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## American National Standards

### Call for comment on proposals listed

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

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

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

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

\* Standard for consumer products

## Comment Deadline: December 6, 2015

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

#### New National Adoption

BSR/ASA S3.44-201X/Part 1/ISO 1999-2013 (MOD), Estimation of Noise-Induced Hearing Loss - Part 1: Method for Calculating Expected Noise-Induced Permanent Threshold Shift (a modified nationally adopted international standard) (national adoption of ISO 1999:2013 with modifications and revision of ANSI S3.44-1996 (R2006))

Specifies a method for calculating the expected noise-induced permanent threshold shift in the hearing threshold levels of adult populations due to various levels and durations of noise exposure; it provides the basis for calculating hearing disability according to various formulae when the hearing threshold levels at commonly measured audiometric frequencies, or combinations of such frequencies, exceed a certain value.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Susan Blaeser, (631) 390-0215, [asastds@acousticalsociety.org](mailto:asastds@acousticalsociety.org)

### AWWA (American Water Works Association)

#### Revision

BSR/AWWA D107-201x, Composite Elevated Tanks for Water Storage (revision of ANSI/AWWA D107-2010)

This standard describes the design, construction, inspection, and testing of composite elevated tanks that use a welded steel tank for watertight containment and a single pedestal concrete support structure. Requirements for the steel tank, concrete support structure, foundation, and accessories are included. Site selection and procurement; tank sizing; postcommissioning inspection and maintenance; and the design, operation, and control of the water distribution system that connects to the composite elevated tank are beyond the scope of this standard.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Paul Olson, (303) 347-6178, [polson@awwa.org](mailto:polson@awwa.org); [vdavid@awwa.org](mailto:vdavid@awwa.org)

### NSF (NSF International)

#### Revision

BSR/NSF 61-201x (i129), Drinking Water System Components - Health Effects (revision of ANSI/NSF 61-2015 (i125))

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.

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

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

### UL (Underwriters Laboratories, Inc.)

#### New Standard

BSR/UL 489B-201X, Standard for Safety for Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems (new standard)

Proposed first edition of the Standard for Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures for Use with Photovoltaic (PV) Systems, UL 489B.

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

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

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 153-201x, Standard for Safety for Portable Electric Luminaires (revision of ANSI/UL 153-2014)

The following changes in requirements to the Standard for Portable Electric Luminaires, UL 153, are being proposed: (1) Revise requirements for power supply cord length for chain-suspended portable luminaires.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Heather Sakellariou, UL-IL, [Heather.Sakellariou@ul.com](mailto:Heather.Sakellariou@ul.com)

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 486C-201x, Standard for Safety for Splicing Wire Connectors (revision of ANSI/UL 486C-2013)

The following topic is being proposed: (1) Delete restriction on compact conductor size allowance.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Marcia Kawate, Marcia.M.Kawate@ul.com

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 486A-486B-201x, Standard for Safety for Wire Connectors (revision of ANSI/UL 486A-486B-2013,)

The following topic is being proposed: (1) Delete restriction on compact conductor size allowance.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Marcia Kawate, Marcia.M.Kawate@ul.com

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 817-2015, Standard for Safety for Cord Sets and Power-Supply Cords (Proposal dated 11-06-15) (revision of ANSI/UL 817-2015)

This Recirculation proposal provides revisions to the UL 817 proposal dated 2015-07-10.

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

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

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 62841-1-201x, Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 1: General Requirements (revision of ANSI/UL 62841-1-2015)

(1) Proposed addition of clause 8.2DV to require markings on tools be written in the official language of the country in which the tool is sold.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Beth Northcott, (847) 664-3198, [Elizabeth.Northcott@ul.com](mailto:Elizabeth.Northcott@ul.com)

## Comment Deadline: December 21, 2015

### ASSE (ASC A10) (American Society of Safety Engineers)

#### Revision

BSR/ASSE A10.25-201X, Sanitation in Construction (revision of ANSI/ASSE A10.25-2009)

This standard shall apply to all construction job sites. The standard covers potable water, toilet, and hand-washing facilities located on a job site.

Single copy price: \$70.00

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

Order from: Tim 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

### ASTM (ASTM International)

#### New Standard

BSR/ASTM WK47007-201x, Specification for Impact Attenuation of Turf Playing Systems designated for IRB Rugby as Measured in the Field (new standard)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

Order from: Corice Leonard, (610) 832-9744, [accreditation@astm.org](mailto:accreditation@astm.org)

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

### ASTM (ASTM International)

#### New Standard

BSR/ASTM WK51511-201x, Test Method for Determining Impact Attenuation of Surfacing Materials within the Use Zone of Playground Equipment as Tested in the Field (new standard)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

Order from: Corice Leonard, (610) 832-9744, [accreditation@astm.org](mailto:accreditation@astm.org)

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

### ASTM (ASTM International)

#### Reaffirmation

BSR/ASTM F1799-2009 (R201x), Guide for Shipboard Generated Waste Management Audits (reaffirmation of ANSI/ASTM F1799-1997 (R2009))

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

Order from: Corice Leonard, (610) 832-9744, [accreditation@astm.org](mailto:accreditation@astm.org)

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

### ASTM (ASTM International)

#### Reaffirmation

BSR/ASTM F1936-2010 (R201x), Specification for Impact Attenuation of Turf Playing Systems as Measured in the Field (reaffirmation of ANSI/ASTM F1936-2010)

This specification establishes an in situ test method and maximum impact attenuation value for all types of turf playing systems and for a number of sport-specific field layouts. It also includes a protocol for determining test point locations on fields that are lined for multiple sports.

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

Order from: Corice Leonard, (610) 832-9744, [accreditation@astm.org](mailto:accreditation@astm.org)

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

### ASTM (ASTM International)

#### Revision

BSR/ASTM C581-201x, Practice for Determining Chemical Resistance of Thermosetting Resins Used in Glass-Fiber-Reinforced Structures Intended for Liquid Service (revision of ANSI/ASTM C581-2003 (R2008))

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

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

### ASTM (ASTM International)

#### Revision

BSR/ASTM C769, Test Method for Sonic Velocity in Manufactured Carbon and Graphite Materials for Use in Obtaining Youngs Modulus (revision of ANSI/ASTM C769-2009)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

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

### ASTM (ASTM International)

#### Revision

BSR/ASTM D4167-201x, Specification for Fiber-Reinforced Plastic Fans and Blowers (revision of ANSI/ASTM D4167-1997 (R2007))

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

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

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

BSR/ASTM E8-201x, Test Methods for Tension Testing of Metallic Materials (revision of ANSI/ASTM E8-2013)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

Order from: Corice Leonard, (610) 832-9744, [accreditation@astm.org](mailto:accreditation@astm.org)

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

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

BSR/ASTM F963-201x, Consumer Safety Specification for Toy Safety (revision of ANSI/ASTM F963-2011)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

Order from: Corice Leonard, (610) 832-9744, [accreditation@astm.org](mailto:accreditation@astm.org)

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

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

BSR/ASTM F1250-201x, Specification for Stationary Upright and Recumbent Exercise Bicycles and Upper Body Ergometers (revision of ANSI/ASTM F1250-2013)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

Order from: Corice Leonard, (610) 832-9744, [accreditation@astm.org](mailto:accreditation@astm.org)

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

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

BSR/ASTM F2238-201x, Test Method for Performance of Rapid Cook Ovens (revision of ANSI/ASTM F2238-2009)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

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

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

BSR/ASTM F2810-201x, Specification for Elliptical Trainers (revision of ANSI/ASTM F2810-2010)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

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

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

BSR/ASTM F2811-201x, Test Methods for Evaluating Design and Performance Characteristics of Elliptical Trainers (revision of ANSI/ASTM F2811-2010)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

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

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

BSR/ASTM F3023-201x, Test Methods for Evaluating Design and Performance Characteristics of Stationary Upright and Recumbent Exercise Bicycles and Upper Body Ergometers (revision of ANSI/ASTM F3023-2013)

[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)

Single copy price: Free

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

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

BSR/AWWA 217-201x, Microcrystalline Wax and Petrolatum Tape Coating Systems for Steel Water Pipe and Fittings (revision of ANSI/AWWA C217 -2009)

This standard establishes minimum requirements for microcrystalline wax and petrolatum tape coatings for steel water pipe and fittings. This standard describes exterior coatings that consist of cold-applied petrolatum or microcrystalline wax primers and tapes, and their applications to special sections, connections, and fittings to be used with buried, submerged, and aboveground steel water pipelines.

Single copy price: \$20.00

Obtain an electronic copy from: [polson@awwa.org](mailto:polson@awwa.org)

Order from: Paul Olson, (303) 347-6178, [polson@awwa.org](mailto:polson@awwa.org); [vdavid@awwa.org](mailto:vdavid@awwa.org)

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

**CSA (CSA Group)****Revision**

BSR/CSA NGV 5.1-201x, Residential Fueling Appliance (revision of ANSI/CSA NGV 5.1-2015)

This standard details mechanical and electrical requirements for newly manufactured systems that dispense natural gas for vehicles directly into the vehicle fuel storage container and are installed in non-commercial/non-public locations. This standard does not apply to the nozzle, hose assemblies, and connection devices associated with such equipment.

Single copy price: Free

Obtain an electronic copy from: [cathy.rake@csagroup.org](mailto:cathy.rake@csagroup.org)

Order from: Cathy Rake, (216) 524-4990 x88321, [cathy.rake@csagroup.org](mailto:cathy.rake@csagroup.org)

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

**ESA (Electronic Security Association, Inc.)****Withdrawal**

BSR/NBFAA SRSS-01-2007, The Standard for Remote Supervising Station (withdrawal of ANSI/NBFAA SRSS-01-2007)

Withdrawing standard from ANSI approval.

