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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 2, 2014

### NSF (NSF International)

#### Revision

BSR/NSF 21-201x (i6r3), Thermoplastic Refuse Containers (revision of ANSI/NSF 21-2012)

This Standard contains sanitation requirements for new thermoplastic refuse containers intended for the indoor and outdoor storage of refuse.

Thermoplastic refuse container materials and components covered under other NSF or ANSI/NSF Standards or Criteria shall also comply with the requirements in the standard. This Standard is not intended to restrict new unit design, provided that such design meets the minimum specifications.

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

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 24-201x (i10r1), Plumbing System Components for Recreational Vehicles (revision of ANSI/NSF 24-2010)

This Standard covers pipe, fittings, valves, traps, vents, tanks, pumps, connectors, fixtures, appliances, and similar appurtenances used in a plumbing system of a recreational vehicle.

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

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

### NSF (NSF International)

#### Revision

BSR/NSF 170-201x (i17r1), Glossary of Food Equipment Terminology (revision of ANSI/NSF 170-2014)

Definitions covered by this Standard consist of terminology related to food equipment, including terms describing equipment, materials, design, construction, and performance testing. This Standard includes common definitions of terms used throughout NSF Food Equipment and Sanitation Standards.

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

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 342-201x (i8r1), Sustainability Assessment for Wallcoverings Products (revision of ANSI/NSF 342-2012)

The overall purpose of this Standard is to facilitate the thorough communication of information that is verifiable, accurate, and credible associated with the production, distribution, and use of wallcovering products. Such communication is expected to encourage the demand for and supply of products that cause less impact on the environment and society, thereby stimulating the potential for market-driven continuous improvement. The standard is voluntary and encourages inclusive participation in the production and distribution of sustainable wallcovering products within the supply chain.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Jessica Slomka, (734) 214-6219, [jslomka@nsf.org](mailto:jslomka@nsf.org)

### UL (Underwriters Laboratories, Inc.)

#### New Standard

BSR/UL 4200A-201x, Standard for Safety for Products Incorporating Button or Coin Cell Batteries of Lithium and Similar Technologies (new standard)

(1) Proposed First Edition of the Standard for Safety for Products Incorporating Button or Coin Cell Batteries of Lithium and Similar Technologies, UL 4200A.

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

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

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 96-201x, Standard for Safety for Lightning Protection Components (revision of ANSI/UL 96-2010a)

(1) Permanent compression connectors for Class II installations; (2) Additions and revisions to Table 9.1 and Table 19.1; (3) Correction in paragraph 17.1 to include additional reference.

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

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

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 252-201x, Standard for Safety for Compressed Gas Regulators (revision of ANSI/UL 252-2013)

Proposal to add requirements for backpressure regulators.

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

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

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 300-201X, Standard for Safety for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment (revision of ANSI/UL 300-2013a)

This re-circulation proposal provides revisions to the UL 300 proposal dated 5-16-14.

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

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 514C-201x, Standard for Safety for Nonmetallic Outlet Boxes, Flush-Device Boxes, and Covers (revision of ANSI/UL 514C-2014)

(1) Clarification of the use of sealing compound for damming scrub-water solution when conducting the Scrub-Water Exclusion Test; (4) Revisions to improve the correlation of fixture/luminaire and ceiling-suspended fan support requirements between UL 514C and the Standard for Metallic Outlet Boxes, UL 514A; (5) Revisions to improve the correlation of floor box requirements between UL 514C and the Standard for Metallic Outlet Boxes, UL 514A.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Susan Malohn, (847) 664-1725, [Susan.P.Malohn@ul.com](mailto:Susan.P.Malohn@ul.com)

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

BSR/UL 817-201X, Standard for Safety for Cord Sets and Power-Supply Cords (Proposal dated 10-03-14) (revision of ANSI/UL 817-2014c)

This recirculation provides revisions to address a typo in 5.3.6.1 and to correct a standard reference in 5.4.7.2.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Ross Wilson, (919) 549-1511, [Ross.Wilson@ul.com](mailto:Ross.Wilson@ul.com)

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

BSR/UL 1069-201x, Standard for Safety for Hospital Signaling and Nurse Call Equipment (revision of ANSI/UL 1069-2012)

Proposed new test methods for frequency hopping spread spectrum technologies; proposal to provide an additional option (the use of a symbol) for marking a device, such as a switch, intended for emergency service; proposed changes to the battery life test; reliability calculation, and editorial corrections.

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

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

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

BSR/UL 1310-201X, Standard for Safety for Class 2 Power Units (Proposal dated 10-3-14) (revision of ANSI/UL 1310-2014)

Proposal includes the addition of requirements to address a flush device cover plate with integral power supply with Class 2 output connectors with or without a night light.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Jonette Herman, (919) 549-1479, [Jonette.A.Herman@ul.com](mailto:Jonette.A.Herman@ul.com)

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

BSR/UL 1696-201X, Standard for Safety for Nonmetallic Protection Tubing (NMPT) (revision of ANSI/UL 1696-2009)

Recirculation of changes (document dated 10/3/14) for the proposed Second Edition of the Standard for Mechanical Protection Tubing (MPT) and Fittings, UL 1696.

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

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

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

BSR/UL 1838-201x, Standard for Safety for Low Voltage Landscape Lighting Systems (revision of ANSI/UL 1838-2014)

(1) Editorial revision; (2) Power supply cord types; (3) Location of marking for wet location power units with doors.

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

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

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

BSR/UL 2239-201x, Standard for Hardware for the Support of Conduit, Tubing, and Cable (revision of ANSI/UL 2239-2009)

(5) Additional requirements for protector bushings; (6) Additional requirements for protector plates; (8) Deletion of insulated standoff requirements for Canada in accordance with the CEC.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Susan Malohn, (847) 664-1725, [Susan.P.Malohn@ul.com](mailto:Susan.P.Malohn@ul.com)

**Comment Deadline: November 17, 2014****ANS (American Nuclear Society)****Reaffirmation**

BSR/ANS 14.1-2004 (R201x), Operation of Fast Pulse Reactors (reaffirmation of ANSI/ANS 14.1-2004 (R2009))

This standard is for those involved in the design, operation, and review of fast pulse reactors. It has been formulated in general terms to be applicable to all current fast pulse reactors. This standard does not apply to periodically pulsed reactors or booster assemblies.

Single copy price: \$20.00

Obtain an electronic copy from: [scook@ans.org](mailto:scook@ans.org)

Order from: Sue Cook, (708) 579-8210, [orders@ans.org](mailto:orders@ans.org)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Patricia Schroeder, (708) 579-8269, [pschroeder@ans.org](mailto:pschroeder@ans.org)

**API (American Petroleum Institute)****New Standard**

BSR/API Standard 661-201x, Petroleum, Petrochemical, and Natural Gas Industries - Air-cooled Heat Exchangers (new standard)

It is intended for proposed ANSI/API 661 to replace without technical changes, API Standard 661, 7th Ed. Editions of Std. 661 prior to the 7th were American National Standards. This proposed ANS will give requirements and recommendations for the design, materials, fabrication (including welding), inspection, testing, noise levels and preparation for shipment of air-cooled heat exchangers with horizontal bundles used in the petroleum, petrochemical, and natural gas industries. It should be used by equipment manufacturers, vendors and purchasers to develop and define specifications that must be conveyed when building, selling, and buying air-cooled heat exchangers.

Single copy price: Free

Obtain an electronic copy from: <http://mycommittees.api.org/standards/cre/schte/default.aspx>

Order from: Nathaniel Wall, (202) 682-8157, [walln@api.org](mailto:walln@api.org)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: <http://ballots.api.org/login.aspx>

(Enter Ballot ID Number: "3375", leave "Login ID Number" blank, hit submit and follow instructions.)

**ASABE (American Society of Agricultural and Biological Engineers)****Revision**

BSR/ASAE S279.18 MONYEAR-201x, Lighting and Marking of Agricultural Equipment on Highways (revision of ANSI/ASAE S279.17-2013)

This Standard provides specifications for lighting and marking of agricultural equipment whenever such equipment is operating or is traveling on a highway.

Single copy price: \$55.00

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

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

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

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

BSR X9.6-201x, Committee on Uniform Security Identification Procedures Securities Identification (CUSIP) (revision of ANSI X9.6-2008)

This standard provides specifications for uniquely identifying an eligible issue. It shall serve as the common denominator in communications among users for completion of transactions and exchange of information. It specifies both the configuration of the number and the meaning attached to each portion.

Single copy price: \$100.00

Obtain an electronic copy from: [janet.busch@x9.org](mailto:janet.busch@x9.org)

Order from: Janet Busch, (410) 267-7707, [janet.busch@x9.org](mailto:janet.busch@x9.org)

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

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

BSR/ASHRAE Standard 200P-201x, Methods of Testing Chilled Beams (new standard)

The purpose of this standard is to define laboratory methods of testing chilled beams to determine performance. This standard specifies test instrumentation, facilities, installation methods, and procedures for determining the performance of chilled beams. This is a review of Independent Substantive Changes.

Single copy price: \$35.00

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

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

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

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

BSR/ASHRAE Standard 17-2008, Method of Testing Capacity of Thermostatic Refrigerant Expansion Valves (revision of ANSI/ASHRAE Standard 17-2008)

This revision of Standard 17-2008 prescribes a method of testing capacity of thermostatic expansion valves for use in air-conditioning and refrigeration systems.

Single copy price: \$35.00

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

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

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

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

ANSI/ASHRAE Standard 87.3-2001 (R2010), Method of Testing Propeller Fan Vibration - Diagnostic Test Methods (withdrawal of ANSI/ASHRAE Standard 87.3-2001 (R2010))

This standard establishes laboratory and on-site diagnostic test methods for identifying causes of vibration problems involving direct-driven propeller fans for condenser cooling in air-conditioning units, heat pumps, and chillers.

Single copy price: \$35.00

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

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

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

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

BSR/ASME B16.36-201x, Orifice Flanges (revision of ANSI/ASME B16.36-2009)

This Standard covers pressure-temperature ratings, materials, dimensions, tolerances, testing, and marking of flanges that have orifice pressure differential connection.

Single copy price: Free

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

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Richard Lucas, (212) 591-7541, [lucasr@asme.org](mailto:lucasr@asme.org)

**ASSE (ASC Z88) (American Society of Safety Engineers)****New Standard**

BSR/ASSE Z88.2-201X, Practices for Respiratory Protection (new standard)

This standard sets forth minimally accepted practices for occupational respirator use; provides information and guidance on the proper selection, use, and maintenance of respirators; and contains requirements for establishing, implementing and evaluating respirator programs. The standard covers the use of respirators to protect persons against the inhalation of harmful air contaminants and against oxygen-deficient atmospheres in the workplace.

Single copy price: \$57.00

Obtain an electronic copy from: [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

Order from: Timothy Fisher, (847) 768-3411, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

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

**CEA (Consumer Electronics Association)****New Standard**

BSR/CEA 2048-201x, Host and Router Profiles for IPv6 (new standard)

Develop an IPv6 host and router profiles requirements standard.

Single copy price: \$58.00

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

Order from: Veronica Lancaster, (703) 907-7697, [vlancaster@ce.org](mailto:vlancaster@ce.org); [dwilson@ce.org](mailto:dwilson@ce.org)

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

**CEA (Consumer Electronics Association)****New Standard**

BSR/CEA J-STD 710-201x, Audio, Video and Control Architectural Drawing Symbols Standard (new standard)

To create a set of unified blueprint icons which represent all facets of pre-wire and installation of electronic systems products and devices. This project does not cover anything outside of architectural blueprints.

Single copy price: \$150.00

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

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

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

**CEA (Consumer Electronics Association)****Reaffirmation**

BSR/CEA 709.3-1999 (R201x), Free-Topology Twisted-Pair Channel Specification (reaffirmation of ANSI/CEA 709.3-1999 (R2004))

This document specifies the CEA-709.3 free-topology twisted-pair channel and serves as a companion document to the CEA-709.1 Control Network Protocol Specification. The channel supports communication at 78.125 kbps between multiple nodes, each of which consists of a transceiver, a protocol processor and application processor, a power supply and application electronics.

Single copy price: \$72.00

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

Order from: Veronica Lancaster, (703) 907-7697, [vlancaster@ce.org](mailto:vlancaster@ce.org); [dwilson@ce.org](mailto:dwilson@ce.org)

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

**CEA (Consumer Electronics Association)****Revision**

BSR/CEA 774-C-201x, TV Receiving Antenna Performance Presentation and Measurement (revision and redesignation of ANSI/CEA 774-B-2009)

This standard defines test and measurement procedures for use by manufacturers of television receive antennas who wish to categorize their antennas in accordance with CEA-2028-A, Color Codes for Outdoor TV Receiving Antennas, for use with the CEA TV Antenna Selector Program [www.AntennaWeb.org](http://www.AntennaWeb.org). Essential elements include procedures to determine antenna gain, front-to-back ratio, average gain to null ratio, directivity and distortion performance of active antennas with integrated amplifiers.

Single copy price: \$58.00

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

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

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

**CEA (Consumer Electronics Association)****Revision**

BSR/CEA 2028-B-201x, Color Codes for Outdoor TV Receiving Antennas (revision and redesignation of ANSI/CEA 2028-A-2009)

This standard defines color codes to be associated with minimum performance parameters of outdoor television (TV) receiving antennas. When used in conjunction with the CEA TV antenna selector program at [www.AntennaWeb.org](http://www.AntennaWeb.org), these color codes can help both consumers and professional installers select appropriate outdoor TV antennas for their particular reception environments.

Single copy price: \$60.00

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

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

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

**CEA (Consumer Electronics Association)****Revision**

BSR/CEA 2032-B-201x, Indoor TV Receiving Antenna Performance Standard (revision and redesignation of ANSI/CEA 2032-A-2009)

This standard defines test and measurement procedures for determining the performance of indoor TV receiving antennas.

Single copy price: \$51.00

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

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

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

**ISA (International Society of Automation)****Revision**

BSR/ISA 77.70.02-201x, Fossil Fuel Power Plant Instrument Piping Installation (revision of ANSI/ISA 77.70.02-2005 (R2010))

This standard covers the mechanical design, engineering, fabrication, installation, testing, and protection of fossil power plant instrumentation sensing and control lines. The boundaries of this standard span the process tap root valve to the instrument connection. This standard applies to all fluid media (liquid, gas, or vapor).

Single copy price: \$50.00

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

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

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

### Withdrawal

INCITS/ISO/TS 19138:2006 [2010], Geographic information - Data quality measures (withdrawal of INCITS/ISO/TS 19138:2006 [2010])

This Technical Specification defines a set of data quality measures. These can be used when reporting data quality for the data quality subelements identified in ISO 19113. Multiple measures are defined for each data quality subelement, and the choice of which to use will depend on the type of data and its intended purpose. The data quality measures are structured so that they can be maintained in a register established in conformance with ISO 19135. This Technical Specification does not attempt to describe every possible data quality measure, only a set of commonly used ones.

Single copy price: \$60.00

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

Order from: <http://webstore.ansi.org>

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

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

### Revision

BSR C136.3-201X, Standard for Roadway and Area Lighting - Luminaire Attachments (revision of ANSI C136.3-2005 (R2009))

This standard covers attachment features of luminaires used in roadway and area lighting equipment. The features covered apply to luminaires that are side, post-top or pendant-mounted.

Single copy price: \$36.00

Obtain an electronic copy from: [megan.hayes@nema.org](mailto:megan.hayes@nema.org)

Order from: Megan Hayes, (703) 841-3285, [megan.hayes@nema.org](mailto:megan.hayes@nema.org)

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

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

### Reaffirmation

BSR/NEMA WC 61-1992 (R201x), Transfer Impedance Testing (reaffirmation of ANSI/NEMA WC 61-1992 (R2004))

This standard is intended to provide a reliable surface transfer impedance test method for coaxial cables and shielded multiconductor cables over the frequency range from DC to 100 MHz.

Single copy price: \$57.00

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

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

## NSF (NSF International)

### New Standard

BSR/NSF 363-201x (i1), Good Manufacturing Practices (GMP) for Pharmaceutical Excipients (new standard)

This Standard is intended to define Good Manufacturing Practices (GMP) for excipient manufacture and distribution for use in drug products. It sets minimum requirements for GMP applicable to all commercially available excipients.

Single copy price: Free

Obtain an electronic copy from: [http://standards.nsf.org/apps/group\\_public/document.php?document\\_id=25020](http://standards.nsf.org/apps/group_public/document.php?document_id=25020)

Order from: Rachel Brooker, (734) 827-6866, [rbrooker@nsf.org](mailto:rbrooker@nsf.org)

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

## NSF (NSF International)

### Revision

BSR/NSF 14-201x (i55r1), Plastics piping system components and related materials (revision of ANSI/NSF 14-2014)

This Standard establishes minimum physical, performance, and health effects requirements for plastic piping system components and related materials. These criteria were established for the protection of public health and the environment.

