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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)

\* Standard for consumer products

## Comment Deadline: November 9, 2014

### AWC (American Wood Council)

#### Revision

BSR/AWC PWF-201x, Permanent Wood Foundation Design Specification (revision and redesignation of ANSI/AF&PA PWF-2007)

The basic design and construction requirements for the Permanent Wood Foundation (PWF) system are set forth in this publication. Included are criteria for materials, preservative treatment, soil characteristics, environmental control, design loads, and structural design.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Bradford Douglas, (202) 463-2770, [bdouglas@awc.org](mailto:bdouglas@awc.org)

### BICSI (Building Industry Consulting Service International)

#### Revision

BSR/BICSI 002-201x, Data Center Design and Implementation - Best Practices (revision of ANSI/BICSI 002-2011)

This project is the 3-year revision of ANSI/BICSI 002-2011, addressing changes in the evolution of data center design. This ballot is being issued for approval of the last 4 substantive changes of this revision project.

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Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Jeff Silveira, (813) 903-4712, [jsilveira@bicsi.org](mailto:jsilveira@bicsi.org)

### ISEA (International Safety Equipment Association)

#### Revision

BSR/ISEA Z358.1-201x, Emergency Eyewash and Shower Equipment (revision of ANSI/ISEA Z358.1-2009)

This standard establishes minimum performance requirements for emergency flushing fixtures for the immediate treatment of eyes and the body of a person who has been exposed to injurious or corrosive materials. Specific equipment includes: emergency showers, eyewash equipment, eye/face wash equipment, combination units and supplemental equipment such as personal wash units and drench hoses.

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Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Cristine Fargo, (703) 525-1695, [cfargo@safteyequipment.org](mailto:cfargo@safteyequipment.org)

### NSF (NSF International)

#### Revision

BSR/NSF 6-201x (i10r2), Dispensing Freezers (revision of ANSI/NSF 6-2012)

This Standard contains requirements for the following equipment: dispensing freezers that process and freeze previously pasteurized product (e.g., soft ice cream, ice milk, yogurt, malts, custards) and dispense it directly into the consumer's container; dispensing freezers that dispense premanufactured frozen product (e.g., ice cream) directly into the consumer's container; and batch dispensing freezers. The materials, design, and construction requirements of this Standard may also apply to items that are manufactured as a component of a dispensing freezer.

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Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Allan Rose, (734) 827-3817, [arose@nsf.org](mailto:arose@nsf.org)

### NSF (NSF International)

#### Revision

BSR/NSF 184-201x (i5r1), Residential Dishwashers (revision of ANSI/NSF 184-2010)

Equipment covered by this Standard includes all residential dishwashers. This Standard does not establish equipment installation requirements. While the requirements of this Standard are intended to ensure equipment may be installed in a sanitary manner, proper installation of equipment shall be governed by the applicable codes.

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Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Allan Rose, (734) 827-3817, [arose@nsf.org](mailto:arose@nsf.org)

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

#### Addenda

BSR/RESNET 301-2014, Addenda A-201x, Standard for the Calculation and Labeling of the Energy Performance of Low-Rise Residential Buildings using the HERS Index - Addendum A: Domestic Hot Water (addenda to ANSI/RESNET 301-2014)

The proposed addenda to standard ANSI/RESNET 301-2014 will modify the calculation of domestic hot water heating energy as it affects the Home Energy Rating System Index score of a home.

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

Comments are submitted via RESNET's online comment form. See <http://www.resnet.us/professional/standards/consensus>

### UL (Underwriters Laboratories, Inc.)

#### New Standard

BSR/UL 7001-201x, Sustainability Standard for Household Refrigeration Appliances (Proposal dated May 23, 2014) (new standard)

Changes to the proposal dated May 23, 2014 for the Sustainability Standard for Household Refrigeration Appliances.

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Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Tim Corder, (919) 549-1841, [William.T.Corder@ul.com](mailto:William.T.Corder@ul.com)

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 94-201x, Standard for Safety for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances (revision of ANSI/UL 94-2014)

The following changes to UL 94 are being proposed: (1) Clarify Table 9.1.

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Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Raymond Suga, (631) 546-2593, [raymond.m.suga@ul.com](mailto:raymond.m.suga@ul.com)

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

BSR/UL 125-201X, Standard for Flow Control Valves for Anhydrous Ammonia and LP-Gas (Proposals dated 10/10/14) (revision of ANSI/UL 125-2014a)

(1) Update glossary definition in 6.6 to reflect current NFPA definition; (2) Clarification of the materials used for a lever on a hose nozzle valve, addition of Exception No. 3 to 8.3; (3) Revisions to the Deformation Test to delete the machine oil in 23.2; Delete second External Leakage Test in 23.3; Revision to the Moist Ammonia Air Stress Cracking Test, 34.2, to replace Teflon with PTFE tape.

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Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Linda Phinney, (408) 754-6684, [Linda.L.Phinney@ul.com](mailto:Linda.L.Phinney@ul.com)

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

BSR/UL 583-201X, Standard for Safety for Electric-Battery-Powered Industrial Trucks (revision of ANSI/UL 583-2014)

UL proposes the addition of the 12mm flame test and the removal of Supplement SA.

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

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

BSR/UL 1577-201X, Standard for Safety for Optical Isolators (Proposals dated 10/10/14) (revision of ANSI/UL 1577-2014)

(1) Deletion of upper limit, production dielectric isolation tolerance (5%) boundary, revised 17.2 and deleted 17.3; (2) Deletion of scope paragraph, 1.6; (3) Removal of withdrawn ASTM standard from 13.2.

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Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Linda Phinney, (408) 754-6684, [Linda.L.Phinney@ul.com](mailto:Linda.L.Phinney@ul.com)

**Comment Deadline: November 24, 2014****ABMA (ASC B3) (American Bearing Manufacturers Association)****New National Adoption**

BSR/ABMA/ISO 199-201X, Rolling bearings - Thrust bearings - Geometrical product specification (GPS) and tolerance values (identical national adoption of ISO 199:2014)

This standard specifies dimensional characteristics, limit deviations from nominal values, and tolerance values to define the interface (except chamfers) of thrust rolling bearings.

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Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: James Converse, (919) 481-2852, [jconverse@americanbearings.org](mailto:jconverse@americanbearings.org); [jconverse1@nc.rr.com](mailto:jconverse1@nc.rr.com)

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

BSR/ASME BPVC Section III-201X, Rules for Construction of Nuclear Facility Components (revision of ANSI/ASME BPVC Section III-2013)

The rules of this standard constitute requirements for the design, construction, stamping, and overpressure protection of items used in nuclear power plants and other nuclear facilities. This standard consists of the following divisions: (a) Division 1. Metallic vessels, heat exchangers, storage tanks, piping systems, pumps, valves, core support structures, supports, and similar items; (b) Division 2. Concrete containment vessels; (c) Division 3. Metallic containment systems for storage or transportation of spent nuclear fuel and high-level radioactive materials and waste; (d) Division 4. Components for fusion devices; and (e) Division 5. High-temperature reactors, vessels, storage tanks, piping, pumps, valves, metallic and nonmetallic core supports, and supports for use in nuclear power plants and other nuclear facilities.

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Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Allyson Byk, (212) 591-8521, [byka@asme.org](mailto:byka@asme.org)

**ASTM (ASTM International)****New Standard**

BSR/ASTM WK29881-201x, Practice for Assessing Shock-Attenuation Characteristics of Turfgrass Surface for Thoroughbred Horse Racing (new standard)

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**ASTM (ASTM International)****New Standard**

BSR/ASTM WK33154-201x, Specification for Unsupervised Public Use Outdoor Fitness Equipment (new standard)

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**ASTM (ASTM International)****New Standard**

BSR/ASTM WK35687-201x, Practice for Joint Testing of Installed Thermoplastic Pipe for Gravity Flow (Non-Pressure) Sewer Lines (new standard)

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**ASTM (ASTM International)*****New Standard***

BSR/ASTM WK37414-201x, Test Method for Flammability and Resistance of Eaves, Soffits and Other Horizontal Projections to Fire Penetration (new standard)

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**ASTM (ASTM International)*****New Standard***

BSR/ASTM WK39447-201x, Specification for Metric Outside Diameter Polyethylene (PE) Plastic Pipe (DR-PN) (new standard)

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**ASTM (ASTM International)*****New Standard***

BSR/ASTM WK41069-201x, Practice for Data Recording the Procedure Used to Produce Heat Butt Fusion Joints in Plastic Piping Systems or Fittings (new standard)

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**ASTM (ASTM International)*****New Standard***

BSR/ASTM WK41188-201x, Guide for Assessment of Continued Applicability of Fire Test Reports Used in Building Regulation (new standard)

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**ASTM (ASTM International)*****New Standard***

BSR/ASTM WK45907-201x, Practice for Specimen Preparation and Mounting of Flexible Fibrous Glass Insulation for Metal Buildings to Assess Surface Burning Characteristics (new standard)

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**ASTM (ASTM International)*****Reaffirmation***

BSR/ASTM D2949-2010 (R201x), Specification for 3.25-in. Outside Diameter Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings (reaffirmation of ANSI/ASTM D2949-2010)

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**ASTM (ASTM International)*****Reaffirmation***

BSR/ASTM F420-1999 (R201x), Test Method for Access Depth Under Furniture of Vacuum Cleaners (reaffirmation of ANSI/ASTM F420-1999 (R2009))

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**ASTM (ASTM International)*****Reaffirmation***

BSR/ASTM F610-2010 (R201x), Test Method for Evaluating the Quality of Molded Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings by the Heat Reversion Technique (reaffirmation of ANSI/ASTM F610-2010)

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**ASTM (ASTM International)*****Reaffirmation***

BSR/ASTM F704-1981 (R201x), Practice for Selecting Bolting Lengths for Piping System Flanged Joints (reaffirmation of ANSI/ASTM F704-1981 (R2009))

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**ASTM (ASTM International)*****Reaffirmation***

BSR/ASTM F722-1982 (R201x), Specification for Welded Joints for Shipboard Piping Systems (reaffirmation of ANSI/ASTM F722-82 (R2008))

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**ASTM (ASTM International)****Reaffirmation**

BSR/ASTM F891-2010 (R201x), Specification for Coextruded Poly(Vinyl Chloride) (PVC) Plastic Pipe with a Cellular Core (reaffirmation of ANSI/ASTM F891-2010)

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BSR/ASTM F1006-1997 (R201x), Specification for Entrainment Separators for Use in Marine Piping Applications (reaffirmation of ANSI/ASTM F1006-1997 (R2008))

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BSR/ASTM F1030-1986 (R201x), Practice for Selection of Valve Operators (reaffirmation of ANSI/ASTM F1030-86 (R2008))

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**ASTM (ASTM International)****Reaffirmation**

BSR/ASTM F1075-1997 (R201x), Specification for Dehumidifier, Shipboard, Mechanically Refrigerated, Self-Contained (reaffirmation of ANSI/ASTM F1075-1997 (R2008))

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BSR/ASTM F1882-2006 (R201x), Specification for Residential Basketball Systems (reaffirmation of ANSI/ASTM F1882-2006)

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**ASTM (ASTM International)****Reaffirmation**

BSR/ASTM F2607-2008 (R201x), Test Method for Measuring the Hard Surface Floor-Cleaning Ability of Household/Commercial Vacuum Cleaners (reaffirmation of ANSI/ASTM F2607-2008)

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**ASTM (ASTM International)****Reaffirmation**

BSR/ASTM F2618-2009 (R201x), Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Pipe and Fittings for Chemical Waste Drainage Systems (reaffirmation of ANSI/ASTM F2618-2009)

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**ASTM (ASTM International)****Reaffirmation**

BSR/ASTM F2727-2009 (R201x), Guide for Manufacturers for Labeling Headgear Products (reaffirmation of ANSI/ASTM F2727-2009)

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**ASTM (ASTM International)****Reaffirmation**

BSR/ASTM F2798-2009 (R201x), Specification for Sealless Lube Oil Pump with Oil Through Motor for Marine Applications (reaffirmation of ANSI/ASTM F2798-2009)

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**ASTM (ASTM International)****Revision**

BSR/ASTM D2672-201x, Specification for Joints for IPS PVC Pipe Using Solvent Cement (revision of ANSI/ASTM D2672-1996a (R2009))

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**ASTM (ASTM International)****Revision**

BSR/ASTM D2683-201x, Specification for Socket-Type Polyethylene Fittings for Outside Diameter-Controlled Polyethylene Pipe and Tubing (revision of ANSI/ASTM D2683-2010)

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**ASTM (ASTM International)****Revision**

BSR/ASTM D2846-201x, Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems (revision of ANSI/ASTM D2846-2009a)

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**ASTM (ASTM International)****Revision**

BSR/ASTM E84-201x, Test Method for Surface Burning Characteristics of Building Materials (revision of ANSI/ASTM E84-2014)

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**ASTM (ASTM International)****Revision**

BSR/ASTM E119-201x, Test Methods for Fire Tests of Building Construction and Materials (revision of ANSI/ASTM E119-2012a)

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**ASTM (ASTM International)****Revision**

BSR/ASTM E176-201x, Terminology of Fire Standards (revision of ANSI/ASTM E176-2014)

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**ASTM (ASTM International)****Revision**

BSR/ASTM E800-201x, Guide for Measurement of Gases Present or Generated During Fires (revision of ANSI/ASTM E800-2007)

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**ASTM (ASTM International)****Revision**

BSR/ASTM E1354-201x, Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter (revision of ANSI/ASTM E1354-2014)

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**ASTM (ASTM International)****Revision**

BSR/ASTM E1529-201x, Test Methods for Determining Effects of Large Hydrocarbon Pool Fires on Structural Members and Assemblies (revision of ANSI/ASTM E1529-2013)

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**ASTM (ASTM International)****Revision**

BSR/ASTM E1623-201x, Test Method for Determination of Fire and Thermal Parameters of Materials, Products, and Systems Using an Intermediate Scale Calorimeter (ICAL) (revision of ANSI/ASTM E1623-2011)

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**ASTM (ASTM International)****Revision**

BSR/ASTM E2281-201x, Practice for Process and Measurement Capability Indices (revision of ANSI/ASTM E2281-2008a (R2012))

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**ASTM (ASTM International)****Revision**

BSR/ASTM F412-201x, Terminology Relating to Plastic Piping Systems (revision of ANSI/ASTM F412-2013)

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**ASTM (ASTM International)****Revision**

BSR/ASTM F493-201x, Specification for Solvent Cements for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe and Fittings (revision of ANSI/ASTM F493-2010)

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**ASTM (ASTM International)****Revision**

BSR/ASTM F645-201x, Guide for Selection, Design, and Installation of Thermoplastic Water-Pressure Piping Systems (revision of ANSI/ASTM F645-2013)

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**ASTM (ASTM International)****Revision**

BSR/ASTM F697-201x, Practice for Care and Use of Athletic Mouth Protectors (revision of ANSI/ASTM F697-2000 (R2006))

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**ASTM (ASTM International)****Revision**

BSR/ASTM F758-201x, Specification for Smooth-Wall Poly(Vinyl Chloride) (PVC) Plastic Underdrain Systems for Highway, Airport, and Similar Drainage (revision of ANSI/ASTM F758-1995 (R2006))

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**ASTM (ASTM International)****Revision**

BSR/ASTM F861-201x, Specification for Commercial Dishwashing Racks (revision of ANSI/ASTM F861-2014)

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**ASTM (ASTM International)****Revision**

BSR/ASTM F876-201x, Specification for Crosslinked Polyethylene (PEX) Tubing (revision of ANSI/ASTM F876-2013A)

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**ASTM (ASTM International)****Revision**

BSR/ASTM F1055-201x, Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene and Crosslinked Polyethylene (PEX) Pipe and Tubing (revision of ANSI/ASTM F1055-2013)

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**ASTM (ASTM International)****Revision**

BSR/ASTM F1085-201x, Specification for Mattress and Box Springs for Use in Berths in Marine Vessels (revision of ANSI/ASTM F1085-2010)

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**ASTM (ASTM International)****Revision**

BSR/ASTM F1092-201x, Specification for Fiberglass (GRP) Pultruded Open-Weather Storm and Guard, Square Railing Systems (revision of ANSI/ASTM F1092-2004 (R2010))

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**ASTM (ASTM International)****Revision**

BSR/ASTM F1323-201x, Specification for Shipboard Incinerators (revision of ANSI/ASTM F1323-2008)

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**ASTM (ASTM International)****Revision**

BSR/ASTM F1511-201x, Specification for Mechanical Seals for Shipboard Pump Applications (revision of ANSI/ASTM F1511-2013)

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**ASTM (ASTM International)****Revision**

BSR/ASTM F1720-201x, Test Method for Measuring Thermal Insulation of Sleeping Bags Using a Heated Manikin (revision of ANSI/ASTM F1720-2006 (R2011))

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**ASTM (ASTM International)****Revision**

BSR/ASTM F1807-201x, Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing (revision of ANSI/ASTM F1807-2014)

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BSR/ASTM F1890-201x, Test Method for Measuring Softball Bat Performance Factor (revision of ANSI/ASTM F1890-2011)

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BSR/ASTM F1899-201x, Specification for Food Waste Pulper Without Waterpress Assembly (revision of ANSI/ASTM F1899-2014)

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BSR/ASTM F1936-201x, Specification for Impact Attenuation of Turf Playing Systems as Measured in the Field (revision of ANSI/ASTM F1936-2010)

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**ASTM (ASTM International)****Revision**

BSR/ASTM F1960-201x, Specification for Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-Linked Polyethylene (PEX) Tubing (revision of ANSI/ASTM F1960-2014)

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BSR/ASTM F2220-201x, Specification for Headforms (revision of ANSI/ASTM F2220-2012)

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**ASTM (ASTM International)****Revision**

BSR/ASTM F2306-201x, Specification for 12 to 60 in. [300 to 1500 mm] Annular Corrugated Profile-Wall Polyethylene (PE) Pipe and Fittings for Gravity-Flow Storm Sewer and Subsurface Drainage Applications (revision of ANSI/ASTM F2306-2013)

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**ASTM (ASTM International)****Revision**

BSR/ASTM F2474-201x, Test Method for Heat Gain to Space Performance of Commercial Kitchen Ventilation/Appliance Systems (revision of ANSI/ASTM F2474-2009)

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**ASTM (ASTM International)****Revision**

BSR/ASTM F2769-201x, Specification for Polyethylene of Raised Temperature (PE-RT) Plastic Hot and Cold-Water Tubing and Distribution Systems (revision of ANSI/ASTM F2769-2010)

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**ASTM (ASTM International)****Revision**

BSR/ASTM F2968-201x, Specification for Black Crosslinked Polyethylene (PEX) Pipe, Fittings and Joints for Gas Distribution Applications (revision of ANSI/ASTM F2968/F2968M-2014)

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

BSR/ATIS 0100027-2010 (R201x), Availability - A Guide to Consistent Definitions (reaffirmation of ANSI/ATIS 0100027-2010)

Availability is a key measure in Service Level Agreements (SLAs) between service providers and their customers as well as their vendors and suppliers. Metrics for estimating IP packet layer availability [Y.1540] and service level availability [ATIS 0100025] have received considerable attention in various standards bodies. In order for service providers, vendors or customers of the network to develop an SLA that includes the availability metric, the definition of availability must be agreed upon and a method for estimation developed. This Technical Report (TR) will describe the components of the definition of "Availability" that should be present.