Single copy price: Free (ESA members)/\$99.00 (nonmembers)

Obtain an electronic copy from: <https://esaweb.site-ym.com/store/ViewProduct.aspx?id=727092>

Order from: <https://esaweb.site-ym.com/store/ViewProduct.aspx?id=727092>

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Michelle Yungblut, (972) 807-6830, [Michelle.Yungblut@ESAweb.org](mailto:Michelle.Yungblut@ESAweb.org)

**ISA (International Society of Automation)****New Standard**

BSR/ISA 18.1-201x, Annunciator Sequences and Specifications (new standard)

To establish uniform annunciator terminology, sequence designations, and sequence presentation and to assist in the preparation of annunciator specifications and documentation.

Single copy price: \$99.00 usd

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

Order from: Charles Robinson, (919) 990-9213, [crobinson@isa.org](mailto:crobinson@isa.org)

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

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

BSR/NEMA WD6-201x, Wiring Devices - Dimensional Specifications (revision of ANSI/NEMA WD 6-2012)

This standard covers dimensional requirements for plugs and receptacles rated up to 60A and 600V.

Single copy price: Free of charge for electronic versions

Obtain an electronic copy from: [and\\_moldoveanu@nema.org](mailto:and_moldoveanu@nema.org)

Order from: [and\\_moldoveanu@nema.org](mailto:and_moldoveanu@nema.org)

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [and\\_moldoveanu@nema.org](mailto:and_moldoveanu@nema.org)

**RESNA (Rehabilitation Engineering and Assistive Technology Society of North America)****Revision**

BSR/RESNA ASE-1-201x, RESNA Standard for Adaptive Sports Equipment - Volume 1: Winter Sports Equipment (revision of ANSI/RESNA ASE-1-2014)

This standard includes requirements and test methods for adaptive winter sports equipment (sit-skis, mono-skis, and bi-skis). Additional sections pertaining to other types of winter adaptive sports equipment will be developed and incorporated with future revisions.

Single copy price: \$120.00

Obtain an electronic copy from: [YMeding@resna.org](mailto:YMeding@resna.org)

Order from: Yvonne Meding, [YMeding@resna.org](mailto:YMeding@resna.org)

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

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

BSR/TAPPI T 1009 om-16 201x, Tensile strength and elongation at break for fiber glass mats (revision of ANSI/TAPPI T 1009 om-2010)

This method covers the determination of the tensile strength and elongation at break of fiber glass mats.

Single copy price: Free

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

Order from: [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 455-104-B-201x, FOTP 104 - Fiber Optic Cable Cyclic Flexing Test (revision and redesignation of ANSI/TIA 455-104-A-1993 (R2013))

This revision updates references and editorial items including a comparison between the IEC and TIA methods and a clarification on mandrel diameter as it relates to cable diameter. The last update to references was in 1993.

Single copy price: \$67.00

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

Order from: Germaine Palangdao, (703) 907-7497, [standards@tiaonline.org](mailto:standards@tiaonline.org)

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

**UAMA (ASC B74) (Unified Abrasives Manufacturers' Association)****Reaffirmation**

BSR B74.20-2004 (R201X), Specification for Diamond and CBN Powders in Sub-Sieve Sizes (reaffirmation of ANSI B74.20-2004 (R2010))

This standard defines the characterization of sub-sieve size diamond and CBN powders for general industrial use. However, there are special applications such as the electronics and polycrystalline diamond/CBN (PCD/PCBN) industries that require custom specifications to be agreed upon between the micronizer and the end user. This standard does not attempt to address these special situations.

Single copy price: 2.48 (UAMA members)/\$14.00 (nonmembers)

Obtain an electronic copy from: [sab@wherryassoc.com](mailto:sab@wherryassoc.com)

Order from: [sab@wherryassoc.com](mailto:sab@wherryassoc.com)

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

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

BSR/UL 452-2011 (R201x), Standard for Safety for Antenna-Discharge Units (reaffirmation of ANSI/UL 452-2011)

Reaffirm UL 452 as an American National Standard. UL 452 covers antenna-discharge units for radio and television receiving equipment and amateur radio-transmitting and -receiving equipment, to be employed in accordance with the National Electrical Code, NFPA 70. An antenna-discharge unit as covered by these requirements consists of a gap, a fixed resistance or other discharge element, or a combination of such features, connected between each antenna lead-in terminal, and a grounding terminal.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

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

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

BSR/UL 61496-1-201x-2011 (R201x), Standard for Safety for Electro-Sensitive Protective Equipment - Part 1: General Requirements and Tests (reaffirmation of ANSI/UL 61496-1-2001 (R2011))

UL 61496-1 specifies general requirements for the design, construction and testing of Electrosensitive Protective Equipment (ESPE) for the safeguarding of machinery. Special attention is directed to functional and design requirements that ensure an appropriate safety related performance is achieved. An ESPE may include optional safety-related functions, the requirements for which are given in Annex A of UL 61496-1.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Derrick Martin, (408) 754-6656, [Derrick.L.Martin@ul.com](mailto:Derrick.L.Martin@ul.com)

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

BSR/UL 61496-2-201x-2011 (R201x), Standard for Safety for Electro-Sensitive Protective Equipment - Part 2: Particular Requirements for Equipment Using Active Opto-Electronic Protective Devices (AOPDs) (reaffirmation of ANSI/UL 61496-2-2001 (R2011))

UL 61496-2 specifies requirements for the design, construction and testing of Electrosensitive Protective Equipment (ESPE) for the safeguarding of machinery, employing Active Opto-electronic Protective Devices (AOPDS) for the sensing function. Special attention is directed to features that ensure an appropriate safety-related performance is achieved. An ESPE may include optional safety-related functions, the requirements for which are given in Annex A of UL 61496-1.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Derrick Martin, (408) 754-6656, [Derrick.L.Martin@ul.com](mailto:Derrick.L.Martin@ul.com)

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

BSR/UL 507-201X, Standard for Safety for Electric Fans (revision of ANSI/UL 507-2014)

(1) Modification to update the definition for the product term - Evaporative Cooler; (2) Rangehood cord length for cord-connection kits; (3) Correction to rangehood surface for cord exit in figure 91.1; (4) Filters for duct-connected fans; (5) Live parts – editorial correction; (6) Modification to the pan specification requirement for downdrafts in paragraph 147.1.7. (7) Clarification of requirements for duct-connection fittings; (8) Clarification of the Leakage Current Test in paragraph 32.4; (9) Addition of an exception to allow the use of a cord connection for an attic fan.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: <http://www.comm-2000.com>

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Susan Malohn, UL-IL; [susan.p.malohn@ul.com](mailto:susan.p.malohn@ul.com)

**VITA (VMEbus International Trade Association (VITA))****New Standard**

BSR/VITA 76-201x, High Performance Cable Standard (new standard)

Develop a standard cable scheme to implement copper-to-copper or copper-to-optical-cabling for box-to-box interconnects.

Single copy price: \$25.00

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

Order from: [admin@workspace.vita.com](mailto:admin@workspace.vita.com)

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

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

BSR/VITA 42.0-201x, XMC Switched Mezzanine Card Auxiliary Standard (revision of ANSI/VITA 42.0-2014)

This specification defines an open standard for supporting high-speed, switched interconnect protocols on an existing, widely deployed form factor. This revision defines the use of the original Paste-On-Pad (POP) vs the preferred solderball connectors.

Single copy price: \$25.00

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [admin@workspace.vita.com](mailto:admin@workspace.vita.com)

**Comment Deadline: January 5, 2016****UAMA (ASC B74) (Unified Abrasives Manufacturers' Association)****Revision**

BSR B74.19-201x, Test for Determining the Magnetic Content of Abrasive Grains (revision of ANSI B74.19-2002 (R2007))

To establish a nationally recognized basis for determining the magnetic content of abrasive grain used in the manufacture of grinding wheels, coated abrasive products, etc.

Single copy price: \$1.50 (UAMA members)/\$13.00 (nonmembers)

Obtain an electronic copy from: [sab@wherryassoc.com](mailto:sab@wherryassoc.com)

Order from: [sab@wherryassoc.com](mailto:sab@wherryassoc.com)

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

**Withdrawal****Withdrawal of UL 2305-2010 as an American National Standard**

UL 2305-2010, Standard for Safety for Exhibition Display Units, Fabrication and Installation, has been withdrawn as an ANS per UL's request.

Questions: [Lane.Terrell@ul.com](mailto:Lane.Terrell@ul.com).

# Call for Members (ANS Consensus Bodies)

Directly and materially affected parties who are interested in participating as a member of an ANS consensus body for the standards listed below are requested to contact the sponsoring standards developer directly and in a timely manner.