Single copy price: Free

Obtain an electronic copy from: [mcostello@nsf.org](mailto:mcostello@nsf.org)

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

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

## NSF (NSF International)

### Revision

BSR/NSF 24-201x (i8r1), Plumbing System Components for Recreational Vehicles (revision of ANSI/NSF 24-2010)

This Standard covers pipe, fittings, valves, traps, vents, tanks, pumps, connectors, fixtures, appliances, and similar appurtenances used in a plumbing system of a recreational vehicle.

Single copy price: Free

Obtain an electronic copy from: [http://standards.nsf.org/apps/group\\_public/document.php?document\\_id=25492&wg\\_abbrev=plastics\\_rv\\_jc](http://standards.nsf.org/apps/group_public/document.php?document_id=25492&wg_abbrev=plastics_rv_jc)

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

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

## NSF (NSF International)

### Revision

BSR/NSF 60-201x (i64r1), Drinking Water Treatment Chemicals - Health Effects (revision of ANSI/NSF 60-2013)

This Standard establishes minimum health effects requirements for the chemicals, the chemical contaminants, and the impurities that are directly added to drinking water from drinking water treatment chemicals. This Standard does not establish performance or taste and odor requirements for drinking water treatment chemicals.

Single copy price: Free

Obtain an electronic copy from: [http://standards.nsf.org/apps/group\\_public/document.php?document\\_id=24691&wg\\_abbrev=dwa-tc\\_jc](http://standards.nsf.org/apps/group_public/document.php?document_id=24691&wg_abbrev=dwa-tc_jc)

Order from: Monica Leslie, (734) 827-5643, [mleslie@nsf.org](mailto:mleslie@nsf.org)

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

## NSF (NSF International)

### Revision

BSR/NSF 60-201x (i65r1), Drinking Water Treatment Chemicals - Health Effects (revision of ANSI/NSF 60-2013)

This Standard establishes minimum health effects requirements for the chemicals, the chemical contaminants, and the impurities that are directly added to drinking water from drinking water treatment chemicals. This Standard does not establish performance or taste and odor requirements for drinking water treatment chemicals.

Single copy price: Free

Obtain an electronic copy from: [http://standards.nsf.org/apps/group\\_public/document.php?document\\_id=25428&wg\\_abbrev=dwa-tc\\_jc](http://standards.nsf.org/apps/group_public/document.php?document_id=25428&wg_abbrev=dwa-tc_jc)

Order from: Monica Leslie, (734) 827-5643, [mleslie@nsf.org](mailto:mleslie@nsf.org)

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

**NSF (NSF International)****Revision**

BSR/NSF 61-201x (i115r1), Drinking Water System Components - Health Effects (revision of ANSI/NSF 61-2013)

This Standard establishes minimum health effects requirements for the chemical contaminants and impurities that are indirectly imparted to drinking water from products, components, and materials used in drinking water systems. This Standard does not establish performance, taste and odor, or microbial growth support requirements for drinking water system products, components, or materials.

Single copy price: Free

Obtain an electronic copy from: [http://standards.nsf.org/apps/group\\_public/document.php?document\\_id=25428&wg\\_abbrev=dwa-tc\\_jc](http://standards.nsf.org/apps/group_public/document.php?document_id=25428&wg_abbrev=dwa-tc_jc)

Order from: Monica Leslie, (734) 827-5643, [mleslie@nsf.org](mailto:mleslie@nsf.org)

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

**NWRA (National Windshield Repair Association)****New Standard**

BSR/NWRA BIS 001-201x, Windshield Repair Break Identification Standard (new standard)

Develop a standard for classifying breakage in windshields and automotive glass.

Single copy price: \$10.00

Obtain an electronic copy from: [info@nwrassn.org](mailto:info@nwrassn.org) or [www.nwrassn.org](http://www.nwrassn.org)

Order from: Janeen Mulligan, (540) 720-7484, [jmulligan@nwrassn.org](mailto:jmulligan@nwrassn.org)

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

**PLASA (PLASA North America)****New Standard**

BSR E1.51-201x, The Selection, Installation, and Use of Single-Conductor Portable Power Feeder Cable Systems for Use at 600 Volts Nominal or Less for the Distribution of Electrical Energy in the Television, Film, Live Performance, and Event Industries in Canada (new standard)

E1.51 is intended to offer guidance in accordance with existing applicable standards and regulations in Canada on how to select, install, use and maintain single-conductor portable feeder cables used to supply power for television, film, live performance, and special events in Canada.

Single copy price: Free

Obtain an electronic copy from: [http://tsp.plasa.org/tsp/documents/public\\_review\\_docs.php](http://tsp.plasa.org/tsp/documents/public_review_docs.php)

Order from: Karl Ruling, (212) 244-1505, [karl.ruling@plasa.org](mailto:karl.ruling@plasa.org)

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

**SMACNA (Sheet Metal and Air-Conditioning Contractors' National Association)****New Standard**

BSR/SMACNA 007-201X, Residential Comfort System Installation Standards (new standard)

The document will provide installation standards for residential heating, ventilating and air conditioning (HVAC) systems. It will include the most current mechanical and control technology so contractors and designers can design, construct, and install from the simplest to state-of-the-art HVAC systems. Forced-air heating, heat pumps, automatic controls and thermostats, flues, vents, sound and vibration, air cleaning, and others subjects and technologies appropriate for this new century will be included.

Single copy price: Free

Obtain an electronic copy from: <https://www.smacna.org/technical>

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Sue Baker, (703) 803-2980, [sbaker@smacna.org](mailto:sbaker@smacna.org)

**SPRI (Single Ply Roofing Institute)****Revision**

BSR/SPRI RD-1-201x, Performance Standard for Retrofit Drains (revision of ANSI/SPRI RD-1-2009)

This standard is a reference on retrofit roof drains which are designated for installation in existing drain plumbing on existing roofs. This standard does not address roof design criteria.

Single copy price: \$5.00

Obtain an electronic copy from: Linda King, [info@spri.org](mailto:info@spri.org)

Order from: [info@spri.org](mailto:info@spri.org)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Linda King, (781) 647-7026, [info@spri.org](mailto:info@spri.org)

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

BSR/TAPPI T 409 sp-201x, Machine direction of paper and paperboard (new standard)

This Standard Practice describes several procedures for determining the machine direction of most grades of paper and paperboard. Most of the procedures embody the principle that fibers tend to be aligned in the machine direction of the sheet, and this alignment produces observable effects. However, the extent of restraint used in drying can be very important in determining machine direction.

Single copy price: Free

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

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

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

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

BSR/TAPPI T 573 sp-201x, Accelerated temperature aging of printing and writing paper by dry oven exposure apparatus (new standard)

This standard practice describes a laboratory procedure for accelerating the aging of printing and writing paper within sealed glass tubes through exposure to elevated temperature within an oven.

Single copy price: Free

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

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

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

**TIA (Telecommunications Industry Association)****Revision**

BSR/TIA 102.AABF-D-201x, Link Control Word Formats and Messages (revision and redesignation of ANSI/TIA 102.AABF-C-2011)

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

Single copy price: \$112.00

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

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

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

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

BSR/UL 248-3-2005 (R201x), Standard for Safety for Low-Voltage Fuses - Part 3: Class CA and CB Fuses (reaffirmation of ANSI/UL 248-3-2005 (R2010))

Reaffirmation of ANSI Approval for UL 248-3.

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: Casey Granata, (919) 549-1054, [Casey.Granata@UL.Com](mailto:Casey.Granata@UL.Com)

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

BSR/UL 539-2009 (R201x), Standard for Safety for Single and Multiple Station Heat Alarms (reaffirmation of ANSI/UL 539-2009)

Reaffirmation of current ANS which covers heat-actuated, single- and multiple-station heat alarms intended for indoor installation in accordance with the National Fire Alarm and Signaling Code, NFPA 72.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

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

**Comment Deadline: December 2, 2014****ASME (American Society of Mechanical Engineers)****Reaffirmation**

BSR/ASME B18.2.3.3M-2007 (R201x), Metric Heavy Hex Screws (reaffirmation of ANSI/ASME B18.2.3.3M-2007)

This Standard covers the complete general and dimensional data for metric heavy hex screws.

Single copy price: \$35.00

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

Order from: For Reaffirmations and Withdrawn standards, please view our catalog at <http://www.asme.org/kb/standards>

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Calvin Gomez, (212) 591-7021, [gomezc@asme.org](mailto:gomezc@asme.org)

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

BSR/ASME A112.19.12-201X, Wall Mounted, Pedestal Mounted, Adjustable, Elevating, Tilting, and Pivoting Lavatory, Sink, and Shampoo Bowl Carrier Systems and Drain Waste Systems (revision of ANSI/ASME A112.19.12-2011)

This Standard establishes physical requirements and tests addressing structural strength; adjustments; materials; drain-line hydraulics; mechanical, material, testing, marking, and document at ion requirements for wall mounted and pedestal mounted adjustable, elevating, tilting and pivoting lavatory, sink, and shampoo bowl carrier systems intended to facilitate use by individuals who are physically challenged. The use of alternate materials or methods are permitted, provided the proposed material and method complies with the performance requirements and intent of this Standard.

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)

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

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

BSR/IEEE C57.12.52-201x, Standard for Sealed Dry-Type Power Transformers, 501 kVA and Higher, Three-Phase, with High-Voltage 601 to 34500 Volts, Low-Voltage 208Y/120 to 4160 Volts -General Requirements (new standard)

This standard is for sealed dry-type transformers, 501 kVA and larger, with high-voltage 601 to 34500 Volts inclusive and low-voltage 208Y/120 to 4160 volts inclusive. This standard is intended to set forth characteristics relating to performance, limited electrical and mechanical interchangeability, and to assist in the proper selection of such equipment.

Single copy price: 45.00 (pdf); \$55.00 (printed)

Order from: +1-800-678-4333; online: <http://standards.ieee.org/store>

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



# 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.

## ACMI (Art & Creative Materials Institute)

**Office:** 99 Derby Street  
Suite 200  
Hingham, MA 02043

**Contact:** David Baker

**Phone:** (202) 253-4347

**E-mail:** dbaker@acminet.org

BSR Z356.1-201x, Crayons (new standard)

BSR Z356.2-201x, Chalk (new standard)

BSR Z356.3-201x, Adhesives (new standard)

BSR Z356.4-201x, Modeling Materials (new standard)

## AMCA (Air Movement and Control Association)

**Office:** 30 West University Drive  
Arlington Heights, IL 60004-1893

**Contact:** Amanda Muledy

**Phone:** (847) 704-6295

**Fax:** (847) 253-0088

**E-mail:** amuledy@amca.org

BSR/AMCA Standard 500-L-20XX, Laboratory Methods of Testing Louvers for Rating (revision and redesignation of ANSI/AMCA 500-L-2012)

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

**Office:** 1791 Tullie Circle NE  
Atlanta, GA 30329

**Contact:** Tanisha Meyers-Lisle

**Phone:** (678) 539-1111

**Fax:** (678) 539-2111

**E-mail:** tmlisle@ashrae.org

ANSI/ASHRAE Standard 87.3-2001 (R2010), Method of Testing Propeller Fan Vibration - Diagnostic Test Methods (withdrawal of ANSI/ASHRAE Standard 87.3-2001 (R2010))

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

BSR/ASHRAE Standard 158.1-201X, Method of Testing Capacity of Refrigerant Solenoid Valves (revision of ANSI/ASHRAE Standard 158.1-2012)

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

**Office:** 600 N Plankinton Ave  
Milwaukee, WI 53203

**Contact:** Julie Sharp

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

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

BSR/ASQ ISO 22514-1-2014, Statistical methods in process management - Capability and performance - Part 1: General principles and concepts (identical national adoption of ISO 22514-1:2014)

BSR/ASQ/ISO 3534-3-2013, Statistics - Vocabulary and symbols - Part 3: Design of experiments (identical national adoption of ISO 3534-3:2013)

BSR/ASQ/ISO 3534-4-2014, Statistics - Vocabulary and symbols - Part 4: Survey sampling (identical national adoption of ISO 3534-4:2014)

BSR/ASQ/ISO 7870-2-2013, Control charts - Part 2: Shewhart control charts (identical national adoption of ISO 7870-2:2013)

BSR/ASQ/ISO 7870-3-2012, Control charts - Part 3: Acceptance control charts (identical national adoption of ISO 7870-3:2012)

BSR/ASQ/ISO 7870-4-2011, Control charts - Part 4: Cumulative sum charts (identical national adoption of ISO 7870-4:2011)

BSR/ASQ/ISO 7870-5-2014, Control charts - Part 5: Specialized control charts (identical national adoption of ISO 7870-5:2014)

BSR/ASQ/ISO 16269-4-2010, Statistical interpretation of data - Part 4: Detection and treatment of outliers (identical national adoption of ISO 16269-4:2010)

BSR/ASQ/ISO 16269-6-2014, Statistical interpretation of data - Part 6: Determination of statistical tolerance intervals (identical national adoption of ISO 16269-6:2014)

BSR/ASQ/ISO 16269-7-2001, Statistical interpretation of data - Part 7: Median - Estimation and confidence intervals (identical national adoption of ISO 16269-7:2001)

BSR/ASQ/ISO 16269-8-2004, Statistical interpretation of data - Part 8: Determination of prediction intervals (identical national adoption of ISO 16269-8:2004)

BSR/ASQ/ISO 22514-2-2013, Statistical methods in process management - Capability and performance - Part 2: Process capability and performance of time-dependent process models (identical national adoption of ISO 22514-2:2013)

BSR/ASQ/ISO 22514-3-2008, Statistical methods in process management - Capability and performance - Part 3: Machine performance studies for measured data on discrete parts (identical national adoption of ISO 22514-3:2008)

BSR/ASQ/ISO 22514-6-2013, Statistical methods in process management - Capability and performance - Part 6: Process capability statistics for characteristics following a multivariate normal distribution (identical national adoption of ISO 22514-6:2013)

BSR/ASQ/ISO 22514-7-2012, Statistical methods in process management - Capability and performance - Part 7: Capability of measurement processes (identical national adoption of ISO 22514-7:2012)

BSR/ASQ/ISO 22514-8-2014, Statistical methods in process management - Capability and performance - Part 8: Machine performance of a multi-state production process (identical national adoption of ISO 22514-8:2014)

BSR/ASQ/ISO/TS 16949-2009, Quality management systems - Particular requirements for the application of ISO 9001:2008 for automotive production and relevant service part organizations (identical national adoption of ISO/TC 16949:2009)

#### **ASSE (ASC Z88) (American Society of Safety Engineers)**

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

**Contact:** *Timothy Fisher*

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

**Fax:** (847) 296-9221

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

BSR/ASSE Z88.2-201X, Practices for Respiratory Protection (new standard)

Obtain an electronic copy from: Tim Fisher

#### **ISA (International Society of Automation)**

**Office:** PO Box 12277, 67 Alexander Drive  
Research Triangle Park, NC 27709

**Contact:** *Eliana Brazda*

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

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

**E-mail:** [ebrazda@isa.org](mailto:ebrazda@isa.org)

BSR/ISA 77.70.02-201x, Fossil Fuel Power Plant Instrument Piping Installation (revision of ANSI/ISA 77.70.02-2005 (R2010))

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

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

**Contact:** *Barbara Bennett*

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

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

**E-mail:** [comments@itic.org](mailto:comments@itic.org)

INCITS/ISO/IEC 26300:2006/Cor 3:2014, Information technology - Open Document Format for Office Applications (OpenDocument) v1.0 - Technical Corrigendum 3 (identical national adoption of ISO/IEC 26300:2006/Cor 3:2014)

INCITS/ISO/IEC 26300:2006/Amd 1:2012/Cor 1:2014, Information technology - Open Document Format for Office Applications (OpenDocument) v1.0 - Amendment 1: Open Document Format for Office Applications (OpenDocument) v1.1 - Technical Corrigendum 1 (identical national adoption of ISO/IEC 26300:2006/Amd 1:2012/Cor 1:2014)

INCITS/ISO/TS 19138:2006 [2010], Geographic information - Data quality measures (withdrawal of INCITS/ISO/TS 19138:2006 [2010])

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

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

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

**Contact:** *Megan Hayes*

**Phone:** (703) 841-3285

**Fax:** (703) 841-3385

**E-mail:** [megan.hayes@nema.org](mailto:megan.hayes@nema.org)

BSR C136.3-201X, Standard for Roadway and Area Lighting - Luminaire Attachments (revision of ANSI C136.3-2005 (R2009))

Obtain an electronic copy from: [megan.hayes@nema.org](mailto:megan.hayes@nema.org)

#### **NSF (NSF International)**

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

**Contact:** *Mindy Costello*

**Phone:** (734) 827-6819

**Fax:** (734) 827-7875

**E-mail:** [mcostello@nsf.org](mailto:mcostello@nsf.org)

BSR/NSF 14-201x (i55r1), Plastics piping system components and related materials (revision of ANSI/NSF 14-2014)