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

BSR/ATIS 0100502-2005 (R201x), System M-NTSC Television Signals - Network Interface Specifications and Performance Parameters (reaffirmation of ANSI/ATIS 0100502-2005 (R2010))

This standard defines network interface specifications and performance parameters and values for television transmission service channel supporting 525-line, system M-NTSC color monochrome video signals and the associated audio signals.

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

BSR/ATIS 0100521-2005 (R201x), Packet Loss Concealment for Use with ITU-T Recommendation G.711 (reaffirmation of ANSI/ATIS 0100521-2005 (R2010))

This standard describes Packet Loss Concealment algorithms for use in packetized speech transmission systems that use ITU-T Recommendation G.711 to code speech signals. These concealment algorithms enable high-quality speech transmission in operating environments where packet losses occur by providing high-quality packet-loss recovery methods.

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

BSR/ATIS 0100801.04-2005 (R201x), Multimedia Communications Delay, Synchronization, and Frame Rate (reaffirmation of ANSI/ATIS 0100801.04-2005 (R2010))

This standard addresses delay and synchronization issues in Multimedia systems that may combine video, audio, and data channels.

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**BICSI (Building Industry Consulting Service International)****New Standard**

BSR/BICSI 006-201x, Distributed Antenna System (DAS) Design and Implementation - Best Practices (new standard)

This standard provides describes requirements standards and acceptable best practices for the design and installation of a distributed antenna system (DAS) for in-building wireless and similar systems.

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Obtain an electronic copy from: [jsilveira@bicsi.org](mailto:jsilveira@bicsi.org)

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**CSA (CSA Group)*****New Standard***

BSR/CSA HGV 3.1-201x, Fuel system components for compressed hydrogen gas powered vehicles (new standard)

This standard contains requirements for newly produced compressed hydrogen gas fuel system components, intended for use on hydrogen-gas-powered vehicles. This standard applies to devices that have a service pressure of either 25 MPa, 35 MPa, 50 MPa, or 70 MPa. Components included in this standard include: check valve, manual valve, manual container valve, automatic valve, gas injector, pressure indicator, pressure regulator, pressure relief valve, pressure relief device, excess flow valve, gas-tight housing and ventilation lines and passages, rigid fuel line, flexible fuel line, filter housing, fittings, and discharge line closures.

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**CSA (CSA Group)*****Reaffirmation***

BSR/IAS NGV 4.1/CSA 12.5-1999 (R201x), NGV Dispensing Systems (reaffirmation of ANSI/IAS NGV 4.1/CSA 12.5-1999 (R2009))

This standard applies to the mechanical and electrical features of newly manufactured systems that dispense natural gas for vehicles (NGV) where such a system is intended primarily to dispense the fuel directly into the fuel storage container of the vehicle, NGV dispensers contained in a single housing, and NGV dispensers contained in multiple housings for metering and registering devices, remote electronics, remote overfill protection, hoses, and nozzles.

Single copy price: Free

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Order from: David Zimmerman, (216) 524-4990, [david.zimmerman@csagroup.org](mailto:david.zimmerman@csagroup.org)

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**CSA (CSA Group)*****Reaffirmation***

BSR/IAS NGV 4.4/CSA 12.54-1999 (R201X), Breakaway Devices for Natural Gas Dispensing Hoses and Systems (reaffirmation of ANSI/IAS NGV 4.4/CSA 12.54-1999 (R2009))

This standard applies to newly produced compressed Natural Gas Vehicle (NGV) dispenser shear valves and fueling hose emergency breakaway shutoff devices, which are intended to minimize the escape of natural gas by automatically shutting off the flow of gas from the dispenser and control the depressurization of the hose, minimize damage to the vehicle and dispenser when a vehicle is driven off with the nozzle attached to the vehicle's fueling receptacle and automatically shut off the flow of gas in the event of a vehicular collision with a fuel dispenser that results in the displacement of the dispenser from its gas supply connection.

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**CSA (CSA Group)*****Reaffirmation***

BSR/IAS NGV 4.6/CSA 12.56-1999 (R201X), Manually Operated Valves for Natural Gas Dispensing Systems (reaffirmation of ANSI/IAS NGV 4.6/CSA 12.56-1999 (R2009))

This standard contains safety requirements for the material, design, manufacture, and testing of manually operated valves for high-pressure natural gas. These requirements do not apply to cylinder shut-off valves.

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

INCITS/ISO/IEC 17629:2014, Information technology - Office equipment - Method for measuring first print out time for digital printing devices (identical national adoption of ISO/IEC 17629:2014)

ISO/IEC 17629:2014 specifies a method for measuring first print out time of digital printing devices. It is applicable to digital printing devices and multifunctional devices. It is intended to be used for black and white (B&W) as well as color digital printing devices and multifunctional devices of any underlying marking technology. It includes instructions for test charts, test setup procedure, test procedure, and the reporting requirements for the digital printing measurements.

Single copy price: \$165.00

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

INCITS/ISO/IEC 19508:2014, Information technology - Object Management Group Meta Object Facility (MOF) Core (identical national adoption of ISO/IEC 19508:2014)

ISO/IEC 19508:2014 provides the basis for metamodel definition in OMG's family of MDA languages and is based on a simplification of UML2's class modeling capabilities. In addition to providing the means for metamodel definition, it adds core capabilities for model management in general, including Identifiers, a simple generic Tag capability, and reflective operations that are defined generically and can be applied regardless of metamodel.

Single copy price: \$224.00

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

### *New National Adoption*

INCITS/ISO/IEC 19509:2014, Information technology - Object Management Group XML Metadata Interchange (XMI) (identical national adoption of ISO/IEC 19509:2014)

ISO/IEC 19509:2014 supports the Meta Object Facility (MOF) Core defined in ISO/IEC 19508. MOF is the foundation technology for describing metamodels. It covers a wide range of domains, and is based on a constrained subset of UML. XMI is widely used XML interchange format. It defines the following aspects involved in describing objects in XML: the representation of objects in terms of XML elements and attributes; the standard mechanisms to link objects within the same file or across files; the validation of XMI documents using XML Schemas; object identity, which allows objects to be referenced from other objects in terms of IDs and UUIDs.

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

### *New National Adoption*

INCITS/ISO/IEC 24734:2014, Information technology - Office equipment - Method for measuring digital printing productivity (identical national adoption of ISO/IEC 24734:2014 and revision of INCITS/ISO/IEC 24734:2009 [2009])

ISO/IEC 24734:2014 specifies a method for measuring the productivity of digital printing devices with various office applications and print job characteristics. It is applicable to digital printing devices, including single-function and multifunction devices, regardless of print technology (e.g., inkjet, laser). Devices can be equipped with a range of paper feed and finishing options either directly connected to the computer system or via a network. It is intended to be used for black and white (B&W) as well as color digital printing devices.

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

### *New Standard*

BSR INCITS 517-201x, Information Technology - SCSI /ATA Translation - 3 (SAT-3) (new standard)

The set of SCSI standards specifies the interfaces, functions, and operations necessary to ensure interoperability between conforming SCSI implementations. This standard is a functional description. Conforming implementations may employ any design technique that does not violate interoperability. This standard defines the protocol requirements of the SCSI/ATA Translation Layer (SATL) to allow conforming SCSI/ATA translating components to interoperate with ATA devices, SCSI transports, and SCSI application layers.

Single copy price: \$60.00

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

## NECA (National Electrical Contractors Association)

### *Revision*

BSR/NECA/IESNA 502-201X, Standard for Installing Industrial Lighting Systems (revision of ANSI/NECA/IESNA 502-1999 (R2006))

This standard describes installation procedures for lighting systems commonly used in industrial and storage buildings, including, but not limited to, the following: (a) High-intensity discharge (HID) low-bay and high-bay lighting systems; (b) Fluorescent trip lights and overhead industrial fluorescent lighting systems; (c) LED overhead high-bay lighting systems; (d) Induction lamp overhead high-bay lighting systems; (e) Common special-purpose and special-environment industrial luminaires; and (f) Lighting installed on industrial wireway and track lighting systems.

Single copy price: \$40.00

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

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

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## NISO (National Information Standards Organization)

### *Revision*

BSR/NISO Z39.93-201x, The Standardized Usage Statistics Harvesting Initiative (SUSHI) Protocol (revision of ANSI/NISO Z39.93-2013)

This standard defines an automated request and response model for the harvesting of electronic resource usage data utilizing a Web services framework that can replace the user-mediated collection of usage data reports. It was designed as a generalized protocol extensible to a variety of usage reports. An extension designed specifically to work with COUNTER reports is provided. This revision extends the filter support to allow multiple optional filters and/or report attributes to be included in the SUSHI request.

Single copy price: \$45.00

Obtain an electronic copy from: <http://www.niso.org/standards/z39.93-201x>

Order from: [nisohq@niso.org](mailto:nisohq@niso.org)

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

## PGMA (Portable Generator Manufacturers Association)

### *New Standard*

BSR/PGMA G300-201x, Safety and Performance of Portable Generators (new standard)

This standard applies to 15 kW or smaller; single-phase; 300 V or lower; 60 hertz; gasoline, liquefied petroleum gas (LPG), and diesel-engine-driven portable generators intended for multiple use, which are provided only with receptacle outlets for the AC output circuits and intended to be moved, though not necessarily with wheels. Permanent stationary generators, 50-hertz generators, marine generators, trailer-mounted generators, generators in motor homes, and generators intended to be pulled by vehicles are not covered.

Single copy price: Free

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

### ***New Standard***

BSR/TAPPI T 650 om-201x, Solids content of black liquor (new standard)

This method is designed to measure gravimetrically the solids content of weak and strong black liquors as they exist, or will exist, at the point of injection into the recovery furnace.

Single copy price: Free

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

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## **TIA (Telecommunications Industry Association)**

### ***Revision***

BSR/TIA 102.AABC-D-201x, Trunking Control Channel Messages (revision and redesignation of ANSI/TIA 102.AABC-C-2009)

This revision to the Trunking Control Channel Messages standard will incorporate several enhancements. It will absorb the existing Conventional Fallback addendum (ANSI/TIA 102.AABC-C-1) and provide additional clarifications to various aspects of wide area operation.

Single copy price: \$304.00

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

### ***Reaffirmation***

BSR/UL 248-4-2005 (R201x), Low-Voltage Fuses - Part 4: Class CC Fuses (reaffirmation of ANSI/UL 248-4-2005 (R2010))

Reaffirmation of ANSI approval for UL 248-4.

Single copy price: Contact [comm2000](mailto:comm2000) for pricing and delivery options

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

### ***Revision***

BSR/UL 82-201X, Standard for Safety for Electric Gardening Appliances (Proposal dated 10-10-14) (revision of ANSI/UL 82-2013)

The proposal is to replace the UL 82 Supplement SA requirements for Battery-Operated Gardening Appliances with the UL 2595 general requirements

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## **Comment Deadline: December 9, 2014**

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

### ***New Standard***

BSR/ISO/ASME 14414-201x, Pumping System Energy Assessment (new standard)

This joint ISO/ASME International standard sets the requirements for conducting and reporting the results of a pumping system assessment (hereafter referenced as "assessment") that considers the entire pumping system, from energy inputs to the work performed as the result of these inputs. The objective of a pumping system energy assessment is to determine the current energy consumption of an existing system and identify ways to improve system efficiency.

These requirements consist of

- organizing and conducting an assessment,
- analyzing the data from the assessment, and
- reporting and documenting assessment findings.

This International standard is designed to be applied, to open- and closed-loop pumping systems typically used at industrial, institutional, commercial, and municipal facilities, when requested.

This International standard is focused on assessing electrically driven pumping systems, that are dominant in most facilities, but is applicable with other types of drivers, such as steam turbines and engines, and drives such as belt.

Single copy price: Free

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

Order from: Mayra Santiago, (212) 591-8521, [ansibox@asme.org](mailto:ansibox@asme.org)

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## **CGA (Compressed Gas Association)**

### ***Revision***

BSR/CGA G-13-201x, Storage and Handling of Silane and Silane Mixtures (revision of ANSI/CGA G-13-2006)

This standard governs the installation of systems and sources that are used to store, transfer, or contain silane or silane mixtures. The scope of this standard includes guidance for siting; design of equipment, piping, and controls; and the fabrication and installation of silane gas storage and closed-use systems. Additional guidance on operational steps associated with the use of silane and silane mixtures as well as fire protection, gas monitoring, ventilation, and related safeguards are provided.

Single copy price: Free

Obtain an electronic copy from: [kmastromichalis@cganet.com](mailto:kmastromichalis@cganet.com)

Order from: Kristy Mastromichalis, (703) 788-2728, [kmastromichalis@cganet.com](mailto:kmastromichalis@cganet.com)

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

BSR/IEEE 802.21c-201x, Standard for Local and metropolitan area networks - Part 21: Media Independent Handover Services - Amendment 3: Optimized Single Radio Handovers (addenda to ANSI/IEEE 802.21-2009)

This amendment defines enhancements to enable optimized single radio handovers between heterogeneous IEEE 802 wireless technologies and extend these mechanisms for single radio handovers between IEEE 802 wireless technologies and cellular technologies. These enhancements are based on media-access-independent mechanisms.

Single copy price: 114.00 (pdf); \$140.00 (print)

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

BSR/IEEE 1188a-201x, Recommended Practice for Maintenance, Testing, and Replacement of Valve-Regulated Lead-Acid (VRLA) Batteries for Stationary Applications - Amendment 1: Updated VRLA Maintenance Considerations (addenda to ANSI/IEEE 1188-2005)

This recommended practice is limited to maintenance, test schedules, and testing procedures that can be used to optimize the life and performance of valve-regulated lead-acid (VRLA) batteries for stationary applications. It also provides guidance to determine when batteries should be replaced.

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

BSR/IEEE 1547a-2014, Standard for Interconnecting Distributed Resources with Electric Power Systems - Amendment 1 (addenda to ANSI/IEEE 1547-2009)

This document provides a uniform standard for interconnection of distributed resources with electric power systems. It provides requirements relevant to the performance, operation, testing, safety considerations, and maintenance of the interconnection.

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

BSR/IEEE 487.3-201x, Standard for the Electrical Protection of Communication Facilities Serving Electric Supply Locations Through the Use of Hybrid Facilities (new standard)

This standard presents engineering design procedures for the electrical protection of telecommunication facilities serving electric supply locations through the use of metallic wire-line components in part of the telecommunication circuit and optical fiber systems in the remainder of the telecommunication circuit. Other telecommunication alternatives such as radio and microwave systems are excluded from this document.

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

BSR/IEEE 575-201x, Guide for Bonding Shields and Sheaths of Single-Conductor Power Cables Rated 5 kV through 500 kV (new standard)

This guide describes the most common special shield/sheath-bonding systems now in use on high-voltage single-conductor shielded power cables and the methods of calculating shield/sheath voltages and currents, particularly as applied to three-phase systems operating at 60 kV and above, with the cable neutral grounded directly or as part of a special bonding system as described in the guide.

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

BSR/IEEE 802.19.1-201x, Standard for Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 19: TV White Space Coexistence Methods (new standard)

The standard specifies radio technology independent methods for coexistence among dissimilar TV Band Devices (TVBDs) and dissimilar or independently operated networks of TVBDs.

Single copy price: 235.00 (pdf); \$402.00 (print)

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

BSR/IEEE 802-201x, Standard for Local and Metropolitan Area Networks: Overview and Architecture (new standard)

This standard contains descriptions of the IEEE 802 standards published by the IEEE for frame-based data networks as well as a reference model (RM) for protocol standards. The IEEE 802 architecture is defined, and a specification for the identification of public, private, and standard protocols is included.

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

BSR/IEEE 1683-201x, Guide for Motor Control Centers Rated up to and including 600 V AC or 1000 V DC with Recommendations Intended to Help Reduce Electrical Hazards (new standard)

This guide applies to single- and three-phase 50- and 60-Hz MCCs rated not more than 600 V AC or 1000 V DC. The recommendations within this guide augment the existing requirements of applicable motor control center standards (NEMA ICS 185 and ANSI/UL 8456/NMX-J-ANCE7/CSA C22.2 No. 2548, collectively referred to as the "base MCC standards"). In addition, this guide provides recommendations for electrical system design to help improve safety of the motor control system.

Single copy price: 67.00 (pdf); \$83.00 (print)

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

BSR/IEEE 1716-201x, Recommended Practice for Managing Natural Disaster Impact on Key Electrical Systems and Installations in Petroleum and Chemical Facilities (new standard)

This document focuses on managing the natural disaster impact on a facility's electrical systems. Guidance advice will be offered from a facility's electric utility interface down through and including utilization systems. If a business already has a plan, this document may be used as a resource to assess and update that plan. It is recommended that this plan be integrated fully within a facility's overall emergency management procedure and company operations.

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

BSR/IEEE 1860-201x, Guide for Voltage Regulation and Reactive Power Compensation at 1000 kV AC and Above (new standard)

This guide identifies basic principles for voltage regulation and reactive power compensation. This guide also provides acceptable voltage deviation limits range, as well as technical measures for voltage and reactive power adjustment and allocation in power systems at 1000 kV AC and above.