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

**Office:** 613 Third Street, Ste 10  
Annapolis, MD 21403

**Contact:** David Broadbent

**Phone:** (410) 990-4460

**Fax:** (410) 990-4466

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

BSR/ABYC A-23-201x, Sound Signal Appliances (new standard)

## **ASSE (ASC A10) (American Society of Safety Engineers)**

**Office:** 520 N. Northwest Highway  
Park Ridge, IL 60068

**Contact:** Tim Fisher

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

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

**E-mail:** TFisher@ASSE.org

BSR/ASSE A10.25-201X, Sanitation in Construction (revision of ANSI/ASSE A10.25-2009)

Obtain an electronic copy from: Tim Fisher

## **ASSE (ASC Z9) (American Society of Safety Engineers)**

**Office:** 520 N. Northwest Highway  
Park Ridge, IL 60068

**Contact:** Ovidiu Munteanu

**Phone:** 847-232-2012

**Fax:** 847-699-2929

**E-mail:** OMunteanu@ASSE.org

BSR/ASSE Z9.10-201X, Fundamentals Governing the Design and Operation of Dilution Ventilation Systems in Industrial Occupancies (revision of ANSI/AIHA Z9.10-2010)

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

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

**Contact:** Veronica Lancaster

**Phone:** (703) 907-7697

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

**E-mail:** vlancaster@ce.org; dwilson@ce.org

BSR/CEA 2060-201x, Interoperability Standards Series for Consumer EEG Data - File Storage (new standard)

BSR/CEA 2061-201x, Interoperability Standards Series for Consumer EEG Data - Group-level meta-data encapsulation (new standard)

## **DMSC, Inc. (Dimensional Metrology Standards Consortium, Inc.)**

**Office:** 1350 SW Alsbury Blvd  
#514  
Burleson, TX 76028-9219

**Contact:** Bailey Squier

**Phone:** (817) 461-1092

**Fax:** (682) 224-6201

**E-mail:** bsquier@dmis.org

BSR/QIF Part 4-201x, Quality Information Framework (QIF) - An Integrated Model for Manufacturing Quality Information; Part 4: QIF Plans Information Model and XML Schema File Version 2.1 (revision and redesignation of ANSI/DMSC QIF Part 4-2014)

BSR/QIF Part 6-201x, Quality Information Framework (QIF) - An Integrated Model for Manufacturing Quality Information; Part 6: QIF Rules Information Model and XML Schema File Version 2.1 (revision and redesignation of ANSI/DMSC QIF Part 6-2014)

BSR/QIF Part 7-201x, Quality Information Framework (QIF) - An Integrated Model for Manufacturing Quality Information; Part 7: QIF Results Information Model and XML Schema File Version 2.1 (revision and redesignation of ANSI/DMSC QIF Part 7-2014)

BSR/QIF Part 1-2015 and BSR/QIF Part 2-2015, Quality Information Framework - QIF Library Information model and XML schema files V2.1 (revision and redesignation of ANSI/QIF Part 1-2014; ANSI/QIF Part 2 - 2014)

## **RESNA (Rehabilitation Engineering and Assistive Technology Society of North America)**

**Office:** 1700 N. Moore Street  
Suite 1540  
Arlington, VA 22209-1903

**Contact:** Yvonne Meding

**Phone:** (703) 524-6686

**Fax:** (703) 524-6630

**E-mail:** YMeding@resna.org

BSR/RESNA ASE-1-201x, RESNA Standard for Adaptive Sports Equipment Volume 1: Winter Sports Equipment (revision of ANSI/RESNA ASE-1-2014)

Obtain an electronic copy from: Yvonne Meding, YMeding@resna.org

**TIA (Telecommunications Industry Association)**

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

**Contact:** *Germaine Palangdao*

**Phone:** (703) 907-7497

**Fax:** (703) 907-7727

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

BSR/TIA 455-104-B-201x, FOTP 104- Fiber Optic Cable Cyclic Flexing  
Test (revision and redesignation of ANSI/TIA 455-104-A-1993  
(R2013))

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

**UAMA (ASC B74) (Unified Abrasives Manufacturers' Association)**

**Office:** 30200 Detroit Road  
Cleveland, OH 44145-1967

**Contact:** *Jeffrey Wherry*

**Phone:** (440) 899-0010

**Fax:** (440) 892-1404

**E-mail:** [jjw@wherryassoc.com](mailto:jjw@wherryassoc.com)

BSR B74.19-201x, Test for Determining the Magnetic Content of  
Abrasive Grains (revision of ANSI B74.19-2002 (R2007))

Obtain an electronic copy from: [sab@wherryassoc.com](mailto:sab@wherryassoc.com)

BSR B74.20 -2004 (R201X), Specification for Diamond and CBN  
Powders in Sub-Sieve Sizes (reaffirmation of ANSI B74.20-2004  
(R2010))

Obtain an electronic copy from: [sab@wherryassoc.com](mailto:sab@wherryassoc.com)

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

**Office:** 929 W. Portobello Avenue  
Mesa, AZ 85210

**Contact:** *Jing Kwok*

**Phone:** (602) 281-4497

**E-mail:** [jing.kwok@vita.com](mailto:jing.kwok@vita.com)

BSR/VITA 42.0-201x, XMC Switched Mezzanine Card Auxiliary  
Standard (revision of ANSI/VITA 42.0-2014)

Obtain an electronic copy from: [admin@workspace.vita.com](mailto:admin@workspace.vita.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.

## ASME (American Society of Mechanical Engineers)

### Revision

- ANSI/ASME A13.1-2015, Scheme for the Identification of Piping Systems (revision of ANSI/ASME A13.1-2007 (R2013)): 10/30/2015
- ANSI/ASME B73.3-2015, Specification for Sealless Horizontal End Suction Centrifugal Pumps for Chemical Process (revision of ANSI/ASME B73.3-2003 (R2008)): 10/30/2015

## ATIS (Alliance for Telecommunications Industry Solutions)

### Revision

- ANSI/ATIS 0600332-2015, Electrical Protection of Network-Powered Broadband Facilities (revision of ANSI/ATIS 0600332-2010): 10/30/2015

## AWWA (American Water Works Association)

### Revision

- ANSI/AWWA C509-2015, Resilient-Seated Gate Valves for Water Supply Service (revision of ANSI/AWWA C509-2009): 10/30/2015
- ANSI/AWWA C515-2015, Reduced-Wall, Resilient-Seated Gate Valves for Water Supply Service (revision of ANSI/AWWA C515-2009): 10/30/2015
- ANSI/AWWA D106-2015, Sacrificial Anode Cathodic Protection Systems for the Interior Submerged Surfaces of Steel Water Storage Tanks (revision of ANSI/AWWA D106-2010): 10/30/2015

## FCI (Fluid Controls Institute)

### New Standard

- ANSI/FCI 15-1-2015, Standard for Production Testing of Pressure Regulators (new standard): 10/30/2015

## IAPMO (ASSE Chapter) (ASSE International Chapter of IAPMO)

### New Standard

- ANSI/IAPMO Series 19000-2015, Hydronic Systems Professional Qualifications Standard (new standard): 10/30/2015

### Revision

- ANSI/ASSE 1070-2015/ASME A112.1070-2015/CSA B125.70-15, Performance Requirements for Water Temperature Limiting Devices (revision of ANSI/ASSE 1070-2004): 10/30/2015

## ISA (International Society of Automation)

### Revision

- ANSI/ISA 77.41.01-2015, Fossil Fuel Power Plant Boiler Combustion Controls (revision of ANSI/ISA 77.41.01-2010): 10/27/2015

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

### Revision

- INCITS 469-2015, Information technology - Open Virtualization Format (OVF) specification (revision of INCITS 469-2010): 10/30/2015

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

### New Standard

- \* ANSI C78.374-2015, Electric Lamps: Light Emitting Diode Specification Sheet for General Illumination Applications (new standard): 10/27/2015

## NEMA (ASC C82) (National Electrical Manufacturers Association)

### New Standard

- \* ANSI C82.16-2015, Lighting Equipment - Light Emitting Diode Drivers - Methods of Measurement (new standard): 10/29/2015

## NSF (NSF International)

### Revision

- \* ANSI/NSF 42-2015 (i84), Drinking Water Treatment Systems - Aesthetic Effects (revision of ANSI/NSF 42-2014): 10/27/2015
- \* ANSI/NSF 44-2015 (i39), Residential Cation Exchange Water Softeners (revision of ANSI/NSF 44-2014): 10/27/2015
- \* ANSI/NSF 53-2015 (i100), Drinking Water Treatment Systems - Health Effects (revision of ANSI/NSF 53-2014): 10/27/2015
- \* ANSI/NSF 58-2015 (i70), Reverse Osmosis Drinking Water Treatment Systems (revision of ANSI/NSF 58-2014): 10/27/2015
- \* ANSI/NSF 62-2015 (i27), Drinking Water Distillation Systems (revision of ANSI/NSF 62-2014): 10/27/2015
- \* ANSI/NSF 330-2015 (i8), Glossary of Drinking Water Treatment Unit Terminology (revision of ANSI/NSF 330-2014): 10/27/2015

## SCTE (Society of Cable Telecommunications Engineers)

### New Standard

- ANSI/SCTE 214-1-2015, MPEG DASH for IP-Based Cable Services - Part 1: MPD Constraints and Extensions (new standard): 10/28/2015
- ANSI/SCTE 214-2-2015, MPEG DASH for IP-Based Cable Services - Part 2: DASH/TS Profile (new standard): 10/28/2015
- ANSI/SCTE 214-3-2015, MPEG DASH for IP-Based Cable Services - Part 3: DASH/FF Profile (new standard): 10/28/2015
- ANSI/SCTE 215-1-2015, HEVC Video Constraints for Cable Television - Part 1: Coding (new standard): 10/28/2015
- ANSI/SCTE 215-2-2015, HEVC Video Constraints for Cable Television - Part 2: Transport (new standard): 10/28/2015
- ANSI/SCTE 216-2015, Adaptive Power System Interface Specification (APSYS) (new standard): 10/28/2015

## UAMA (ASC B74) (Unified Abrasives Manufacturers' Association)

### Revision

- ANSI B74.10-2015, Specification for Grading of Abrasive Grain (revision of ANSI B74.10-2010): 10/30/2015

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

### ***Reaffirmation***

- \* ANSI/UL 1177- 2011 (R2015), Standard for Safety for Buoyant Vests (reaffirmation of ANSI/UL 1177-2011): 10/30/2015

### ***Revision***

- \* ANSI/UL 588-2015, Standard for Safety for Seasonal and Holiday Decorative Products (revision of ANSI/UL 588-2013a): 10/26/2015
- \* ANSI/UL 588-2015a, Standard for Safety for Seasonal and Holiday Decorative Products (revision of ANSI/UL 588-2013a): 10/26/2015
- \* ANSI/UL 588-2015b, Standard for Safety for Seasonal and Holiday Decorative Products (revision of ANSI/UL 588-2013a): 10/26/2015
- \* ANSI/UL 588-2015c, Standard for Safety for Seasonal and Holiday Decorative Products (revision of ANSI/UL 588-2013a): 10/26/2015
- ANSI/UL 1637-2015, Standard for Safety for Home Health Care Signaling Equipment (revision of ANSI/UL 1637-2009): 10/26/2015
- ANSI/UL 1767-2015, Standard for Safety for Early-Suppression Fast-Response Sprinklers (revision of ANSI/UL 1767-2013): 10/28/2015

# Project Initiation Notification System (PINS)

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

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

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

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

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

**Contact:** Hae Choe

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

**E-mail:** [HChoe@aami.org](mailto:HChoe@aami.org); [customerservice@aami.org](mailto:customerservice@aami.org)

BSR/AAMI RT2-201x, Radiation Therapy Readiness Check (new standard)

Stakeholders: Manufacturers, regulators, and users in the field of radiation therapy.

