leads on four sides, \$179.00

[IEC 61188-7 Ed. 1.0 b:2009](#), Printed boards and printed board assemblies - Design and use - Part 7: Electronic component zero orientation for CAD library construction, \$97.00

[IEC 61189-1 Ed. 1.0 b:1997](#), Test methods for electrical materials, interconnection structures and assemblies - Part 1: General test methods and methodology, \$97.00

**WINDING WIRES (TC 55)**

[IEC 60317-0-2 Ed. 2.0 b:1997](#), Specifications for particular types of winding wires - Part 0: General requirements - Section 2: Enamelled rectangular copper wire, \$107.00

[IEC 60317-0-4 Ed. 2.0 b:1997](#), Specifications for particular types of winding wires - Part 0: General requirements - Section 4: Glass-fibre wound resin or varnish impregnated, bare or enamelled rectangular copper wire, \$107.00

[IEC 60851-2 Ed. 3.0 b:2009](#), Winding wires - Test methods - Part 2: Determination of dimensions, \$56.00

**IEC Technical Specifications****ELECTROMAGNETIC COMPATIBILITY (TC 77)**

[IEC/TS 61000-3-5 Ed. 2.0 b Cor.1:2009](#), Corrigendum 1 - Electromagnetic compatibility (EMC) - Part 3-5: Limits - Limitation of voltage fluctuations and flicker in low-voltage power supply systems for equipment with rated current greater than 75 A, \$0.00

**INSULATORS (TC 36)**

[IEC/TS 61463 Ed. 1.0 b:1996](#), Bushings - Seismic qualification, \$143.00

# Proposed Foreign Government Regulations

## Call for Comment

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

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

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

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

# Information Concerning

## American National Standards

### INCITS Executive Board

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

The InterNational Committee for Information Technology Standards (INCITS), an ANSI accredited SDO, is the forum for information technology developers, producers and users to create and maintain 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 30+ 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 all membership categories:

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

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

## PINS Correction

### ASA S12.10

The PINS listing for ASA S12.10 in the October 16, 2009 Standards Action was printed in error. A PINS for this project was already listed in a previous edition.

## ANSI Accredited Standards Developers

### Administrative Recreditations

#### Building Hardware Manufacturers Association (BHMA)

The Building Hardware Manufacturers Association (BHMA) has been administratively recredited at the direction of ANSI's Executive Standards Council, under operating procedures revised to bring the document into compliance with the 2009 version of the ANSI Essential Requirements, effective October 20, 2009. For additional information, please contact: Mr. Michael Tierney, Standards Coordinator, Building Hardware Manufacturers Association, 355 Lexington Avenue, 17th Floor, New York, NY 10017-6603; PHONE: (212) 297-2122; FAX: (212) 370-9047; E-mail: [mtierney@kellenccompany.com](mailto:mtierney@kellenccompany.com).

#### Window Covering Manufacturers Association (WCMA)

The Window Covering Manufacturers Association (WCMA) has been administratively recredited at the direction of ANSI's Executive Standards Council, under operating procedures revised to bring the document into compliance with the 2009 version of the ANSI Essential Requirements, effective October 20, 2009. For additional information, please contact: Mr. Michael Tierney, Standards Coordinator, Window Covering Manufacturers Association, 355 Lexington Avenue, 17th Floor, New York, NY 10017-6603; PHONE: (212) 297-2122; FAX: (212) 370-9047; E-mail: [mtierney@kellenccompany.com](mailto:mtierney@kellenccompany.com).

### Recreditations

#### ASTM International

##### Comment Deadline: November 23, 2009

ASTM International, a full ANSI Organizational Member, has submitted revisions to its Regulations Governing ASTM Technical Committees, under which it was last recredited in July 2005. As these revisions appear to be substantive in nature, the recreditation process is initiated.