Obtain an electronic copy from: [mcostello@nsf.org](mailto:mcostello@nsf.org)

BSR/NSF 342-201x (i8r1), Sustainability Assessment for Wallcoverings Products (revision of ANSI/NSF 342-2012)

#### **SMACNA (Sheet Metal and Air-Conditioning Contractors' National Association)**

**Office:** 4201 Lafayette Center Drive  
Chantilly, VA 20151-1209

**Contact:** *Sue Baker*

**Phone:** (703) 803-2980

**Fax:** (703) 803-3732

**E-mail:** [sbaker@smacna.org](mailto:sbaker@smacna.org)

BSR/SMACNA 007-201X, Residential Comfort System Installation Standards (new standard)

Obtain an electronic copy from: <https://www.smacna.org/technical>

#### **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](mailto:standards@tappi.org)

BSR/TAPPI T 454 om-201x (R201x), Turpentine test for voids in glassine and greaseproof papers (reaffirmation of ANSI/TAPPI T 454 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.AABF-D-201x, Link Control Word Formats and Messages  
(revision and redesignation of ANSI/TIA 102.AABF-C-2011)

Obtain an electronic copy from: standards@tiaonline.org

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

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

**Contact:** *Barbara Davis*

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

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

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

BSR/UL 252-201x, Standard for Safety for Compressed Gas Regulators  
(revision of ANSI/UL 252-2013)

Obtain an electronic copy from: www.comm-2000.com

BSR/UL 539-2009 (R201x), Standard for Safety for Single and Multiple  
Station Heat Alarms (reaffirmation of ANSI/UL 539-2009)

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

BSR/UL 817-201X, Standard for Safety for Cord Sets and Power-Supply  
Cords (Proposal dated 10-03-14) (revision of ANSI/UL 817-2014c)

Obtain an electronic copy from: www.comm-2000.com

BSR/UL 1069-201x, Standard for Safety for Hospital Signaling and  
Nurse Call Equipment (revision of ANSI/UL 1069-2012)

Obtain an electronic copy from: www.comm-2000.com

BSR/UL 1838-201x, Standard for Safety for Low Voltage Landscape  
Lighting Systems (revision of ANSI/UL 1838-2014)

Obtain an electronic copy from: www.comm-2000.com

# 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.

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

### **Reaffirmation**

ANSI/AAMI ST55-2010 (R2014), Table-top steam sterilizers (reaffirmation of ANSI/AAMI ST55-2010): 9/19/2014

ANSI/AAMI ST79-2010 (R2014), Comprehensive guide to steam sterilization and sterility assurance in health care facilities (reaffirmation of ANSI/AAMI ST79-2010, A1:2010, A2:2011, A3:2012, A4:2013): 9/23/2014

ANSI/AAMI ST15883-1-2009 (R2014), Washer-disinfectors - Part 1: General requirements, terms and definitions and tests (reaffirmation of ANSI/AAMI ST15883-1-2009): 9/26/2014

ANSI/AAMI/ISO 10993-6-2007 (R2014), Biological evaluation of medical devices - Part 6: Tests for local effects after implantation (reaffirmation of ANSI/AAMI/ISO 10993-6-2007 (R2010)): 9/24/2014

ANSI/AAMI/ISO 10993-9-1999 (R2014), Biological evaluation of medical devices - Part 9: Framework for identification and quantification of potential degradation products (reaffirmation of ANSI/AAMI/ISO 10993-9-1999 (R2005)): 9/23/2014

ANSI/AAMI/ISO 10993-11-2006 (R2014), Biological evaluation of medical devices - Part 11: Tests for systemic toxicity (reaffirmation of ANSI/AAMI/ISO 10993-11-2006 (R2010)): 9/24/2014

## **AGA (ASC Z380) (American Gas Association)**

### **Addenda**

ANSI/GPTC Z380.1-2012, Addendum No. 7-2014, Guide for Gas Transmission and Distribution Piping Systems (addenda to ANSI/GPTC Z380.1-2012): 9/26/2014

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

### **New Standard**

ANSI/APCO 1.112.1-2014, Best Practices for the Use of Social Media by Public Safety Communications (new standard): 9/19/2014

## **API (American Petroleum Institute)**

### **New Standard**

ANSI/API RP 3000-2014, Classifying and Loading of Crude Oil into Rail Tank Cars (new standard): 9/19/2014

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

### **Reaffirmation**

ANSI/ASA S2.25-2004 (R2014), Guide for the Measurement, Reporting, and Evaluation of Hull and Superstructure Vibration in Ships (reaffirmation of ANSI/ASA S2.25-2004 (R2009)): 9/24/2014

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

### **New National Adoption**

ANSI/ASABE AD5673-1-2014, Agricultural tractors and machinery - Power take-off drive shafts and power-input connection - Part 1: General manufacturing and safety requirements (national adoption with modifications of ISO 5673-1:2005): 9/24/2014

ANSI/ASABE AD5673-2-2014, Agricultural tractors and machinery - Power take-off drive shafts and power-input connection - Part 2: Specifications for use of PTO drive shafts, and position and clearance of PTO drive line and PIC for various attachments (national adoption with modifications of ISO 5673-2:2005): 9/24/2014

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

### **New National Adoption**

ANSI/ASQ/ISO 14065-2014, Greenhouse gases - Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition (identical national adoption of ISO 14065:2013): 9/22/2014

ANSI/ASQ/ISO 14066-2014, Greenhouse gases - Competence requirements for greenhouse gas validation teams and verification teams (identical national adoption of ISO 14066:2011): 9/22/2014

ANSI/ASQ/ISO 18091-2014, Quality management systems - Guidelines for the application of ISO 9001:2008 in local government (identical national adoption of ISO 18091:2014): 9/22/2014

## **ASTM (ASTM International)**

### **Revision**

ANSI/ASTM F477-2014, Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe (revision of ANSI/ASTM F477-2010): 9/15/2014

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

### **Revision**

ANSI/AWWA C229-2014, Fusion-Bonded Polyethylene Coatings for Steel Water Pipe and Fittings (revision of ANSI/AWWA C229-2008): 9/19/2014

ANSI/AWWA C301-2014, Prestressed Concrete Pressure Pipe, Steel-Cylinder Type (revision of ANSI/AWWA C301-2007): 9/25/2014

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

### **New National Adoption**

ANSI/EIA 60384-26-2014, Fixed capacitors for use in electronic equipment - Part 26: Sectional specification - Fixed aluminium electrolytic capacitors with conductive polymer solid electrolyte (identical national adoption of IEC 60384-26 ed. 1.0): 9/22/2014

## **FCI (Fluid Controls Institute)**

### **Revision**

ANSI/FCI 4-1-2014, Pressure Regulator Hydrostatic Shell Test Method (revision of ANSI/FCI 4-1-2007): 9/25/2014

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

### **New National Adoption**

INCITS/ISO/IEC 19794-5:2011/AMD 1:2014, Information technology - Biometric Data Interchange Formats - Part 5: Face Image Data - Amendment 1: Conformance testing methodology and clarification of defects (identical national adoption of ISO/IEC 19794-5:2011/AMD 1:2014): 9/19/2014

**Withdrawal**

- INCITS/ISO 19113:2002, Geographic information - Quality principles (withdrawal of INCITS/ISO 19113:2002 [R2013]): 9/23/2014
- INCITS/ISO 19114:2003, Geographic information - Quality evaluation procedures (withdrawal of INCITS/ISO 19114:2003 [R2013]): 9/23/2014
- INCITS/ISO 19114:2003/COR 1:2005, Geographic information - Quality evaluation procedures - Technical Corrigendum 1 (withdrawal of INCITS/ISO 19114:2003 COR 1:2005 [2010]): 9/23/2014

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

- ANSI/MSS SP-96-2011, Guidelines on Terminology for Valves and Fittings (new standard): 9/26/2014

**NASPO (North American Security Products Organization)****New Standard**

- ANSI/NASPO SD 01-2014, Minimum security requirements for security documents (new standard): 9/24/2014

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

- ANSI/ICEA P-54-440-2009/NEMA WC-51-2009 (R2014), Ampacities of Cables Installed in Trays (reaffirmation of ANSI/ICEA P-54-440-2009/NEMA WC-51-2009): 9/19/2014

**NSAA (ASC B77) (National Ski Areas Association)****Revision**

- ANSI B77.2-2014, Funiculars - Safety Standard (revision of ANSI B77.2-2004): 9/19/2014

**NSF (NSF International)****Revision**

- \* ANSI/NSF 6-2014 (i10r1), Dispensing Freezers (revision of ANSI/NSF 6-2012): 8/1/2014
- \* ANSI/NSF 14-2014 (i58r2), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2013): 8/12/2014
- \* ANSI/NSF 14-2014 (i59r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2013): 8/12/2014
- \* ANSI/NSF 49-2014 (i49r1), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2012): 9/19/2014
- \* ANSI/NSF 49-2014 (i50r2), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2012): 9/19/2014
- \* ANSI/NSF 49-2014 (i51r1), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2012): 9/19/2014

- \* ANSI/NSF 60-2014 (i61r2), Drinking Water Treatment Chemicals - Health Effects (revision of ANSI/NSF 60-2013): 9/21/2014

**ROHVA (Recreational Off-Highway Vehicle Association)****Revision**

- \* ANSI/ROHVA 1-2014, Recreational Off-Highway Vehicles (revision of ANSI/ROHVA 1-2011): 9/24/2014

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

- ANSI/SCTE 193-1-2014, MPEG-4 AAC Family Audio System - Part 1: Coding Constraints for Cable Television (new standard): 9/19/2014
- ANSI/SCTE 193-2-2014, MPEG-4 AAC Family Audio System - Part 2: Constraints for Carriage over MPEG-2 Transport (new standard): 9/19/2014

**Revision**

- ANSI/SCTE 130-9-2014, Recommended Practices for SCTE 130 Digital Program Insertion - Advertising Systems Interfaces (revision of ANSI/SCTE 130-9-2012): 9/19/2014

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

- ANSI/UL 197-2014, Standard for Safety for Commercial Electric Cooking Appliances (Proposal dated 5/2/14) (revision of ANSI/UL 197-2011): 9/17/2014
- ANSI/UL 763-2014, Standard for Motor-Operated Commercial Food Preparing Machines (revision of ANSI/UL 763-2012c): 9/24/2014
- ANSI/UL 763-2014a, Standard for Motor-Operated Commercial Food Preparing Machines (revision of ANSI/UL 763-2012c): 9/24/2014
- \* ANSI/UL 969-2014b, Standard for Safety for Marking and Labeling Systems (revision of ANSI/UL 969-2014a): 9/19/2014
  - \* ANSI/UL 1598B-2014, Standard for Safety for Supplemental Requirements for Luminaire Reflector Kits for Installation on Previously Installed Fluorescent Luminaires (revision of ANSI/UL 1598B-2005 (R2009)): 9/25/2014
- ANSI/UL 1691-2014, Standard for Safety for Single Pole Locking-Type Separable Connectors (revision of ANSI/UL 1691-2013): 9/25/2014

# 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.

## 3-A (3-A Sanitary Standards, Inc.)

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ANSI/3-A P3-A 001-2008, General Glossary of Terminology Used In Pharmaceutical 3-A® Standards (withdrawal of ANSI/3-A P3-A 001-2008)

Stakeholders: Active pharmaceutical ingredient manufacturers, pump and component manufacturers, regulatory bodies, engineering firms, industry trade associations and professional societies.

Project Need: Withdraw current ANS standard due to no interest in further maintaining this Standard as an American National Standard, lack of participation and interest in maintaining a P3-A Consensus Body

This standard shall provide users of Pharmaceutical 3-A (P3-A) Standards and Accepted Practices with definitions of acronyms and terms widely used in these documents.

ANSI/3-A P3-A 002-2008, Pharmaceutical 3-A® Sanitary/Hygienic Standards for Materials for Use in Process Equipment and Systems (withdrawal of ANSI/3-A P3-A 002-2008)

Stakeholders: Active pharmaceutical ingredient manufacturers, pump and component manufacturers, regulatory bodies, engineering firms, industry trade associations and professional societies.

Project Need: Withdraw current ANS standard due to no interest in further maintaining this Standard as an American National Standard, lack of participation and interest in maintaining a P3-A Consensus Body

These sanitary/hygienic standards provide minimum materials and surface property requirements, including minimum fabrication-related materials and surface property requirements for equipment and components utilized in the pharmaceutical manufacturing environment whereby those material and surface properties may directly, indirectly, or incidentally impact the strength, identity, safety, purity, or quality of the active pharmaceutical ingredient, excipient, or drug product.

ANSI/3-A P3-A 003-2012, 3-A® End Suction Centrifugal Pumps for Active Pharmaceutical Ingredients (withdrawal of ANSI/3-A P3-A 003-2012)

Stakeholders: Active pharmaceutical ingredient manufacturers, pump and component manufacturers, regulatory bodies, engineering firms, industry trade associations, and professional societies.

Project Need: Withdraw current American National Standard due to no interest in further maintaining this Standard as an ANS, lack of participation and interest in maintaining a P3-A Consensus Body.

These standards cover the sanitary design requirements of mechanically sealed end-suction centrifugal pumps, conforming to ANSI/ASME B73.1, pertinent to active pharmaceutical ingredient (API) manufacturing in order to maintain product integrity. In order to conform to these P3-A Standards, mechanically sealed end-suction centrifugal pumps shall comply with the following design, materials, and fabrication criteria. (Refer to Appendix D (Non-normative) for a typical diagram of a pump and a seal.)

## AMCA (Air Movement and Control Association)

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\* BSR/AMCA Standard 500-L-20XX, Laboratory Methods of Testing Louvers for Rating (revision and redesignation of ANSI/AMCA 500-L-2012)

Stakeholders: Manufacturers, building engineers, fan testing labs, product consumers, regulatory bodies.

Project Need: Address comments and update standard to reflect current best practices.

This standard may be used as a basis for testing louvers with air used as the test gas. Tests conducted in accordance with the requirements of this standard are intended to demonstrate the performance of a louver and are not intended to determine acceptability level of performance. It is not the scope of this standard to indicate actual sequences of testing, nor is it in its scope to specify minimum or maximum criteria for testing.

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

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BSR X9.24 Part 2-201x, Retail Financial Services Symmetric Key Management -Part 2: Using Asymmetric Techniques for the Distribution of Symmetric Keys (revision of ANSI X9.24 Part 2-2006 (R2013))

Stakeholders: Financial institutions, corporations, and financial institution vendors.

Project Need: As part of the ANSI 5-year review process, X9.24 Part 2 had been revised and updated.

Compliant implementation of the requirements stated in ANS X9.24 Part 1 for the secure management of symmetric TDEA keys requires unique keys per device and strict enforcement of dual control and split knowledge processes for handling the full-length keying material deployed to remote devices or established between communicating pairs. Historically, compliant implementation of key distribution has been a manually performed, physically on-site process that is difficult to manage, costly, and/or non-existent (i.e., not compliant). An automated rather than manual method of distributing symmetric keys could address these issues and could result in improved security.

BSR X9.8 Part 1-201x, Personal Identification Number PIN Management (identical national adoption of ISO 9564 and revision of ANSI X9.8 Part 1-2003 (R2013))

Stakeholders: US financial retail payment systems.

Project Need: A new version of ISO 9564 part 1 has been published. X9 proposes the adoption of the standard in full with the addition of "ANSI notes" consistent to the last publication of X9.8 part 1.

Basic principles and techniques which provide the minimum security measures required for effective international PIN management. PIN protection techniques applicable to financial transaction card originated transactions in an online environment and a standard means of interchanging PIN data.

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

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BSR/ASHRAE Standard 158.1-201X, Method of Testing Capacity of Refrigerant Solenoid Valves (revision of ANSI/ASHRAE Standard 158.1-2012)

Stakeholders: Refrigeration and air conditioning industry, producers and users.

Project Need: AHRI would like to remove Method of Test from the appendix of AHRI Standard 760. This same Method of Test needs to be added to ASHRAE Standard 158.1.

This standard prescribes a method of testing the capacity of refrigerant solenoid valves for use in refrigerating systems.

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

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BSR/ASQ ISO 22514-1-2014, Statistical methods in process management - Capability and performance - Part 1: General principles and concepts (identical national adoption of ISO 22514-1:2014)

Stakeholders: Industry, government, academia.

Project Need: National adoption.

Describes the fundamental principles of capability and performance of manufacturing processes to provide guidance about circumstances where a capability study is demanded or necessary to determine if the output from a manufacturing process or the production equipment (a production machine) is acceptable according to appropriate criteria. Such circumstances are common in quality control when the purpose for the study is part of some kind of production acceptance. These studies can also be used when diagnosis is required concerning a production output or as part of a problem-solving effort. The methods are very versatile and have been applied for many situations.