Project Need: Proposed new American National Standard.

This standard provides specific requirements and guidance for the design and manufacture of equipment intended for use in external beam radiation therapy. This includes orthovoltage, superficial x-ray, megavoltage electron accelerator, radioisotope source gamma ray, or ion-beam-based treatment delivery systems and related equipment including software used for the planning or management of external beam radiation therapy.

BSR/AAMI RT3-201x, Machine Characterization (new standard)

Stakeholders: Manufacturers, regulators, and users in the field of radiation therapy.

Project Need: Proposed new American National Standard.

This standard provides a template for the necessary information for a Radiation Therapy developer or user to develop or compare a software model that captures the characteristics of a Treatment Delivery Device (TDD) or Treatment Delivery System (TDS).

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

**Office:** 613 Third Street, Ste 10  
Annapolis, MD 21403

**Contact:** David Broadbent

**Fax:** (410) 990-4466

**E-mail:** [dbroadbent@abycinc.org](mailto:dbroadbent@abycinc.org)

BSR/ABYC A-23-201x, Sound Signal Appliances (new standard)

Stakeholders: Surveyors, consumers, insurance personnel, boat manufacturers, engine manufacturers, accessory manufacturers, government personnel, trade associations, specialists, general interest groups.

Project Need: This standard identifies safety issues with sound signal appliances.

This standard applies to all sound signal appliances for use on vessels of less than 20 meters (65 ft.) in length, regardless of the mode of operation or power source of the appliance.

BSR/ABYC C-1-201x, Primer Bulbs (new standard)

Stakeholders: Surveyors, consumers, insurance personnel, boat manufacturers, engine manufacturers, accessory manufacturers, government personnel, trade associations, specialists, general interest groups.

Project Need: This standard identifies safety issues with primer bulbs.

This standard applies to the primer bulb and primer bulb assemblies consisting of the primer bulb, the connecting hose lengths and the fittings necessary to connect the fuel tank to the engine on outboard engine installations.

BSR/ABYC C-2-201x, Carbon Canisters for Marine Applications (new standard)

Stakeholders: Surveyors, consumers, insurance personnel, boat manufacturers, engine manufacturers, accessory manufacturers, government personnel, trade associations, specialists, general interest groups.

Project Need: This standard identifies safety issues with carbon canisters for marine applications.

This standard applies to carbon canister devices installed for the purpose of reducing hydrocarbon emissions.

BSR/ABYC H-24-201x, Gasoline Fuel Systems (revision of ANSI/ABYC H-24-2012)

Stakeholders: Surveyors, consumers, insurance personnel, boat manufacturers, engine manufacturers, accessory manufacturers, government personnel, trade associations, specialists, general interest groups.

Project Need: This standard identifies safety issues with gasoline fuel systems.

This standard applies to all parts of permanently installed gasoline fuel systems from the fuel fill opening to the point of connection to the propulsion engine and/or to any auxiliary equipment on all boats with gasoline engines, excluding onboard refueling systems.

BSR/ABYC S-31-201x, Environmental Considerations for Systems and Components Installed Onboard Boats (new standard)

Stakeholders: Surveyors, consumers, insurance personnel, boat manufacturers, engine manufacturers, accessory manufacturers, government personnel, trade associations, specialists, general interest groups.

Project Need: This standard identifies safety issues in reference to environmental considerations for systems and components installed onboard boats.

This document, or any specific section thereof, applies when referenced or specified in any ABYC standard. Applicable pass/fail criteria and testing levels are dictated by the referencing standard.

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

**Office:** 613 Third Street  
Suite 10  
Annapolis, MD 21403

**Contact:** John Adey

**Fax:** (410) 990-4466

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

\* BSR/ABYC H-25-201x, Portable Gasoline Fuel Systems (revision of ANSI/ABYC H-25-2010)

Stakeholders: Surveyors, consumers, insurance personnel, boat manufacturers, engine manufacturers, accessory manufacturers, government personnel, trade associations, specialists, general interest groups.

Project Need: This standard identifies safety issues with portable marine gasoline fuel systems.

This standard applies to portable gasoline fuel systems of 12 gallons (45.4 L) or less.

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

**Office:** 2950 Niles Road  
St Joseph, MI 49085

**Contact:** Carla VanGilder

**Fax:** (269) 429-3852

**E-mail:** vangilder@asabe.org

BSR/ASABE AD11001-1:20XX MONYEAR, Agricultural wheeled tractors -Three-point hitch couplers - Part 1: U-frame coupler (national adoption with modifications of ISO 11001-1:20XX)

Stakeholders: Manufacturers and users of agricultural tractors and implements.

Project Need: Once approved the final published version of revision to ISO 11001-1 will be adopted to ensure international harmonization.

Specifies the essential dimensions for the attachment of three-point hitch implements to agricultural-wheeled and track-laying tractors equipped with a three-point free link hitch according to ISO 730 or ISO 8759-1 and a U-frame hitch coupler.

BSR/ASABE AD3600:2015 MONYEAR, Tractors, machinery for agriculture and forestry, powered lawn and garden equipment - Operator's manuals - Content and format (national adoption with modifications of ISO 3600:2015)

Stakeholders: Manufacturers, consumers, government regulators.

Project Need: Nationally adopt the most current version of the ISO standard to ensure international harmonization.

Specifies the content and gives guidance on the format of operator's manuals for tractors, machinery for agriculture and forestry, and powered lawn and garden equipment. It is intended to assist manufacturers of the machinery in the drafting and presentation of these manuals. Manuals intended for use by a service technician are not within the scope of this Standard.

BSR/ASABE S647 MONYEAR-201x, Seed Cotton Module Identification System (new standard)

Stakeholders: Cotton farmers, ginners, cotton harvester manufacturers, seed cotton module cover manufacturers, cotton-gin software providers, farm-management software providers.

Project Need: Historically, seed cotton modules have been identified using systems developed by individual gins for customers. Moving to electronic data management and the potential for manufacturers to provide pre-numbered module covers, there's a need for a cotton-industry numbering standard for seed cotton modules or tags to gins for use on conventional modules. Goal is to provide a standardized method of numbering cotton modules and associated technology for tracking seed cotton modules from field to the gin.

The scope of the standard is limited to identification of modules and the technology to read those identifiers. It does not address data transfer beyond the identifier. That is, it will not address passing of data associated with a seed cotton module such as area harvested, location, or ownership information. These issues are being addressed by AgGateway. The identifier is meant to be applied between the field and the gin and to also allow association of bale-related data back to the module. Association between the bale numbers and module identifier is at the discretion of the gin.

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

**Office:** Two Park Avenue  
New York, NY 10016

**Contact:** Mayra Santiago

**Fax:** (212) 591-8501

**E-mail:** ansibox@asme.org

BSR/ASME B5.64-20XX, Methods for the Performance Evaluation of Single Axis Positioning Systems (new standard)

Stakeholders: Manufacturers and users of machine tools; aerospace, construction, automotive, medical, machining centers.

Project Need: Many new ultra-precision linear and angular positioning systems with exceptionally long ranges of motion on the order of tens of millimeters and degrees with positioning resolutions on the order of a nanometer and a micro-radian are finding their way into emerging technologies. Measuring and certifying the performance of these systems with off-the-shelf instrumentation and test methods suggested by existing standards can be very challenging, if the test uncertainty ratio (TUR) is to be greater or equal to 4:1. Members of industry, academia, and government have stressed a need for new or improved standards and measurements that specifically address this class of positioning systems.

This Standard establishes methodology for specifying and testing the performance of single axis positioning systems. It covers both linear and angular (rotary) positioning systems with travels ranging from micrometers to meters and millidegrees to continuous rotation, respectively.

**ASSE (ASC Z9) (American Society of Safety Engineers)**

**Office:** 520 N. Northwest Highway  
Park Ridge, IL 60068

**Contact:** Ovidiu Munteanu

**Fax:** 847-699-2929

**E-mail:** OMunteanu@ASSE.org

BSR/ASSE Z9.10-201X, Fundamentals Governing the Design and Operation of Dilution Ventilation Systems in Industrial Occupancies (revision of ANSI/AIHA Z9.10-2010)

Stakeholders: Occupational safety and health professionals or those stakeholders working with ventilation systems and equipment.

Project Need: Based upon the consensus of occupational safety and health professionals belonging to ASSE.

This standard discusses fundamental good practices related to the commissioning, design, selection, installation, operation, maintenance, and testing of dilution ventilation (DV) or general exhaust ventilation (GEV) systems used for the control of employee exposure to airborne contaminants.

**ASTM (ASTM International)**

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

**Contact:** Corice Leonard

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

**E-mail:** accreditation@astm.org

BSR/ASTM C565-201x, Test Methods for Tension Testing of Carbon and Graphite Mechanical Materials (revision of ANSI/ASTM C565-2010)

Stakeholders: Petroleum Products industry.

Project Need: These test methods cover the apparatus, specimen, and procedures for the tension testing of carbon and graphite mechanical materials with a grain size smaller than 0.79 mm.

This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

BSR/ASTM C816-201x, Test Method for Sulfur in Graphite by Combustion-Iodometric Titration Method (revision of ANSI/ASTM C816-2005 (R2010))

Stakeholders: Petroleum Products industry.

Project Need: This test method covers the determination of sulfur in graphite in the concentration range from 1 to 1000 µg/g (ppm).