Single copy price: 67.00 (pdf); \$83.00 (print)

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

BSR/IEEE 1862-201x, Recommended Practice for Overvoltage and Insulation Coordination of Transmission Systems at 1000 kV AC and Above (new standard)

This recommended practice applies to transmission system at 1000kV AC and above. It defines standard insulation levels and specifies procedures for selecting insulation levels of AC transmission lines and substations. It also specifies reliability criteria under switching and lightning overvoltages. Suggestions on insulation coordination design are described. Overvoltage mitigation measures are recommended according to the characteristics of such AC systems. Some examples of insulation coordination are also presented.

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

BSR/IEEE 2700-201x, Standard for Sensor Performance Parameter Definitions (new standard)

This standard provides a common framework for sensor performance specification terminology, units, conditions, and limits. The specific sensors discussed in this standard are: Accelerometer, Magnetometer, Gyrometer/Gyroscope, Barometer/Pressure Sensors, Hygrometer/Humidity Sensors, Temperature Sensors, Ambient Light Sensors, and Proximity Sensors.

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

BSR/IEEE C95.1-2345-201x, Standard for Military Workplaces - Force Health Protection Regarding Personnel Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz (new standard)

This standard provides recommendations to protect personnel in military environments against established adverse health effects associated with exposure to electric, magnetic, and electromagnetic fields, induced and contact current, and contact and arcing voltages over the frequency range of 0 Hz to 300 GHz.

Single copy price: \$printed: 109.00

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

BSR/IEEE 379-2014, Standard for Application of the Single-Failure Criterion to Nuclear Power Generating Station Safety Systems (revision of ANSI/IEEE 379-2000 (R2008))

This standard covers the application of the single-failure criterion to the electrical power, instrumentation, and control portions of nuclear-power generating station safety systems.

Single copy price: 47.00 (pdf); \$57.00 (print)

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

BSR/IEEE 1205-2014, Guide for Assessing, Monitoring, and Mitigating Aging Effects on Electrical Equipment Used in Nuclear Power Generating Stations and Other Nuclear Facilities (revision of ANSI/IEEE 1205-2000 (R2007))

This document provides guidelines for assessing, monitoring, and mitigating aging effects on electrical equipment used in nuclear-power generating stations and other nuclear facilities.

Single copy price: 114.00 (pdf); \$140.00 (print)

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

BSR/IEEE 1361-2014, Guide for Selecting, Charging, Testing, and Evaluating Lead-Acid Batteries Used in Stand-Alone Photovoltaic (PV) Systems (revision of ANSI/IEEE 1361-2003)

This guide contains a tutorial on lead-acid battery technology, battery charging characteristics, and a laboratory test procedure to evaluate charge parameters and battery performance. The information on lead-acid battery designs and environmental characteristics is provided to help the PV system designer make appropriate battery decisions. Photovoltaic system parameters and operating conditions are discussed. Charging parameters related to PV systems are also suggested to help in the selection of appropriate test set points.

Single copy price: 90.00 (pdf); \$112.00 (print)

Order from: online: <http://standards.ieee.org/store>

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Karen Evangelista, (732) 562-3854, [k.evangelista@ieee.org](mailto:k.evangelista@ieee.org)

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

BSR/IEEE 1671.4-2014, Standard for Automatic Test Markup Language (ATML) Test Configuration (revision of ANSI/IEEE 1671.4-2007)

This standard defines an exchange format, utilizing eXtensible Markup Language (XML), for identifying all of the hardware, software, and documentation that is needed to test and diagnose a unit under test (UUT) on an Automatic Test System (ATS).

Single copy price: 88.00 (pdf); \$109.00 (print)

Order from: online: <http://standards.ieee.org/store>

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

BSR/IEEE 1685-2014, Standard for IP-XACT, Standard Structure for Packaging, Integrating, and Reusing IP within Tool Flows (revision of ANSI/IEEE 1685-2009)

This standard describes an eXtensible Markup Language (XML) schema<sup>1</sup> for metadata documenting intellectual property (IP) used in the development, implementation, and verification of electronic systems. This schema provides both a standard method to document IP that is compatible with automated integration techniques and a standard method (generators) for linking tools into a system development framework, enabling a more flexible, optimized development environment. Tools compliant with this standard will be able to interpret, configure, integrate, and manipulate IP blocks that comply with the IP metadata description.

Single copy price: \$520.00 (print)

Order from: online: <http://standards.ieee.org/store>

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

BSR/IEEE 1888-2014, Standard for Ubiquitous Green Community Control Network Protocol (revision of ANSI/IEEE 1888-2011)

The standard identifies gateways for field-bus networks, data storages for archiving and developing the data-sharing platform, and application units such as for providing user interfaces of analysis and knowing the environmental information to be important system components for developing digital communities: i.e., building-scale and city-wide ubiquitous facility networking infrastructure.

Single copy price: 88.00 (pdf); \$109.00 (print)

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

BSR/IEEE 65700-19-03-2014, International Standard - Bushings for DC application (revision and redesignation of ANSI/IEEE C57.19.03-1996 (R2002))

This International Standard applies to outdoor and indoor bushings of any voltage used on DC systems, of capacitance-graded or gas-insulated types for use as components of oil-filled converter transformers and smoothing reactors, as well as air-to-air DC bushings.

Single copy price: 225.00 (pdf); \$280.00 (print)

Order from: online: <http://standards.ieee.org/store>

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Karen Evangelista, (732) 562-3854, [k.evangelista@ieee.org](mailto:k.evangelista@ieee.org)

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

BSR/IEEE C37.012-2014, Guide for the Application of Capacitance Current Switching for AC High-Voltage Circuit Breakers Above 1000 V (revision of ANSI/IEEE C37.012-2005 (R2011))

This document revises the application guide for capacitance current switching for high-voltage circuit breakers rated in accordance with IEEE C37.04 and listed in IEEE C37.06. It supplements IEEE C37.010. Circuit breakers rated and manufactured to meet other standards should be applied in accordance with application procedures adapted to their specific ratings.

Single copy price: 114.00 (pdf); \$140.00 (print)

Order from: online: <http://standards.ieee.org/store>

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

BSR/IEEE C37.95-201x, Guide for Protective Relaying of Utility-Consumer Interconnections (revision of ANSI/IEEE C37.95-2002 (R2007))

This guide contains information on a number of different protective relaying practices for the utility consumer interconnection. It is intended to cover applications involving service to a consumer that normally requires a transformation between the utility's supply voltage and the consumer's utilization voltage. Interconnections supplied at the utilization voltage are not covered.

Single copy price: 88.00 (pdf); \$109.00 (print)

Order from: online: <http://standards.ieee.org/store>

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

BSR/IEEE C50.13-201x, Standard for Cylindrical-Rotor 50 Hz and 60 Hz Synchronous Generators Rated 10 MVA and Above (revision of ANSI/IEEE C50.13-2005 (R2010))

The requirements in this standard apply to all 50-Hz and 60-Hz, two-pole and four-pole, cylindrical-rotor synchronous generators driven by steam turbines and/or by combustion gas turbines. The drive may be direct or through a gearbox or other device that permits different speeds for the turbine and the generator.

Single copy price: 88.00 (pdf); \$109.00 (print)

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

BSR/IEEE C57.12.28-2014, Standard for Pad-Mounted Equipment - Enclosure Integrity (revision of ANSI/IEEE C57.12.28-2005)

This standard covers conformance tests and requirements for the integrity of above-grade pad-mounted enclosures containing apparatus energized in excess of 600 volts that may be exposed to the public including, but not limited to, the following types of equipment enclosures: (a) Pad-mounted distribution transformers; (b) Pad-mounted capacitors or inductors; (c) Pad-mounted junction enclosures; (d) Pad-mounted metering equipment; (e) Pad-mounted switchgear; and (f) Pad-mounted voltage regulators.

Single copy price: 67.00 (pdf); \$83.00 (print)

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

BSR/IEEE C57.12.29-2014, Standard for Pad-Mounted Equipment - Enclosure Integrity for Coastal Environments (revision of ANSI/IEEE C57.12.29-2005)

This standard covers conformance tests and requirements for the integrity of above-grade pad-mounted enclosures intended for installation in coastal environments containing apparatus energized in excess of 600 V that may be exposed to the public including, but not limited to, the following types of equipment enclosures: (a) Pad-mounted distribution transformers; (b) Pad-mounted capacitors or inductors; (c) Pad-mounted junction enclosures; (d) Pad-mounted metering equipment; (e) Pad-mounted switchgear; and (f) Pad-mounted voltage regulators.

Single copy price: 67.00 (pdf); \$83.00 (print)

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

BSR/IEEE C57.12.44-2014, Standard Requirements for Secondary Network Protectors (revision of ANSI/IEEE C57.12.44-2005)

This standard describes the electrical, dimensional, and mechanical characteristics and takes into consideration the safety features of three-phase, 60-Hz, low-voltage (600 V and below) network protectors. They are used for automatically connecting and disconnecting a network transformer from a secondary spot or grid network.

Single copy price: 88.00 (pdf); \$109.00 (print)

Order from: online: <http://standards.ieee.org/store>

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Karen Evangelista, (732) 562-3854, [k.evangelista@ieee.org](mailto:k.evangelista@ieee.org)

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

BSR/IEEE C57.116-2014, Guide for Transformers Directly Connected to Generators (revision of ANSI/IEEE C57.116-1990 (R2005))

This guide describes selection and application considerations for the unit power transformer and unit auxiliaries power transformer. Consideration is given to connections that include direct connection and connections through generator circuit breakers and load-break switches. The considerations referred to in this guide apply to hydroelectric and thermal electric generating stations.

Single copy price: 67.00 (pdf); \$83.00 (print)

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

BSR/IEEE C62.36-2014, Standard Test Methods for Surge Protectors Used in Low-Voltage Data, Communications, and Signaling Circuits (revision of ANSI/IEEE C62.36-2000 (R2006))

This standard applies to surge protectors for application on multiconductor balanced or unbalanced data, communications, and signaling circuits with voltages equal to or less than 1000 V rms, or 1200 V dc. These surge protectors are designed to limit voltage surges, current surges, or both.

Single copy price: 165.00 (pdf); \$201.00 (print)

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Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Karen Evangelista, (732) 562-3854, [k.evangelista@ieee.org](mailto:k.evangelista@ieee.org)

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

BSR/IEEE C95.7-2014, Recommended Practice for Radio Frequency Safety Programs, 3 kHz to 300 GHz (revision of ANSI/IEEE C95.7-2005)

This recommended practice presents guidelines and procedures that could form the basis of a radio frequency exposure safety program<sup>1</sup> (RFSP) that provides reasonable and adequate guidance for preventing exposures above applicable radio frequency (RF) limits associated with RF sources that operate in the frequency range of 3 kHz to 300 GHz under many circumstances.

Single copy price: \$print: 109.00

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

BSR/IEEE 802.3bj-201x, Standard for Ethernet - Amendment 2: Physical Layer Specifications and Management Parameters for 100 Gb/s Operation Over Backplanes and Copper Cables (supplement to ANSI/IEEE 802.3-2009)

The scope of this project is to specify additions to and appropriate modifications of IEEE Std 802.3 to add 100-Gb/s 4-lane Physical Layer (PHY) specifications and management parameters for operation on backplanes and twin-axial copper cables, and specify optional Energy Efficient Ethernet (EEE) for 40-Gb/s and 100-Gb/s operation over backplanes and copper cables.

Single copy price: 335.00 (pdf); \$402.00 (print)

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

BSR/UL 2592-201X, Standard for Safety for Low Voltage LED Wire (Proposal dated 10/10/14) (new standard)

These requirements cover single-conductor and multi-conductor, unjacketed, 18 - 10 AWG (0.807 - 5.16 mm squared), low-voltage LED wire rated 105°C - 250°C (221°F - 482°F), and 300 or 600 volts, suitable for installation in dry and damp or wet locations. These wires are for use with signs, outline lighting, and interior lighting where the wire is only connected to the output of the driver to the LED array, is only accessible during user servicing of the sign, and is not required to be additionally enclosed by the sign enclosure, in accordance with the Standard for Electrical Signs, UL 48.

Single copy price: Contact comm2000 for pricing and delivery options

Obtain an electronic copy from: [www.comm-2000.com](http://www.comm-2000.com)

Order from: comm2000

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Linda Phinney, (408) 754-6684, [Linda.L.Phinney@ul.com](mailto:Linda.L.Phinney@ul.com)

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

BSR/UL 50-201X, Standard for Safety for Enclosures for Electrical Equipment, Non-Environmental Considerations (revision of ANSI/UL 50-2007 (R2012))

UL proposes a new edition of UL 50.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

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

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

BSR/UL 50E-201X, Standard for Safety for Enclosures for Electrical Equipment, Environmental Considerations (revision of ANSI/UL 50E-2007 (R2012))

UL proposes a new edition of UL 50E.

Single copy price: Contact comm2000 for pricing and delivery options

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

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

**Corrections****Status of ANSI/CEA 109-D-2009**

A recent Standards Action listing dated 9/19/2014 mistakenly announced the withdrawal of ANSI/CEA 109-D-2009. This standard is still active.

**Project Intent for BSR Z80.10-201x**

The project intent for BSR Z80.10-201x, Tonometers, was incorrectly listed as a Revision in the Call for Comment section of the September 26, 2014 Standards Action. BSR Z80.10-201x is an International Adoption as follows: national adoption of ISO 8612:2009 with modifications and revision of ANSI Z80.10-2009.

# 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.

## FM (FM Approvals)

**Office:** 743 Reynolds Road  
West Glocester, RI 02814

**Contact:** Bruce Wood

**Phone:** (401) 567-5721

**E-mail:** bruce.wood@fmapprovals.com

BSR/FM 1035-201x, Nitrogen Generators (new standard)

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

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

**Contact:** Rachel Porter

**Phone:** (202) 626-5741

**Fax:** 202-638-4922

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

BSR INCITS 517-201x, Information Technology - SCSI /ATA Translation - 3 (SAT-3) (new standard)

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

INCITS/ISO/IEC 17629:2014, Information technology - Office equipment - Method for measuring first print out time for digital printing devices (identical national adoption of ISO/IEC 17629:2014)

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

INCITS/ISO/IEC 19508:2014, Information technology - Object Management Group Meta Object Facility (MOF) Core (identical national adoption of ISO/IEC 19508:2014)

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

INCITS/ISO/IEC 19509:2014, Information technology - Object Management Group XML Metadata Interchange (XMI) (identical national adoption of ISO/IEC 19509:2014)

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

INCITS/ISO/IEC 24734:2014, Information technology - Office equipment - Method for measuring digital printing productivity (identical national adoption of ISO/IEC 24734:2014 and revision of INCITS/ISO/IEC 24734:2009 [2009])

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

## NAAMM (National Association of Architectural Metal Manufacturers)

**Office:** 800 Roosevelt Road, Building C  
Glen Ellyn, IL 23505

**Contact:** Vernon (Wes) Lewis

**Phone:** (757) 489-0787

**Fax:** (757) 489-0788

**E-mail:** [wlewis7@cox.net](mailto:wlewis7@cox.net)

BSR/NAAMM HMMA 867-201x, Guide Specifications for Commercial Laminated Core Hollow Metal Doors and Frames (revision of ANSI/NAAMM HMMA 867-2006)

## NASBLA (National Association of State Boating Law Administrators)

**Office:** 1648 McGrathiana Parkway  
Suite 360  
Lexington, KY 40511

**Contact:** Pamela Dillon

**Phone:** (859) 225-9487

**E-mail:** [pam@nasbla.org](mailto:pam@nasbla.org)

BSR/NASBLA-103-201x, Basic Boating Knowledge - Power (new standard)

## NECA (National Electrical Contractors Association)

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

**Contact:** Diana Brioso

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

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

**E-mail:** [diana.brioso@necanet.org](mailto:diana.brioso@necanet.org); [neis@necanet.org](mailto:neis@necanet.org)

BSR/NECA 1-201X (R201x), Standard for Good Workmanship in Electrical Construction (reaffirmation of ANSI/NECA 1-2006 (R2010))

BSR/NECA 416-201X, Recommended Practice for Installing Stored Energy Systems (new standard)

BSR/NECA 504-201X, Recommended Practice for Installing Indoor Lighting Control Devices and Systems (new standard)

BSR/NECA/IESNA 502-201X, Standard for Installing Industrial Lighting Systems (revision of ANSI/NECA/IESNA 502-1999 (R2006))

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

**NISO (National Information Standards Organization)**

**Office:** 3600 Clipper Mill Road  
Suite 302  
Baltimore, MD 21211

**Contact:** *Cynthia Hodgson*

**Phone:** (301) 654-2512

**Fax:** (410) 685-5278

**E-mail:** hodgsonca@verizon.net

BSR/NISO Z39.93-201x, The Standardized Usage Statistics Harvesting Initiative (SUSHI) Protocol (revision of ANSI/NISO Z39.93-2013)

Obtain an electronic copy from: <http://www.niso.org/standards/z39.93-201x>

**PGMA (Portable Generator Manufacturers Association)**

**Office:** 1300 Sumner Avenue  
Cleveland, OH 44115-2851

**Contact:** *Joseph Harding*

**Phone:** (216) 241-7333 X3008

**Fax:** (216) 241-0105

**E-mail:** jharding@thomasamc.com

BSR/PGMA G300-201x, Safety and Performance of Portable Generators (new standard)

Obtain an electronic copy from: [jharding@thomasamc.com](mailto:jharding@thomasamc.com)

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

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

**Contact:** *Charles Bohanan*

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

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

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

BSR/TAPPI T 465 sp-10 (R201x), Static creasing of paper for water vapor transmission tests (reaffirmation of ANSI/TAPPI T 465 sp-2010)

BSR/TAPPI T 1013 om-201x, Loss on ignition of fiber glass mats (revision of ANSI/TAPPI T 1013 om-2010)

**TIA (Telecommunications Industry Association)**

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

**Contact:** *Marianna Kramarikova*

**Phone:** (703) 907-7743

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

BSR/TIA 102.AABC-D-201x, Trunking Control Channel Messages (revision and redesignation of ANSI/TIA 102.AABC-C-2009)