BSR/ASQ/ISO 3534-3-2013, Statistics - Vocabulary and symbols - Part 3: Design of experiments (identical national adoption of ISO 3534-3:2013)

Stakeholders: Industry, government, academia.

Project Need: National adoption.

Defines the terms used in the field of design of experiments and may be used in the drafting of other International Standards. More specifically, it defines terms used in the field of design of experiments for which the response variable is one-dimensional and continuous and for which the expectation of the response variable is linear in the parameters. The terms with regard to the statistical analysis are based on the assumption that the error term follows a normal distribution with constant variance.

BSR/ASQ/ISO 3534-4-2014, Statistics - Vocabulary and symbols - Part 4: Survey sampling (identical national adoption of ISO 3534-4:2014)

Stakeholders: Industry, government, academia.

Project Need: National adoption.

Defines the terms used in the field of survey sampling and can be used in the drafting of other International Standards.

BSR/ASQ/ISO 7870-2-2013, Control charts - Part 2: Shewhart control charts (identical national adoption of ISO 7870-2:2013)

Stakeholders: Industry, government, academia.

Project Need: National adoption.

Establishes a guide to the use and understanding of the Shewhart control chart approach to the methods for statistical control of a process. It is limited to the treatment of statistical process control methods using only the Shewhart system of charts. Some supplementary material that is consistent with the Shewhart approach, such as the use of warning limits, analysis of trend patterns and process capability is briefly introduced. There are, however, several other types of control chart procedures, a general description of which can be found in ISO 7870-1.

BSR/ASQ/ISO 7870-3-2012, Control charts - Part 3: Acceptance control charts (identical national adoption of ISO 7870-3:2012)

Stakeholders: Industry, government, academia.

Project Need: National adoption.

Gives guidance on the uses of acceptance control charts and establishes general procedures for determining sample sizes, action limits and decision criteria. An acceptance control chart should be used only when: (a) the within subgroup variation is in-control and the variation is estimated efficiently; (b) a high level of process capability has been achieved. An acceptance control chart is typically used when the process variable under study is normally distributed; however, it can be applied to a non-normal distribution. The examples provided in this part of ISO 7870 illustrate a variety of circumstances in which this technique has advantages.

BSR/ASQ/ISO 7870-4-2011, Control charts - Part 4: Cumulative sum charts (identical national adoption of ISO 7870-4:2011)

Stakeholders: Industry, government, academia.

Project Need: National adoption.

Provides statistical procedures for setting up cumulative sum (cusum) schemes for process and quality control using variables (measured) and attribute data. It describes general-purpose methods of decision-making using cumulative sum (cusum) techniques for monitoring, control and retrospective analysis.

BSR/ASQ/ISO 7870-5-2014, Control charts - Part 5: Specialized control charts (identical national adoption of ISO 7870-5:2014)

Stakeholders: Industry, government, academia.

Project Need: National adoption.

Establishes a guide to the use and understanding of specialized control charts in situations where commonly used Shewhart control chart approach to the methods of statistical control of a process may either be not applicable or less efficient in detecting unnatural patterns of variation of the process. It also provides guidance as to when each of the above control charts should be used, their control limits, advantages, and limitations. Each control chart is illustrated with an example.

BSR/ASQ/ISO 16269-4-2010, Statistical interpretation of data - Part 4: Detection and treatment of outliers (identical national adoption of ISO 16269-4:2010)

Stakeholders: Industry, government, academia.

Project Need: National adoption.

Provides detailed descriptions of sound statistical testing procedures and graphical data analysis methods for detecting outliers in data obtained from measurement processes. It recommends sound robust estimation and testing procedures to accommodate the presence of outliers. It is primarily designed for the detection and accommodation of outlier(s) from univariate data. Some guidance is provided for multivariate and regression data.

BSR/ASQ/ISO 16269-6-2014, Statistical interpretation of data - Part 6: Determination of statistical tolerance intervals (identical national adoption of ISO 16269-6:2014)

Stakeholders: Industry, government, academia.

Project Need: National adoption.

Describes procedures for establishing statistical tolerance intervals that include at least a specified proportion of the population with a specified confidence level. Both one-sided and two-sided statistical tolerance intervals are provided, a one-sided interval has either an upper or lower limit while a two-sided interval has both upper and lower limits. Two methods are provided, a parametric method for the case where the characteristic being studied has a normal distribution and a distribution-free method for the case where nothing is known about the distribution except that it is continuous.

BSR/ASQ/ISO 16269-7-2001, Statistical interpretation of data - Part 7: Median - Estimation and confidence intervals (identical national adoption of ISO 16269-7:2001)

Stakeholders: Industry, government, academia.

Project Need: National adoption.

Specifies the procedures for establishing a point estimate and confidence intervals for the median of any continuous probability distribution of a population, based on a random sample size from the population. These procedures are distribution-free, i.e., they do not require knowledge of the family of distributions to which the population distribution belongs. Similar procedures can be applied to estimate quartiles and percentiles. NOTE: The median is the second quartile and the fiftieth percentile. Similar procedures for other quartiles or percentiles are not described in this part of ISO 16269.

BSR/ASQ/ISO 16269-8-2004, Statistical interpretation of data - Part 8: Determination of prediction intervals (identical national adoption of ISO 16269-8:2004)

Stakeholders: Industry, government, academia.

Project Need: National adoption.

Specifies methods of determining prediction intervals for a single continuously distributed variable. These are ranges of values of the variable, derived from a random sample of size  $n$ , for which a prediction relating to a further randomly selected sample of size  $m$  from the same population may be made with a specified confidence. Three different types of population are considered, namely: (a) normally distributed with unknown standard deviation; (b) normally distributed with known standard deviation; (c) continuous but of unknown form.

BSR/ASQ/ISO 22514-2-2013, Statistical methods in process management - Capability and performance - Part 2: Process capability and performance of time-dependent process models (identical national adoption of ISO 22514-2:2013)

Stakeholders: Industry, government, academia.

Project Need: National adoption.

Describes a procedure for the determination of statistics for estimating the quality capability or performance of product and process characteristics. The process results of these quality characteristics are categorized into eight possible distribution types. Calculation formulae for the statistical measures are placed with every distribution. The statistical methods only relate to continuous quality characteristics. They are applicable to processes in any industrial or economical sector. NOTE: This method is usually applied in case of a great number of serial process results, but it can also be used for small series (a small number of process results).

BSR/ASQ/ISO 22514-3-2008, Statistical methods in process management - Capability and performance - Part 3: Machine performance studies for measured data on discrete parts (identical national adoption of ISO 22514-3:2008)

Stakeholders: Industry, government, academia.

Project Need: National adoption.

Prescribes the steps to be taken in conducting short-term performance studies that are typically performed on machines where parts produced consecutively under repeatability conditions are considered. The number of observations to be analyzed will vary according to the patterns the data produce, or if the runs (the rate at which items are produced) on the machine are low in quantity. The methods are not recommended where the sample size produced is less than 30 observations. Methods to be used for handling the data and carrying out the calculations are described. Machine performance indices and actions required at conclusion of a machine performance study are described.



BSR/ASQ/ISO 22514-6-2013, Statistical methods in process management - Capability and performance - Part 6: Process capability statistics for characteristics following a multivariate normal distribution (identical national adoption of ISO 22514-6:2013)

Stakeholders: Industry, government, academia.

Project Need: National adoption.

Provides methods for calculating performance and capability statistics for process or product quantities where it is necessary or beneficial to consider a family of singular quantities in relation to each other. The methods provided here mostly are designed to describe quantities that follow a bivariate normal distribution. NOTE: In principle, this part of ISO 22514 can be used for multivariate cases. It does not offer an evaluation of the different provided methods with respect to different situations of possible application of each method. For the current state, the selection of one preferable method might be done following the user's preferences.

BSR/ASQ/ISO 22514-7-2012, Statistical methods in process management - Capability and performance - Part 7: Capability of measurement processes (identical national adoption of ISO 22514-7:2012)

Stakeholders: Industry, government, academia.

Project Need: National adoption.

Defines a procedure to validate measuring systems and a measurement process in order to state whether a given measurement process can satisfy the requirements for a specific measurement task with a recommendation of acceptance criteria. The acceptance criteria are defined as a capability figure (CMS) or a capability ratio (QMS). It follows the approach taken in ISO/IEC Guide 98-3, Guide to the expression of the uncertainty in measurement (GUM), and establishes a basic, simplified procedure for stating and combining uncertainty components used to estimate a capability index for an actual measurement process.

BSR/ASQ/ISO 22514-8-2014, Statistical methods in process management - Capability and performance - Part 8: Machine performance of a multi-state production process (identical national adoption of ISO 22514-8:2014)

Stakeholders: Industry, government, academia.

Project Need: National adoption.

Aims to define the evaluation method to quantify the short-term capability of a production process (capacity of the production tool, widely termed capability), i.e., the machine performance index, to ensure compliance to a toleranced measurable product characteristic, when said process does not feature any kind of sorting system. If the production process integrates a sorting system, then this one (clearing away nonconforming parts) should be analyzed independently. It does not aim to define evaluation methods of the capability of a production process that is gauged through long-term observation (capability process or performance process indices).

BSR/ASQ/ISO/TS 16949-2009, Quality management systems - Particular requirements for the application of ISO 9001:2008 for automotive production and relevant service part organizations (identical national adoption of ISO/TS 16949:2009)

Stakeholders: Industry, government, academia.

Project Need: National adoption.

Specifies requirements for a quality management system where an organization (a) needs to demonstrate its ability to consistently provide product that meets customer and applicable statutory and regulatory requirements, and (b) aims to enhance customer satisfaction through the effective application of the system, including processes for continual improvement of the system and the assurance of conformity to customer and applicable statutory and regulatory requirements.

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BSR/ASTM WK47297-201x, New Specification for Poly(Vinyl Chloride) (PVC) DR-18 Gasketed Sewer Fittings (new standard)

Stakeholders: Sewer industry.

Project Need: This specification covers requirements and test methods for fabricated or molded poly(vinyl chloride) (PVC) gasketed sewer fittings for use with PVC DR-18 pipe having cast-iron (CIOD) dimensions used in a sewer application.

<http://www.astm.org/DATABASE.CART/WORKITEMS/WK47297.htm>.

#### **AWS (American Welding Society)**

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BSR/AWS J1.2M/J1.2-201X, Guide to Installation and Maintenance of Resistance Welding Machines (new standard)

Stakeholders: Resistance Welding Equipment community.

Project Need: It has been customary practice for some equipment manufacturers to include a copy in their machine documentation package or to promote the publication to equipment users who have no manual for their equipment and no means to get one.

This guide provides general instructions for the installation, operation, and maintenance of common types of resistance welding equipment. Generic preventative maintenance schedules and equipment troubleshooting recommendations are provided, as is an overview of common weld qualification techniques and corrective actions to common weld conditions.

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

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BSR/MSE 50028-201x, Superior Energy Performance - Requirements for verification bodies for use in accreditation or other forms of recognition (revision of ANSI/MSE 50028-2012)

Stakeholders: Organizations seeking certification of their energy performance and energy management system, including industrial, commercial, transportation, institutional and energy supply sectors.

Project Need: Revisions to ANSI/MSE 50028 is needed to reflect changes present in ISO/IEC 17021-1 and requirements in ISO 50003:2014.

In response to changes reflected in ISO/IEC 17021-1 and the publication of ISO 50003:2014, this revision makes substantive changes technical areas, audit program, and other sections. ANSI/MSE 50028-2015 provides updated, specific principles and requirements for competence, consistency, and impartiality of the audit and certification of energy management systems and Superior Energy Performance.

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

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INCITS/ISO/IEC 26300:2006/Cor 3:2014, Information technology - Open Document Format for Office Applications (OpenDocument) v1.0 - Technical Corrigendum 3 (identical national adoption of ISO/IEC 26300:2006/Cor 3:2014)

Stakeholders: ICT industry.

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

This is the third technical corrigendum to ISO/IEC 26300:2006, and ISO/IEC 26300:2006 defines an XML schema for office applications and its semantics. The schema is suitable for office documents, including text documents, spreadsheets, charts and graphical documents like drawings or presentations, but is not restricted to these kinds of documents.

INCITS/ISO/IEC 26300:2006/Amd 1:2012/Cor 1:2014, Information technology - Open Document Format for Office Applications (OpenDocument) v1.0 - Amendment 1: Open Document Format for Office Applications (OpenDocument) v1.1 - Technical Corrigendum 1 (identical national adoption of ISO/IEC 26300:2006/Amd 1:2012/Cor 1:2014)

Stakeholders: ICT industry.

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

This is the first technical corrigendum to the first amendment of ISO/IEC 26300:2006, and ISO/IEC 26300:2006 defines an XML schema for office applications and its semantics. The schema is suitable for office documents, including text documents, spreadsheets, charts and graphical documents like drawings or presentations, but is not restricted to these kinds of documents.

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

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BSR C12.1-201x, Code for Electricity Metering (revision of ANSI C12.1-2007)

Stakeholders: Meter manufacturers, electrical utilities.

Project Need: ASAP.

This Code establishes acceptable performance criteria for new types of ac watt-hour meters, demand meters, demand registers, pulse devices, and auxiliary devices. It describes acceptable in-service performance levels for meters and devices used in revenue metering. It also includes information on related subjects, such as recommended measurement standards, installation requirements, test methods, and test schedules. This Code for Electricity Metering is designed as a reference for those concerned with the art of electricity metering, such as utilities, manufacturers, and regulatory bodies.

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

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

**E-mail:** [standards@tappi.org](mailto:standards@tappi.org)

BSR/TAPPI T 454 om-201x (R201x), Turpentine test for voids in glassine and greaseproof papers (reaffirmation of ANSI/TAPPI T 454 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 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 method gives an accelerated comparison of the relative rates at which oils or greases, such as commonly found in foodstuffs, may be expected to penetrate papers such as greaseproof, glassine, and vegetable parchment. In addition, it may be used to select and predict the performance of these grades of papers for an intended end use. The selection should be used as preliminary to, and not a substitute for, tests with prototype end products containing the oils or greases of interest. It may not be applicable to grades of paper or paperboard that are given grease or oil resistance by means of a coating or internal treatment.