The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

BSR/ASTM C1179-201x, Test Method for Oxidation Mass Loss of Manufactured Carbon and Graphite Materials in Air (revision of ANSI/ASTM C1179-2000 (R2010))

Stakeholders: Petroleum Products, Liquid Fuels, and Lubricants industry.

Project Need: This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

This test method provides a comparative oxidation mass loss of manufactured carbon and graphite materials in air.

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

Stakeholders: Sports Equipment, Playing Surfaces, and Facilities industry.

Project Need: This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

This practice covers the care and use of intraoral mouthguards as protective equipment for sports.

**CEA (Consumer Electronics Association)**

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

**Contact:** Veronica Lancaster

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

**E-mail:** vlancaster@ce.org; dwilson@ce.org

- \* BSR/CEA 2060-201x, Interoperability Standards Series for Consumer EEG Data - File Storage (new standard)

Stakeholders: Consumers, health and fitness device manufacturers, producers, general interest.

Project Need: Create new standard.

The purpose of this standard is to adopt a file format for storing several data streams in a single, self-describing, file, with each stream potentially sampled at a different rate, or having a different type (e.g., real numbers and strings). It will allow this data to be provided in an efficient and temporally accurate manner to analysis and visualization applications.

- \* BSR/CEA 2061-201x, Interoperability Standards Series for Consumer EEG Data - Group-level meta-data encapsulation (new standard)

Stakeholders: Consumers, health and fitness device manufacturers, producers, general interest.

Project Need: Create new standard.

The purpose of this standard is to (a) define the minimum set of information (metadata) required to process EEG and associated data collected from a group of users and (b) adopt a schema to encapsulate this information and make it available for automated processing.

**DMSC, Inc. (Dimensional Metrology Standards Consortium, Inc.)**

**Office:** 1350 SW Alsbury Blvd  
#514  
Burleson, TX 76028-9219

**Contact:** Bailey Squier

**Fax:** (682) 224-6201

**E-mail:** bsquier@dmis.org

BSR/QIF Part 4-201x, Quality Information Framework (QIF) - An Integrated Model for Manufacturing Quality Information; Part 4: QIF Plans Information Model and XML Schema File Version 2.1 (revision and redesignation of ANSI/DMSC QIF Part 4-2014)

Stakeholders: Every manufacturing industry that uses computer-aided quality systems for product design, dimensional measurement planning, measurement execution, and results analysis.

Project Need: Effortless transfer of measurement planning data from any user's software or database to any vendor's planning or execution software.

QIF Part 4 version 2.1 has the following new content: New methods were added to accommodate new measurement resources contained in QIF Resources, a new document section was added to emphasize the Bill of Characteristics (BoC), and new validation properties were added to support QIF LOTAR.

BSR/QIF Part 6-201x, Quality Information Framework (QIF) - An Integrated Model for Manufacturing Quality Information; Part 6: QIF Rules Information Model and XML Schema File Version 2.1 (revision and redesignation of ANSI/DMSC QIF Part 6-2014)

Stakeholders: Every manufacturing industry that uses computer-aided quality systems for product design, dimensional measurement planning, measurement execution, and results analysis.

Project Need: Effortless transfer of measurement rules data to any vendor's planning application.

QIF Part 6 version 2.1 has the following new content: Support of new feature actuals and characteristic actuals, and new validation properties were added to support QIF LOTAR.

BSR/QIF Part 7-201x, Quality Information Framework (QIF) - An Integrated Model for Manufacturing Quality Information; Part 7: QIF Results Information Model and XML Schema File Version 2.1 (revision and redesignation of ANSI/DMSC QIF Part 7-2014)

Stakeholders: Every manufacturing industry that uses computer-aided quality systems for product design, dimensional measurement planning, measurement execution, and results analysis.

Project Need: Effortless transfer of measurement results data from any vendor's dimensional measurement equipment to analysis applications.

QIF Part 7 version 2.1 has the following new content: Support of new feature actuals and characteristic actuals, and new validation properties were added to support QIF LOTAR.

BSR/QIF Part 1-2015 and BSR/QIF Part 2-2015, Quality Information Framework - QIF Library Information model and XML schema files V2.1 (revision and redesignation of ANSI/QIF Part 1-2014; ANSI/QIF Part 2-2014)

Stakeholders: Every manufacturing industry that uses computer-aided quality systems for product design, measurement planning, measurement execution, and results analysis.

Project Need: To provide effortless exchange of manufacturing measurement information among computer-aided quality processes using a standard format.

QIF Part 1 & 2 version 2.1 has the following new content: A few new characteristics and features, enhanced persistent identification through required document QPId and external file references using QPId alias, comprehensive ISO GPS tolerance support, added new product data quality section with a x.509 digital certificate, and new validation properties and redundancy checks were added to support QIF LOTAR.

#### **PMMI (Packaging Machinery Manufacturers Institute)**

**Office:** 11911 Freedom Drive  
Suite 600  
Reston, VA 20190

**Contact:** Fred Hayes

**Fax:** (269) 781-6966

**E-mail:** fhayes@pmmi.org

BSR/PMMI B155.1-201x, Safety Requirements for Processing and Packaging Machinery (revision of ANSI/PMMI B155.1-2011)

Stakeholders: Users, manufacturers, material/container/component suppliers, general interest, professional organizations.

Project Need: Review and revise based on 5 years.

The requirements of this standard apply to new, modified or rebuilt industrial and commercial:

- processing machinery used to produce food, beverage and pharmaceutical products;
- packaging machinery that preforms packaging functions for primary, secondary, and tertiary (transport / distribution) packaging;
- coordination of the packaging functions that take place on the production line; and
- packaging-related converting machinery.

The standard does not include processing or packaging machinery used by retail consumers.

# 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).

<b>AAMI</b> Association for the Advancement of Medical Instrumentation  4301 N Fairfax Drive Suite 301 Arlington, VA 22203-1633 Phone: (703) 253-8268 Fax: (703) 276-0793 Web: <a href="http://www.aami.org">www.aami.org</a>	<b>ATIS</b> Alliance for Telecommunications Industry Solutions  1200 G Street, NW Suite 500 Washington, DC 20005 Phone: (202) 434-8841 Fax: (202) 347-7125 Web: <a href="http://www.atis.org">www.atis.org</a>	<b>ISA (Organization)</b> International Society of Automation 67 Alexander Drive Research Triangle Park, NC 27709 Phone: (919) 990-9213 Fax: (919) 549-8288 Web: <a href="http://www.isa.org">www.isa.org</a>	<b>RESNA</b> Rehabilitation Engineering and Assistive Technology Society of North America  1700 N. Moore Street Suite 1540 Arlington, VA 22209-1903 Phone: (703) 524-6686 Fax: (703) 524-6630 Web: <a href="http://www.resna.org">www.resna.org</a>
<b>ABYC</b> American Boat and Yacht Council  613 Third Street, Ste 10 Annapolis, MD 21403 Phone: (410) 990-4460 Fax: (410) 990-4466 Web: <a href="http://www.abycinc.org">www.abycinc.org</a>	<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>	<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>	<b>SCTE</b> Society of Cable Telecommunications Engineers  140 Philips Road Exton, PA 19341-1318 Phone: (480) 252-2330 Fax: (610) 363-5898 Web: <a href="http://www.scte.org">www.scte.org</a>
<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>	<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>	<b>NEMA (ASC C78)</b> National Electrical Manufacturers Association  1300 North 17th Street Suite 900 Rosslyn, VA 22209 Phone: (703) 841-3277 Fax: (703) 841-3377 Web: <a href="http://www.nema.org">www.nema.org</a>	<b>TAPPI</b> Technical Association of the Pulp and Paper Industry  15 Technology Parkway South Peachtree Corners, GA 30092 Phone: (770) 209-7277 Fax: (770) 446-6947 Web: <a href="http://www.tappi.org">www.tappi.org</a>
<b>ASABE</b> American Society of Agricultural and Biological Engineers  2950 Niles Road St Joseph, MI 49085 Phone: (269) 932-7015 Fax: (269) 429-3852 Web: <a href="http://www.asabe.org">www.asabe.org</a>	<b>CSA</b> CSA Group  8501 East Pleasant Valley Rd. Cleveland, OH 44131 Phone: (216) 524-4990 x88321 Fax: (216) 520-8979 Web: <a href="http://www.csa-america.org">www.csa-america.org</a>	<b>NEMA (ASC C82)</b> National Electrical Manufacturers Association  1300 North 17th Street Suite 900 Rosslyn, VA 22209 Phone: (703) 841-3277 Fax: (703) 841-3377 Web: <a href="http://www.nema.org">www.nema.org</a>	<b>TIA</b> Telecommunications Industry Association  1320 North Courthouse Road Suite 200 Arlington, VA 22201 Phone: (703) 907-7497 Fax: (703) 907-7727 Web: <a href="http://www.tiaonline.org">www.tiaonline.org</a>
<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>	<b>DMSC, Inc.</b> Dimensional Metrology Standards Consortium, Inc.  1350 SW Alsbury Blvd #514 Burleson, TX 76028-9219 Phone: (817) 461-1092 Fax: (682) 224-6201 Web: <a href="http://www.dmis.org">www.dmis.org</a>	<b>NEMA (Canvass)</b> National Electrical Manufacturers Association  1300 North 17th Street Suite 900 Rosslyn, VA 22209 Phone: (703) 841-3290 Fax: (703) 841-3390 Web: <a href="http://www.nema.org">www.nema.org</a>	<b>UAMA (ASC B74)</b> Unified Abrasive Manufacturers' Association  30200 Detroit Road Cleveland, OH 44145-1967 Phone: (440) 899-0010 Fax: (440) 892-1404 Web: <a href="http://www.uama.org">www.uama.org</a>
<b>ASSE (Safety)</b> American Society of Safety Engineers  520 N. Northwest Highway Park Ridge, IL 60068 Phone: (847) 768-3411 Fax: (847) 296-9221 Web: <a href="http://www.asse.org">www.asse.org</a>	<b>ESA (Organization)</b> Electronic Security Association, Inc.  6333 North State Highway 161 Suite 350 Irving, TX 75038 Phone: (972) 807-6830 Web: <a href="http://www.ESAweb.org">www.ESAweb.org</a>	<b>NSF</b> NSF International  789 N. Dixboro Road Ann Arbor, MI 48105-9723 Phone: (734) 827-5643 Fax: (734) 827-7880 Web: <a href="http://www.nsf.org">www.nsf.org</a>	<b>UL</b> Underwriters Laboratories, Inc.  12 Laboratory Drive Research Triangle Park, NC 27709 -3995 Phone: (919) 549-1636 Fax: (919) 549-1636 Web: <a href="http://www.ul.com">www.ul.com</a>
<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>	<b>FCI</b> Fluid Controls Institute  1300 Sumner Avenue Cleveland, OH 44115 Phone: (216) 241-7333 Fax: (216) 241-0105 Web: <a href="http://www.fluidcontrolsintstitute.org">www.fluidcontrolsintstitute.org</a>	<b>PMMI (Organization)</b> PMMI - The Association for Packaging and Processing Technologies  11911 Freedom Drive Suite 600 Reston, VA 20190 Phone: (269) 781-6567 Fax: (269) 781-6966 Web: <a href="http://www.pmihome.org">www.pmihome.org</a>	<b>VITA</b> VMEbus International Trade Association (VITA)  929 W. Portobello Avenue Mesa, AZ 85210 Phone: (602) 281-4497 Web: <a href="http://www.vita.com">www.vita.com</a>
	<b>IAPMO (ASSE Chapter)</b> ASSE International Chapter of IAPMO  18927 Hickory Creek Drive Suite 220 Mokena, IL 60448 Phone: (708) 995-3015 Fax: (708) 479-6139 Web: <a href="http://www.asse-plumbing.org">www.asse-plumbing.org</a>		