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

# Final Actions on American National Standards

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

## AGMA (American Gear Manufacturers Association)

### New National Adoption

ANSI/AGMA ISO 1328-1-2014, Cylindrical gears - ISO system of flank tolerance classification - Part 1: Definitions and allowable values of deviations relevant to flanks of gear teeth (identical national adoption of ISO 1328-1:2013 and revision of ANSI/AGMA/ISO 1328-1-1999): 9/30/2014

### Reaffirmation

ANSI/AGMA 6002-B93 (R2014), Design Guide for Vehicle Spur and Helical Gears (reaffirmation of ANSI/AGMA 6002-B93 (R2008)): 9/30/2014

## ASCE (American Society of Civil Engineers)

### Supplement

\* ANSI/ASCE/EWRI 56-10/57-10-2014, Guidelines for the Physical Security of Water Utilities (supplement to ANSI/ASCE/EWRI 56-2011): 10/2/2014

## ASME (American Society of Mechanical Engineers)

### Revision

ANSI/ASME B30.9-2014, Slings (revision of ANSI/ASME B30.9-2010): 9/30/2014

## ASTM (ASTM International)

### New Standard

ANSI/ASTM F2793-2014, Specification for Bicycle Grips (new standard): 9/23/2014

ANSI/ASTM F3103-2014, Specification for Testing Off-Road Motorcycle and ATV Helmets (new standard): 9/23/2014

ANSI/ASTM F3104-2014, Test Methods for Evaluating Design and Performance Characteristics of Externally Loaded Strength Training Equipment, Strength Training Benches and External Weight Storage Equipment (new standard): 9/23/2014

ANSI/ASTM F3105-2014, Specification for Externally Loaded Strength Training Equipment, Strength Training Benches and External Weight Storage Equipment (new standard): 9/23/2014

### Reaffirmation

ANSI/ASTM F1752-1996 (R2014), Test Method for Archery Bow Component - Cord Material (reaffirmation of ANSI/ASTM F1752-1996 (R2010)): 9/23/2014

ANSI/ASTM F1753-1996 (R2014), Specification for Classification and Marking of Single-Lens Scopes for Use with Archery Bows (reaffirmation of ANSI/ASTM F1753-1996 (R2010)): 9/23/2014

ANSI/ASTM F1889-2005 (R2014), Guide for Straightness Measurement of Arrow Shafts (reaffirmation of ANSI/ASTM F1889-2005 (R2010)): 9/23/2014

ANSI/ASTM F2031-2005 (R2014), Test Method for Measurement of Arrow Shaft Static Spine (Stiffness) (reaffirmation of ANSI/ASTM F2031-2005 (R2010)): 9/23/2014

ANSI/ASTM F2120-2006 (R2014), Practice for Testing Treestand Load Capacity (reaffirmation of ANSI/ASTM F2120-2006 (R2010)): 9/23/2014

ANSI/ASTM F2275-2010 (R2014), Practice for Treestand Manufacturer Quality Assurance Program (reaffirmation of ANSI/ASTM F2275-2010): 9/23/2014

### Revision

ANSI/ASTM F1776-2014, Specification for Eye Protective Devices for Paintball Sports (revision of ANSI/ASTM F1776-2012): 9/23/2014

ANSI/ASTM F2713-2014, Specification for Eye Protectors for Field Hockey (revision of ANSI/ASTM F2713-2013): 9/23/2014

ANSI/ASTM F2765-2014, Specification for Total Lead Content in Synthetic Turf Fibers (revision of ANSI/ASTM F2765-2009): 9/23/2014

ANSI/ASTM F3021-2014, Specification for Universal Design of Fitness Equipment for Inclusive Use by Persons with Functional Limitations and Impairments (revision of ANSI/ASTM F3021-2013): 9/23/2014

ANSI/ASTM F3022-2014, Test Method for Evaluating the Universal Design of Fitness Equipment for Inclusive Use by Persons with Functional Limitations and Impairments (revision of ANSI/ASTM F3022-2013): 9/23/2014

## AWC (American Wood Council)

### Revision

ANSI/AWC NDS-2015, National Design Specification for Wood Construction (revision and redesignation of ANSI/AWC NDS-2012): 9/30/2014

## ECA (Electronic Components Association)

### New National Adoption

ANSI/EIA 60384-24-2014, Fixed capacitors for use in electronic equipment - Part 24: Sectional specification - Surface mount fixed tantalum electrolytic capacitors with conductive polymer solid electrolyte (identical national adoption of IEC 60384-24 ed. 1.0): 9/30/2014

ANSI/EIA 60384-25-2014, Fixed capacitors for use in electronic equipment - Part 25: Sectional specification - Surface mount fixed aluminium electrolytic capacitors with conductive polymer solid electrolyte (identical national adoption of IEC 60384-25 ed. 1.0): 9/30/2014

ANSI/EIA 60384-25-1-2014, Fixed capacitors for use in electronic equipment - Part 25-1: Blank detail specification - Surface mount fixed aluminum electrolytic capacitors with conductive polymer solid electrolyte - Assessment level EZ (identical national adoption of IEC 60384-25-1 ed. 1.0): 9/30/2014

ANSI/EIA 60384-26-1-2014, Fixed capacitors for use in electronic equipment - Part 26-1: Blank detail specification - Fixed aluminium electrolytic capacitors with conductive polymer solid electrolyte - Assessment level EZ (identical national adoption of IEC 60384-26-1 ed. 1.0): 9/30/2014

## IEEE (Institute of Electrical and Electronics Engineers)

### New Standard

ANSI/IEEE 1653.3-2012, Guide for Rail Transit Traction Power Systems Modeling (new standard): 9/30/2014

ANSI/IEEE 11073-10102-2012, Health informatics - Point-of-care medical device communication - Part 10102: Nomenclature - Annotated ECG (new standard): 9/30/2014

ANSI/IEEE 62582-3-2012, Nuclear Power Plants - Instrumentation and control important to safety - Electrical equipment condition monitoring methods - Part 3: Elongation at break (new standard): 9/30/2014

**NAAMM (National Association of Architectural Metal Manufacturers)**

***New Standard***

ANSI/NAAMM MBG 534-2014, Metal Bar Grating Engineering Design Manual (new standard): 9/30/2014

**NEMA (ASC C12) (National Electrical Manufacturers Association)**

***Revision***

ANSI C12.19-2014, Standard for Utility Industry End Device Data Tables (revision of ANSI C12.19-2008): 10/2/2014

**NEMA (ASC C136) (National Electrical Manufacturers Association)**

***Revision***

ANSI C136.34-2014, Roadway and Area Lighting Equipment - Vandal Shields for Roadway and Area Lighting Luminaires (revision of ANSI C136.34-2004 (R2009)): 9/30/2014

**NSF (NSF International)**

***Revision***

\* ANSI/NSF 49-2014 (i60r1), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2012): 9/30/2014

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

***New Standard***

ANSI/UL 4703-2014, Standard for Safety for Photovoltaic Wire (Proposal dated 5-9-14) (new standard): 9/30/2014

ANSI/UL 4703-2014a, Standard for Safety for Photovoltaic Wire (Proposal dated 5-9-14) (new standard): 9/30/2014

***Revision***

ANSI/UL 123-2014a, Standard for Safety for Oxy-Fuel Gas Torches (revision of ANSI/UL 123-2014): 9/30/2014

ANSI/UL 2127-2014a, Standard for Safety for Inert Gas Clean Agent Extinguishing System Units (revision of ANSI/UL 2127-2014): 9/30/2014

ANSI/UL 2166-2014a, Standard for Safety for Halocarbon Clean Agent Extinguishing System Units (revision of ANSI/UL 2166-2014): 9/30/2014

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

**Contact:** *Colleen Elliott*

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

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

BSR/AAMI/ISO 18250-3-201x, Connectors for reservoir delivery systems for healthcare applications - Part 3: Enteral applications (new standard)

Stakeholders: Manufacturers of connectors for enteral reservoir delivery systems, patients.

Project Need: Risk of misconnections with connectors for other applications.

This part of ISO 18250 specifies dimensions and requirements for the design and functional performance of connectors intended to be used on enteral feed reservoirs.

BSR/AAMI/ISO 18250-8-201x, Connectors for reservoir delivery systems for healthcare applications - Part 8: Citrate-based anticoagulant solution for apheresis applications (new standard)

Stakeholders: Manufacturers of reservoir delivery system connectors for citrate-based anticoagulant solution for apheresis applications, patients.

Project Need: Risk of misconnection with connectors for other applications.

This standard specifies dimensions and basic material characteristics and performance requirements for the interfaces and the locking mechanism for the manufacture of connectors for citrate-based anticoagulant solution for apheresis applications.

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

**Office:** 1001 N Fairfax Street, 5th Floor  
Alexandria, VA 22314-1587

**Contact:** *Amir Aboutaleb*

**E-mail:** [aboutaleb@agma.org](mailto:aboutaleb@agma.org)

BSR/AGMA 6002-C201x, Design Guide for Vehicle Spur and Helical Gears (revision and redesignation of ANSI/AGMA 6002-B93 (R2008))

Stakeholders: Users and manufacturers of spur and helical vehicle gears.

Project Need: Update current standard to reflect current state-of-the-art.

This standard provides information on the design of spur and helical vehicle power transmission gears. Included are considerations for design, material and heat treatment, determination of load capacity, mounting features, and typical design problems.

BSR/AGMA 6102-C201x, Design Guide for Vehicle Spur and Helical Gears (Metric Edition) (new standard)

Stakeholders: Users and manufacturers of spur and helical vehicle gears.

Project Need: To develop a design and rating standard for spur and helical gears used in vehicle industry that reflects current design practices.

This standard provides information on the design of spur and helical vehicle power transmission gears. Included are considerations for design, material and heat treatment, determination of load capacity, mounting features, and typical design problems.

## **ASTM (ASTM International)**

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

**Contact:** *Corice Leonard*

**Fax:** (610) 834-3683

**E-mail:** [accreditation@astm.org](mailto:accreditation@astm.org)

BSR/ASTM WK47354-201x, New Test Method for Determination of Time to Burn-Through Using the Intermediate Scale Calorimeter (ICAL)1 Radiant Panel (new standard)

Stakeholders: Smoke and Combustion Products industry.

Project Need: This fire-test-response standard assesses the response of materials, products, and assemblies to controlled levels of radiant heat exposure with or without an external ignitor.

<http://www.astm.org/DATABASE.CART/WORKITEMS/WK47354.htm>

## **CEA (Consumer Electronics Association)**

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

**Contact:** *Veronica Lancaster*

**Fax:** (703) 907-4197

**E-mail:** [vlancaster@ce.org](mailto:vlancaster@ce.org); [dwilson@ce.org](mailto:dwilson@ce.org)

\* BSR/CEA 109-D-2009 (S201x), Intermediate Frequencies for Entertainment Receivers (stabilized maintenance of ANSI/CEA 109-D-2009)

Stakeholders: Consumers, manufacturers, retailers.

Project Need: Stabilize ANSI/CEA 109-D R-2009.

CEA-109-D specifies Intermediate Frequencies (IFs) to be used in Standard Broadcast (AM), FM, and TV broadcast receivers. In CEA -109-D, the term, Intermediate Frequency (IF), refers to the dominant interference-rejecting and passband-shaping circuits in receiver front-ends.

**FM (FM Approvals)**

**Office:** 743 Reynolds Road  
West Gloucester, RI 02814

**Contact:** Bruce Wood

**E-mail:** bruce.wood@fmapprovals.com

BSR/FM 1035-201x, Nitrogen Generators (new standard)

Stakeholders: Nitrogen generator manufacturers, Standard authorities, industrial and commercial property owners.

Project Need: Nitrogen generator systems are being installed to provide pressurized nitrogen to dry pipe and preaction fire protection systems. The use of nitrogen instead of compressed air minimizes corrosion of the piping and increases system life. However, a comprehensive test standard to establish and test performance characteristics of the nitrogen generators does not exist.

The FM Approvals Standard 1035 contains test requirements for the performance of nitrogen generator systems as well as design requirements to ensure the systems have a reasonable life. It also contains requirements for marking of the systems, allowable maintenance operations, and operational parameters.

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

**Office:** 445 Hoes Lane  
Piscataway, NJ 08854-4141

**Contact:** Lisa Weisser

**E-mail:** l.weisser@ieee.org

BSR/IEEE 802.3bs-201x, Standard for Ethernet Amendment - Media Access Control Parameters, Physical Layers and Management Parameters for 400 Gb/s Operation (new standard)

Stakeholders: Stakeholders identified to date include but are not limited to users and producers of systems and components for internet exchanges, co-location providers, service providers and network operators, cloud-scale data centers, and multiple system operators (MSOs).

Project Need: The project is necessary to provide solutions for aggregation and high-bandwidth interconnect in these key application areas: cloud-scale data centers, internet exchanges, co-location services, wireless infrastructure, service provider and operator networks, and video distribution infrastructure.

This standard defines Ethernet local area, access and metropolitan area networks. Ethernet is specified at selected speeds of operation; and uses a common media access control (MAC) specification and management information base (MIB). The Carrier Sense Multiple Access with Collision Detection (CSMA/CD) MAC protocol specifies shared-medium (half-duplex) operation, as well as full-duplex operation. Speed-specific Media Independent Interfaces (MIIs) provide an architectural and optional implementation interface to selected Physical Layer entities (PHY).

BSR/IEEE 802.11ax-201x, Standard for Information Technology - Telecommunications and Information Exchange between Systems Local and Metropolitan Area Networks - Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications Amendment for Enhancements for High Efficiency WLAN (new standard)

Stakeholders: Manufacturers and users of semiconductors, personal computers, enterprise networking devices, consumer electronic devices, home networking equipment, mobile devices, and cellular operators.

Project Need: Wireless LAN (WLAN) devices are currently being deployed in diverse environments. These environments are characterized by the existence of many access points and non-AP stations in geographically limited areas. Increased interference from neighboring devices gives rise to performance degradation. Additionally WLAN devices are increasingly required to support a variety of applications such as video, cloud access, and offloading. In particular, video traffic is expected to be the dominant type of traffic.

This amendment defines standardized modifications to both the IEEE 802.11 physical layers (PHY) and the IEEE 802.11 Medium Access Control layer (MAC) that enable at least one mode of operation capable of supporting at least four times improvement in the average throughput per station (measured at the MAC data service access point) in a dense deployment scenario, while maintaining or improving the power efficiency per station. This amendment defines operations in frequency bands between 1 GHz and 6 GHz. The new amendment shall enable backward compatibility and coexistence with legacy IEEE 802.11 devices operating in the same band.

BSR/IEEE 802.15.3d-201x, Standard for Information Technology - Local and Metropolitan Area Networks - Specific Requirements - Part 15.3: Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for High Rate Wireless Personal Area Networks (WPAN) Amendment for a 100 Gbps Wireless Switched Point-to-Point Physical Layer (new standard)

Stakeholders: Chip vendors, server vendors, radio frequency (RF) and optical component manufacturers, equipment manufacturers, enterprise infrastructure providers, and wireless operators.

Project Need: In data centers wireless links will make frequent reconfiguration easier and more cost-effective. In the case of backhaul and fronthaul, wireless solutions will reduce costs for the case when installing a fiber network is not cost-effective. In the cases of close-proximity kiosk-downloading and intra-device communication, a minimum data rate achievable with high probability, is required, which should be possible because of the operation in a controlled environment.

This amendment defines a wireless switched point-to-point physical layer to IEEE Std. 802.15.3 operating at a nominal PHY data rate of 100 Gbps with fallbacks to lower data rates as needed. Operation is considered in bands from 60 GHz up to and including optical wireless at ranges as short as a few centimeters and up to several 100m. Additionally, modifications to the Medium Access Control (MAC) layer, needed to support this new physical layer, are defined.

BSR/IEEE 802.15.4r-201x, Standard for Local and Metropolitan Area Networks -Part 15.4: Low-Rate Wireless Personal Area Networks (LR-WPANs) Amendment for Radio Based Distance Measurement Techniques (new standard)

Stakeholders: Communication device manufacturers and users, infrastructure operators, device component and systems suppliers, industrial automation providers, building automation providers, intelligent traffic system providers, large scale monitoring for safety providers.

Project Need: The IEEE 802.15.4 standard addresses many markets where there is a substantial need for both communications and determination of distances between two devices, i.e., ranging.

This standard defines the physical layer (PHY) and medium access control (MAC) sublayer specifications for low data rate (typically less than 10 Mbps) wireless connectivity with fixed, portable, and moving devices with no battery or very limited battery consumption requirements. In addition, the standard provides modes that allow for precision ranging. Physical layers (PHYs) are defined for devices operating various license-free bands in a variety of geographic regions.

BSR/IEEE 1722.1-2013/Cor 1-201x, Standard for Device Discovery, Connection Management, and Control Protocol for IEEE 1722(TM) Based Devices (new standard)

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

Project Need: Users of IEEE 1722.1-2013 have found errors and inconsistencies in the document. These need to be corrected or clarified.

This standard specifies the protocol, device discovery, connection management, and device control procedures used to facilitate interoperability between audio- and video-based End Stations that use IEEE-1722-based Streams on IEEE-802(R)-based networks. Corrigendum will provide corrections and clarifications to the IEEE 1722.1

#### **NAAMM (National Association of Architectural Metal Manufacturers)**

**Office:** 800 Roosevelt Road, Building C  
Glen Ellyn, IL 23505

**Contact:** *Vernon (Wes) Lewis*

**Fax:** (757) 489-0788

**E-mail:** [wlewis7@cox.net](mailto:wlewis7@cox.net)

BSR/NAAMM HMMA 867-201x, Guide Specifications for Commercial Laminated Core Hollow Metal Doors and Frames (revision of ANSI/NAAMM HMMA 867-2006)

Stakeholders: Engineers, architects, government agencies, building owners.

Project Need: This standard provides guidance for the writing of specifications for commercial laminated core hollow metal doors and frames.

This document assists stakeholders in the specifying of laminated core hollow metal doors and frames for commercial applications such as schools, warehouses, industrial buildings or strip stores. This document will be prepared in accordance with the standard CSI format.