# 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).

<p><b>3-A</b> 3-A Sanitary Standards, Inc. 6888 Elm Street Suite 2D McLean, VA 22101-3829 Phone: (703) 790-0295 Fax: (703) 761-6284 Web: <a href="http://www.3-a.org">www.3-a.org</a></p>	<p><b>ASA (ASC S12)</b> Acoustical Society of America 1305 Walt Whitman Rd Suite 300 Melville, NY 11747 Phone: (631) 390-0215 Fax: (631) 923-2875 Web: <a href="http://www.acousticalsociety.org">www.acousticalsociety.org</a></p>	<p><b>ASTM</b> ASTM International 100 Barr Harbor Drive West Conshohocken, PA 19428-2959 Phone: (610) 832-9744 Fax: (610) 834-3683 Web: <a href="http://www.astm.org">www.astm.org</a></p>	<p><b>IEEE</b> Institute of Electrical and Electronics Engineers (IEEE) 445 Hoes Lane Piscataway, NJ 08854 Phone: (732) 562-3854 Fax: (732) 796-6966 Web: <a href="http://www.ieee.org">www.ieee.org</a></p>
<p><b>AAMI</b> Association for the Advancement of Medical Instrumentation 4301 N Fairfax Drive Suite 301 Arlington, VA 22203-1633 Phone: (703) 525-4890 Fax: (703) 276-0793 Web: <a href="http://www.aami.org">www.aami.org</a></p>	<p><b>ASABE</b> American Society of Agricultural and Biological Engineers 2950 Niles Road Saint Joseph, MI 49085 Phone: (269) 932-7015 Fax: (269) 429-3852 Web: <a href="http://www.asabe.org">www.asabe.org</a></p>	<p><b>AWS</b> American Welding Society 8669 NW 36th Street Miami, FL 33166 Phone: (305) 443-9353 Fax: (305) 443-5951 Web: <a href="http://www.aws.org">www.aws.org</a></p>	<p><b>ISA (Organization)</b> ISA-The Instrumentation, Systems, and Automation Society PO Box 12277, 67 Alexander Drive Research Triangle Park, NC 27709 Phone: (919) 990-9228 Fax: (919) 549-8288 Web: <a href="http://www.isa.org">www.isa.org</a></p>
<p><b>AGA (ASC Z380)</b> American Gas Association 400 N. Capitol Street, N.W. Washington, DC 20001 Phone: (202) 824-7312 Fax: (202) 824-9122 Web: <a href="http://www.aga.org">www.aga.org</a></p>	<p><b>ASC X9</b> Accredited Standards Committee X9, Incorporated 1212 West Street Suite 200 Annapolis, MD 21401 Phone: (410) 267-7707 Fax: (410) 267-0961 Web: <a href="http://www.x9.org">www.x9.org</a></p>	<p><b>AWWA</b> American Water Works Association 6666 W. Quincy Ave. Denver, CO 80235 Phone: (303) 347-6178 Fax: (303) 795-7603 Web: <a href="http://www.awwa.org">www.awwa.org</a></p>	<p><b>ITI (INCITS)</b> 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: <a href="http://www.incits.org">www.incits.org</a></p>
<p><b>AMCA</b> AMCA International, Inc. 30 West University Drive Arlington Heights, IL 60004-1893 Phone: (847) 704-6295 Fax: (847) 253-0088 Web: <a href="http://www.amca.org">www.amca.org</a></p>	<p><b>ASHRAE</b> American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. 1791 Tullie Circle NE Atlanta, GA 30329 Phone: (678) 539-1111 Fax: (678) 539-2111 Web: <a href="http://www.ashrae.org">www.ashrae.org</a></p>	<p><b>CEA</b> Consumer Electronics Association 1919 South Eads Street Arlington, VA 22202 Phone: (703) 907-7697 Fax: (703) 907-4197 Web: <a href="http://www.ce.org">www.ce.org</a></p>	<p><b>MSS</b> Manufacturers Standardization Society 127 Park Street, NE Vienna, VA 22180-4602 Phone: (703) 281-6613 Fax: (703) 281-6671 Web: <a href="http://www.mss-hq.org">www.mss-hq.org</a></p>
<p><b>ANS</b> American Nuclear Society 555 North Kensington Avenue La Grange Park, IL 60526 Phone: (708) 579-8268 Fax: (708) 579-8248 Web: <a href="http://www.ans.org">www.ans.org</a></p>	<p><b>ASME</b> American Society of Mechanical Engineers Two Park Avenue New York, NY 10016 Phone: (212) 591-8521 Fax: (212) 591-8501 Web: <a href="http://www.asme.org">www.asme.org</a></p>	<p><b>ECA</b> Electronic Components Association 2214 Rock Hill Road Suite 170 Herndon, VA 20170-4212 Phone: (571) 323-0294 Fax: (571) 323-0245 Web: <a href="http://www.ecianow.org">www.ecianow.org</a></p>	<p><b>NASPO</b> North American Security Products Organization 204 E Street NE Washington, DC 20002 Phone: (202) 608-1322 Fax: (202) 547-6348 Web: <a href="http://www.naspo.info">www.naspo.info</a></p>
<p><b>APCO</b> Association of Public-Safety Communications Officials-International 351 N. Williamson Boulevard Daytona Beach, FL 32114-1112 Phone: (919) 625-6864 Fax: (386) 944-2794 Web: <a href="http://www.apcolntl.org">www.apcolntl.org</a></p>	<p><b>ASQ (ASC Z1)</b> American Society for Quality 600 N Plankinton Ave Milwaukee, WI 53203 Phone: (414) 272-8575 Web: <a href="http://www.asq.org">www.asq.org</a></p>	<p><b>FCI</b> Fluid Controls Institute 1300 Sumner Avenue Cleveland, OH 44115 Phone: (216) 241-7333 x3027 Fax: (216) 241-0105 Web: <a href="http://www.fluidcontrolsintstitute.org">www.fluidcontrolsintstitute.org</a></p>	<p><b>NEMA (ASC C12)</b> National Electrical Manufacturers Association 1300 North 17th Street Suite 900 Rosslyn, VA 22209 Phone: (703) 841-3227 Fax: (703) 841-3327 Web: <a href="http://www.nema.org">www.nema.org</a></p>
<p><b>API</b> American Petroleum Institute 1220 L Street, NW Washington, DC 20005-4070 Phone: (202) 682-8157 Web: <a href="http://www.api.org">www.api.org</a></p>	<p><b>ASSE (Safety)</b> American Society of Safety Engineers 1800 East Oakton Street Des Plaines, IL 60018-2187 Phone: (847) 768-3411 Fax: (847) 296-9221 Web: <a href="http://www.asse.org">www.asse.org</a></p>	<p><b>GTESS</b> Georgia Tech Energy &amp; Sustainability Services 75 Fifth Street N.W Suite 300 Atlanta, GA 30332-0640 Phone: (404) 407-6404 Fax: (404) 894-8194 Web: <a href="http://www.innovate.gatech.edu">www.innovate.gatech.edu</a></p>	<p><b>NEMA (ASC C8)</b> National Electrical Manufacturers Association 1300 North 17th Street Suite 1752 Rosslyn, VA 22209 Phone: (703) 841-3271 Fax: 703-841-3371 Web: <a href="http://www.nema.org">www.nema.org</a></p>

**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

**NSAA (ASC B77)**

National Ski Areas Assc.  
133 S. Van Gordon Street  
Suite 300  
Lakewood, CO 80228  
Phone: (720) 963-4210  
Fax: (720) 986-2345

**NSF**

NSF International  
789 N. Dixboro Road  
Ann Arbor, MI 48105-9723  
Phone: (734) 827-6866  
Web: www.nsf.org

**NWRA**

National Windshield Repair  
Association  
P.O. Box 569  
Garrisonville, VA 22463  
Phone: (540) 720-7484  
Fax: (540) 720-5687  
Web: www.nwrassn.org

**PLASA**

PLASA North America  
630 Ninth Avenue  
Suite 609  
New York, NY 10036-3748  
Phone: (212) 244-1505  
Fax: (212) 244-1502  
Web: www.plasa.org

**ROHVA**

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

**SCTE**

Society of Cable Telecommunications  
Engineers  
140 Philips Road  
Exton, PA 19341-1318  
Phone: (480) 252-2330  
Fax: (610) 363-5898  
Web: www.scte.org

**SMACNA**

Sheet Metal and Air-Conditioning  
Contractors' National Association  
4201 Lafayette Center Drive  
Chantilly, VA 20151-1209  
Phone: (703) 803-2980  
Fax: (703) 803-3732  
Web: www.smacna.org

**SPRI**

Single Ply Roofing Institute  
411 Waverley Oaks Road  
Suite 331B  
Waltham, MA 02452  
Phone: (781) 647-7026  
Fax: (781) 647-7222  
Web: www.spri.org

**TAPPI**

Technical Association of the Pulp and  
Paper Industry  
15 Technology Parkway South  
Peachtree Corners, GA 30092  
Phone: (770) 209-7276  
Fax: (770) 446-6947  
Web: www.tappi.org

**TIA**

Telecommunications Industry  
Association  
1320 North Courthouse Road  
Suite 200  
Arlington, VA 22201  
Phone: (703) 907-7743  
Web: www.tiaonline.org

**UL**

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

### AGRICULTURAL FOOD PRODUCTS (TC 34)

[ISO 12228-2:2014](#), Determination of individual and total sterols contents - Gas chromatographic method - Part 2: Olive oils and olive pomace oils, \$114.00

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

[ISO 10993-3:2014](#), Biological evaluation of medical devices - Part 3: Tests for genotoxicity, carcinogenicity and reproductive toxicity, \$173.00

### HEALTH INFORMATICS (TC 215)

[ISO 17090-4:2014](#), Health informatics - Public key infrastructure - Part 4: Digital Signatures for healthcare documents, \$149.00

[ISO 22600-1:2014](#), Health informatics - Privilege management and access control - Part 1: Overview and policy management, \$156.00

[ISO 22600-2:2014](#), Health informatics - Privilege management and access control - Part 2: Formal models, \$149.00

[ISO 22600-3:2014](#), Health informatics - Privilege management and access control - Part 3: Implementations, \$224.00

### MECHANICAL TESTING OF METALS (TC 164)

[ISO 6506-1:2014](#), Metallic materials - Brinell hardness test - Part 1: Test method, \$114.00

[ISO 6506-2:2014](#), Metallic materials - Brinell hardness test - Part 2: Verification and calibration of testing machines, \$114.00

[ISO 6506-3:2014](#), Metallic materials - Brinell hardness test - Part 3: Calibration of reference blocks, \$88.00

[ISO 6506-4:2014](#), Metallic materials - Brinell hardness test - Part 4: Table of hardness values, \$99.00

### NUCLEAR ENERGY (TC 85)

[ISO 16641:2014](#), Measurement of radioactivity in the environment - Air - Radon 220: Integrated measurement methods for the determination of the average activity concentration using passive solid-state nuclear track detectors, \$114.00

### OPTICS AND OPTICAL INSTRUMENTS (TC 172)

[ISO 11978:2014](#), Ophthalmic optics - Contact lenses and contact lens care products - Labelling, \$77.00

[ISO 18259:2014](#), Ophthalmic optics - Contact lens care products - Method to assess contact lens care products with contact lenses in a lens case, challenged with bacterial and fungal organisms, \$77.00

[ISO 11979-6:2014](#), Ophthalmic implants - Intraocular lenses - Part 6: Shelf-life and transport stability testing, \$99.00

### PAINTS AND VARNISHES (TC 35)

[ISO 13803:2014](#), Paints and varnishes - Determination of haze on paint films at 20 degrees, \$99.00

### PLASTICS (TC 61)

[ISO 12000:2014](#), Plastics/rubber - Polymer dispersions and rubber latices (natural and synthetic) - Definitions and review of test methods, \$66.00

[ISO 19066-1:2014](#), Plastics - Methyl methacrylate-acrylonitrile-butadiene-styrene (MABS) moulding and extrusion materials - Part 1: Designation system and basis for specifications, \$77.00

### RUBBER AND RUBBER PRODUCTS (TC 45)

[ISO 2440/Amd2:2014](#), Flexible and rigid cellular polymeric materials - Accelerated ageing tests - Amendment 2, \$22.00

[ISO 4097:2014](#), Rubber, ethylene-propylene-diene (EPDM) - Evaluation procedure, \$114.00

[ISO 4659:2014](#), Styrene-butadiene rubber (carbon black or carbon black and oil masterbatches) - Evaluation procedure, \$88.00

[ISO 7663:2014](#), Halogenated isobutene-isoprene rubber (BIIR and CIIR) - Evaluation procedures, \$88.00

### SHIPS AND MARINE TECHNOLOGY (TC 8)

[ISO 18611-1:2014](#), Ships and marine technology - Marine NOx reduction agent AUS 40 - Part 1: Quality requirements, \$66.00

[ISO 18611-2:2014](#), Ships and marine technology - Marine NOx reduction agent AUS 40 - Part 2: Test methods, \$189.00

[ISO 18611-3:2014](#), Ships and marine technology - Marine NOx reduction agent AUS 40 - Part 3: Handling, transportation and storage, \$88.00

[IEC/PAS 80005-3:2014](#), Utility connections in port - Part 3: Low Voltage Shore Connection (LVSC) Systems - General requirements, \$189.00

### STEEL (TC 17)

[ISO 4995:2014](#), Hot-rolled steel sheet of structural quality, \$77.00

### WELDING AND ALLIED PROCESSES (TC 44)

[ISO 25980:2014](#), Health and safety in welding and allied processes - Transparent welding curtains, strips and screens for arc welding processes, \$77.00

## ISO Technical Reports

### DOCUMENT IMAGING APPLICATIONS (TC 171)

[ISO/TR 17797:2014](#), Electronic archiving - Selection of digital storage media for long term preservation, \$149.00

## ISO/IEC JTC 1, Information Technology

[ISO/IEC 17811-3:2014](#), Information Technology - Device control and management - Part 3: Specification of Reliable Message Delivery Protocol, \$108.00

# IEC Standards

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

[IEC 61196-10 Ed. 1.0 en:2014](#), Coaxial communication cables - Part 10: Sectional specification for semi-rigid cables with polytetrafluoroethylene (PTFE) dielectric, \$97.00

[IEC 61196-10-1 Ed. 1.0 en:2014](#), Coaxial communication cables - Part 10-1: Blank detail specification for semi-rigid cables with polytetrafluoroethylene (PTFE) dielectric, \$43.00

## **ELECTRICAL EQUIPMENT IN MEDICAL PRACTICE (TC 62)**

[IEC 61910-1 Ed. 1.0 b:2014](#), Medical electrical equipment - Radiation dose documentation - Part 1: Radiation dose structured reports for radiography and radioscopy, \$230.00

## **ELECTROACOUSTICS (TC 29)**

[IEC 62489-2 Ed. 2.0 b:2014](#), Electroacoustics - Audio-frequency induction loop systems for assisted hearing - Part 2: Methods of calculating and measuring the low-frequency magnetic field emissions from the loop for assessing conformity with guidelines on limits for human exposure, \$85.00

## **LAMPS AND RELATED EQUIPMENT (TC 34)**

[IEC 62868 Ed. 1.0 b:2014](#), Organic light emitting diode (OLED) panels for general lighting - Safety requirements, \$97.00

## **NUCLEAR INSTRUMENTATION (TC 45)**

[IEC 60412 Ed. 3.0 b:2014](#), Nuclear instrumentation - Nomenclature (identification) of scintillators and scintillation detectors and standard dimensions of scintillators, \$61.00

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

[IEC 60034-19 Ed. 2.0 b:2014](#), Rotating electrical machines - Part 19: Specific test methods for d.c. machines on conventional and rectifier-fed supplies, \$157.00

## **SAFETY OF MEASURING, CONTROL, AND LABORATORY EQUIPMENT (TC 66)**

[IEC 61010-2-010 Ed. 3.0 b:2014](#), Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2 -010: Particular requirements for laboratory equipment for the heating of materials, \$121.00

# IEC Technical Reports

## **ELECTRICAL EQUIPMENT IN MEDICAL PRACTICE (TC 62)**

[IEC/TR 62354 Ed. 3.0 en:2014](#), General testing procedures for medical electrical equipment, \$411.00

## **STANDARD VOLTAGES, CURRENT RATINGS AND FREQUENCIES (TC 8)**

[IEC/TR 62511 Ed. 1.0 en:2014](#), Guidelines for the design of interconnected power systems, \$206.00

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

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

## ANSI Accredited Standards Developers

### Approval of Reaccreditation

#### NACE International – The Corrosion Society

ANSI's Executive Standards Council has approved the reaccreditation of NACE International – The Corrosion Society, an ANSI Organizational Member, under its recently revised NACE Technical Committee Publications Manual for documenting consensus on NACE International-sponsored American National Standards, effective September 23, 2014. For additional information, please contact: Ms. Linda Goldberg, Director, Technical Activities, NACE International – The Corrosion Society, 15835 Park Ten Place, Houston, TX 77084; phone: 281.228.6221; e-mail: [Linda.Goldberg@nace.org](mailto:Linda.Goldberg@nace.org).

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

Reaccreditation and Scope Extension

Conestoga-Rovers & Associates, Ltd

Comment Deadline: November 3, 2014

In accordance with the following ISO standards:

ISO 14065:2007, Greenhouse gases – Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition

Conestoga-Rovers & Associates, Limited  
651 Colby Drive  
Waterloo, Ontario N2V 1C2  
Canada

On September 17, 2014, the ANSI Greenhouse Gas Validation/Verification Accreditation Committee voted to approve Reaccreditation and Scope Extensions for Conestoga-Rovers & Associates Limited for the following:

*Verification of assertions related to GHG emission reductions & removals at the organizational level*

- Group 1 – General
- Group 2 – Manufacturing
- Group 3 – Power Generation
- Group 4 – Electric Power Transactions
- Group 5 – Mining and Mineral Production
- Group 6 – Metals Production
- Group 7 – Chemical Production
- Group 8 – Oil and gas extraction, production and refining including petrochemicals
- Group 9 – Waste

*Verification of assertions related to GHG emission reductions & removals at the project level*

- Group 1 – GHG emission reductions from fuel combustion
- Group 6 – Waste Handling and Disposal (Scope Extensions)

*Validation of assertions related to GHG emission reductions & removals at the project level*

- Group 1 – GHG emission reductions from fuel combustion
- Group 6 – 06. Waste Handling and Disposal (Scope Extensions)

Please send your comments by November 3, 2014 to Ann Bowles, Director, Environmental Accreditation Programs, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036, Fax: 202-293-9287 or e-mail: [abowles@ansi.org](mailto:abowles@ansi.org).

## ANSI Accreditation Program for Third Party Product Certification Agencies

Request for Scope Extension

Corporación Centro de Investigación y Desarrollo Tecnológico del Sector Eléctrico (CIDET)

Comment Deadline: November 3, 2014

Mr. Juan Camilo Cordoba  
Senior Professional, Product Certification  
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On September 19, 2014, Corporación Centro de Investigación y Desarrollo Tecnológico del Sector Eléctrico (CIDET), an ANSI-Accredited Certification Body, requested a scope extension to include the following:

### Request for Scope Extension:

- 17.220.20 Measurement of electrical and magnetic quantities
- 91.140.50 Electric energy meters in buildings

Please send your comments by November 3, 2014 to Reinaldo Balbino Figueiredo, Senior Program Director, Product Certifier Accreditation, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036, Fax: 202-293-9287 or e-mail: [rfigueir@ansi.org](mailto:rfigueir@ansi.org), or Nikki Jackson, Sr. Program Manager, Product Certifier Accreditation, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036, Fax: 202-293-9287 or e-mail: [njackson@ansi.org](mailto:njackson@ansi.org).