# ISO & IEC Draft International Standards

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

## Comments

Comments regarding ISO documents should be sent to ANSI's ISO Team (isot@ansi.org); those regarding IEC documents should be sent to Charles T. Zegers, General Secretary of the USNC (czegers@ansi.org). The final date for offering comments is listed after each draft.

## Ordering Instructions

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

## ISO Standards

### ERGONOMICS (TC 159)

ISO/DIS 10075-1, Ergonomic principles related to mental work-load - Part 1: General concepts, terms and definitions - 11/30/2015, \$53.00

### FLOOR COVERINGS (TC 219)

ISO/DIS 20251, Textile floor coverings - Water impermeability test - 2/4/2016, \$33.00

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

ISO/DIS 8000-61, Data quality - Part 61: Information & data quality management process reference model - 2/4/2016, \$82.00

### INDUSTRIAL TRUCKS (TC 110)

ISO/DIS 10896-7, Rough-terrain trucks - Safety requirements and verification - Part 7: Longitudinal load moment systems - 2/4/2016, \$46.00

### LIFTS, ESCALATORS, PASSENGER CONVEYORS (TC 178)

ISO/DIS 22201-1, Lifts (elevators), escalators and moving walks - Programmable electronic systems in safety related applications - Part 1: Lifts (elevators) (PESSRAL) - 2/4/2016, \$119.00

ISO/DIS 22201-2, Lifts (elevators), escalators and moving walks - Programmable electronic systems in safety related applications - Part 2: Escalators and moving walks (PESSRAE) - 2/4/2016, \$88.00

### MECHANICAL VIBRATION AND SHOCK (TC 108)

ISO 20283-3/DAmD1, Mechanical vibration - Measurement of vibration on ships - Part 3: Pre-installation vibration measurement of shipboard equipment - Amendment 1 - 2/4/2016, \$29.00

ISO/DIS 2041, Mechanical vibration, shock and condition monitoring - Vocabulary - 11/30/2015, \$134.00

ISO/DIS 20283-5, Mechanical vibration - Measurement of vibration on ships - Part 5: Guidelines for measurement, evaluation and reporting of vibration with regard to habitability on passenger and merchant ships - 2/4/2016, \$58.00

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

ISO/DIS 17493, Clothing and equipment for protection against heat - Test method for convective heat resistance using a hot air circulating oven - 11/30/2015, \$62.00

### PETROLEUM PRODUCTS AND LUBRICANTS (TC 28)

ISO/DIS 8217, Petroleum products - Fuels (class F) - Specifications of marine fuels - 2/4/2016, \$82.00

ISO/DIS 19970, Refrigerated hydrocarbon and non-petroleum based liquefied gaseous fuels - Metering of gas as fuel on LNG carriers during cargo transfer operations - 2/4/2016, \$53.00

ISO/DIS 29945, Refrigerated non-petroleum-based liquefied gaseous fuels - Dimethylether (DME) - Method of manual sampling onshore terminals - 11/30/2015, \$62.00

ISO/DIS 8216-1, Petroleum products - Fuels (class F) classification - Part 1: Categories of marine fuels - 2/4/2016, \$29.00

ISO/DIS 13357-1, Petroleum products - Determination of the filterability of lubricating oils - Part 1: Procedure for oils in the presence of water - 11/30/2015, \$53.00

ISO/DIS 13357-2, Petroleum products - Determination of the filterability of lubricating oils - Part 2: Procedure for dry oils - 11/30/2015, \$62.00

### PHOTOGRAPHY (TC 42)

ISO/DIS 12234-3, Electronic still-picture imaging - Removable memory - Part 3: Design rule for camera file system (DCF) - 11/3/2014, \$102.00

### PLASTICS PIPES, FITTINGS AND VALVES FOR THE TRANSPORT OF FLUIDS (TC 138)

ISO/DIS 13761, Plastics pipes and fittings - Pressure reduction factors for polyethylene pipeline systems for use at temperatures above 20 degrees C - 2/4/2016, \$46.00

ISO/DIS 21307, Plastics pipes and fittings - Butt fusion jointing procedures for polyethylene (PE) pipes and fittings used in the construction of gas and water distribution systems - 11/30/2015, \$77.00

**REFRIGERATION (TC 86)**

- ISO/DIS 5151, Non-ducted air-cooled air conditioners and air-to-air heat pumps - Testing and rating for performance - 11/8/2004, \$146.00
- ISO/DIS 13253, Ducted air-conditioners and air-to-air heat pumps - Testing and rating for performance - 11/8/2004, \$155.00
- ISO/DIS 15042, Multiple split-system air-conditioners and air-to-air heat pumps - Testing and rating for performance - 11/8/2004, \$155.00

**ROAD VEHICLES (TC 22)**

- ISO/DIS 15005, Road vehicles - Ergonomic aspects of transport information and control systems - Dialogue management principles and compliance procedures - 2/28/2016, \$67.00

**THERMAL INSULATION (TC 163)**

- ISO/DIS 19467, Thermal performance of windows and doors - Determination of solar heat gain coefficient using solar simulator - 2/4/2016, \$125.00

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

- ISO 4254-12/DAMd1, Agricultural machinery - Safety - Part 12: Rotary disc and drum mowers and flail mowers - Amendment 1 - 2/28/2016, \$29.00

**WATER QUALITY (TC 147)**

- ISO/DIS 11731, Water quality - Enumeration of Legionella - 11/30/2015, \$102.00

**ISO/IEC JTC 1, Information Technology**

- ISO/IEC 29199-2/DAMd1, Information technology - JPEG XR image coding system - Part 2: Image coding specification - Amendment 1 - 11/30/2015, \$29.00
- ISO/IEC DIS 15938-6, Information technology - Multimedia content description interface - Part 6: Reference software - 11/30/2015, \$88.00
- ISO/IEC DIS 20802-1, Information technology - Open data (OData) protocol - Part 1: Protocol plus errata 02 - 11/30/2015, \$194.00
- ISO/IEC DIS 20802-2, Information technology - Open data (OData) protocol - Part 2: JSON format version 4.0 plus errata 02 - 11/30/2015, \$112.00
- ISO/IEC DIS 30105-2, Information technology - IT Enabled Services- Business Process Outsourcing (ITES-BPO) lifecycle processes - Part 2: Process assessment model - 11/30/2015, \$175.00
- ISO/IEC DIS 23000-16, Information technology - Multimedia application format (MPEG-A) - Part 16: Publish/Subscribe Application Format - 11/30/2015, \$77.00

**IEC Standards**

- 2/1798/CDV, IEC 60034-18-42 Ed.1: Rotating electrical machines - Part 18-42: Partial discharge resistant electrical insulation systems (Type II) used in rotating electrical machines fed from voltage converters - Qualification tests, 01/29/2016
- 3/1250/CD, IEC 60445 Ed. 6.0: Basic and safety principles for man-machine interface, marking and identification - Identification of equipment terminals, conductor terminations and conductors, 01/29/2016
- 3D/259/DC, IEC Common Data Dictionary (IEC CDD): C00053 Update of AAF599 life cycle types, 12/18/2015