#### **NASBLA (National Association of State Boating Law Administrators)**

**Office:** 1648 McGrathiana Parkway  
Suite 360  
Lexington, KY 40511

**Contact:** *Pamela Dillon*

**E-mail:** [pam@nasbla.org](mailto:pam@nasbla.org)

- \* BSR/NASBLA 103-201x, Basic Boating Knowledge - Power (new standard)

Stakeholders: Boating course providers, states and local government, national non-profits, federal agencies, boating public.

Project Need: To establish the national standard for use by course providers to meet the needs of recreational boaters for basic boating knowledge in order to identify and reduce primary risk factors and mitigate their effects on recreational boating.

This is the minimum required standard that applies to all basic power boating courses in the US States and territories and District of Columbia.

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

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

**Contact:** *Diana Brioso*

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

**E-mail:** [diana.brioso@necanet.org](mailto:diana.brioso@necanet.org); [neis@necanet.org](mailto:neis@necanet.org)

- \* BSR/NECA 1-201X (R201x), Standard for Good Workmanship in Electrical Construction (reaffirmation of ANSI/NECA 1-2006 (R2010))

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

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

This standard describes what is meant by installing equipment in a "neat and workmanlike manner" as required by the National Electrical Code, Section 110.12.

- \* BSR/NECA 416-201X, Recommended Practice for Installing Stored Energy Systems (new standard)

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

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

This standard describes installation practices for stored energy systems such as battery systems, flywheels, capacitors, and smart chargers used for vehicle-to-grid (V2G) applications.



\* BSR/NECA 504-201X, Recommended Practice for Installing Indoor Lighting Control Devices and Systems (new standard)

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

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

This standard describes installation practices for indoor lighting control devices, control systems, and related construction materials. It also covers regulatory requirements and considerations, general installation requirements, line-voltage lighting control devices, low-voltage lighting control devices, central lighting control systems, distributed lighting control systems, interconnection to other building systems, and acceptance testing.

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

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

**Contact:** *Charles Bohanan*

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

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

BSR/TAPPI T 465 sp-10 (R201x), Static creasing of paper for water vapor transmission tests (reaffirmation of ANSI/TAPPI T 465 sp-2010)

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

Project Need: To conduct required five-year review of an existing TAPPI/ANSI standard in order to determine if a revision is needed to address new technology or correct errors.

This standard practice is used for the creasing of paper and other thin sheet materials to provide reproducibly creased specimens for testing water vapor transmission. It is not applicable to paperboard.

BSR/TAPPI T 1013 om-201x, Loss on ignition of fiber glass mats (revision of ANSI/TAPPI T 1013 om-2010)

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

Project Need: To revise existing ANSI/TAPPI standard based on comments received on the draft 1 ballot.

This method covers the determination of the percent loss on ignition of fiber glass mats. This ignition loss can be considered to be the binder content.

# American National Standards Maintained Under Continuous Maintenance

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

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

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

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

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

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

# ANSI-Accredited Standards Developers Contact Information

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

## AAMI

Association for the Advancement of  
Medical Instrumentation

4301 N Fairfax Drive  
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Arlington, VA 22203-1633  
Phone: (703) 253-8261  
Fax: (703) 276-0793  
Web: [www.aami.org](http://www.aami.org)

## ABMA (ASC B3)

American Bearing Manufacturers  
Association

2025 M Street, NW  
Suite 800  
Washington, DC 20036-3309  
Phone: (919) 481-2852  
Fax: (919) 827-4587  
Web: [www.americanbearings.org](http://www.americanbearings.org)

## AGMA

American Gear Manufacturers  
Association

1001 N Fairfax Street, 5th Floor  
Alexandria, VA 22314-1587  
Phone: (703) 684-0211  
Web: [www.agma.org](http://www.agma.org)

## ASCE

American Society of Civil Engineers

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

## ASME

American Society of Mechanical  
Engineers

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

## ASTM

ASTM International

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

## ATIS

Alliance for Telecommunications  
Industry Solutions

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

## AWC

American Wood Council

222 Catocoin Circle  
Suite 201  
Leesburg, VA 20175  
Phone: (202) 463-2770  
Fax: (202) 463-2791  
Web: [www.awc.org](http://www.awc.org)

## BICSI

Building Industry Consulting Service  
International

8610 Hidden River Parkway  
Tampa, FL 33637  
Phone: (813) 903-4712  
Fax: (813) 971-4311  
Web: [www.bicsi.org](http://www.bicsi.org)

## CEA

Consumer Electronics Association

1919 South Eads Street  
Arlington, VA 22202  
Phone: (703) 907-7697  
Fax: (703) 907-4197  
Web: [www.ce.org](http://www.ce.org)

## CGA

Compressed Gas Association

14501 George Carter Way  
Suite 103  
Chantilly, VA 20151  
Phone: (703) 788-2728  
Fax: (703) 961-1831  
Web: [www.cganet.com](http://www.cganet.com)

## CSA

CSA Group

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

## ECA

Electronic Components Association

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

## FM

FM Approvals

743 Reynolds Road  
West Glocester, RI 02814  
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## IEEE

Institute of Electrical and Electronics  
Engineers

445 Hoes Lane  
Piscataway, NJ 08854-4141  
Phone: (732) 981-2864  
Web: [www.ieee.org](http://www.ieee.org)

## ISEA

International Safety Equipment  
Association

1901 North Moore Street  
Suite 808  
Arlington, VA 22209  
Phone: (703) 525-1695  
Fax: (703) 525-1698  
Web: [www.safetyequipment.org](http://www.safetyequipment.org)

## ITI (INCITS)

InterNational Committee for  
Information Technology Standards

1101 K Street, NW  
Suite 610  
Washington, DC 20005-3922  
Phone: (202) 626-5743  
Fax: (202) 638-4922  
Web: [www.incits.org](http://www.incits.org)

## NAAMM

National Association of Architectural  
Metal Manufacturers

800 Roosevelt Road, Building C  
Glen Ellyn, IL 23505  
Phone: (757) 489-0787  
Fax: (757) 489-0788  
Web: [www.naamm.org](http://www.naamm.org)

## NASBLA

National Association of State Boating  
Law Administrators

1648 McGrathiana Parkway  
Suite 360  
Lexington, KY 40511  
Phone: (859) 225-9487  
Web: [www.nasbla.org](http://www.nasbla.org)

## NECA

National Electrical Contractors  
Association

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

## NEMA (ASC C12)

National Electrical Manufacturers  
Association

1300 North 17th Street  
Suite 900  
Rosslyn, VA 22209  
Phone: (703) 841-3227  
Fax: (703) 841-3327  
Web: [www.nema.org](http://www.nema.org)

## NEMA (Canvass)

National Electrical Manufacturers  
Association

1300 North 17th Street  
Suite 1752  
Rosslyn, VA 22209  
Phone: (703) 841-3285  
Fax: (703) 841-3385  
Web: [www.nema.org](http://www.nema.org)

## NISO

National Information Standards  
Organization

3600 Clipper Mill Road  
Suite 302  
Baltimore, MD 21211  
Phone: (301) 654-2512  
Fax: (410) 685-5278  
Web: [www.niso.org](http://www.niso.org)

## NSF

NSF International

789 N. Dixboro Road  
Ann Arbor, MI 48105-9723  
Phone: (734) 827-3817  
Fax: (734) 827-7875  
Web: [www.nsf.org](http://www.nsf.org)

## PGMA

Portable Generator Manufacturers  
Association

1300 Sumner Avenue  
Cleveland, OH 44115-2851  
Phone: (216) 241-7333 X3008  
Fax: (216) 241-0105  
Web: [www.pgmaonline.com](http://www.pgmaonline.com)

## RESNET

Residential Energy Services Network,  
Inc.

2170 S. El Camino Real  
Suite 206  
Oceanside, CA 92054  
Phone: (760) 408-5860  
Fax: (760) 806-9449  
Web: [www.resnet.us.com](http://www.resnet.us.com)

## TAPPI

Technical Association of the Pulp and  
Paper Industry

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

## TIA

Telecommunications Industry  
Association

1320 North Courthouse Road  
Suite 200  
Arlington, VA 22201  
Phone: (703) 907-7743  
Web: [www.tiaonline.org](http://www.tiaonline.org)

## UL

Underwriters Laboratories, Inc.

455 E Trimble Road  
San Jose, CA 95131-1230  
Phone: (408) 754-6684  
Fax: (408) 754-6684  
Web: [www.ul.com](http://www.ul.com)



# Newly Published ISO & IEC Standards

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

## ISO Standards

### ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

[ISO 5359:2014](#), Anaesthetic and respiratory equipment - Low-pressure hose assemblies for use with medical gases, \$139.00

### CERAMIC TILE (TC 189)

[ISO 10545-1:2014](#), Ceramic tiles - Part 1: Sampling and basis for acceptance, \$77.00

### CINEMATOGRAPHY (TC 36)

[ISO 71:2014](#), Cinematography - 16 mm negative photographic sound record on 16 mm, 35/16 mm and 35/32 mm motion-picture film - Positions and dimensions, \$58.00

[ISO 7832:2014](#), Cinematography - Photoelectric output factor of photographic-type audio-level test films - Measurement and calibration, \$77.00

### COSMETICS (TC 217)

[ISO 17516:2014](#), Cosmetics - Microbiology - Microbiological limits, \$66.00

### FASTENERS (TC 2)

[ISO 10664:2014](#), Hexalobular internal driving feature for bolts and screws, \$77.00

[ISO 1891-2:2014](#), Fasteners - Terminology - Part 2: Vocabulary and definitions for coatings, \$211.00

### FLUID POWER SYSTEMS (TC 131)

[ISO 6358-3:2014](#), Pneumatic fluid power - Determination of flow-rate characteristics of components using compressible fluids - Part 3: Method for calculating steady-state flow-rate characteristics of systems, \$211.00

### GRAPHICAL SYMBOLS (TC 145)

[ISO 9186-3:2014](#), Graphical symbols - Test methods - Part 3: Method for testing symbol referent association, \$108.00

### HOROLOGY (TC 114)

[ISO 10552:2014](#), Timekeeping instruments - Crowns and sealed tubes - Designs and dimensions, \$88.00

### INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)

[ISO 22400-1:2014](#), Automation systems and integration - Key performance indicators (KPIs) for manufacturing operations management - Part 1: Overview, concepts and terminology, \$132.00

### INDUSTRIAL TRUCKS (TC 110)

[ISO 22915-9:2014](#), Industrial trucks - Verification of stability - Part 9: Counterbalanced trucks with mast handling freight containers of 6 m (20 ft) length and longer, \$77.00

### MECHANICAL TESTING OF METALS (TC 164)

[ISO 16842:2014](#), Metallic materials - Sheet and strip - Biaxial tensile testing method using a cruciform test piece, \$149.00

### NATURAL GAS (TC 193)

[ISO 16960:2014](#), Natural gas - Determination of sulfur compounds - Determination of total sulfur by oxidative microcoulometry method, \$77.00

### OPTICS AND OPTICAL INSTRUMENTS (TC 172)

[ISO 14730:2014](#), Ophthalmic optics - Contact lens care products - Antimicrobial preservative efficacy testing and guidance on determining discard date, \$139.00

### PETROLEUM PRODUCTS AND LUBRICANTS (TC 28)

[ISO 17315:2014](#), Petroleum products and other liquids - Ethanol - Determination of total acidity by potentiometric titration, \$77.00

### SAFETY OF TOYS (TC 181)

[ISO 8124-4:2014](#), Safety of toys - Part 4: Swings, slides and similar activity toys for indoor and outdoor family domestic use, \$224.00

### SHIPS AND MARINE TECHNOLOGY (TC 8)

[ISO 18289:2014](#), Ships and marine technology - Navigation and shallow-water engineering vessels - Anchor winches, \$88.00

### SMALL TOOLS (TC 29)

[ISO 6103:2014](#), Bonded abrasive products - Permissible unbalances of grinding wheels as delivered - Static testing, \$77.00

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

[ISO 7176-1:2014](#), Wheelchairs - Part 1: Determination of static stability, \$156.00

### TERMINOLOGY (PRINCIPLES AND COORDINATION) (TC 37)

[ISO 24156-1:2014](#), Graphic notations for concept modelling in terminology work and its relationship with UML - Part 1: Guidelines for using UML notation in terminology work, \$149.00

### TIMBER (TC 218)

[ISO 13061-1:2014](#), Physical and mechanical properties of wood - Test methods for small clear wood specimens - Part 1: Determination of moisture content for physical and mechanical tests, \$58.00

[ISO 13061-2:2014](#), Physical and mechanical properties of wood - Test methods for small clear wood specimens - Part 2: Determination of density for physical and mechanical tests, \$66.00

## ISO Technical Specifications

### OPTICS AND OPTICAL INSTRUMENTS (TC 172)

[ISO/TS 19979:2014](#), Ophthalmic optics - Contact lenses - Hygienic management of multipatient use trial contact lenses, \$77.00

## ISO/IEC JTC 1, Information Technology

[ISO/IEC 8824-3/Cor1:2014](#), Information technology - Abstract Syntax Notation One (ASN.1): Constraint specification - Corrigendum, FREE

[ISO/IEC 10373-5:2014](#), Identification cards - Test methods - Part 5: Optical memory cards, \$108.00

## IEC Standards

### IEC Technical Reports

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

[IEC/TR 61156-1-2 Amd.1 Ed. 1.0 en:2014](#), Amendment 1 - Multicore and symmetrical pair/quad cables for digital communications - Part 1 -2: Electrical transmission characteristics and test methods of symmetrical pair/quad cables, \$206.00

[IEC/TR 61156-1-2 Ed. 1.1 en:2014](#), Multicore and symmetrical pair/quad cables for digital communications - Part 1-2: Electrical transmission characteristics and test methods of symmetrical pair/quad cables, \$605.00

# 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

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## American National Standards

### INCITS Executive Board

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

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

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

The INCITS Executive Board has eleven membership categories that can be viewed at <http://www.incits.org/participation/membership-info>. Membership in all categories is always welcome. INCITS also seeks to broaden its membership base and looks to recruit new participants in the following under-represented membership categories:

- **Producer – Hardware**

This category primarily produces hardware products for the ITC marketplace.

- **Producer – Software**

This category primarily produces software products for the ITC marketplace.

- **Distributor**

This category is for distributors, resellers or retailers of conformant products in the ITC industry.

- **User**

This category includes entities that primarily rely on standards in the use of a products/service, as opposed to producing or distributing conformant products/services.

- **Consultants**

This category is for organizations whose principal activity is in providing consulting services to other organizations.

- **Standards Development Organizations and Consortia**

- o "Minor" an SDO or Consortia that (a) holds no TAG assignments; or (b) holds no SC TAG assignments, but does hold one or more Work Group (WG) or other subsidiary TAG assignments.

- **Academic Institution**

This category is for organizations that include educational institutions, higher education schools or research programs.

- **Other**

This category includes all organizations who do not meet the criteria defined in one of the other interest categories.

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

### Calls for Members

#### Society of Cable Telecommunications

##### ANSI Accredited Standards Developer

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

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

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

## ANSI Accredited Standards Developers

### Approval of Accreditation as an ANSI ASD

#### Islamic Society of North America (ISNA)

ANSI's Executive Standards Council has approved the Islamic Society of North America (ISNA), a new ANSI Organizational Member in 2014, as an ANSI Accredited Standards Developer (ASD) under its proposed operating procedures for documenting consensus on ISNA-sponsored American National Standards, effective October 7, 2014. For additional information, please contact: Mr. Ahmed ElHattab, Executive Director, ISNA Development Foundation, Islamic Society of North America, 6555 South County Road, 750 East, Plainfield, IN 46168; phone: 317.839.8157; e-mail: [aelhattab@isna.net](mailto:aelhattab@isna.net).

### Approvals of Reaccreditations

#### Art & Creative Materials Institute (ACMI)

At the direction of ANSI's Executive Standards Council (ExSC), the reaccreditation of the Art & Creative Materials Institute (ACMI) has been approved under its recently revised operating procedures for documenting consensus on ACMI-sponsored American National Standards, effective October 3, 2014. For additional information, please contact: Mr. David H. Baker, Executive Director, The Art & Creative Materials Institute, 90 Derby Street, Suite 200, Hingham, MA 02043; phone: 781.556.1044; e-mail: [david.baker@dhbakerlaw.com](mailto:david.baker@dhbakerlaw.com).

## ASTM International

At the direction of ANSI's Executive Standards Council (ExSC), the reaccreditation of ASTM International has been approved under its recently revised Regulations Governing ASTM Technical Committees (and including the ASTM International Supplemental Procedures for ASTM Standards Recognized by ANSI as American National Standards) for documenting consensus on ASTM-sponsored American National Standards, effective October 3, 2014. For additional information, please contact: Ms. Jennifer L. Rodgers, Manager, Technical Committee Operations, ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959; phone: 610.832.9694; e-mail: [jrodgers@astm.org](mailto:jrodgers@astm.org).

## International Organization for Standardization (ISO)

Call for comments

ISO/TMB – Standards under Systematic Review

ISO/IEC Guide 98-4:2012

Every International Standard published by ISO shall be subject to systematic review in order to determine whether it should be confirmed, revised/amended, converted to another form of deliverable, or withdrawn at least once every five years.

ISO has launched Systematic Review ballots on the following standards that are the responsibility of the ISO/TMB:

ISO/IEC Guide 98-4:2012, Uncertainty of measurement -- Part 4: Role of measurement uncertainty in conformity assessment

As there is no accredited U.S. TAG to provide the U.S. consensus positions on this document, we are seeking comments from any directly and materially affected parties.

Organizations or individuals interested in submitting comments or in requesting additional information should contact [ISOT@ansi.org](mailto:ISOT@ansi.org).

## Meeting Notice

AHRI Meeting

Revision of AHRI Standards 750/751, Thermostatic Refrigerant Expansion Valves, 760/761, Performance Rating of Solenoid Valves for Use with Volatile Refrigerants, and 770/771, Performance Rating of Refrigerant Pressure Regulating Valves

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) will be holding an online meeting on October 23 from 2 p.m. to 4 p.m. If you are interested in participating in the meeting or providing comments on the standard, please contact AHRI staff member Richie Mohan at [rmohan@ahrinet.org](mailto:rmohan@ahrinet.org).