## International Organization for Standardization (ISO)

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).

## U.S. Technical Advisory Groups

### Applications for Accreditation

#### U.S. TAG to ISO Project Committee 286 – Collaborative Business Relationship Management – Framework

**Comment Deadline: November 3, 2014**

The Association of Strategic Alliance Professionals (ASAP), a new ANSI organizational member, has submitted an Application for Accreditation for a proposed U.S. Technical Advisory Group (TAG) to ISO Project Committee 286, Collaborative business relationship management - Framework and a request for approval as TAG Administrator. The proposed TAG will operate using the Model Operating Procedures for U.S. Technical Advisory Groups to ANSI for ISO Activities as contained in Annex A of the ANSI International Procedures.

For additional information, or to offer comments, please contact: Ms. Norma Watenpaugh, Director, Association of Strategic Alliance Professionals, 2595 Roop Road, Gilroy, CA 95020; phone: 408.848.9514; e-mail: [Normaw@phoenixcg.com](mailto:Normaw@phoenixcg.com). Please forward any comments on this application to ASAP, with a copy to the Recording Secretary, ExSC in ANSI's New York Office (fax: 212.840-2298; e-mail: [jthompso@ansi.org](mailto:jthompso@ansi.org)) by November 3, 2014.

#### U.S. TAG to ISO/TC 291 – Domestic Gas Cooking Appliances

**Comment Deadline: November 3, 2014**

The CSA Group and Underwriters Laboratories (UL) have each submitted separate Applications for Accreditation for a proposed U.S. Technical Advisory Group (TAG) to ISO/TC 291, Domestic gas cooking appliances and requests for approval as TAG Administrator. Each applicants' proposed TAG intends to operate using the Model Operating Procedures for U.S. Technical Advisory Groups to ANSI for ISO Activities as contained in Annex A of the ANSI International Procedures.

For additional information, or to obtain copies of and to offer comments on either or both applications (including any important considerations for supporting one application over the other), please contact: Mr. Greg Orloff, Director of Energy, Fuel Burning and Distribution Equipment, CSA Group, 8501 East Pleasant Valley Road, Cleveland, OH 44131-5516; phone: 216.328.8132; e-mail: [greg.orloff@csagroup.org](mailto:greg.orloff@csagroup.org); and/or Ms. Sonya Bird, Program Manager, International Standards, Underwriters Laboratories, 12 Laboratory Drive, Research Triangle Park, NC 27709; phone: 919.549.1685; e-mail: [Sonya.M.Bird@ul.com](mailto:Sonya.M.Bird@ul.com). All comments should be directed to one or both of the applicants for a response, with a copy to the ExSC Recording Secretary in ANSI's New York Office (fax: 212.840-2298; e-mail: [jthompso@ansi.org](mailto:jthompso@ansi.org)) by November 3, 2014.

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## NSF International Standard for Food Equipment –

# Thermoplastic refuse containers

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## 5 Design and construction

This section contains design and construction requirements for equipment covered within the scope of this Standard.

### 5.1 General design and construction requirements

**5.1.1** Thermoplastic refuse containers and their components shall be sealed and easily cleanable.

**5.1.2** Internal angles or corners of 135° or less shall be smooth and have minimum continuous radii of  $\frac{1}{8}$  in (0.13 in, 3.2 mm).

**5.1.3** Exposed external corners and angles shall be sealed and smooth. They shall be formed with sufficient radii to facilitate drainage.

**5.1.4** Refuse contact surfaces shall be readily accessible and easily cleanable.

**5.1.5** The container shall minimize exterior gnawing edges. This requirement shall not apply to raised reinforcing members, decorative features, or lifting devices that do not have a common wall with the container.

### 5.2 Watertight container requirements

**5.2.1** The container shall be watertight.

**5.2.2** Internal angles or corners of 135° or less shall be smooth and have minimum continuous radii of  $\frac{1}{8}$  in (0.13 in, 3.2 mm).

**5.2.3** Exposed external corners and angles shall be sealed and smooth. They shall be formed with sufficient radii to facilitate drainage.

This "4" is crossed out

**5.2.24** The container shall be designed and manufactured so that refuse empties easily when the container is inverted.

**5.2.5** Refuse contact surfaces shall be readily accessible and easily cleanable.

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~~5.2.6~~ The container shall minimize exterior gnawing edges. This requirement shall not apply to raised reinforcing members, decorative features, or lifting devices that do not have a common wall with the container.

### **5.3 Non-watertight container requirements**

**5.3.1** The container shall be used with a leak proof liner and shall be permanently marked with “This container requires the use of a leak proof liner”, or equivalent.

**5.3.2** Non-watertight containers are exempt from the sealing requirements in 5.1.

*Rationale: Section 5.1 has been reorganized to reflect general requirements applying to all refuse containers and sections 5.2 & 5.3 have been reorganized to reflect specific requirements for watertight and non-watertight refuse containers respectively. The new section 5.3 permits alternate methods of construction that meet the intent of the standard and are intended to recognize new non-watertight container designs when used with an appropriate liner.*

### **5.43 Cover requirements**

~~5.43.1~~ When in place, the cover shall overlap and continuously contact the container opening.

~~5.43.2~~ Thermoplastic refuse containers used primarily outdoors shall have a cover that, when in place, prevents water from entering the container opening.

NOTE – Thermoplastic refuse containers used primarily indoors are exempt from this requirement. Covers with swinging-closure mechanisms are acceptable for indoor use.

~~5.43.3~~ The cover shall minimize exterior gnawing edges. This requirement shall not apply to raised reinforcing members, decorative features, or lifting devices that do not have a common wall with the cover.

~~5.43.4~~ The cover shall be designed and manufactured so that it provides for secure attachment to the container. The disengagement of the attachment device (for removable covers) shall permit the removal of the cover with one hand. Hinged covers are acceptable provided that they can be opened with one hand.

This “4” is crossed out

### **5.54 Requirements for handles/lifting devices**

Handles or lifting devices shall be provided to permit lifting, carrying, and emptying. Handles / lifting devices and attachments shall be readily accessible and easily cleanable.

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Tracking #24i10r1  
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Issue 10, Draft 1, (September 2014)

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## NSF/ANSI Standard for Plastics

# Plumbing system components for recreational vehicles

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### 18 Flexible drain systems

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#### 18.2 Design and construction

18.2.1 All fixtures shall have a minimum free waterway of a nominal 4-25 **0.625** in diameter.

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**Reason: The established 0.625 in. free water way has proven to be acceptable for this application without issue.**

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NSF International Standard  
for Food Equipment –

## Glossary of food equipment terminology

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### 3 Definitions

3.113 **leg**: A fixed or adjustable support extending beneath equipment to the floor or counter top.

3.114 **leak proof**: Designed or constructed to prevent leakage.

3.115 **lid**: A device used to close access openings.

*Rationale Statement: A new liner has joints and seams that are water tight and should be devoid of any holes, cuts or the like through which liquid might enter or escape. The intent is to get bagged refuse out of the food service area into a bulk truck or collection location without leaking.*

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*Note: subsequent definitions alphabetically positioned after “leak proof” will have their respective reference numbers increased by “1”. The presented example above is the term “lid” changing from 3.114 to 3.115.*

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## Sustainability Assessment for Wallcovering Products

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### Section 3 Definitions

Primary packaging - packaging that directly contacts the final product

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#### 5.4.1

The manufacturer shall create a report classifying the material inputs for the product undergoing assessment, including recommended attachment systems and primary packaging material, by the chemical hazard classifications listed below. At a minimum, the manufacturer shall report whether the raw material input to the product, the attachment systems, or the primary packaging material is classified as any of the following based on MSDS/SDS information:

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## BSR/UL 4200A, Standard for Products Incorporating Button or Coin Cell Batteries of Lithium and Similar Technologies

### 1. *Proposed First Edition of the Standard for Safety for Products Incorporating Button or Coin Cell Batteries of Lithium and Similar Technologies, UL 4200A*

1.3 These requirements do not apply to products that by virtue of their dedicated purpose and instructions are not intended to be used in locations where they may be accessed by children, such as products for dedicated professional use or commercial use in locations where children are not normally or typically present.

5.5 Products that locate removable or replaceable button/coin cell batteries inside a battery compartment shall be designed to prevent children from removing the battery by one of the following methods in (a) or (b) below. Compliance is checked by the tests of Section 6.

- a) A tool, such as a screwdriver or coin, is required to open the battery compartment; or
- b) The battery compartment door or cover requires the application of a minimum of two independent and simultaneous movements ~~of the securing mechanism~~ to open by hand.

5.6 If screws or similar fasteners are used to secure the door or cover providing access to a battery compartment, the fasteners shall be captive to the door, ~~or cover,~~ or device.

*Exception: This requirement does not apply to large panel doors on large devices which are not likely to be discarded or left off the equipment.*

6.3.2.1 Portable devices are subjected to drop tests from a height of 1.0 m (39.4 in) onto a horizontal hardwood surface in positions likely to produce the maximum force on the battery compartment or enclosure. Portable devices are subjected to three drops, except ~~remote controls and similar hand-held~~ products are subjected to ten drops. The hardwood surface shall be at least 13-mm (1/2-in) thick, mounted on two layers of nominal 19-mm (3/4-in) thick plywood, ~~and supported placed~~ on a concrete floor. ~~An or equivalent non-resilient surface floor may be used.~~

6.4.1 Button/coin cells that are not intended for user removal or replacement, and are accessible based on 5.3 and 5.4, shall comply with the following test. Compliance is checked by application of a test hook as shown in Figure 6.3, with a force of  $20 \pm 2$  N ( $4.5 \pm 0.4$  lbf), directed outwards, applied for 10 s at all points where this is possible. During the test, the button/coin cell shall not become ~~accessible separated~~ from the product.

7.2 Products incorporating a replaceable button/coin cell battery shall be marked with the safety alert symbol (exclamation point within a triangle) in accordance with the Standard for Product Safety Signs and Labels, ANSI Z535.4, and the words "WARNING: Chemical Burn Hazard. Do not allow batteries to be swallowed. See Manual."

*Exception: Where it is not possible to mark the words due to the size of the product, or where symbols are permitted by the end-use standard in lieu of the wording, the symbol alone may be placed close to the battery compartment.*

8.2 The instructions for products with replaceable button/coin cell batteries shall identify the product containing the button/coin cell battery and state verbatim:

a) The safety alert symbol (exclamation point within a triangle) in accordance with the Standard for Product Safety Signs and Labels, ANSI Z535.4, and the words "WARNING: Chemical Burn Hazard. Do not allow batteries to be swallowed."; and

b) The following or equivalent: "This product contains a button/coin cell battery. If the button/coin cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death. Keep new and used batteries away from children. Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep it away from children. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention."

8.3 The instructions for products with replaceable button/coin cell batteries shall indicate:

a) The button cells shall be disposed of properly, including keeping them away from children; and

b) Even discharged cells may cause injury.

8.4 ~~8.3~~ The instructions for products incorporating non-replaceable button/coin cell batteries shall indicate that the product contains a button/coin cell battery that cannot be replaced by the user, and that the cells shall be disposed of properly.

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## BSR/UL 96, Standard for Safety for Lightning Protection Components

### 1. Permanent Compression Connectors for Class II Installations

17.2 Class II connector fittings shall be provided with threaded bolt or a high compression connector complying with IEEE Standard 837, that secures the cable as specified in Section 10, Connector Fittings.

### 2. Additions and Revisions to Table 9.1 and Table 19.1

Table 9.1

Minimum dimensions of Class I main conductors

Type of conductor	Material	
	Copper	Aluminum
Cable		
Strand Diameter	0.045 inch (1.14 mm)	0.064 inch (1.63 mm)
Weight	0.187 pound/foot (278 gram/meter)	0.095 pound/foot (141 gram/meter)
Area	57,4000 circular mills (29 mm <sup>2</sup> )	98,600 circular mills (50 mm <sup>2</sup> )
Solid Strip		
Thickness	0.051 inch (1.30 mm)	0.064 inch (1.63 mm)
Width <sup>a</sup>	1 inch (25.4 mm)	1.21 inch ( <del>25.4 mm</del> ) ( <u>30.73 mm</u> )
Solid Rod		
Weight	0.187 pound/foot (278 gram/meter)	0.095 pound/foot (141 gram/meter)
Tubular		
Wall Thickness	<u>0.032 inch (0.82 mm)</u>	<u>0.049 inch (1.24 mm)</u>
Weight	<u>0.187 pound/foot (278 gram/meter)</u>	<u>0.095 pound/foot (141 gram/meter)</u>

<sup>a</sup> This is the minimum width for a strip without perforations. If perforated, the minimum intended width is to be increased by the diameter of the perforations.

Table 19.1

## Minimum dimensions for Class II conductors

Type of Conductor	Material	
	Copper	Aluminum
<b>CABLE</b>		
Strand Diameter	0.0571 inch (1.45 mm)	0.072 inch (1.83 mm)
Weight	0.375 (pound/foot) (558 grams/meter)	0.190 (pound/foot) (283 grams/meter)
Area	115,000 Circular mills (58 mm <sup>2</sup> )	192,000 Circular mills (97 mm <sup>2</sup> )
<b>SOLID STRIP</b>		
Thickness	0.064 inch (1.63 mm)	0.1026 inch (2.61 mm)
Width <sup>a</sup>	1.40 inch (35.58 mm)	1.462 inch (37.16 mm)
<b>SOLID ROD</b>		
Weight	<u>0.375 pound/ foot (558 gram/meter)</u>	<u>0.190 pound/foot (283 gram/meter)</u>
<b>TUBULAR</b>		
Wall Thickness	<u>0.065 inch (1.63 mm)</u>	<u>0.065 inch (1.63 mm)</u>
Weight	<u>0.375 pound/foot (558 gram/meter)</u>	<u>0.190 pound/foot (283 gram/meter)</u>
<sup>a</sup> This is the minimum width for a strip without perforations. If perforated, the minimum intended width is to be increased by the diameter of the perforations.		

### 3. Correction in Paragraph 17.1 to Include Additional Reference

17.1 Class II components shall comply with the requirements in 5.1, 6.3 - 6.5, 6.7, 6.8, 7.1, 7.2, 7.4, 7.5, 9.2 and Sections 10 - 13, 15, 16, and 18 - 20.

## BSR/UL 252, Standard for Compressed Gas Regulators

### 1. Proposal to add requirements for backpressure regulators

5.3.1 REGULATOR, BACKPRESSURE – A valve that is installed at the end of a system to provide an obstruction to flow and regulate upstream (back) pressure.

5.5.1 REGULATOR, PRESSURE – A valve that is installed at the beginning of a system or before pressure sensitive equipment to regulate or reduce higher upstream pressure.

5.7 REGULATOR CLASS – Defines the maximum end use pressure for the product based on the gas pressure or the CGA connection provided on the compressed gas regulator. See Table 5.1. For backpressure regulators the maximum operating pressure is supplied by the manufacturer.

**Table 11.1**  
**Inlet pressure for leakage test**

Regulator class <sup>a</sup>	Test pressure,	
	Psig	(MPa)
I	200	1.38
II	375	2.59
III	500	3.45
IV	1800	12.41
V	3000	20.68
VI	4000	27.58
VII	5500	37.92

NOTE - For backpressure regulators the test pressure is the maximum operating pressure as provided by the manufacturer.

<sup>a</sup> For those gases not specifically noted, the test pressure is to be the maximum pressure defined for the Foreign National Standard or the CGA connection provided. Typical pressures as defined by the CGA Pamphlet V-1 fitting are shown. The pressure rating for the test and that marked on the product [see 20.1(e)] are based on a cylinder pressure at 120°F (49°C).

12.4 The low pressure side of the regulator or inlet for a backpressure regulator is to be connected to the air side of a piston-type hydraulic accumulator. For Class I, II, III, and IV regulators, not more than 10 feet (3.05 m) of 1/4 inch (6.35-mm) outside diameter metal tubing having a minimum inside diameter of 0.190 inch (4.82 mm) shall be used. For Class V, VI, and VII regulators, not more than 10 feet of schedule 80 pipe shall be used. The piping and tubing shall have the appropriate pressure rating for the desired test pressure. The accumulator is to have a volume of approximately 600 cubic inches and be provided with a 1/4 turn full-open valve at the air-inlet port. The air inlet port is to be charged with air or nitrogen from a conventional cylinder and compressed to the appropriate pressure specified in 11.3 by applying hydrostatic pressure at the hydraulic-inlet port. The 1/4-turn valve to the regulator is then to be opened as suddenly as possible.