To obtain a copy of ASTM's revised regulations, or to offer comments, please contact: Mr. Daniel A. Schultz, Director, ASTM International Committee Services, ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428; PHONE: (610) 832-9716; FAX: (610) 834-3609; E-mail: [dschultz@astm.org](mailto:dschultz@astm.org). You may view/download a copy of the revisions during the public review period at the following URL:

<http://publicaa.ansi.org/sites/apdl/Documents/Forms/AllItems.aspx?RootFolder=%2fsites%2fapdl%2fDocuments%2fStandards%20Activities%2fPublic%20Review%20and%20Comment%2fANS%20Accreditation%20Actions&View=%7b21C60355%2dAB17%2d4CD7%2dA090%2dBABEEC5D7C60%7d>. Please submit public comments to ASTM by November 23, 2009, with a copy to the ExSC Recording Secretary in ANSI's New York Office (E-mail: [Jthompo@ANSI.org](mailto:Jthompo@ANSI.org)).

#### National Board of Boiler and Pressure Vessel Inspectors (NBBPVI)

##### Comment Deadline: November 23, 2009

The National Board of Boiler and Pressure Vessel Inspectors (NBBPVI), a full ANSI Organizational Member, has submitted revisions to the operating procedures (National Board Inspection Code Procedure) under which it was last recredited in November 2007. As these revisions appear to be substantive in nature, the recreditation process is initiated.

To obtain a copy of NBBPVI's revised procedures, or to offer comments, please contact: Ms. Robin Hough, NBIC Committee Coordinator, NBBPVI, 1055 Crupper Avenue, Columbus, OH 43229; PHONE: (614) 888-8320, ext. 228; E-mail: [RHough@nationalboard.org](mailto:RHough@nationalboard.org). You may view/download a copy of the revisions during the public review period at the following URL:

<http://publicaa.ansi.org/sites/apdl/Documents/Forms/AllItems.aspx?RootFolder=%2fsites%2fapdl%2fDocuments%2fStandards%20Activities%2fPublic%20Review%20and%20Comment%2fANS%20Accreditation%20Actions&View=%7b21C60355%2dAB17%2d4CD7%2dA090%2dBABEEC5D7C60%7d>. Please submit comments to NBBPVI by November 23, 2009, with a copy to the ExSC Recording Secretary in ANSI's New York Office (E-mail: [Jthompo@ANSI.org](mailto:Jthompo@ANSI.org)).

## ANSI Accreditation Program for Third Party Product Certification Agencies

### Application for Accreditation

Administrative Management Systems, Inc. (AMS)

Comment Deadline: November 23, 2009

#### Administrative Management Systems, Inc. (AMS)

100 West Main  
Sackets Harbor, NY 13685

Administrative Management System has submitted formal application for accreditation by ANSI of the following scopes of this certification body:

#### SCOPES:

1. Certification Program for windows, doors, and skylights; and
2. Certification of Insulating Glass Systems under IGCC Program

Please send your comments by November 23, 2009 to Reinaldo Balbino Figueiredo, Program Director, Product Certifier Accreditation, American National Standards Institute, 1819 L Street, NW, 6th Floor, Washington, DC 20036, FAX: (202) 293-9287, or E-mail: [rfigureir@ansi.org](mailto:rfigureir@ansi.org).

### Initial Accreditation for the Toy Safety Certification Program

BVCPS; Intertek Testing Services Hong Kong, Ltd.; NSF; SGSNA; STR-R

Comment Deadline: November 23, 2009

#### Bureau Veritas Consumer Product Services (BVCPS)

One Distribution Center Circle  
Suite #1  
Littleton, MA 01460

#### Intertek Testing Services Hong Kong, Ltd.

2/F, Garment Centre  
576 Castle Peak Road  
Kowloon, Hong Kong

#### NSF International (NSF)

789 Dixboro Road  
Ann Arbor, MI 48105

#### SGS North America, Inc. (SGSNA)

201 Route 17 North  
Rutherford, NJ 07070

#### STR-Registrar, LLC (STR-R)

639 Main Street  
Stroudsburg, PA 18360

On October 14, 2009, the ANSI Accreditation Committee (ACC) voted to approve initial accreditation for BVCPS, Intertek Testing Services Hong Kong Ltd, NSF, SGSNA, STR-R for the following scope:

#### SCOPE(S):

Toy Safety Certification Program®

Please send your comments by November 23, 2009 to Reinaldo Balbino Figueiredo, Program Director, Product Certifier Accreditation, American National Standards Institute, 1819 L Street, NW, 6th Floor, Washington, DC 20036, FAX: (202) 293-9287, or E-mail: [rfigureir@ansi.org](mailto:rfigureir@ansi.org).

## ANSI Accreditation Program for Greenhouse Gas Verification/Validation Bodies

### Initial Accreditations

KEMA Registered Quality, Inc.

Comment Deadline: November 23, 2009

#### KEMA Registered Quality, Inc.

Mr. Pierre Salle  
4377 County Line Road,  
Chalfont, PA 18914  
PHONE: (215) 997-4519  
E-mail: [pierre.salle@kema.com](mailto:pierre.salle@kema.com)

On October 9, 2009 the ANSI Greenhouse Gas Validation/Verification Accreditation Committee voted to approve initial accreditation for KEMA Registered Quality, Inc. for the following:

#### Standards:

- ISO 14065, Greenhouse gases – Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition
- ISO 14064-3, Greenhouse gases - Specification with guidance for the validation and verification of greenhouse gas assertions

#### Protocol:

The Climate Registry, General Verification Protocol, Version 1.0

#### Scope:

Entity Verification

Please send your comments by November 23, 2009 to Ann Bowles, Program Manager GHG Program, American National Standards Institute, 1819 L Street, NW, 6th Floor, Washington, DC 20036, FAX: (202) 293-9287, or e-mail: [abowles@ansi.org](mailto:abowles@ansi.org).

### Ruby Canyon Engineering, Inc.

Committee Deadline: November 23, 2009

#### Ruby Canyon Engineering, Inc.

Mr. Michael Cote  
743 Horizon Court, Suite 385,  
Grand Junction, CO 85106  
PHONE: (970) 241-9298  
E-mail: [mcote@rubycanyoneng.com](mailto:mcote@rubycanyoneng.com)

On October 9, 2009 the ANSI Greenhouse Gas Validation/Verification Accreditation Committee voted to approve initial accreditation for Ruby Canyon Engineering, Inc. for the following:

#### Standards:

- ISO 14065, Greenhouse gases – Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition
- ISO 14064-3, Greenhouse gases - Specification with guidance for the validation and verification of greenhouse gas assertions

Protocols:

The Climate Registry, General Verification Protocol,  
Version 1.0

Chicago Climate Exchange, Coal Mine Methane

Scopes:

Entity Verification

Project Verification

Please send your comments by November 23, 2009 to Ann Bowles, Program Manager GHG Program, American National Standards Institute, 1819 L Street, NW, 6th Floor, Washington, DC 20036, FAX: (202) 293-9287, or e-mail: [abowles@ansi.org](mailto:abowles@ansi.org).

## BSR/NECA 408-201x Technical Changes

### 5.9 Busways with Plug-In Devices

- f. Orientate busway so that bus plug-in units will have required working space according to Article 110 of the NEC.

### 1.3 Regulatory and Other Requirements

Only qualified persons familiar with the construction and operation of busways should perform the installations described in this publication. The term “qualified person” is defined in Article 100 of the NEC. Administrative functions and tasks such as receiving, handling and storing, required in Section 4 and other tasks can be performed under the supervision of a qualified person.

### 3. Safety Procedures

Before performing cleaning, inspections, testing, maintenance, or repairs, electrically isolate conductors and equipment in accordance with established written procedures. All work and actions must conform to the requirements of NFPA 70E, *Electrical Safety in the Workplace* and applicable Federal and State OSHA Regulations.