- 20/1602/NP, Conductors of insulated cables - Standard for AWG and kcmil sizes, 01/29/2016
- 23H/339/DC, Improved testing method for IEC 62196 accessories of SC 23H: Plugs, socket-outlets, vehicles connectors and vehicle inlets for conductive charging of electric vehicles, 12/04/2015
- 26/578/CDV, IEC 60974-1 Ed.5: Arc welding equipment - Part 1: Welding power sources, 01/29/2016
- 34A/1874/DTS, IEC/TS 62972 Ed.1: General lighting - Organic light emitting diode (OLED) products and related equipment - Terms and definitions, 01/29/2016
- 34A/1876/NP, PNW 34A-1876: Self ballasted double capped tubular LED lamp connected to AC nominal voltage - Safety requirements, 01/29/2016
- 40/2420/FDIS, IEC 60384-1 Ed.5: Fixed capacitors for use in electronic equipment - Part 1: Generic specification, 12/25/2015
- 40/2421/FDIS, IEC 60384-14-1 Ed.3: Fixed capacitors for use in electronic equipment - Part 14-1: Blank detail specification - Fixed capacitors for electromagnetic interference suppression and connection to the supply mains - Assessment level DZ, 12/25/2015
- 45A/1054/FDIS, IEC/IEEE 62582-2 A1 Ed.1: Amendment 1 to IEC/IEEE 62582-2 Ed.1: Nuclear power plants - Instrumentation and control important to safety - Electrical equipment condition monitoring methods - Part 2: Indenter modulus, 12/25/2015
- 45A/1056/NP, Nuclear power plants - Electrical systems - General requirements, 01/29/2016
- 45B/825/FDIS, IEC 61017 Ed.1: Radiation protection instrumentation - Transportable, mobile or installed equipment to measure photon radiation for environmental monitoring, 12/25/2015
- 46F/326/CDV, IEC 61169-54 Ed.1: Radio-frequency connectors - Part 54: Sectional specification for coaxial connectors with 10mm inner diameter of outer conductor nominal characteristic impedance 50 Ohms, Series 4.3-10r, 01/29/2016
- 48B/2462/CD, IEC 61076-2-111/Ed1: Connectors for electronic equipment - Product requirements - Part 2-111: Circular connectors - Detail specification for power connectors with M12 screw-locking, 01/29/2016
- 57/1618/CDV, IEC 62325-351 Ed.2: Framework for energy market communications - Part 351: CIM European market model exchange profile, 01/29/2016
- 57/1637/DTR, IEC 62351-12 TR Ed.1: Power systems management and associated information exchange - Data and communications security - Part 12: Resilience and security recommendations for power systems with Distributed Energy Resources (DER) cyber-physical systems, 12/25/2015
- 65C/831/CD, IEC 61158-x-25 Ed. 1.0: Industrial communication networks - Fieldbus specifications and Profiles - Type 25 elements and CPF 20 (ADS-net), 01/29/2016
- 65C/832/CD, IEC 61158-x-26 Ed. 1.0: Industrial communication networks - Fieldbus specifications and Profiles - Type 26 elements and CPF 21 (FL-net), 01/29/2016
- 69/390A/CD, IEC 61851-3-1 TS Ed.1: Electric Vehicles Conductive Power Supply System - Part 3-1: General Requirements for light electric vehicles a.c. and d.c. conductive power supply systems, 01/08/2016
- 69/391A/CD, IEC 61851-3-2 TS Ed.1: Electric Vehicles Conductive Power Supply System - Part 3-2: Particular requirements for light electric vehicles - DC conductive power supply equipment, 01/08/2016
- 76/533/CDV, IEC 60825-12: Safety of free space optical communication systems used for transmission of information, 01/29/2016

- 82/1018/CDV, IEC 62817 A1 Ed.1: Amendment 1 to IEC 62817 Ed.1: Photovoltaic systems - Design qualification of solar trackers, 01/29/2016
- 82/1043/CD, IEC 61724-2 Ed.1: Photovoltaic system performance - Part 2: Capacity evaluation method, 01/29/2016
- 82/1044/NP, Photovoltaic devices - Part 1-2: Measurement of current-voltage characteristics of bifacial photovoltaic (PV) devices (proposed IEC 60904-1-2 TS), 01/29/2016
- 89/1284F/CDV, IEC 60695-8-2/Ed1: Fire hazard testing - Part 8-2: Heat release - Summary and relevance of test methods, 12/18/2015
- 90/359/FDIS, IEC 61788-4: Superconductivity - Residual resistance ratio measurement - Residual resistance ratio of Nb-Ti and Nb<sub>3</sub>Sn composite superconductors, 12/25/2015
- 91/1314/FDIS, IEC 61671-2 Ed.1: IEEE Standard for Automatic Test Markup Language (ATML) Instrument Description (IEEE 1671.2 - 2012), 12/25/2015
- 91/1315/FDIS, IEC 61671-4 Ed.1: IEEE Standard for Automatic Test Markup Language (ATML) Test Configuration (IEEE 1671.4 - 2014), 12/25/2015
- 91/1316/FDIS, IEC 61671-5 Ed.1: IEEE Standard for Automatic Test Markup Language (ATML) Test Adapter Description (IEEE 1671.5 - 2015), 12/25/2015
- 91/1317/FDIS, IEC 61671-6 Ed.1: IEEE Standard for Automatic Test Markup Language (ATML) Test Station Description (IEEE 1671.6 -2015), 12/25/2015
- 113/286A/NP, IEC TS 62607-2-4: Nanomanufacturing - Key control characteristics - Part 2-4: Carbon nanotube materials - Accuracy and repeatability of test methods for determination of resistance of individual carbon nanotubes, 01/22/2016
- 116/248/CDV, IEC 62841-2-17 Ed. 1.0: Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 2-17: Particular requirements for hand-held routers, 01/29/2016
- 116/250/CDV, IEC 62841-2-21/Ed1: Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 2-21: Particular requirements for hand-held drain cleaners, 01/29/2016



# 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

### ISO/IEC JTC 1 Technical Reports

[ISO/IEC TR 23009-3:2015](#), Information technology - Dynamic adaptive streaming over HTTP (DASH) - Part 3: Implementation Guidelines, \$88.00

#### ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

[ISO 10079-1:2015](#), Medical suction equipment - Part 1: Electrically powered suction equipment, \$173.00

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

[ISO 18774:2015](#), Securities and related financial instruments - Financial Instrument Short Name (FISN), \$88.00

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

[ISO 1938-1:2015](#), Geometrical product specifications (GPS) - Dimensional measuring equipment - Part 1: Plain limit gauges of linear size, \$173.00

#### METALLIC AND OTHER INORGANIC COATINGS (TC 107)

[ISO 28764:2015](#), Vitreous and porcelain enamels - Production of specimens for testing enamels on sheet steel, sheet aluminium and cast iron, \$51.00

[ISO 28721-4:2015](#), Vitreous and porcelain enamels - Glass-lined apparatus for process plants - Part 4: Quality requirements for glass-lined flanged steel pipes and flanged steel fittings, \$51.00

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

[ISO 5631-1:2015](#), Paper and board - Determination of colour by diffuse reflectance - Part 1: Indoor daylight conditions (C/2 degrees), \$123.00

[ISO 5631-2:2015](#), Paper and board - Determination of colour by diffuse reflectance - Part 2: Outdoor daylight conditions (D65/10 degrees), \$123.00

[ISO 5631-3:2015](#), Paper and board - Determination of colour by diffuse reflectance - Part 3: Indoor illumination conditions (D50/2 degrees), \$123.00

#### PLASTICS (TC 61)

[ISO 4586-1:2015](#), High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (Usually called Laminates) - Part 1: Introduction and general information, \$51.00

[ISO 4586-2:2015](#), High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (Usually called Laminates) - Part 2: Determination of properties, \$265.00

[ISO 4586-3:2015](#), High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (Usually called Laminates) - Part 3: Classification and specifications for laminates less than 2 mm thick and intended for bonding to supporting substrates, \$123.00

[ISO 4586-4:2015](#), High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (Usually called Laminates) - Part 4: Classification and specifications for compact laminates of thickness 2 mm and greater, \$88.00

[ISO 4586-5:2015](#), High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (Usually called Laminates) - Part 5: Classification and specifications for flooring grade laminates less than 2 mm thick intended for bonding to supporting substrates, \$88.00

[ISO 4586-6:2015](#), High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (Usually called Laminates) - Part 6: Classification and specifications for exterior-grade compact laminates of thickness 2 mm and greater, \$88.00

[ISO 4586-7:2015](#), High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (Usually called Laminates) - Part 7: Classification and specifications for design laminates, \$149.00

[ISO 4586-8:2015](#), High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (Usually called Laminates) - Part 8: Classification and specifications for alternative core laminates, \$123.00

#### PULLEYS AND BELTS (INCLUDING VEEBELTS) (TC 41)

[ISO 283:2015](#), Textile conveyor belts - Full thickness tensile strength, elongation at break and elongation at the reference load - Test method, \$88.00

[ISO 7622-2:2015](#), Steel cord conveyor belts - Longitudinal traction test - Part 2: Measurement of tensile strength, \$51.00

#### ROAD VEHICLES (TC 22)

[ISO 18541-4:2015](#), Road vehicles - Standardized access to automotive repair and maintenance information (RMI) - Part 4: Conformance test, \$240.00

#### WOOD-BASED PANELS (TC 89)

[ISO 12460-3:2015](#), Wood-based panels - Determination of formaldehyde release - Part 3: Gas analysis method, \$88.00

## IEC Standards

#### ELECTRICAL ACCESSORIES (TC 23)

[IEC 61242 Amd.2 Ed. 1.0 b:2015](#), Amendment 2 - Electrical accessories - Cable reels for household and similar purposes, \$20.00

**FIBRE OPTICS (TC 86)**

[IEC 61753-031-2 Ed. 1.0 b:2014](#), Fibre optic interconnecting devices and passive components - Performance standard - Part 031-2: Non-connectorized single-mode 1 × N and 2 × N non-wavelength-selective branching devices for Category C - Controlled environment, \$121.00

**INSULATING MATERIALS (TC 15)**

[IEC 60684-3-284 Ed. 1.0 b:2014](#), Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheet 284: Heat-shrinkable sleeveings, for oil barrier applications, \$61.00

[IEC 60684-3-285 Ed. 1.0 b:2014](#), Flexible insulating sleeving - Part 3: Specifications for individual types of sleeving - Sheet 285: Heat-shrinkable polyolefin sleeving, for medium voltage joint insulation, \$48.00

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

[IEC 62612 Ed. 1.1 b:2015](#), Self-ballasted LED lamps for general lighting services with supply voltages > 50 V - Performance requirements, \$339.00

[IEC 62612 Amd.1 Ed. 1.0 b:2015](#), Amendment 1 - Self-ballasted LED lamps for general lighting services with supply voltages > 50 V - Performance requirements, \$17.00