# Information Concerning

## International Organization for Standardization (ISO)

### ISO/TMB member survey on Guides 21-1 and 21-2

#### Comment Deadline: November 7, 2014

The ISO Technical Management Board (ISO/TMB) has noted that the following ISO/IEC Guides were last addressed and published in 2005:

*ISO/IEC Guide 21-1 (Regional or national adoption of International Standards and other International Deliverables – Part 1: Adoption of International Standards)*

*ISO/IEC Guide 21-2 (Regional or national adoption of International Standards and other International Deliverables – Part 2: Adoption of International Deliverables other than International Standards)*

At its September meeting, the ISO/TMB agreed to conduct a survey of the 14 national standards bodies represented on the ISO/TMB to determine if there is agreement on the need for revision of these Guides. This survey has now been launched with a deadline date of December 31, 2014 for responses.

ANSI is soliciting input from those who may have interest in or may be affected by these Guides. If you wish to review ISO/IEC Guide 21-1 or 21-2 or the related survey, please contact the ANSI ISO Team ([isot@ansi.org](mailto:isot@ansi.org)) for copies. If you wish to comment, please send your input on this survey to the ANSI TMB Representative, Steven Cornish ([scornish@ansi.org](mailto:scornish@ansi.org)), **by close of business on Friday, November 7, 2014.**

After November 7, ANSI staff will craft that input into a proposed ANSI response that will be presented for AIC approval before the December 31 deadline.

Please note that if the consensus among the 14 national standards bodies on the ISO/TMB is to proceed with a revision effort, it is assumed that ISO will ask IEC to concur with proceeding with the revision, as these documents are joint ISO/IEC Guides.

## BSR/AWC PWF-201x

# REFERENCES

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1. ACI 318-~~02~~14 Building Code Requirements for Structural Concrete, American Concrete Institute, Farmington Hills, MI, ~~2002~~2014.
2. ASCE/SEI 7-~~05~~10, Minimum Design Loads for Buildings and Other Structures, American Society of Civil Engineers, Reston, VA, ~~2005~~2010.
3. ANSI/AWC NDS-~~2005~~2015 National Design Specification (NDS) for Wood Construction, American Wood Council (AWC), Leesburg, VA, ~~2005~~2015.
4. ANSI/AWC SDPWS-~~2005~~2015 Special Design Provisions for Wind and Seismic (SDPWS), American Wood Council (AWC), Leesburg, VA, ~~2005~~2015.
5. ASTM A 153-~~03~~09, Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware, ASTM, West Conshohocken, PA, ~~2003~~2009.
6. ASTM D 2487-~~00~~11, Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System), ASTM, West Conshohocken, PA, ~~2000~~2011.
7. ASTM D 4397-~~02~~10, Standard Specification for Polyethylene Sheeting for Construction, Industrial, and Agricultural Applications, ASTM, West Conshohocken, PA, ~~2002~~2010.
8. AWPA, M4-~~04~~11, Standard for the Care of Preservative- Treated Wood Products, American Wood Protection Association, Birmingham, AL, ~~2004~~2011.
9. AWPA, U1-~~06~~13, Use Category System: User Specification for Treated Wood (Use Category 4B: Permanent Wood Foundations), American Wood Protection Association, Birmingham, AL, ~~2006~~2013.
10. American Softwood Lumber Standard, Voluntary Product Standard PS 20-~~99~~10, National Institute of Standards and Technology, U.S. Department of Commerce, Gaithersburg, MD, ~~1999~~2010.
11. NFPA 225-~~05~~13, Model Manufactured Home Installation Standard, National Fire Protection Association (NFPA), Quincy, MA, ~~2005~~2013.
12. PS1-~~95~~09, Construction and Industrial Plywood, United States Department of Commerce, National Institute of Standards and Technology, Gaithersburg, MD, ~~1995~~2009.
13. PS2-~~04~~10, Performance Standard for Wood-Based Structural-Use Panels, United States Department of Commerce, National Institute of Standards and Technology, Gaithersburg, MD, ~~2004~~2010.

**Background:**

In the September 28, 2014 review of the comments issued during document D029's ballot, four changes were proposed and accepted by the assembled subcommittee that was considered substantive in nature, and thus, require formal approval.

This ballot contains the following four changes issued for approval.

**Ballot Content:**

To the approved content of Draft Document D029A, to be formally identified as BICSI 002-2014, do the following:

**Item 1)**

Add the following underlined text into Section 7.1.3.1

**7 Architectural****7.1 Facilities Planning****7.1.3 Location Within a Building****7.1.3.1 Requirements**

When looking into a floor below grade level, water infiltration issues shall be considered, including:

- Height below surrounding drainage systems
- Water detection systems
- Secure and continuous vapor barriers
- Water and vapor extraction systems
- Main building systems that might create damage to the data center
- Hazardous materials stored or utilized in the basement
- Flooding potential during and following severe weather events

**Item 2)**

Add the following underline text into Section 7.2.6.2

**7 Architectural****7.2 General Design Concepts****7.2.6 Data Center Location Within Building****7.2.6.2 Recommendations**

The computer room is best located on the ground floor. It is generally desirable to locate the computer room away from exterior walls, although it may be appropriate to design a data center where the computer rooms have an exterior wall with knock-out panels for future expansion or integration of certain free cooling options.

**Item 3)**

Make the indicated change into Table 7-1.

Note: Addition indicated by underline, deletion indicated by ~~strikethrough~~

**Table 7-1 Minimum Fire Rating of Spaces**

<i>Area</i>	<i>Minimum Fire Rating of Walls</i>
ITE Space (computer rooms, entrance rooms, <del>command centers</del> , dedicated distributors [MDA, IDA, HDA], telecommunications rooms)	<u>1-hour rating, slab-to-slab, may be required by AHJ between adjacent ITE spaces</u> <del>Between adjacent ITE spaces: No rating, floor to ceiling</del> <del>Adjacent to non-ITE spaces: 1 hour rating, full height</del>
<u>Command centers</u>	<u>1-hour rating, slab-to-slab</u>
Printer room and printer supply storage room	1-hour rating, <u>slab-to-slab</u> <del>floor to ceiling</del>
Critical media storage	2-hour rating, <u>slab-to-slab</u> <del>full height</del>
Electrical room	1-hour rating, <u>slab-to-slab</u> <del>full height</del>
Battery room	1-hour rating, <u>slab-to-slab</u> <del>full height</del>
Staging and storage room	1-hour rating, <u>slab-to-slab</u> <del>floor to ceiling</del>
Loading Docks	1-hour rating, <u>slab-to-slab</u> <del>full height</del>

**Item 4)**

Add the following underline text into Section 7.2.6.2

**9 Electrical Systems**

**9.9 Bonding, Grounding, Lightning Protection and Surge Suppression**

**9.9.7 Supplementary Bonding and Grounding**

**9.9.7.3 Mesh-BN**

**9.9.7.3.2 Requirements**

All metal surfaces, with the exception of lighting fixtures, door frames, window frames, and pathways shorter than 1 m (3 ft) ~~and the frames of doors and windows~~, shall be bonded to the bonding grid.

## **BSR/ISEA Z358.1 – Emergency Eyewash and Shower Equipment**

**Comments limited to highlighted text (underline is new text) representing substantive changes between current proposed language and that appearing in June 2014 Public Review Copy**

### 4. Emergency Showers

#### 4.6 Maintenance and Training

4.6.3 Self-contained emergency showers shall be visually checked weekly to determine if flushing fluid needs to be changed or supplemented. Such inspection shall be conducted in accordance with manufacturer's instructions.

### 5. Eyewash Equipment

#### 5.5 Maintenance and Training

5.5.3 Self-contained eyewashes shall be visually checked weekly to determine if flushing fluid needs to be changed or supplemented. Such inspection shall be conducted in accordance with manufacturer's instructions.

### 6. Eye/Face Wash Equipment

#### 6.5 Maintenance and Training

6.5.3 Self-contained eye/face washes shall be visually checked weekly to determine if flushing fluid needs to be changed or supplemented. Such inspection shall be conducted in accordance with manufacturer's instructions.

### 7. Combination Units

#### 7.5 Maintenance and Training

7.5.3 Self-contained combination units shall be visually checked weekly to determine if flushing fluid needs to be changed or supplemented. Such inspection shall be conducted in accordance with manufacturer's instructions.

### 8. Supplemental Equipment

#### 8.2 Drench Hoses

##### 8.2.4 Maintenance and Training

8.2.4.3 Self-contained drench hoses shall be visually checked weekly to determine if flushing fluid needs to be changed or supplemented. Such inspection shall be conducted in accordance with manufacturer's instructions.

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## NSF International Standard for Food Equipment –

### Food equipment

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#### 6.2.2 Test method

The ability of dispensing equipment to maintain the temperature of its contents at 41 °F (5 °C) or below shall be evaluated by monitoring the temperature in the product reservoir (hopper or refrigerated cabinet) and in the product holding area of the dispensing head. The equipment, while operated in accordance with the manufacturer's instructions, shall be evaluated in a test chamber in which the following conditions are maintained for the duration of the test:

- ambient air temperature of  $86 \pm 3$  °F ( $30 \pm 2$  °C); and
- no vertical temperature gradient exceeding 1.5 °F/ft (2.5 °C/m).

The product reservoir shall be filled with the intended product mix at  $35 \pm 1$  °F ( $1.5 \pm 0.5$  °C) and the system shall be purged of entrapped air by dispensing approximately 1 qt (1 L) of product. Prior to starting the test, the equipment shall be allowed to establish thermal equilibrium according to the manufacturer's instructions, or the compressor shall be allowed to cycle on and off at least two full times at room temperature. At the start of the test period, the temperature of the product shall be 41 °F (5 °C) or below. Remote temperature sensors with an accuracy of  $\pm 0.5$  °F ( $\pm 0.3$  °C) shall be used to monitor the product temperature. A sensor shall be placed  $1 \pm 0.1$  in ( $25 \pm 2$  mm) below the product level in the middle of the product reservoir. A sensor shall be placed in the product holding area of at least one dispensing head. If a dispensing freezer has a remote product feed, a sensor shall be placed in the remote feed line. The temperature at each sensor location shall be recorded every 5 min during a 4-h test period. This test shall be performed while the freezer is operated in the standby (night) mode, if available.

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#### 6.3.2.2 For machines with pre-packaged product.

**Thermocouple #1:**  $1 \pm 0.1$  in ( $25 \pm 2$  mm) below the product level in the middle of the product reservoir.

**Thermocouple # 2:** product-holding area of the dispensing head.

**Thermocouple # 3:** as close to the rear of the freezing barrel as possible.

**Thermocouple # 4:** located in all product transfer circuits (Multiple thermocouples may be required. See section 6.2.2).

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The product temperature at thermocouple #1 shall be recorded for the duration of the test. The time required for the temperature at monitoring locations 2-4 to increase from 41 °F (5 °C) to 150 °F (65 °C) shall be recorded. The time elapsed while the product temperature is continuously maintained at 150 °F (65 °C) or greater shall be recorded for thermocouple location 2-4. The heat treatment cycle shall be allowed to continue through the cooling portion. The test shall be conducted in a controlled temperature environment at an ambient temperature of  $73 \pm 3$  °F ( $23 \pm 2$  °C).

*Rationale: Clause 6.3.2.2 has been added to the standard for heat treatment equipment which is designed for pre-package product that will remain at <41°F at all times and will not be heat treated on a daily basis. This section includes additional temperature measurement locations for the product transfer circuits to verify acceptable product temperature during heat treatment. A thermocouple will also be placed in the pre-package product left in the refrigerated area during the heat treatment cycle to verify that product remains <41°F during heat treatment operation.*

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NSF/ANSI Standard for  
Residential Equipment —

## Residential dishwashers

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### 2 Normative references

The following documents contain provisions that, through reference, constitute provisions of this Standard. At the time this Standard was balloted, the editions listed below were valid. All documents are subject to revision, and parties are encouraged to investigate the possibility of applying the recent editions of the documents indicated.

ANSI/AHAM, DW-1-~~2005~~ 2010 *Household Electric Dishwashers*<sup>3</sup> sections 4.2, 4.3, 4.6, 4.7, 4.8.1, and 4.8.2.

ANSI/ASSE 1006/AHAM DW-2PR-1992 *Plumbing Requirements for Household Dishwashers*

FDA ~~2009~~ 2013 Food Code

NSF/ANSI 2, *Food equipment*

***Rationale: The ANSI/AHAM DW-1 and the FDA Food Code have been revised***

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### 3 Definitions

Terms used in this Standard that have special technical meaning are defined here.

**3.18 residential dishwashing machine:** A machine designed and constructed to wash and sanitize dishes by means of a spray wash and a sanitizing rinse and having an intended use in a private home or other location that is not a food establishment as defined by section 1.201-10 (36) in the ~~2009~~ 2013 FDA Food Code.

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## 6 Performance

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### 6.1.2 Test method

The soil removal efficacy of a residential dishwasher shall be evaluated by observing its ability to remove test soil from dishes, glasses, and utensils. The test soil used to assess the soil removal of the residential dishwashing equipment shall be cultured buttermilk with 1% milk-fat content.

The residential dishwasher shall be conditioned and operated according to sections 4.2, 4.3, 4.6, 4.7.1, and 4.7.2 4.7, 4.8.1, and 4.8.2 of ANSI/AHAM DW-1. Water hardness shall be between 4 and 200 ppm. Where necessary a cation exchange water softener may be used to maintain water hardness at this level.

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## 6.2 Sanitization efficacy

### 6.2.1 Performance requirement

To ensure adequate sanitization, the rinse portion of one complete sanitizing wash cycle of a dishwasher shall deliver a minimum of 3600 HUEs at the surface of dishes.

### 6.2.2 Test method

The HUEs delivered by a dishwasher shall be quantified by continuously monitoring the temperature at the surface of three dinner plates in the lower rack and three glasses in the upper rack over the course of a complete dishwashing cycle. The residential dishwasher shall be conditioned and operated according to sections 4.2, 4.3, 4.6, and 4.7, 4.8.1, and 4.8.2 of ANSI/AHAM DW-1. The machine tub shall return to room ambient temperature before beginning the test. After verifying proper dishwasher functioning, the lower rack shall contain the three monitored plates distributed as shown in figure 6.1. The rest of the lower rack shall be filled with unmonitored plates.

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## Substantive Changes to Proposed Addendum BSR/RESNET 301-2014 Addendum A-201x PD-02 Resulting from Public Comment

**4.2.2.5.1.4 Service Hot Water Use.** Service hot water system use in gallons per day for the HERS Reference Home shall be determined in accordance with Equation 4.2-2

$$\text{HWgpd} = (\text{refDWgpd} + \text{refCWgpd} + F_{\text{mix}} * (\text{refFgpd} + \text{refWgpd})) * \text{Ndu} \quad \text{Eq. 4.2-2}$$

where:

HWgpd = gallons per day of hot water use

refDWgpd = reference dishwasher gallons per day =  $((88.4 + 34.9 * \text{Nbr}) * 8.16) / 365$

refCWgpd = reference clothes washer gallons per day =  $(4.52 * (164 + 45.6 + 46.5 * \text{Nbr})) * ((3 * 2.08 + 1.59) / (2.874 * 2.08 + 1.59)) / 365$

$F_{\text{mix}} = 1 - ((T_{\text{set}} - T_{\text{use}}) / (T_{\text{set}} - T_{\text{mains}}))$

where

$T_{\text{set}}$  = Water heater set point temperature = 125 F

$T_{\text{use}}$  = Temperature of mixed water at fixtures = 105 F

$T_{\text{mains}} = (T_{\text{amb,avg}} + \text{offset}) + \text{ratio} * (\Delta T_{\text{amb,max}} / 2) * \sin(0.986 * (\text{day\#} - 15 - \text{lag}) - 90)$

where

$T_{\text{mains}}$  = temperature of potable water supply entering residence (°F)

$T_{\text{amb,avg}}$  = annual average ambient air temperature (°F)

$\Delta T_{\text{amb,max}}$  = maximum difference between monthly average ambient temperatures (e.g.,  $T_{\text{amb,avg,july}} - T_{\text{amb,avg,january}}$ ) (°F)

0.986 = degrees/day (360/365)

day# = Julian day of the year (1-365)

offset = 6°F

ratio =  $0.4 + 0.01 (T_{\text{amb,avg}} - 44)$

lag =  $35 - 1.0 (T_{\text{amb,avg}} - 44)$

refFgpd = ~~16.5~~ 14.6 + ~~9.24~~ 10.0 \* Nbr = reference climate-normalized daily fixture water use in Reference Home (in gallons per day)

refWgpd = ~~10~~ 9.8 \* Nbr<sup>0.43</sup> = reference climate-normalized daily hot water waste due to distribution system losses in Reference Home (in gallons per day)

where

Nbr = number of bedrooms in each dwelling unit

Ndu = number of dwelling units

**4.2.2.5.2.10 Clothes Washers.** Clothes Washer annual energy use and daily hot water use for the Rated Home shall be determined as follows.