The process of de-energizing is considered “live” work and can result in an arc flash due to equipment failure. When de-energizing conductors and equipment follow all safety procedures for working on or near live circuits. Failure to observe these precautions may result in severe personal injury or death. See the applicable warnings and information in Section 3.1 a. through f.

### 3.3 Personal Protective Equipment (PPE)

- a. Use appropriate Personal Protective Equipment (PPE) and established safety procedures when working on or near energized electrical equipment or equipment that has not been de-energized, tested, grounded, locked out of operation, and red tagged in accordance with NFPA 70E. Follow all applicable Federal and State OSHA regulations.

### 5. Installation Procedures

Prior to the release of the busway to the job site, compare the manufacturer's shop drawings with field measurements for accuracy. Install electrical busways in accordance with all manufacturer's installation instructions and within the limitations of the electrical ratings and markings on the equipment.

## BSR/NECA 409-201x Technical Changes

### 1.1 Applications and Products Included

This publication applies to indoor and outdoor, ventilated and non-ventilated, ~~two-winding single-phase and three-phase transformers~~ used for supplying power, heating, and lighting loads for commercial, institutional, and industrial use in non-hazardous locations both indoors and outdoors.

### 1.3 Regulatory and Other Requirements

Only qualified persons familiar with the construction and operation of dry-type transformers should perform the work described in this publication. The term “qualified person” is defined in Article 100 of the NEC. Administrative functions and tasks such as receiving, handling and storing, required in Section 4 and other tasks can be performed under the supervision of a qualified person.

## 3. Safety Procedures

Before performing cleaning, inspections, testing, maintenance, or repairs, electrically isolate all conductors and equipment in accordance with established written procedures. All work and actions must conform to the requirements of NFPA 70E, *Electrical Safety in the Workplace* in addition to all applicable Federal and State OSHA regulations.

The process of de-energizing is considered “live” work and can result in an arc flash due to equipment failure. When de-energizing conductors and equipment, follow safety procedures for working on or near live circuits. Failure to observe these precautions may result in severe personal injury or death. See the applicable warnings and information in Section 3.1 a. through f.

### 3.1 General

- c. Do not work on energized conductors or equipment. Electrically isolate all conductors and equipment in accordance with established procedures and manufacturer’s instructions and recommendations.

### 3.3 Personal Protective Equipment (PPE)

- a. Use appropriate Personal Protective Equipment (PPE) and established safety procedures when working on or near energized electrical equipment or equipment that has not been de-energized, tested, grounded, locked out of operation, and red tagged in accordance with NFPA 70E. Follow all applicable Federal and State OSHA regulations.

### 4.4 Pre-Installation Checks

- a. Compare the manufacturer's shop drawings or wiring diagrams to ensure that the transformer and accessories are connected so that it will perform its intended function. Correct any discrepancies. Compare nameplate ratings and wiring diagram with the manufacturer’s shop drawings.

## 5.1 Environmental Conditions

- g. Install dry-type transformers in accordance with all manufacturer's installation instructions and all electrical ratings marked on the equipment.

## 5.2 Coordination with Other Trades

- f. Where energized work is anticipated for dry-type transformers install transformers to allow ample working space in accordance with NEC minimums.

## 5.4 General Installation Requirements

- e. Arrange rooms and spaces in which transformers are installed with railings, fences, screens, partitions, walls, or other means or barriers to prevent entrance by unauthorized persons.

### 6.4.1 Transformer primary and secondary voltages and phase rotation

- b. Adjust transformer taps, if so equipped, to match actual primary and specified nominal secondary operating voltages, as required. Remove any insulating material from terminals prior to changing taps.

### 6.4.2 Energize equipment supplied from the transformer

- c. Inspect the transformer for unusual or excessive noise. Electrically isolate the transformer in accordance with established procedures and then investigate hardware that has not been tightened or metal parts that are not properly assembled as possible sources of extraneous noise. Verify that the shipping bolts on the vibration sound dampers have been loosened according to the manufacturer's instructions.