## BSR/UL 300, Standard for Safety for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment

### 2. Grease auto-ignition temperature

#### PROPOSAL

6.2.5 A two minute free burn shall commence, with the energy source remaining on during the duration of the free burn, at auto-ignition or when the temperature reaches 685°F (363°C), whichever occurs last. The liquid grease is to have an auto-ignition temperature not less than 685°F (363°C) when tested with deep fat fryers specified in 6.2.1. ~~At auto-ignition or when the temperature reaches 685°F (363°C), whichever occurs last, the fire is to burn freely with the energy source remaining on for 2 minutes.~~ When the test vat of the fryer includes an integral drip board, the vat is to be filled so that the grease level is at the top of the drip board when the grease temperature is between 550 - 600°F (288 - 316°C). In no case shall the grease level for any type of fryer be more than 3 inches (76.2 mm) below the top of the vat when the grease temperature is between 550 - 600°F (288 - 316°C).

6.4.5 A two minute free burn shall commence, with the energy source remaining on during the duration of the free burn, at auto-ignition or when the temperature reaches 685°F (363°C), whichever occurs last. The liquid grease is to have an auto-ignition temperature of not less than 685°F (363°C). ~~At auto-ignition or when the temperature reaches 685°F (363°C), whichever occurs last, the fire is to burn freely with the energy source remaining on for 2 minutes.~~ The grease temperature is to be measured with a thermocouple located 1/2 inch (12.7 mm) below the grease surface not closer than 3 inches (76.2 mm) to the test vessel wall.

6.12.5 A two minute free burn shall commence, with the energy source remaining on during the duration of the free burn, at auto-ignition or when the temperature reaches 685°F (363°C), whichever occurs last. The liquid grease is to have an auto-ignition temperature of not less than 685°F (363°C). ~~At auto-ignition or when the temperature reaches 685°F (363°C), whichever occurs last, the fire is to burn freely with the energy source remaining on for 2 minutes.~~ The grease temperature is to be measured with a thermocouple located 1/2 inch (12.7 mm) below the grease surface not closer than 3 inches (76.2 mm) to the test vessel wall.

## **BSR/UL 514C, Standard for Safety for Nonmetallic Outlet Boxes, Flush-Device Boxes, and Covers**

### **1. Clarification of the Use of Sealing Compound for Damming Scrub-Water Solution When Conducting Scrub-Water Exclusion Test.**

16.4 A floor box assembly is to be installed in a section of floor constructed to represent an installation as intended by the manufacturer. The cover plate is to be fully secured. A minimum 1/4-in (6.3 mm) high leveled dam of sealing compound, or other suitable impermeable material, shall be constructed around the leveled section of floor and shall be no closer than 2 in (50 mm) from the edge of the floor box or cover flange in order to retain the scrub-water solution.

### **4. Revisions to Improve the Correlation of Fixture/Luminaire and Ceiling Suspended Fan Support Requirements Between UL 514C and the Standard for Metallic Outlet Boxes, UL 514A.**

11.1 In addition to the requirements for nonmetallic outlet boxes in this Standard, an outlet box intended to support a ceiling-suspended fan shall comply with the requirements in Section 32.2 and the appropriate requirements for Fixture/Luminaire Support and for Ceiling Suspended Fan Support in the Standard for Metallic Outlet Boxes, UL 514A, including markings and installation instructions, as indicated "in the United States."

25.6 In addition to the requirements for nonmetallic outlet boxes in this standard, an outlet box intended for fixture/luminaire support shall comply with the requirements in Section 32.2 and the appropriate requirements for Fixture/Luminaire Support and for Ceiling Suspended Fan Support in the Standard for Metallic Outlet Boxes, UL 514A, including markings and installation instructions, as indicated "in the United States."

25.7 An outlet box and bar hanger assembly shall comply with the appropriate requirements for Fixture/Luminaire Support, including markings, as indicated "in the United States."

### **5. Revisions to Improve the Correlation of Floor Box Requirements Between UL 514C and the Standard for Metallic Outlet Boxes, UL 514A.**

10.1 In addition to the requirements for nonmetallic outlet boxes in this Standard, a floor box shall comply with the appropriate requirements for Floor Boxes in the Standard for Metallic Outlet Boxes, UL 514A, including markings and installation instructions, as indicated "in the United States."

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## BSR/UL 817, Standard for Safety for Cord Sets and Power-Supply Cords

### 1. The Proposed 12th edition of UL 817, the Standard for Cord Sets and Power-Supply Cords

5.3.6.1 A hospital grade molded-on connector shall comply with the requirements in 7.7 and with all other applicable requirements in this standard. These requirements are applicable only to configurations 5-15R, 5-20R, 6-15R, and 6-20R in accordance with ANSI/NEMA WD 6. Connectors shall be of the straight type (longitudinal axis of flexible cord parallel to that of the ~~line-blades~~ contacts), or right-angle type (longitudinal axis of flexible cord at right angle to that of the contacts), molded onto flexible cord.

5.4.7.2 The material of molded-on bodies of attachment plugs or current taps that serve as the enclosure for an overcurrent protective device shall operate within its recognized temperature limits when tested in accordance with ~~UL 498, the Normal~~ the Temperature Test in this standard. The test shall be performed with a rated fuse installed. The material shall not flame or melt to the extent that live parts are exposed or a replaceable fuse cannot be replaced. The material of any other type of enclosure shall be comprised of material in compliance with ~~UL 498~~ this standard and shall have a minimum flammability rating of V-2.

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## BSR/UL 1069, Standard for Hospital Signaling and Nurse Call Equipment

### 1. Proposed new test methods for frequency hopping spread spectrum technologies

3.49.1 MESSAGE - Communicated data that contains specific information relating to the status of the product and is transmitted via a wired or wireless pathway from an origin to a destination.

45.1 The background of the panel in which the signal word appears shall be a specific color. The color of the panel depends on the signal word used for the marking of the label. The background color of the panel for each signal word is as follows: yellow for "CAUTION", orange for "WARNING", and red for "DANGER". Also, there are specific color requirements for the text and background of the message notice portion (risk identification and risk avoidance) of the marking.

49.4.1 Where a product utilizes multiple frequencies, a receiver shall not respond to any signal having:

- a) A signal strength equivalent to the most powerful system transmitter and
- b) A frequency shifted more than two working channel widths of the system, as measured between the manufacturer's rated upper and lower frequency limits of the receiver/transmitter combination.

For example, when the communication channel is 5 megahertz wide, any signal with a similar band width, even one with identical coding, the receiver shall ignore the center frequency of which is shifted by more than 10 megahertz.

Exception: This requirement does not apply to products employing spread spectrum technology.

49.6.1 For the purpose of this requirement, "clash error" is defined as the misinterpretation by the receiver of two simultaneous or overlapping valid transmitter signals that results in the receiver locking-in and annunciating a third (false) call.

Exception No. 1: Section 49.6, Clash Error, is not applicable for products that only permit one device at a time to communicate on the wireless network such as listen-before-talk (LBT), access protocol, or similar technique.

Exception No. 2: The requirements of 49.6 are not applicable to products utilizing spread spectrum technology.

49.7.3.1 A receiver/transmitter combination at the minimum declared reference signal level shall operate for its intended signaling performance in the noise environment described in 49.7.3.2 and 49.7.3.3.

49.7.3.4 Operation of the receiver/transmitter combination shall comply with the requirements in 49.7.1 - 49.7.3, 49.8.1, and 49.8.2, while in the noise environment.

Exception: The noise environment is not applicable to products utilizing spread spectrum technology.

49.10.2 During the aging test, the unit is to be powered from either a separate power supply adjusted to the rated nominal battery voltage, or the battery if it is capable of maintaining nominal voltage for the test duration.

49.11.2 For the purpose of these requirements, the minimum signal strength required, as declared by the manufacturer for normal operating performance is designated as the reference signal level. The ambient

radio-frequency noise level that would affect normal operating performance is designated as the maximum ambient noise level.

49.11.4 For test purposes, products employing spread spectrum technology shall provide a means to establish the reference signal level by preventing frequency hopping.

**2. Proposal to provide an additional option (the use of a symbol) for marking a device, such as a switch, intended for emergency service**

[Note: Only the item proposed to be revised is shown. The remainder of the items in 43.1 are not proposed to be revised and are not shown.]

43.1 A signaling unit shall be plainly and permanently marked where the marking is readily visible after installation, with the following information. Except as indicated otherwise, the information shall appear directly on the unit or on a separate installation diagram referenced in the marking:

- j) For a device, such as a switch, intended for emergency service, the word "EMERGENCY" or an equivalent wording describing an emergency condition, such as "PULL FOR HELP", or a representative symbol that describes the intended function of the switch. If a symbol is used, the instruction shall describe the symbol and meaning of the symbol. The marking shall be permanent, in a distinctive color (preferably red), and on the front of the device. Other type units shall be marked regarding their function.

**3. Proposed changes to the battery life test**

50.1.1 When a primary battery is used as the main source of power for a low power radio transmitter, it shall provide power to the unit under intended ambient conditions for a manufacturer's published normal signaling service battery life and then operate the product for a minimum of 5 minutes of call, followed by 7 days of trouble signal. Regardless of manufacturer's specified battery life, the tests specified in 50.2.1-50.4.3 shall be conducted. Data on battery life, including discharge curves, shall be provided for the investigation to evaluate battery performance characteristics.

50.1.2 Where data on battery life is not available, six samples of the battery (or sets of batteries when more than one is used for primary power) are to be tested under each of the following ambient conditions for the time period determined in 50.1.1 while connected to the product itself or a simulated load:

- a) Room Ambient: 73.4 ±5°F (23 ±3°C), 30 - 50 percent relative humidity;
- b) High Temperature: 120 ±3°F (49 ±2°C);
- c) Low Temperature: 32 ±3°F (0 ±2°C);
- d) Humidity: 86 ±3°F (30 ±2°C), 85 ±5 percent relative humidity.

Exception: Products intended only for indoor occupied environments are not required to meet conditions (b) (d).

**4. Reliability Calculation**

**Table 22.1  
Maximum temperature rises**

Device or material	°C	(°F)
--------------------	----	------

Any point on rectifiers:		
a. Copper oxide	30	54
b. Germanium	50	90
c. Magnesium-copper sulphide	95	171
d. Selenium	50	90
e. Silicon	75	135
Rubber or thermoplastic insulation	35 <sup>a</sup>	63 <sup>a</sup>
Varnished-cloth insulation	60	108
Fuses	65	117
Surfaces adjacent to or upon which the unit may be mounted in service	65	117
Wood or other combustible material	65	117
Fiber used as electrical insulation	65	117
Class 105 insulation	65 <sup>a</sup>	117 <sup>c</sup>
Class 130 insulation	85 <sup>c</sup>	153 <sup>c</sup>
Phenolic composition used as electrical insulation	125	225
Capacitors	40	72
Solid-state devices (transistors, silicon-controlled rectifiers, integrated circuits)	See footnote d	
Wire-wound resistor	150 <sup>b</sup>	302 <sup>b</sup>
Carbon resistor	See footnote e	
Sealing compound	15°C (27°F) less than the melting point <sup>b</sup>	
<sup>a</sup> This limitation does not apply to an insulated conductor or a material that has been investigated and determined to be acceptable for a higher temperature.		
<sup>b</sup> The specified values are limiting temperatures, not maximum temperature rises.		
<sup>c</sup> 10°C (18°F) higher temperature rise is acceptable on coil insulation if measured by change-in resistance method.		
<sup>d</sup> The temperature of a solid-state device shall not exceed 50 percent of its rating during the normal standby condition. The temperature of a solid-state device shall not exceed 75 percent of its rated temperature under any other condition of operation of the complete unit that produces the maximum temperature dissipation of its components. For reference purposes 0°C (32°F) is to be considered as 0 percent. For integrated circuits the loading factor shall not exceed 50 percent of its rating under the normal standby condition and 75 percent under any condition of operation. Both solid-state components and integrated circuits are to be operated up to the maximum ratings, under any one of the following conditions.		
1) All components comply with the requirements in MIL-STD-883E or equivalent such that a failure rate is equal to or less than 0.5 failures per million hours of operation.		
2) A quality control program is established by the manufacturer consisting of inspection and test of 100 percent of all components, either on an individual basis, as part of a subassembly, or equivalent.		
3) Each assembled production unit is subjected to a burn in test for 24 hours while connected to a source of rated nameplate voltage and frequency in an ambient of at least 49°C (120°F) followed by operational tasks.		

<sup>e</sup> The maximum temperature on a carbon resistor shall not be greater than 50°C (122°F) during the normal standby condition and not greater than 75°C (167°F) during a signaling condition.

## 5. Editorial Corrections

**Table 28.1**  
**Maximum leakage current**

<b>Test<sup>a</sup></b>	<b>Maximum leakage current - microamperes (AC or DC)</b>
a	5,000
e <u>b</u>	500
e <u>c</u>	300
e <u>d</u>	300

<sup>a</sup> Letter corresponds to applicable item of 28.1.

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## BSR/UL 1310, Standard for Class 2 Power Units

### 1. Addition of requirements to address a flush device cover plate with integral power supply with Class 2 output connectors with or without a night light

#### PROPOSAL

##### 81 General

81.1 The requirements in Sections 81 - 89 apply to a flush device cover plate with integral power supply with Class 2 output connector(s) with or without a night light. These devices shall comply with the applicable requirements of this Standard except as modified by the requirements in Sections 81 - 89.

81.2 These requirements are applicable to flush-type, parallel blade construction of the ANSI/NEMA 1-15R or 5-15R configurations only. These requirements do not cover products incorporating a flush device cover plate with connection means other than plug blades.

81.3 These requirements are applicable only to non-metallic flush device cover plates that are intended for indoor use only.

##### 82 Construction

82.1 In addition to the construction, performance, and marking requirements contained in this Standard, a flush device cover plate with integral power supply with one or more Class 2 output low-voltage connectors with or without a night light shall comply with the applicable requirements of the Standard for Cover Plates for Flush-Mounted Wiring Devices, UL 514D.

82.2 The flush device cover plate profile shall not hinder the complete seating of an attachment plug of the type intended for use with the receptacle.

82.3 A flush device cover plate with integral power supply with one or more Class 2 output low-voltage connectors with a night light shall also comply with the applicable requirements of the Standard for Direct Plug-In Nightlights, UL 1786.

82.4 The Class 2 low-voltage output connectors of a flush device cover plate with integral power supply with one or more Class 2 output low-voltage connectors with or without a night light shall be insulated and extend beyond the plane of the receptacle mounting yoke and be accessible when the cover plate is installed as intended.

82.5 The Class 2 low-voltage power supply shall be configured for supply from a single branch circuit receptacle.

82.6 A flush device cover plate with integral power supply with one or more Class 2 output low-voltage connectors with or without a night light intended for installation requiring the removal of a receptacle cover plate shall comply with the following:

- a) The device shall be able to be fully inserted in the outlets; and

- b) The device shall be able to be fully seated against the wall such that the outlet box opening in the wall is completely covered.

### **83 Polymeric Enclosures**

83.1 In addition to the insulating material requirements of the Standard for Cover Plates for Flush-Mounted Wiring Devices, UL 514D, a polymeric material used to enclose the power unit circuitry shall have a flame rating not less than 5V, in accordance with the Standard for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances, UL 94, or comply with the 127 mm Flame Test specified in the Standard for Polymeric Material - Use in Electrical Equipment Evaluations, UL 746C.

### **84 Spacings**

84.1 A flush device cover plate with integral power supply with one or more Class 2 output low-voltage connectors shall maintain a minimum of a 1/4 inch (6.35 mm) separation of branch circuit wiring and Class 2 connections after installation. Compliance shall be determined by measurement and if required, the Assembly Test in Section 87.

84.2 Class 2 output low-voltage connectors shall be located as to prevent a line blade of an attachment plug from being improperly inserted into the Class 2 output low-voltage connector (i.e. USB) slot and the line contacts of a receptacle. Compliance shall be determined by inspection and if required, the Assembly Test in Section 87.

### **85 Configurations**

85.1 The device shall comply with the cover plate dimensions as specified in Wiring Devices - Dimensional Specifications, NEMA WD 6, intended to accommodate the intended flush-mounted wiring device.

85.2 The blade portion of the device shall comply with the NEMA 1-15P or 5-15P blade dimensions specified in Wiring Devices - Dimensional Specifications, NEMA WD 6.