Annual energy use shall be calculated in accordance with Equation 4.2-9a.

$$\text{kWh/yr} = ((\text{LER}/392) - ((\text{LER} * (\$/\text{kWh}) - \text{AGC}) / (21.9825 * (\$/\text{kWh}) - (\$/\text{therm}))) / 392) * 21.9825 * \text{ACY} \quad \text{(Eq. 4.2-9a)}$$

where:

LER = Label Energy Rating (kWh/y) from the Energy Guide label

\$/kWh = Electric Rate from Energy Guide Label

AGC = Annual Gas Cost from Energy Guide Label

\$/therm = Gas Rate from Energy Guide Label

ACY = Adjusted Cycles per Year

and where:

$$ACY = NCY * ((3.0*2.08+1.59)/(CAPw*2.08+1.59))$$

where:

$$NCY = (3.0/2.847) * (164 + Nbr*~~45.6~~ 46.5)$$

CAPw = washer capacity in cubic feet from the manufacturer's data **or** the CEC database<sup>1</sup>  
**or** the EPA Energy Star website<sup>2</sup> **or** the default value of 2.874 ft<sup>3</sup>

**4.2.2.5.2.11 Service Hot Water Use.** Service hot water system use in gallons per day for the Rated Home shall be determined in accordance with Equation 4.2-11

$$\text{HWgpd} = (\text{DWgpd} + \text{CWgpd} + F_{\text{eff}} * \text{adjF}_{\text{mix}} * (\text{refFgpd} + \text{oWgpd} + \text{sWgpd} * \text{WD}_{\text{eff}})) * \text{Ndu} \quad \text{Eq. 4.2-11}$$

where:

HWgpd = gallons per day of hot water use in Rated home

DWgpd = dishwasher gallons per day (see Section 4.2.2.5.2.9) =  
 $((88.4+34.9*Nbr)*12/dWcap*(4.6415*(1/EF)-1.9295))/365$

CWgpd = clothes washer gallons per day (see Section 4.2.2.5.2.10) =  
 $60*((LER*($/kWh)-AGC)/(21.9825*($/kWh)-($/therm))/392)*ACY/365$

F<sub>eff</sub> = fixture effectiveness in accordance with Table 4.2.2.5.2.11(1)

**Table 4.2.2.5.2.11(1) Hot water fixture effectiveness**

Plumbing Fixture Description	F <sub>eff</sub>
Standard-flow: showers ≤2.5 gpm and faucets ≤2.2 gpm	1.00
Low-flow: all showers and faucets ≤2.0 gpm	0.95

$$\text{adjF}_{\text{mix}} = 1 - ((T_{\text{set}} - T_{\text{use}}) / (T_{\text{set}} - \text{WH}_{\text{in}}T))$$

where

T<sub>set</sub> = 125 °F = water heater set point temperature

T<sub>use</sub> = 105 °F = temperature of mixed water at fixtures

WH<sub>in</sub>T = water heater inlet temperature

where

WH<sub>in</sub>T = T<sub>mains</sub> + WH<sub>in</sub>T<sub>adj</sub> for DWHR systems and where WH<sub>in</sub>T<sub>adj</sub> is calculated in accordance with equation 4.1-14

WH<sub>in</sub>T = T<sub>mains</sub> for all other hot water systems

T<sub>mains</sub> = temperature of potable water supply entering the residence calculated in accordance with Section 4.2.2.5.1.4

refFgpd = reference climate-normalized daily fixture water use calculated in accordance with Section 4.2.2.5.1.4

$$\text{oWgpd} = \text{refWgpd} * \text{oFrac} * (1 - \text{oCD}_{\text{eff}}) \quad \text{Eq. 4.2-12}$$

where

oWgpd = daily standard operating condition waste hot water quantity

oFrac = 0.25 = fraction of hot water waste from standard operating conditions

oCD<sub>eff</sub> = Approved Hot Water Operating Condition Control Device effectiveness (default = 0.0)

$$\text{sWgpd} = (\text{refWgpd} - \text{refWgpd} * \text{oFrac}) * \text{pRatio} * \text{sysFactor} \quad \text{Eq. 4.2-13}$$

where

sWgpd = daily structural waste hot water quantity

refWgpd = reference climate-normalized distribution system waste water use calculated in accordance with Section 4.2.2.5.1.4

oFrac = 0.25 = fraction of hot water waste from standard operating conditions

pRatio = hot water piping ratio

<sup>1</sup> (Informative Reference) <http://www.appliances.energy.ca.gov/>

<sup>2</sup> (Informative Reference) [http://www.energystar.gov/index.cfm?c=clotheswash.pr\\_clothes\\_washers](http://www.energystar.gov/index.cfm?c=clotheswash.pr_clothes_washers)

where

for Standard systems:

$$pRatio = PipeL / refPipeL$$

where

PipeL = measured length of hot water piping from the hot water heater to the farthest hot water fixture, measured longitudinally from plans, assuming the hot water piping does not run diagonally, plus 10 feet of piping for each floor level, plus 5 feet of piping for unconditioned basements (if any)

$$refPipeL = 2*(CFA/Nfl)^{0.5} + 10*Nfl + 5*Bsm = \text{hot water piping length for Reference Home}$$

where

CFA = conditioned floor area

Nfl = number of conditioned floor levels in the residence, including conditioned basements

Bsm = presence = 1.0 or absence = 0.0 of an unconditioned basement in the residence

for recirculation systems:

$$pRatio = BranchL / 10$$

where

BranchL = measured length of the branch hot water piping from the recirculation loop to the farthest hot water fixture from the recirculation loop, measured longitudinally from plans, assuming the branch hot water piping does not run diagonally, ~~plus 10 feet of piping for each floor level, plus 5 feet of piping for unconditioned basements (if any)~~

sysFactor = hot water distribution system factor from Table 4.2.2.5.2.11(2)

**Table 4.2.2.5.2.11(2) Hot Water Distribution System Insulation Factors**

Distribution System Description	sysFactor	
	No pipe insulation	≥R-3 pipe insulation
Standard systems	1.00	0.90
Recirculation systems	1.11	1.00

WD<sub>eff</sub> = distribution system water use effectiveness from Table 4.2.2.5.2.11(3)

**Table 4.2.2.5.2.11(3) Distribution system water use effectiveness**

Distribution System Description	WD <sub>eff</sub>
Standard systems	1.00
Recirculation systems	0.10

Ndu = number of dwelling units

#### 4.2.2.5.2.11.1 Drain Water Heat Recovery (DWHR) Units

If DWHR unit(s) is (are) installed in the Rated Home, the water heater potable water supply temperature adjustment (WH<sub>in</sub>T<sub>adj</sub>) shall be calculated in accordance with Equation 4.2-14.

$$WH_{in}T_{adj} = Ifrac * (DWHR_{in}T - T_{mains}) * DWHR_{eff} * PLC * LocF * FixF \quad \text{Eq. 4.2-14}$$

where

WH<sub>in</sub>T<sub>adj</sub> = adjustment to water heater potable supply inlet temperature (°F)

Ifrac = ~~0.56 + 0.013~~ 0.015 \* Nbr - 0.0004 \* Nbr<sup>2</sup> = fraction of hot water use impacted by DWHR

DWHR<sub>in</sub>T = 97 °F

$T_{\text{mains}}$  = calculated in accordance with Section 4.2.2.5.1.4

$DWHR_{\text{eff}}$  = Drain Water Heat Recovery Unit efficiency as rated and labeled in accordance with CSA 55.1

where

$DWHR_{\text{eff}} = DWHR_{\text{eff}} * 1.082$  if low-flow fixtures are installed in accordance with Table 4.2.2.5.2.11(1)

$PLC = 1 - 0.0002 * pLength$  = piping loss coefficient

where

for standard systems:

$pLength = pipeL$  as measured accordance with Section 4.1.1.5.2.11

for recirculation systems:

$pLength = branchL$  as measured in accordance with Section 4.2.2.5.2.11

$LocF$  = a performance factor based on the installation location of the DWHR determined from Table 4.2.2.5.2.11(4)

**Table 4.2.2.5.2.11(4) Location factors for DWHR placement**

<b>DRHR Placement</b>	<b>LocF</b>
Supplies pre-heated water to both the fixture cold water piping and the hot water heater potable supply piping	1.000
Supplies pre-heated water to only the hot water heater potable supply piping	0.777
Supplies pre-heated water to only the fixture cold water piping	0.777

$FixF$  = Fixture Factor

where

$FixF = 1.0$  if all of the showers in the home are connected to DWHR units

$FixF = 0.5$  if there are 2 or more showers in the home and only 1 shower is connected to a DWHR unit.

#### 4.2.2.5.2.11.2 Hot Water System Annual Energy Consumption

Service hot water energy consumption shall be calculated using Approved Software Tools and the provisions of Section 4.2.2.5.1.4, Section 4.2.2.5.2.11 and Section 4.2.2.5.2.11.1 shall be followed to determine appropriate inputs to the calculations.

If the Rated Home includes a hot water recirculation system, the annual electric consumption of the recirculation pump shall be added to the total hot water energy consumption. The recirculation pump kWh/y shall be calculated using Equation 4.2-15

$$\text{pumpkWh/y} = \text{pumpW} * \text{Efact} \quad \text{Eq. 4.2-15}$$

where:

$\text{pumpW}$  = pump power in watts (default  $\text{pumpW} = 50$  watts)

$\text{Efact}$  = factor selected from Table 4.2.2.5.2.11(5)

**Table 4.2.2.5.2.11(5) Annual electricity consumption factor for hot water recirculation system pumps**

<b>Recirculation System Description</b>	<b>Efact</b>
Recirculation without control or with timer control	8.76
Recirculation with temperature control	<del>1.50</del> 1.46
Recirculation with demand control ( <del>motion</del> presence sensor)	<del>0.46</del> 0.15
Recirculation with demand control (manual)	<del>0.46</del> 0.10

Results from standard hot water energy consumption calculations considering only tested Energy Factor data ( $\text{stdEC}_{\text{HW}}$ ) shall be adjusted to account for the energy delivery effectiveness of the hot water distribution system in accordance with equation 4.2-16.

$$EC_{HW} = stdEC_{HW} * (E_{waste} + 128) / 160 \quad \text{Eq. 4.2-16}$$

where  $E_{waste}$  is calculated in accordance with equation 4.2-17.

$$E_{waste} = oEW_{fact} * (1 - oCD_{eff}) + sEW_{fact} * pEratio \quad \text{Eq. 4.1-17}$$

where

$oEW_{fact} = EW_{fact} * oFrac$  = standard operating condition portion of hot water energy waste  
where

$EW_{fact}$  = energy waste factor in accordance with Table 4.2.2.5.2.11(6)

$oCD_{eff}$  is in accordance with Section 4.2.2.5.2.11.1

$sEW_{fact} = EW_{fact} - oEW_{fact}$  = structural portion of hot water energy waste

$pEratio$  = piping length energy ratio

where

for standard system:  $pEratio = PipeL / refpipeL$

for recirculation systems:  $pEratio = LoopL / refLoopL$

and where

LoopL = hot water recirculation loop piping length including both supply and return sides of the loop, measured longitudinally from plans, assuming the hot water piping does not run diagonally, plus ~~10~~ 20 feet of piping for each floor level greater than one plus ~~5~~ 10 feet of piping for unconditioned basements.

$refLoopL = 2.0 * refPipeL - 20$   ~~$refPipeL * 2.0$~~

**Table 4.2.2.5.2.11(6) Hot water distribution system relative annual energy waste factors**

Distribution System Description	$EW_{fact}$	
	No pipe insulation	$\geq R-3$ pipe insulation
Standard systems	32.0	28.8
Recirculation without control or with timer control	<del>467.2</del> <u>500</u>	<del>233.6</del> <u>250</u>
Recirculation with temperature control	<del>78.4</del> <u>375</u>	<del>39.2</del> <u>187.5</u>
Recirculation with demand control ( <del>motion</del> <u>presence</u> sensor)	<del>14.4</del> <u>64.8</u>	<del>7.2</del> <u>43.2</u>
Recirculation with demand control (manual)	<del>4.8</del> <u>43.2</u>	<del>2.4</del> <u>28.8</u>

## Preface

The environmental performance of refrigeration home appliances is commonly evaluated on the single environmental attribute of electricity consumption during use. This Standard takes a multi-attribute, life cycle approach to measuring a broad spectrum of environmental and social impacts of refrigeration home appliances as a means of assessing sustainability performance. The multi-attribute approach was developed using representative product life cycle assessment (LCA) information along with other key factors such as hot-spot or hot-button analyses influencing product environmental performance. The attributes and criteria in this Standard are drawn from a much larger list and reflect the understanding of the attributes and criteria that are most prominent in sustainable performance and over which the manufacturers of these products have control. This approach, detailed in Annex A, determined the environmental attributes of refrigeration appliances for inclusion in this Standard. The authors acknowledge that revisions to this standard will be considered periodically and that future editions may consider a broader range of sustainability criteria.

## 3.1 Normative references

### Canada Government

Energy Efficiency Regulations <http://laws-lois.justice.gc.ca/eng/regulations/SOR-94-651/index.html>

5.2.1 Eligible refrigeration products shall be evaluated for their sustainability on the attributes in Items (a) - (e) below. Item (f), innovation, is a bonus attribute, and is therefore not required.

- (a) product performance;
- ~~(ba)~~ materials;
- ~~(cb)~~ energy consumption during use;
- ~~(de)~~ manufacturing and operations;
- ~~(d)~~ product performance;
- (e) end of life; and
- (f) innovation (bonus attribute).

6.3 For products to be considered as having some level of recognized environmental performance under this Standard, such products shall:

- (a) meet the requirements of the product performance attribute; and
- ~~(ba)~~ have received a minimum of 60 points;
- ~~(b)~~ ~~meet the requirements of the product performance attribute; and~~
- (c) have some points in each of the required attributes [i.e., Items (a) to (e) in Clause 5.3].

**Note:** *One balanced manner of reaching the 60 point level - and the scenario under which this recommendation was developed - is for the product to achieve 30 points in the energy consumption during use attribute, 12 points in the materials attribute, 5 points in the performance attribute, 5 points in the end of life attribute, and 8 points in the manufacturing and operations attribute.*

(New)

6.4 In instances where points are awarded for demonstrating progress, reduction, or some equivalent language that implies a reduction in the product's overall environmental burden, the points shall not be awarded unless that progress or reduction is significant.

**Note:** The interpretation of whether or not an action is significant should be in keeping with the General Principles of The Federal Trade Commission's Guides for the Use of Environmental Marketing Claims (October 1, 2012). In 16 CFR 260.3, the Guides provide examples of claims that overstate an environmental attribute. Section 260.3(c) states "[a]n environmental marketing claim should not overstate, directly or by implication, an environmental attribute or benefit. Marketers should not state or imply environmental benefits if the benefits are negligible." Further, section 260.4(c) states that to "avoid deception, marketers should use clear and prominent qualifying language that limits the claim to a specific benefit or benefits. Marketers should not imply that any specific benefit is significant if it is, in fact, negligible."

(Previously proposed 6.4 renumbered to 6.5 and revised)

6.5 6.4 Points are awarded on each attribute through a combination of prerequisites and optional points. The maximum points achievable for each attribute are as follows:



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- (a) Product performance (0 pts) prerequisite;
- (ab) materials (25 points);
- (bc) energy consumption during use (45 points);
- (cd) manufacturing and operations (20 points);
- (de) end of life (10 points); and
- (ef) innovation (10 points). Note: over and above the 100 point total.

Note: Points in each of the attributes were developed using the research and information contained in Annex A.

7.1 The attribute prerequisites are identified under each attribute heading. The criteria prerequisites are identified under the criteria headings. ~~The attribute prerequisites are identified under each attribute headings. The criteria level prerequisites are identified under the criteria headings.~~

*(Previously proposed 7.3 editorially renumbered to 7.2)*

*(Note: Only proposed changes to Section 9.1.6 are shown below)*

### **9.1.6 Criterion: Packaging ~~recycled content~~**

9.1.6.2.2 The product shall be evaluated based on the following metrics:

(a) A product shall receive 1 point if the manufacturer implements a program and sets targets for reducing environmental impacts of materials, which may include for example, increasing the percentage of pre-consumer recycled materials in the product packaging and shows progress toward meeting the targets.

(b) A product shall receive 1 point if the manufacturer implements a program and sets targets for reducing environmental impacts of materials, which may include for example, increasing the percentage of post-consumer recycled materials in the product packaging and shows progress toward meeting the targets.

9.1.7.2.2 The product shall be evaluated based on the following metrics:

- (a) The product shall receive 1 point if the manufacturer can demonstrate that it has conducted an inventory of the product materials and identified materials that are eligible for reduction.
- (b) The product shall receive 1 point if the manufacturer can demonstrate a reduction in the total mass of materials, ~~design simplification, or use of higher performance materials that result in a reduction in materials in the product.~~ The manufacturer shall demonstrate one or more of the following:
  - (i) a reduction in the total mass of materials;
  - (ii) a design simplification that results in a reduction of the type of materials;
  - (iii) a reduction in the total number of components;
  - (iv) the use of higher performance materials that results in a reduction of mass or number of components;
  - or
  - (v) a reduction in manufacturing process scrap.

*(Previously proposed 9.1.7.2.3 now proposed to be deleted)*

~~9.1.7.2.3X The manufacturer shall demonstrate one or more of the following:~~

- ~~(a) a reduction in the total mass of materials;~~
- ~~(b) a design simplification that results in a reduction of materials;~~
- ~~(c) a reduction in the total number of components;~~
- ~~(d) the use of higher performance materials that results in a reduction of mass or number of components; or~~
- ~~(e) a reduction in manufacturing process scrap.~~

*(Previously proposed 9.1.7.2.4 – 9.1.7.2.6 renumbered to 9.1.7.2.3 – 9.1.7.2.5, respectively)*

9.2.2.1 The product shall be evaluated based on the following criteria:

- (a) The product shall be in compliance at the time of its initial placement on the market and throughout its manufacturing phase;



- (b) The product shall be listed in a recognized independent third-party registry; and

**Note:** *Examples of recognized independent third-party registry include the Refrigerator-Freezer Energy Verification Program operated by the Association of Home Appliance Manufacturers (AHAM) or the accredited Energy Efficiency Certification Bodies recognized by the Standard Council of Canada.*

- (c) The product shall be evaluated based on the following metrics:

(i) The product shall receive a total of 30 points if it meets the energy criteria of the U.S. EPA ENERGY STAR program\* and is listed in the ENERGY STAR program directory. The ENERGY STAR compliant products are equivalent to the energy criteria of CEE Tier 1. For products sold only in Canada, the products shall meet the Canadian Energy Efficiency Regulations requirements first before the energy criteria of the ENERGY STAR label is awarded programs of Natural Resources Canada.

(ii) The product shall receive 5 additional points if it complies with the energy criteria of CEE Tier 2, or is 25% above the U.S. Department of Energy and the Canadian Energy Efficiency Regulations Natural Resources Canada minimum federal standards.

(iii) The product shall receive 5 additional points if it complies with the energy criteria of CEE Tier 3, or is 30% above the U.S. Department of Energy and the Canadian Energy Efficiency Regulations Natural Resources Canada minimum federal standards.

(iv) The product shall receive 1 additional point to a maximum of 5 points if it can be demonstrated to achieve a 1 percentage point increase in the energy efficiency beyond the CEE Tier 3 level or more than 30% above the minimum energy efficiency standards of U.S. DOE and Natural Resources Canada the Canadian Energy Efficiency Regulations minimum federal standards.