## 11.10 Infrared Scan

- a. Verify minimum NEC working space is provided for transformer prior to performing thermograph procedures with the transformer in the energized condition.

## Proposed amendment to ANSI/NEMA OS 1-2008

### 2.11 GROUNDING

2.11.1 A means shall be provided in each metal box for the connection of an equipment grounding conductor. The means shall be permitted to be a No. 10-32 tapped hole ~~(such as a #10-32) or equivalent. If an A No. 8-32~~ tapped hole is permitted when a permanent marking is provided immediately adjacent to the hole. Marking "GR", "GRD", or IEC 60417-1, Symbol 5019a, meets the intent of this marking ~~used it must be identified and marked.~~

2.11.2 The grounding means shall be located so that:

- a) The means is readily accessible through the opening in the face of the box,
- b) The removal of a device mounted in the box does not disturb in any way the continuity of the grounding circuit, and
- c) The means is not part of a removable cover, back, or side.

2.11.3 A grounding screw provided with a box shall:

- a) Be No. 8-32 or larger,
- b) Have a green-colored head,
- c) Be plated steel, stainless steel, copper, or copper alloy. Only a plated or stainless steel grounding screw shall be provided in an aluminum box, and
- d) Have a head or integral washer with a diameter not smaller than 7.8 mm (0.30 in) for a No. 8 screw and not smaller than 9.1 mm (0.36 in) for a No. 10 screw.

2.11.4 When provided with a box, a grounding screw shall also be provided with a means of laterally retaining a 10 AWG (5.267 mm<sup>2</sup>) conductor under the head of the screw. The retention means shall be permitted to be an integral feature of the box.

Raised areas of a box provided as the retention means shall permit securement of a 16 AWG (1.31 mm<sup>2</sup>) conductor.

NOTE: Retention means are intended to ensure that the grounding conductor will not escape from under the head of the ground screw as the ground screw is being tightened.

2.11.4.1 A box having a factory assembled grounding pigtail is not required to have supplemental wire retaining means.

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[Note – the changes are seen below using strikeout for removal of old text and gray highlights to show the suggested text.]

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NSF/ANSI 14 – 2008e

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NSF/ANSI Standard  
for Plastics —

## Plastics piping system components and related materials

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### 5 Physical and performance requirements

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#### Section 5.8 Fittings and valves

Fittings and valves made from copper alloys containing more than 15% zinc by weight ~~intended for use in plastics piping systems~~ shall be resistant to dezincification and stress corrosion cracking (SCC) and meet the following requirements:

##### 5.8.1 Dezincification resistance

###### 5.8.1.1 Sampling

Three test specimens selected at random shall be conditioned to standard laboratory conditions of 73 +/- 3.6°F (23 +/- 2°C) prior to testing.

###### 5.8.1.2 Testing

Test specimens shall be tested according to ISO 6509 “Corrosion of metal and alloys – Determination of dezincification resistance of brass”.

###### 5.8.1.2 Requirements

The maximum depth of dezincification shall not exceed 200 µm. Failure of one of the three specimens tested is cause for retest of three additional specimens. Failure of one specimen in the retest shall constitute failure in the test.

##### 5.8.2 Stress corrosion resistance

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### 5.8.2.1 Sampling

Three test specimens selected at random shall be conditioned to standard laboratory conditions prior to testing.

### 5.8.2.2 Testing

Test specimens shall be tested according to ASTM B858 “Standard Test Method for Ammonia Vapor Test for Determining Susceptibility to Stress Corrosion Cracking in Copper Alloys” or ISO 6957 “Copper alloys – Ammonia test for stress corrosion resistance” in a test solution of pH 9.5.

### 5.8.2.3 Requirements

There shall be no evidence of cracking when viewed with a microscope with a minimum magnification of 10X. Failure of one of the three specimens tested is cause for retest of three additional specimens. Failure of one specimen in the retest shall constitute failure in the test.