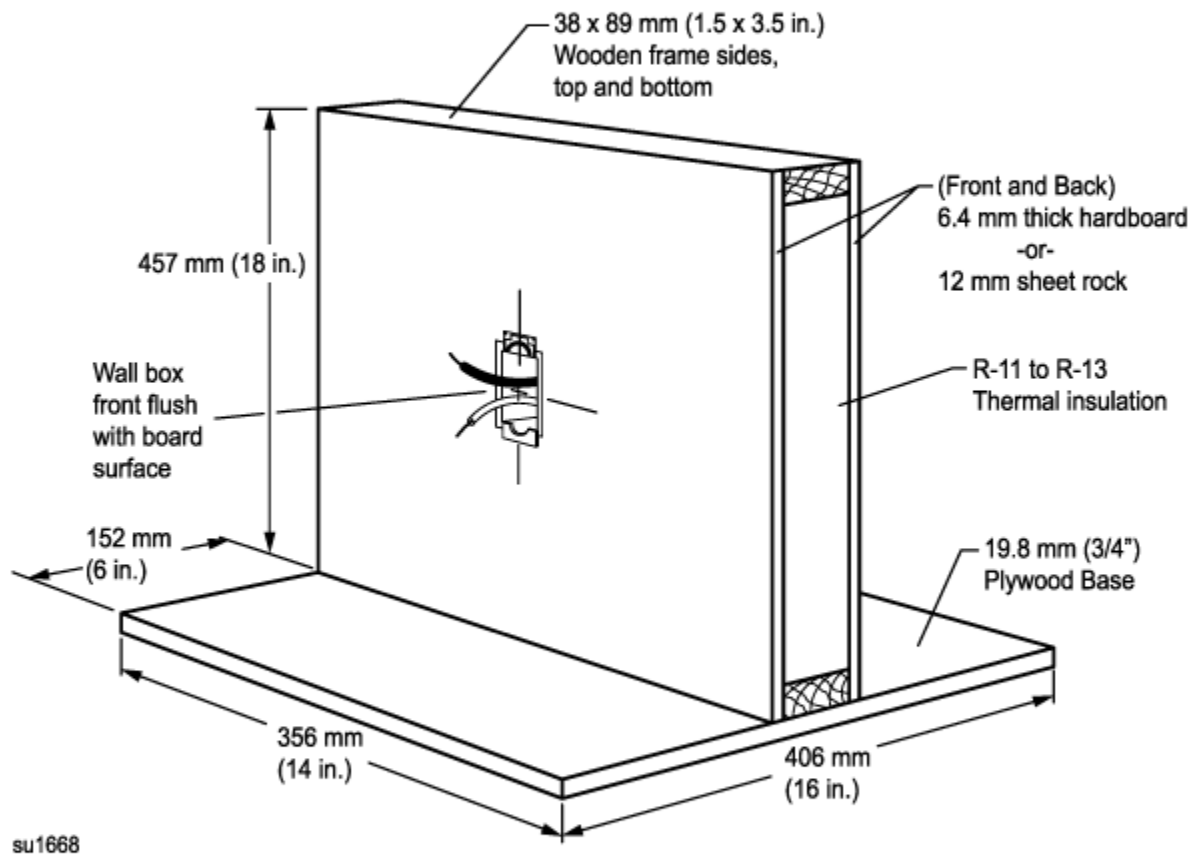
### **86 Class 2 Output Power Supply Testing**

86.1 For all testing to this Standard, except for the Assembly Test in Section 87, the device is to be energized from a duplex receptacle wired to a source of supply as intended. The duplex receptacle is to be mounted in a non-metallic outlet box test wall according to Figure 86.1. The outlet box is to be mounted in a vertical wall section as follows:

- a) With plywood or gypsum wallboard surfaces; and
- b) Loosely filled with fiberglass or equivalent thermal insulation.

**Figure 86.1**

**Test setup**



NOTE: Duplex receptacle is to be wired as intended and installed into the outlet box.

86.2 Under any condition of low voltage output loading, individually or collectively, tests are to be conducted to represent the worst case of:

- a) No load on the branch circuit receptacle outlet; and
- b) Full load from the branch circuit receptacle outlet.

## **87 Assembly Test**

87.1 A flush device cover plate with integral power supply with one or more Class 2 output low-voltage connectors with or without a night light shall comply with all of the following:

- a) Maintain a minimum of a 1/4 inch (6.35 mm) separation of branch circuit wiring and Class 2 connections;
- b) Not permit contact to be made between the probes shown in Figure 16.1, Figure 16.2, or Figure 16.4 and any live part through the Class 2 output connectors or through any opening or joint surrounding the installed device; and
- c) Not permit contact to be made between the Class 2 output connector and receptacle line contacts with a NEMA 1-15P attachment plug.

87.2 The device is to be checked for compliance with 87.1(a). Following assembly of the test setup shown in Figure 86.1, the device is to be checked for compliance with 87.1(b). The probes of Figure 16.1, Figure 16.2, or Figure 16.4 are to be applied to any opening or joint surrounding the Class 2 output and through the Class 2 output connector slot openings with a force of 8 ounces (2.2 N) in attempt to contact live parts. A suitable indicating device (such as an ohmmeter, battery-and-buzzer combination, or similar device) is to be connected between the probe and the wiring terminal of the receptacle to determine whether contact is made. The probes are to be inserted in the Class 2 output connector slot opening successively in three directions in any orientation that may permit access to contact live parts. The probes are to be applied for approximately 5 seconds in each of the three directions. During each application, the probes are not to be moved or rotated and are to be withdrawn when moving from one direction to the next.

87.3 The same representative assembly as described in 87.2 is to be checked for compliance with 87.1(c), using a NEMA 1-15P polarized attachment plug. One blade is to be inserted into the slot openings of the Class 2 output connector and the other blade into the slot openings of the receptacle contacts with a force of 10 pounds (45 N) in an attempt to contact live parts. A suitable indicating device (such as an ohmmeter, battery-and-buzzer combination, or similar device) is to be connected between the Class 2 output connector and the contacts of the receptacle to determine whether contact is made. The attachment plug is to be manipulated in any direction or orientation that may permit access to contact live parts. The attachment plug is to be applied for approximately 5 seconds in each direction.

## **88 Installation Instructions**

88.1 Installation instructions shall appear on the device, on the smallest unit container, or on a separate instruction sheet provided with each device. If the installation instructions are provided on the smallest unit container or on a separate sheet, they shall be attached to the device in such a manner that they are unable to become detached during normal conditions of handling and storage prior to initial installation or usage. The use of an individual carton, blister pack, or



equivalent securing of the device to the instructions, meets the intent of the requirement. However, friction attachment shall not be employed.

88.2 A device intended for installation with receptacle cover plate or cover plate screw removed shall be provided with detailed installation instructions to enable proper installation of the device with the cover plate removed. The inclusion of a pictorial representation is optional.

88.3 A device intended for installation over receptacle cover plates of specific dimensions shall be provided with installation instructions that describe the maximum overall dimensions of the receptacle cover plate with which the device is intended to be used.

88.4 A device having blade spacing not in accordance with the Standard for Current Taps and Adapters, UL 498A, Figure 9.1 - Blade and Contact Spacing, shall be provided with installation instructions that specify, by catalog number or equivalent designation, the receptacles with which the device is to be used.

88.5 Instructions shall include information to alert the user that a single branch circuit shall supply the device. The instructions shall include a pictorial or photograph illustrating proper installation.

### **89 Markings**

89.1 The output Class 2 connectors shall be marked as being "Class 2" and marked with the output electrical rating. These markings shall be permanently marked and visible after installation.

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## BSR/UL 1696, Standard for Safety for Nonmetallic Mechanical Protection Tubing (NMPT)

### Recirculation of changes for the proposed Second Edition of the Standard for Mechanical Protection Tubing (MPT) and Fittings

## PROPOSAL

### (SCOPE)

1.1 This Standard applies to nonmetallic or composite mechanical protection tubing (MPT), and nonmetallic, composite or metallic fittings, and clamps used for the support, routing and mechanical protection of conductors, wires, and cables. The MPT, fittings, and clamps are intended to be used to interconnect separate component assemblies or consoles of electrical devices, such as robotics, medical or X-ray equipment. The mechanical protection afforded the internal wiring contained within the tubing is considered equivalent to the protection provided by a type SJT flexible cord. Mechanical protection tubing (MPT) may be submitted without fittings, clamps, etc.

1.2 The MPT, fittings, and clamps covered by this Standard are not intended for use as a wiring method in accordance with NFPA 70, National Electrical Code (NEC) and CSA C22.1-12, Canadian Electrical Code (CEC CE Code), Part I.

### (NORMATIVE REFERENCES)

2.1 Where reference is made to other publications, such reference shall be considered to refer to the latest edition and all amendments published to that edition up to the time when this Standard was approved.

#### ASTM<sup>+</sup> Standards

ASTM D 2444

*Standard Test Method for Determination of the Impact Resistance of Thermoplastic Pipe and Fittings by Means of a Tup (Falling Weight)*

ASTM D 5025

*Standard Specification for Laboratory Burner Used for Small-Scale Burning Tests on Plastic Materials*

ASTM D 5207

*Standard Practice for Calibration of 20 and 125 mm Test Flames for Small-Scale Burning Tests on Plastic Materials*

ASTM D 5423

*Standard Specification for Forced - Convection Laboratory Ovens for Evaluation of Electrical Insulation*

ASTM G 155

*Standard Practice for Operating Xenon Arc Light Apparatus for Exposure for Nonmetallic Materials*

#### CSA Group Standards

Note: For products intended for use in Canada, general requirements are given in CAN/CSA-C22.2 No. 0

C22.1-12 02  
*Canadian Electrical Code (CEC Code), Part I*

C22.2- No. 0-10  
*General requirements - Canadian Electrical Code, Part II*

CAN/CSA-C22.2 No. 0.17  
*Evaluation of Properties of Polymeric Materials*

CSA C22.2 No. 211.0  
*General Requirements and Methods of Testing for Nonmetallic Conduit*

CSA C22.2 No. 18.3  
*Conduit, Tubing, and Cable Fittings*

### **National Research Council Canada**

*National Building Code of Canada, 2010*

### **UL Standards**

UL 514B  
*Conduit, Tubing, and Cable Fittings*

UL 746A  
*Standard for Polymeric Materials Short Term Property Evaluations*

UL 746B  
*Polymeric Materials - Long Term Property Evaluations*

UL 94  
*Test for Flammability of Plastic Materials for Parts in Devices and Appliances*

‡ *American Society for Testing and Materials.*

### **(GENERAL REQUIREMENTS)**

4.1 MPT covered by this Standard is intended for use as a system with particular fittings or clamps in compliance with Clause 5.5.

Note: When intended for use with clamps, MPT may be evaluated without identified particular fittings.

### **(ELECTRICAL RESISTANCE TEST)**

6.13.2 The resistance between the points specified in Clause 6.13.3 shall not ~~be~~ cause a voltage drop greater than 50 mV. The resistance shall be determined by passing a direct current of 30 amperes through the fitting and connections between the fitting, the MPT and the enclosure to which the fitting is assembled, and through a 305-mm (12-inch) length of MPT. For a connector intended for assembly in a knockout, a plate used to simulate an enclosure shall be allowed to be used for the test.

(MARKING)

### 7.1 MPT

7.1.1 The MPT or the smallest unit package of the MPT shall be legibly marked with the following:

- a) The manufacturer's name, tradename, trademark, or other descriptive marking that identifies the organization responsible for the product;
- b) "Mechanical Protection Tubing" and/or "MPT", or for nonmetallic MPT "NMPT" (~~"NMPT-B" or "NMPT-C" is permitted~~);
- c) Date of manufacture or manufacturer's code number;
- d) "Outdoors", "For Outdoor Use" or equivalent wording for MPT in compliance with Clause 6.8;
- e) "FT4" for products meeting the requirements of Clause 6.9; and
- f) Maximum working temperature in accordance with Clause 4.6.

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## BSR/UL 1838, Standard for Low Voltage Landscape Lighting Systems

### 1. Editorial Revision.

#### PROPOSAL

1.5 The luminaires and low voltage system components covered by this standard are intended for garden, walkway, patio areas, or similar outdoor locations and for certain indoor locations such as atriums and shopping malls. The power units are to be installed indoors or outdoors in accordance with the marking on the product (see 6.3).

### 2. Power Supply Cord Types.

#### PROPOSAL

24.3.1.2 The power supply cord provided with a power unit shall be a junior or hard service cord such as type SJW, SJOW, SJTW, SJTOW, SW, SOW, STW, or STOW.

*Exception: The cord is not required to be rated for outdoor use when the power unit is marked for indoor use only.*

### 3. Location of marking for wet location power units with doors

#### PROPOSAL

50.21 A power unit tested in accordance with the Exception to 37.3.3 shall be provided with a marking on the door in Form A<sub>1</sub> stating that the door must be closed.

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## BSR/UL 2239, Standard for Safety for Hardware for the Support of Conduit, Tubing, and Cable

### 5. Additional Requirements for Protector Bushings.

9B.4.1 The screw shall be driven by means of a corded screw gun with variable torque capability for no more than 4 seconds, with the screw gun operating at a rotational speed greater than 500 rpm and set at maximum torque. The **PROTECTOR BUSHING** shall be considered in compliance with Clause 9B.1.2 if the screw gun turns freely due to shearing of the threads formed in the wood stud.

### 6. Additional Requirements for Protector Plates.

5.2.4 A **PROTECTOR PLATE** shall comply with the **PROTECTOR PLATE** test in Clause 9C. A **PROTECTOR PLATE** or **PROTECTOR BUSHING** shall provide sufficient resistance to penetration to create ready awareness of the presence of concealed wires and cables through a framing member beneath, and a degree of protection from driven screws and nails.

The **PROTECTOR PLATE** shall be made of steel.

5.2.4A In the United States, a **PROTECTOR PLATE** shall be made of steel a minimum of 1.6 mm (1/16 in) thick, and shall be provided with corrosion protection in accordance with 5.3.1.

In Canada, a **PROTECTOR PLATE** shall be made of steel a minimum of 1.3 mm (0.05 in) thick, or other materials of equivalent resistance to nail penetration. A **PROTECTOR PLATE** of ferrous metal shall be provided with protection against corrosion in accordance with 5.3.1.

5.2.4B A **PROTECTOR BUSHING** shall comply with the requirements in Clause 9B.

### 9C Product Testing for **PROTECTOR PLATES**

9C.1 **PROTECTOR PLATES** shall not be penetrated through when tested in accordance with Clauses 9C.2 and 9C.3. A minimum of 6 samples each for method a) and b) of 9C.2 shall be tested.

9C.2 A **PROTECTOR PLATE** shall be installed in accordance with the manufacturer's instructions on the narrow side of the wood stud. The wood stud shall be rigidly fixed such that it cannot move in any direction during the test. See Figure 2. The test shall be conducted:

a) — With drywall screws 41.3 mm (1-5/8 in) long driven by a corded power drill having a minimum of 3600 rpm. Self-drilling drywall screws shall not be used. The drywall screw shall be driven at a pressure of  $89 \pm 5$  N ( $20 \pm 1.1$  lbf) applied against the head of the drywall screw. If variable torque settings on the screw gun are available, the maximum setting shall be selected. The screw shall not drift on the **PROTECTOR PLATE** surface. Otherwise guidance shall be provided.

If using a plywood screw guide template with pilot holes, the template shall be positioned over the plate and shall have a pilot hole with a diameter equal to the diameter of the shank of the drywall screw.

b) — With drywall nails 41.3 mm (1-5/8 in) long. The nail shall be driven through a 19 mm (3/4 in) plywood guide by means of a 1.36 kg (3 lb) 28.6 mm (1-1/8 in) diameter cylindrical steel weight having a flat 25.4 mm (1 in) diameter impact surface with no sharp edges, dropped a vertical distance of 279 mm (11 in). The guide shall be pre-drilled with pilot holes having the same diameter as the nail shank, and positioned such that the impact on the nail causes the nail to be driven into the plate rather than to project away.

9C.3 The screws shall be withdrawn. The PROTECTOR PLATE shall be removed for visual inspection.

9C.4 A PROTECTOR PLATE is considered to comply with Clause 9C.1 if the:

- a) Drywall screws do not penetrate through after 8 seconds of continuous load and screw gun operation including ramp up time; and
- b) Drywall nails do not penetrate through after a single impact from the 1.36-kg (3-lb) weight.

**Figure 2**

**Test set-up for protector plates**

**(See Clause 9C.2)**

**8. Deletion of Insulated Standoff Requirements for Canada in Accordance with the CEC.**

5.2.5 A nonmetallic STANDOFF for use with nonmetallic-sheathed cable shall comply with Clause 9.

**9 Product Testing for standoffs**

**9.1 Mold stress**

9.1.1 There shall not be a dimensional change greater than 5 percent in a nonmetallic STANDOFF after being conditioned in an air-circulating oven for 168 h at  $112 \pm 1$  °C ( $234 \pm 2$  °F).

**9.2 Voltage withstand**

9.2.1 A STANDOFF shall be capable of withstanding an ac voltage of 1.0 kV without breakdown for a period of 1 min at a temperature of  $23 \pm 5$  °C ( $73 \pm 10$  °F). The STANDOFF shall be installed to a steel stud in the intended manner. Voltage shall be applied to a metal mandrel that is held in place by the STANDOFF. The voltage shall be applied through an electrode attached to the steel stud with the mandrel connected to ground.

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