*\*ENERGY STAR and CEE Tier 2 and 3 qualification are as of the date the candidate product is manufactured.*

9.2.2.2 For residential freezers, no CEE Tiers exist at present. Points for meeting ENERGY STAR criteria shall be assessed as follows:

(a) The freezer shall receive a total of 30 points if it meets the energy criteria of the U.S. EPA ENERGY STAR program and is listed in the ENERGY STAR program directory. For products sold only in Canada, the products shall meet the Canadian Energy Efficiency Regulations requirements first before the energy criteria of the ENERGY STAR label is awarded programs of Natural Resources Canada.

(b) The freezer shall receive 5 additional points if it uses 5% less energy than the EPA ENERGY STAR criteria and is listed in the ENERGY STAR program directory. For products sold only in Canada, the products shall meet the Canadian Energy Efficiency Regulations requirements first before the ENERGY STAR label is awarded.

(c) The freezer shall receive 10 additional points if it uses 10% less energy than the EPA ENERGY STAR criteria and is listed in the ENERGY STAR program directory. For products sold only in Canada, the products shall meet the Canadian Energy Efficiency Regulations requirements first before the ENERGY STAR label is awarded.

(d) The freezer shall receive 1 additional point to a maximum of 5 points if it can be demonstrated to achieve 1 percentage point less energy than 10% less than the ENERGY STAR criteria and is listed in the ENERGY STAR program director. For products sold only in Canada, the products shall meet the Canadian Energy Efficiency Regulations requirements first before the ENERGY STAR label is awarded.

9.3.1.4 The manufacturing and operations associated with the product shall be evaluated based on the following criteria with the following maximum points available:

- (a) environmental management systems: 4 points;
- (b) greenhouse gas emissions reporting and reduction: 4 points;

- (c) water use: 5 points;
- (d) pollution prevention: 4 points; and
- (e) corporate sustainability: 3 points.

~~9.3.1.5 Products shall be evaluated on the environmental.~~ The performance of the product's ~~associated~~ manufacturing and operations shall be evaluated against the criteria listed in clause 9.3.1.4 (a) to (e). "Manufacturing and operations" includes those directly owned by the company, referred to as "direct manufacturing and operations," and those of the tier one suppliers in the product's manufacturing supply chain. See Clause 7 on Audit Scope and Boundaries.

9.3.2.1 (Prerequisite) A product shall be manufactured in a facility that, during the year the product was manufactured, had in place an environmental reporting or management system compliant with an internal recognized program or incorporating the key elements of an environmental management system based on the "Plan-Do-Check-Act" model of continual improvement (outlined in Annex D) at all manufacturing facilities associated with the product under the company's control.

9.3.3.2.1 The product shall be evaluated based on the following metrics for the relevant manufacturing facilities:

- (a) The product shall receive 1 point if, during the year that the product was manufactured, the manufacturer had in place an environmental ~~reporting or~~ management system certified by a third-party to an environmental management system standard, including CAN/CSA-ISO 14001, EMAS, or equivalent at all relevant refrigeration products manufacturing facilities under the company's control.
- (b) The product shall receive 1 point if, during the year the product was manufactured, the manufacturer has conducted an inventory of all their tier one suppliers which records suppliers with an environmental ~~reporting or~~ management system compliant with a recognized program or incorporating the key elements of an environmental management system based on the "Plan-Do-Check-Act" model of continual improvement (outlined in Annex D).
- (c) The product shall receive 2 points if, during the year that the product was manufactured, at least 50% of the manufacturer's company-wide list of tier one suppliers had in place an environmental ~~reporting or~~ management system compliant with an environmental management system standard, including CAN/CSA-ISO 14001, EMAS, or equivalent. This would apply to all suppliers in cases where the OEM final assembly to a particular model occurs at more than one location.

9.5.2.1 The product shall be evaluated based on the following metrics:

- (a) The product shall receive 1 point if the manufacturer has prepared an evaluation of the product for the potential of disassembly or recycling.

The evaluation shall address materials that constitute at least 90% of total product weight, and shall include one or more of the following:

- (1) mapping and identification of materials throughout the product; and/or
- (2) materials that could be identified for removal prior to shredding or equivalent end-of-life processing to improve the value of the output

In order to receive the point in this metric, a manufacturer shall provide a copy of the evaluation to the auditor.

~~Points shall be awarded based on one representative product example.~~

- (b) The product shall receive up to 2 points if the manufacturer has evaluated the percent of the product's content that is reclaimable for recycling, and the result meets the minimum requirements below.

The product shall be evaluated based on the following metric, with points awarded as follows:

- (1) 1 point if 65% of the total product weight could be reclaimed for recycling; or

- (2) 2 points if 80% of the total product weight could be reclaimed for recycling

The calculation of the percentages shall be performed using an objective, publicly available methodology, such as Calculation of Estimated Recyclability Rate, UL EVCP 2789, for each product model being evaluated under this Standard.

- (c) The product shall receive 1 point if the manufacturer has made publicly available written instructions, for the safe disassembly or recycling of the product, to authorized dismantlers, recyclers, or others.

~~Points shall be awarded based on one representative product example.~~

- (d) The product shall receive up to 2 points if the manufacturer has marked a minimum percentage of the number of eligible plastic components with symbols using ISO 11469 terminology or other well-recognized terminology (e.g., SAE J1344), as follows:

- (1) at least 50%: 1 point; and  
(2) at least 75%: 2 points

Note: "Eligible plastic components" refers to rigid polymer parts greater than 25 g, or elastomer or foam parts greater than 50 g, if adequate space is available and the functionality of the part is not compromised.

In order to receive the point(s), the manufacturer shall provide copies of engineering drawings, bill of materials (BOM), and examples of plastic parts demonstrating the use of the plastic component marking methodology.

Points in this criterion are cumulative up to a total of 6 points.

9.5.3.1 The vast majority of major appliances are recycled through existing successful market based programs and manufacturers have already implemented initiatives and programs to ensure the most efficient utilization of resources to minimize environmental impacts resulting from the manufacture, use, and recycle/disposal of their products. However, these criteria refer to the manufacturer employing a voluntary appliance recycling effort including refrigeration products, with a focus on improving the recycling process and increasing the number of units recycled.

Note: Support for this comes from the ISRI study regarding major appliance recycling. Steel Recycling Institute Reference: <http://www.recycle-steel.org/Steel%20Markets/Appliances.aspx>.

The product shall be evaluated based on the following metrics:

- (a) **Recycling policy:** The product shall receive 1 point if the manufacturer has a recycling policy in place that includes refrigeration products. For example, a company may support the efforts of wholesale customers (e.g. retail trade partners, distributors), including collection and recycling of used appliances at end-of-life.
- (b) **Program affiliation:** The product shall receive 1 additional point if the manufacturer's appliance recycling effort partners with a voluntary program, such as the EPA WasteWise Program or equivalent, that includes tracking and reporting of annual recycling execution including associated appliance unit volumes. The product would also receive this point if a manufacturer operates its own reporting policy that satisfies these requirements.
- (c) The product shall receive 1 additional point if the tracking and reporting policy outlined in Item (b) shows an annual increase in number of units recycled.
- (d) **Recycling best practices:** The product shall receive 1 point the manufacturer is working with an appliance recycler who continues to innovate to find solutions for components, materials and substances that may be difficult to recycle or are typically sent to a landfill.

Points in this set of criteria are cumulative up to a total of 4 points.

**BSR/UL 94, Standard for Safety for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances**

**1. Clarify Table 9.1**

**PROPOSAL**

**PROPOSAL**

**Table 9.1**

*Material Classifications*

<b>Criteria</b>	<b>94-5VA</b>	<b>94-5VB</b>
Afterflame time plus afterglow time after fifth flame application for each individual bar specimen	≤60s	≤60s
Cotton indicator ignited by flaming particles or drops from any bar specimen	No	No
Burn-through (hole) of any plaque specimen	No	Yes <sup>a</sup>
<sup>a</sup> See 9.6.5 for conditions that define the formation of a hole.		

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**BSR/UL 125, Standard for Safety for Flow Control Valves for Anhydrous Ammonia and LP-GAS**

(CURRENT)

6.6 INTERNAL VALVE<sup>b</sup> – A container primary shutoff valve having the following features:

- a) — The seat and seat disc remain inside the container so that damage to parts exterior to the container or mating flange does not prevent effective sealing of the valve;
- b) — The valve is designed for the addition of a means for remote closure and is also designed for automatic shutoff when the flow through the valve exceeds its maximum rated flow capacity or when pump actuation differential pressure drops to a predetermined point.

<sup>b</sup>Reprinted with permission from NFPA 58-2008: Liquefied Petroleum Gas Code, Copyright ©2008, National Fire Protection Association, Quincy, MA. This reprinted material is not the complete and official position of the NFPA on the referenced subject, which is represented only the standard in its entirety.

(PROPOSED)

6.6 INTERNAL VALVE<sup>b</sup> - A container primary shutoff that can be closed remotely, which incorporates an internal excess flow valve with the seat and seat disc located within the container so that they remain in place should external damage occur to the valve.

<sup>b</sup>Reproduced with permission from NFPA 58-2014, LP-Gas Code Handbook, Copyright© 2013, National Fire Protection Association.

8.3 To comply with 8.1, a material for pressure-confining parts of valves for anhydrous ammonia and operating parts of all valves shall have a melting point (solidus temperature) of not less than 950°F (510°C) and a tensile strength of not less than 10,000 psi (68.9 MPa) at 400°F (204°C).

*Exception No. 1: A valve disc or soft seat, a seal ring, a diaphragm, a gasket or an internal operating part, is not required to comply with this requirement.*

*Exception No. 2: A handle or lever on a shut off service valve having an inlet connection not greater than ½ inch NPT is not required to comply with this requirement. See Impact Test, Section 38.*

*Exception No. 3: A lever on a hose nozzle valve is not required to comply with this requirement.*

23.2 The sample valve used in this test is to be rigidly anchored or otherwise supported. A length of Schedule 80 pipe, sufficient to provide for wrench engagement, is to be connected to a female pipe threaded section of the body. The male pipe threads shall have pipe joint sealing compound or polytetrafluoroethylene (PTFE) tape applied to them first or be coated as specified by the manufacturer, having first been lubricated with SAE No. 10 machine oil. Each pipe is then to be tightened across the valve body to the torque specified by the manufacturer or in Table 23.1, or which ever is greater.

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23.3 After the torque force has been applied to each connected pipe, the test sample is to be subjected to the External Leakage Test, Section 24. ~~When leakage is noted at the threaded joint between the pipe and the valve body, the joint is to be remade using a pipe joint sealing compound and the sample retested for external leakage.~~

34.2 One test sample of each size is to be subjected to the physical stresses normally imposed on or within a part as the result of assembly with other components. Samples with female tapered pipe threads, intended to be used for installing the product in the field, are to have the threads engaged and tightened to the torque specified in Table 23.1. Samples with female threads other than tapered pipe threads shall be torqued as specified by the manufacturer. ~~Teflon polytetrafluoroethylene (PTFE) tape or pipe compound is not to be used on any threads. Samples with male threads are evaluated in "as-received" condition.~~

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**BSR/UL 583, Standard for Safety for Electric-Battery-Powered Industrial Trucks****1. Addition of the 12mm flame test and the removal of Supplement SA****PROPOSAL**

14.7 A nonmetallic cover of a power source enclosure shall comply with the following requirements for Path II in the Standard for Polymeric Materials - Use in Electrical Equipment Evaluations, UL 746C:

- a) 12 mm (1/2 inch) or 20 mm (3/4 inch) flame test;

*Exception: This test is not required for material having a minimum flammability rating of V-1 or better.*

- b) Impact Test consisting of 3,100 foot-pounds (136 J) impacts. The test is to be conducted by dropping a steel sphere 4 inches (101.6 mm) in diameter and weighing 10 pound (4.5 kg) from a height of 10 feet (3.0 m) onto at least 2 corners and onto the center of the enclosure. When the power source is located under an overhead guard, the impact on the power source cover is reduced to 50 foot-pounds (68 J) produced by dropping a steel sphere weighing 10 pounds from a height of 5 feet (1.5 m). To reduce the likelihood of unintentional contact that may involve a risk of electric shock from an uninsulated live part, an opening in an enclosure shall comply with either of the following:

- 1) For an opening that has a minor dimension less than 1 inch (25.4 mm), such that an uninsulated live part shall not be contacted by the probe illustrated in Figure 14.1; or
- 2) For an opening that has a minor dimension of 1 inch (25.4 mm) or more, such that an uninsulated live part shall be spaced from the opening as specified in Table 14.1.

34.3 A nonmetallic material used to provide an enclosure shall be phenolic, an equivalent thermosetting material, or an equivalent thermoplastic material. Such a material shall comply with the following requirements for Path II in the Standard for Polymeric Materials - Use in Electrical Equipment Evaluations, UL 746C :

- a) 12 mm (1/2 inch) or 20 mm (3/4 inch) flame test;

*Exception: This test is not required for material having a minimum flammability rating of V-1 or better.*

- b) Impact Test ,
- c) Relative Thermal Index determined during the tests described in Temperature, Section 22, and



- d) Mold Stress Relief.
- 

## ~~SUPPLEMENT SA - NONMETALLIC MATERIALS USED IN INDUSTRIAL TRUCKS~~

### ~~GENERAL~~

#### ~~SA1 Scope~~

~~SA1.1 These requirements cover nonmetallic materials used to form outer enclosures, structural or functional parts, thermal and acoustical insulation, and miscellaneous parts within or contiguous to the engine compartment of industrial trucks. These requirements do not apply to materials used as electrical insulation nor to small parts such as control knobs, buttons, insulating bushings, resilient mounts, clamps, hydraulic hoses, water hoses, and pulley belts.~~

### ~~FLAMMABILITY TESTS~~

#### ~~SA2 Test Procedure~~

~~SA2.1 The test is to be conducted employing the apparatus and test method described in the requirements for the vertical burning tests for classifying materials in the Standard for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances, [UL 94](#), except that samples of the complete finished part are to be tested with the flame applied to areas of the part judged to be most critical with respect to ignition.~~

#### ~~SA3 Vertical Burning Test for Classifying Materials V-0 or V-1~~

~~SA3.1 MATERIALS CLASSED V-0 – Materials classed V-0 shall (also see SA3.3) not have:~~



- a) ~~Any specimens that burn with flaming combustion for more than 10 seconds after each application of the test flame.~~
- b) ~~A total flaming combustion time exceeding 50 seconds for the 10 flame applications for each set of 5 specimens.~~
- c) ~~Any specimens that burn with flaming or glowing combustion up to the holding clamp.~~
- d) ~~Any specimens that drip flaming particles that ignite the dry absorbent surgical cotton located 12 inches (305 mm) below the test specimen.~~
- e) ~~Any specimens with glowing combustion that persists beyond 30 seconds after the second removal of the test flame.~~

~~SA3.2 MATERIALS CLASSED V-1—Materials classed V-1 shall (also see SA3.3) not have:~~

- a) ~~Any specimens that burn with flaming combustion for more than 30 seconds after each application of the test flame.~~
- b) ~~A total flaming combustion time exceeding 250 seconds for the 10 flame applications for each set of 5 specimens.~~
- c) ~~Any specimens that burn with flaming or glowing combustion up to the holding clamp.~~
- d) ~~Any specimens that drip flaming particles that ignite the dry absorbent surgical cotton located 12 inches (305 mm) below the test specimen.~~
- e) ~~Any specimens with glowing combustion that persists beyond 60 seconds after the second removal of the test flame.~~

~~SA3.3 If only one specimen from a set of five specimens fails to comply with the requirements, another set of five specimens are to be tested. In the case of the total number of seconds of flaming, an additional set of five specimens are to be tested if the totals are in the range of 51–55 seconds for V-0 and 251–255 seconds for V-1. All specimens from this second set shall comply with the appropriate requirements in order for the material in that thickness to be classified V-0 or V-1.~~

#### **SA4 Enclosure Flammability – 3/4-Inch Flame Test**

## SA4.1 Test procedure

~~SA4.1.1 The test is to be conducted employing the apparatus and test method described in the requirements for the enclosure flammability - 3/4 inch flame tests for classifying materials in the Standard for Polymeric Materials - Use in Electrical Equipment Evaluations, [UL 746C](#).~~

~~SA4.1.2 Two 30-second applications of the tip of the 3/4 inch (19.1 mm) flame are to be made to each section of the enclosure selected as indicated above, with 1 minute intervals between the applications. A supply of technical grade methane gas is to be used with a regulator and meter for uniform gas flow.~~

~~SA4.1.3 The enclosure shall not flame for more than 1 minute after two 30-second applications of a test flame, with an interval of 1 minute between applications of the flame. The results are not acceptable if the sample is completely consumed.~~

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**BSR/UL 1577, Standard for Safety for Optical Isolators**

17.2 The production-line test potential shall be no less than either the rated dielectric isolation voltage for 60 seconds or 120 percent of the rated dielectric isolation voltage for one second.

17.3 The tolerance for the production line dielectric shall be minus 0, plus 5 percent.

1.6 A product that contains features, characteristics, components, materials, or systems new or different from those covered by the requirements in this standard, and that involves a risk of fire or of electric shock or injury to persons shall be evaluated using appropriate additional component and end-product requirements to maintain the level of safety as originally anticipated by the intent of this standard. A product whose features, characteristics, components, materials, or systems conflict with specific requirements or provisions of this standard does not comply with this standard. Revision of requirements shall be proposed and adopted in conformance with the methods employed for development, revision, and implementation of this standard.

13.2 The air oven is to be essentially as indicated in the Standard Specification for Forced-Convection Laboratory Ovens for Evaluation of Electrical Insulation, ASTM D5423 (Type II ovens) and the Standard Test Methods for Forced-Convection Laboratory Ovens for Evaluation of Electrical Insulation, ASTM D5374. A portion of the air may be recirculated, but a substantial amount of air is to be admitted continuously to maintain an essentially normal air content surrounding the representative optical isolators. The oven is to be adjusted to achieve 100 - 200 complete fresh-air changes per hour.

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