Note: The requirements for resistance to dezincification and resistance to stress corrosion cracking are intended to establish a minimum level of performance for products intended for use in potable water systems. These requirements are not a guarantee that erosion or corrosion will not occur.

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**BSR/UL 618 PROPOSAL**

4A.3 The procedure in conducting tests for compressive strength is to be in accordance with Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units, ASTM C140-94a. The compressive strength requirements specified in Table 4A.1 are based on the gross cross sectional area of the unit as laid in a wall when tested not more than 28 days after manufacture.

**BSR/UL 746C PROPOSAL**

34.1 Table 7.1 of UL 746B, the Standard for Polymeric Materials - Long Term Property Evaluations, 34.1 presents a list of materials, that have been assigned a generic thermal index based upon acceptable service experience, the chemical structure of the material, and a knowledge of the performance of the material in tests of insulating systems and electrical equipment. The assigned generic thermal index is applicable to each member of the generic material group.

34.2 Except for materials specified in Table 7.1 of UL 746B 34.1, the generic thermal index of a material is to be considered 50°C (122°F).

34.3 Except for materials specified in Table 7.1 of UL 746B 34.1, the generic thermal index of a material is independent of thickness and pigmentation.

34.4 A polymeric material having a maximum use operating temperature that exceeds the values shown in Table 7.1 of UL 746B 34.1, shall be considered acceptable if it complies with the requirements for Functional-Use Temperature Indices (Section 33), Relative Thermal Indices (Section 35), or Relative Thermal Capability (Section 36).

**Table 34.1 (deleted)****Relative thermal indices based upon past field test performance and chemical structure<sup>a</sup>**

Material	ISO Designation	Generic thermal index, °C
Polyamide (Type 6, 11, 12, 66, 610, or 612 nylon) <sup>b</sup>	(PA)	65
Polycarbonate <sup>b</sup>	(PC)	80
Polyethylene terephthalate— molding resin <sup>b</sup>	(PETP)	75
film (0.25 mm, 0.010 inch)	(PETP)	105
Polybutylene (polytetramethylene) terephthalate <sup>b</sup>	(PBTP)	75
Polyphenylene oxide <sup>j</sup>	(PPE-PS)	65
Polypropylene <sup>b,h</sup>	(PP)	65
Polyetherimide <sup>g</sup>	-	105
Polyphenylene Sulfide	(PPS)	130
Polymide film (0.25 mm, 0.010 inch max)	(PI)	130
Molded phenolic <sup>e</sup>	(PF)	150
Molded melamine <sup>c,d</sup> and molded melamine/phenolic <sup>c,d</sup> — specific gravity <1.55		130
specific gravity □1.55		150
Polytetrafluorethylene	(PTFE)	180
Polychlorotrifluoroethylene	(PCTFE)	150
Fluorinated ethylene propylene	(FEP)	150
Urea-Formaldehyde <sup>e</sup>	(UF)	100
Acrylonitrile-butadiene-styrene <sup>b</sup>	(ABS)	60
Silicone—molding resin <sup>e,d</sup>		150
Silicone rubber— molding resin	(SIR)	150
Room temperature vulcanizing or heat-cured paste	(RTV)	105
Epoxy— molding resin <sup>e,d</sup>	(EP)	130
powder coating materials		105

casting or potting resin <sup>b,i</sup>		90
Molded diallyl phthalate <sup>e,d</sup>		130
Molded unsaturated polyester <sup>e,d</sup>	(UP)	
alkyd (AMC), bulk (BMC), dough (DMC), sheet (SMC), thick (TMC), and pultrusion		
molding compounds	(electrical)	105 <sup>e</sup>
	(mechanical)	130
Liquid crystalline thermotropic aromatic polyester <sup>h</sup>	(LCP)	130
Ligno-cellulose laminate		60
Vulcanized fiber		90
Cold-molded phenolic, melamine or melamine phenolic compounds <sup>d</sup> -		
specific gravity <1.55		130
specific gravity $\geq$ 1.55		150
Cold-molded inorganic (hydraulic cement, etc.) compounds-		200
Integrated mica, resin-bonded- epoxy, alkyd or polyester binder		130
phenolic binder		150
silicone binder		200
<sup>a</sup> -Generic thermal index is for homopolymer resins only unless a specific copolymer or blend is indicated. In the case of alloys, the lowest generic index of any component shall be assigned to the composite.		
<sup>b</sup> -Includes glass fiber reinforcement and/or talc, asbestos, mineral, calcium carbonate, and other inorganic fillers.		
<sup>e</sup> -Includes only compounds molded by high temperature and high pressure processes such as injection, compression, pultrusion, and transfer molding and match metal die molding; excludes compounds molded by open mold or low pressure molding processes such as hand lay up spray up, contact bag, filament winding, rotational molding, and powder coating (fluidized bed, electrostatic spray, hot dip, flow coating).		
<sup>d</sup> -Includes materials having filler systems of fibrous (other than synthetic organic) types but excludes fiber reinforcement systems using resins that are applied in liquid form. Synthetic organic fillers are to be considered acceptable at temperatures not greater than 105°C.		
<sup>e</sup> -Except 130°C generic thermal index if the material retains at least 50% of its unaged dielectric strength after a 504-hour exposure at 180°C in an air circulating oven. Specimens are to be tested in a dry, as molded, condition. Specimens that are removed from the oven are to be cooled over desiccant for at least 2 hours prior to testing.		
<sup>f</sup> -Includes only wholly aromatic liquid crystalline thermotropic polyesters; wholly aromatic polyester/amides and wholly aromatic polyester/ethers; excluding amorphous, lyotropic and liquid crystalline aliphatic aromatic polyesters which are aliphatic in the backbone chain or main chain, and substituted aromatic polyesters (except for methyl or aromatic).		
<sup>g</sup> -Includes only polyetherimide molding resin.		
<sup>h</sup> -Includes polypropylene copolymers containing not more than 25% ethylene comonomer, by weight.		
<sup>i</sup> -Multi-part liquid epoxy materials incorporating acid anhydride or aromatic amine curing agents receive a 130°C generic thermal index.		
<sup>j</sup> -Includes only those polyphenylene oxide materials in which the PPO component is not less than 30% of the total composition by weight and that have a Heat Deflection Temperature of at least 70°C at a load (fiber stress) of 1.80 M Pa (264 psi).		

BSR/UL 1450

PROPOSAL

1.1 These requirements cover household, ~~and commercial, and industrial~~ air compressors, vacuum pumps, inflators (other than indoor use only), paint sprayers, paint mixers, and paint pigment dispensers intended for indoor or outdoor use or both in accordance with the National Electrical Code, ANSI/NFPA 70. These requirements also cover motor-operated air compressors intended for use with sprinkler systems in accordance with the Standard for Installation of Sprinkler Systems, NFPA 13, and the National Electrical Code, ANSI/NFPA 70.

1.5 These requirements do not cover industrial compressors that are primarily supplied to an individual customer specification with regard to pressure, flow, electrical supply, or optional equipment.

BSR/UL 1450

PROPOSAL

13.1.8 An attached flexible cord provided with the product shall comply with one of the following, as applicable:

- a) Stationary equipment shall be provided with an attached flexible cord at least 6 ft (1.8 m) long including the attachment plug.
- b) Movable equipment shall be provided with an attached flexible cord ~~at least~~ 18 in (457 mm) long or less including the attachment plug.
- c) Hand-held, hand-guided, and hand-supported equipment shall be provided with an attached flexible cord ~~at least~~ 18 in (457 mm) long or less including the attachment plug.

13.1.8.1 With reference to 13.1.8, for all product types that are acceptable for use with an 18 in (457 mm) or less flexible cord, an acceptable extension cord shall be provided with the product, or shall be marked in accordance with 63.3.1, or the instructions shall contain statements for the selection of the correct extension cord type in accordance with 66.3.