[IEC 60598-1 Ed. 8.0 b cor.1:2015](#), Corrigendum 1 - Luminaires - Part 1: General requirements and tests, \$0.00

**LIGHTNING PROTECTION (TC 81)**

[IEC 62561-1 Ed. 1.0 b:2012](#), Lightning protection system components (LPSC) - Part 1: Requirements for connection components, \$157.00

[IEC 62561-2 Ed. 1.0 b:2012](#), Lightning protection system components (LPSC) - Part 2: Requirements for conductors and earth electrodes, \$230.00

[IEC 62561-3 Ed. 1.0 b:2012](#), Lightning protection system components (LPSC) - Part 3: Requirements for isolating spark gaps (ISG), \$121.00

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

[IEC 60436 Ed. 4.0 b:2015](#), Electric dishwashers for household use - Methods for measuring the performance, \$375.00

**PIEZOELECTRIC AND DIELECTRIC DEVICES FOR FREQUENCY CONTROL AND SELECTION (TC 49)**

[IEC 62575-1 Ed. 1.0 b:2015](#), Radio frequency (RF) bulk acoustic wave (BAW) filters of assessed quality - Part 1: Generic specification, \$254.00

**PRIMARY CELLS AND BATTERIES (TC 35)**

[IEC 60086-2 Ed. 13.0 b:2015](#), Primary batteries - Part 2: Physical and electrical specifications, \$303.00

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

[IEC 62841-2-2 Ed. 1.0 b cor.1:2015](#), Corrigendum 1 - Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-2: Particular requirements for hand-held screwdrivers and impact wrenches, \$0.00

[IEC 62841-2-4 Ed. 1.0 b cor.1:2015](#), Corrigendum 1 - Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-4: Particular requirements for hand-held sanders and polishers other than disc type, \$0.00

[IEC 62841-2-9 Ed. 1.0 b cor.1:2015](#), Corrigendum 1 - Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-9: Particular requirements for hand-held tappers and threaders, \$0.00

[IEC 62841-3-9 Ed. 1.0 b cor.1:2015](#), Corrigendum 1 - Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-9: Particular requirements for transportable mitre saws, \$0.00

**SECONDARY CELLS AND BATTERIES (TC 21)**

[IEC 61982-4 Ed. 1.0 b:2015](#), Secondary batteries (except lithium) for the propulsion of electric road vehicles - Part 4: Safety requirements of nickel-metal hydride cells and modules, \$85.00

**SEMICONDUCTOR DEVICES (TC 47)**

[IEC 62132-1 Ed. 2.0 b:2015](#), Integrated circuits - Measurement of electromagnetic immunity - Part 1: General conditions and definitions, \$182.00

**TOOLS FOR LIVE WORKING (TC 78)**

[IEC 61472 Ed. 3.0 b cor.1:2015](#), Corrigendum 1 - Live working - Minimum approach distances for a.c. systems in the voltage range 72,5 kV to 800 kV - A method of calculation, \$0.00

**IEC Technical Reports****ELECTRICAL ACCESSORIES (TC 23)**

[IEC/TR 60083 Ed. 7.0 b:2015](#), Plugs and socket-outlets for domestic and similar general use standardized in member countries of IEC, \$411.00

**POWER SYSTEM CONTROL AND ASSOCIATED COMMUNICATIONS (TC 57)**

[IEC/TR 61968-900 Ed. 1.0 en:2015](#), Application integration at electric utilities - System interfaces for distribution management - Part 900: Guidance for implementation of IEC 61968-9, \$387.00

# Proposed Foreign Government Regulations

## Call for Comment

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

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

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

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



# Information Concerning

## American National Standards

### INCITS Executive Board

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

The InterNational Committee for Information Technology Standards (INCITS), an ANSI accredited SDO, is the forum 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 reply on standards in the use of a products/service, as opposed to producing or distributing conformant products/services.

- **Consultants**

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

- **Standards Development Organizations and Consortia**

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

- **Academic Institution**

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

- **Other**

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

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

### Calls for Members

#### Society of Cable Telecommunications

#### ANSI Accredited Standards Developer

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

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

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

#### Provisional American National Standard approved on 16 October 2015 by AAMI in accordance with ANSI Essential Requirements, Annex B

AAMI/CN6(PS), Small-bore connectors for liquids and gases in healthcare applications – Part 6: Connectors for neuraxial applications. Specifies requirements for small-bore connectors intended to be used for connections in neuraxial applications. Neuraxial applications involve the use of medical devices intended to administer medications to neuraxial sites, wound infiltration anaesthesia delivery, and other regional anaesthesia procedures or to monitor or remove cerebro-spinal fluid for therapeutic or diagnostic purposes.

Contact: [celliott@aami.org](mailto:celliott@aami.org).

### PINS Withdrawals

#### ASTM: Withdrawal of PINS from the ANSI Process

ASTM has withdrawn the following projects from consideration within the American National Standards process:

WK35907, Specification for Breakaway Helmet Accessories

WK41378, Specification for RESEARCH REPORT: Evaluation of Alcohol to Jet Synthetic Paraffinic Kerosenes (ATJ-SPKs)

WK46454, Test Method for Measuring Baseball and Softball Diameter and Seam Height

WK47437, Test Method for Pick Up Efficiency and Flow Measurement of Vacuum Cleaners

WK50441, Specification for Baked Carbon for Insulators to be used in High Temperature Reactors

Questions may be directed to: [accreditation@astm.org](mailto:accreditation@astm.org).

## INCITS: Withdrawal of PINS for INCITS 521

INCITS has withdrawn the following project from the ANSI process: INCITS 521-201x, Information technology - SCSI over PCIe® architecture - 2 (SOP-2). Questions?: [rporter@itic.org](mailto:rporter@itic.org)

# ANSI Accredited Standards Developers

## Approval of Reaccreditation

### ASC C8 – Insulated Wires and Cables

At the direction of ANSI's Executive Standards Council (ExSC), the reaccreditation of Accredited Standards Committee C8, Insulated Wires and Cables, has been approved under its recently revised operating procedures for documenting consensus on ASC C8-sponsored American National Standards, effective October 30, 2015. For additional information, please contact the Secretariat of ASC C8: Mr. Kevin Connelly, Sr. Program Manager, National Electrical Manufacturers Association, 1300 North 17th Street, Suite 900, Rosslyn, VA 22209; phone: 703.841.3299; e-mail: [Kevin.Connelly@NEMA.org](mailto:Kevin.Connelly@NEMA.org).

### ASC C18 – Portable Cells and Batteries

At the direction of ANSI's Executive Standards Council (ExSC), the reaccreditation of Accredited Standards Committee C18, Portable Cells and Batteries, has been approved under its recently revised operating procedures for documenting consensus on ASC C18-sponsored American National Standards, effective October 29, 2015. For additional information, please contact the Secretariat of ASC C18: Mr. Khaled Masri, National Electrical Manufacturers Association, 1300 North 17th Street, Suite 900, Rosslyn, VA 22209; phone: 703.841.3278; e-mail: [Khaled.Masri@NEMA.org](mailto:Khaled.Masri@NEMA.org).

### ASC C37 – Power Switchgear

At the direction of ANSI's Executive Standards Council (ExSC), the reaccreditation of Accredited Standards Committee C37, Power Switchgear, has been approved under its recently revised operating procedures for documenting consensus on ASC C37-sponsored American National Standards, effective October 30, 2015. For additional information, please contact the Secretariat of ASC C37: Mr. Gary MacFadden, Technical Program Manager, National Electrical Manufacturers Association, 1300 North 17th Street, Suite 900, Rosslyn, VA 22209; phone: 703.841.3267; e-mail: [Gary.MacFadden@NEMA.org](mailto:Gary.MacFadden@NEMA.org).

### ASC C80 – Raceways for Electrical Wiring Systems

At the direction of ANSI's Executive Standards Council (ExSC), the reaccreditation of Accredited Standards Committee C80, Raceways for Electrical Wiring Systems, has been approved under its recently revised operating procedures for documenting consensus on ASC C80-sponsored American National Standards, effective October 30, 2015. For additional information, please contact the Secretariat of ASC C80: Mr. Joel Solis, Conformity Assessment Manager, National Electrical Manufacturers Association, 1300 North 17th Street, Suite 900, Rosslyn, VA 22209; phone: 703.841.3267; e-mail: [joel\\_solis@NEMA.org](mailto:joel_solis@NEMA.org).

### ASC C84 – Preferred Voltage Rating for AC Systems and Equipment

At the direction of ANSI's Executive Standards Council (ExSC), the reaccreditation of Accredited Standards Committee C84, Preferred Voltage Rating for AC Systems and Equipment, has been approved under its recently revised operating procedures for documenting consensus on ASC C84-sponsored American National Standards, effective October 30, 2015. For additional information, please contact the Secretariat of ASC C84: Mr. Khaled Masri, Program Manager, National Electrical Manufacturers Association, 1300 North 17th Street, Suite 900, Rosslyn, VA 22209; phone: 703.841.3278; e-mail: [Khaled.Masri@NEMA.org](mailto:Khaled.Masri@NEMA.org).

### ASC C137 – Lighting Systems

At the direction of ANSI's Executive Standards Council (ExSC), the reaccreditation of Accredited Standards Committee C137, Lighting Systems, has been approved under its recently revised operating procedures for documenting consensus on ASC C137-sponsored American National Standards, effective November 4, 2015. For additional information, please contact the Secretariat of ASC C137: Ms. Karen Willis, Sr. Lighting Program Manager, National Electrical Manufacturers Association, 1300 North 17th Street, Suite 900, Rosslyn, VA 22209; phone: 703.841.3277; e-mail: [Karen.willis@nema.org](mailto:Karen.willis@nema.org).

### ASC W1 – Requirements for Apparatus Designed for Use in ARC Welding, Plasma Arc Cutting, and Allied Processes

At the direction of ANSI's Executive Standards Council (ExSC), the reaccreditation of Accredited Standards Committee W1, Requirements for Apparatus Designed for Use in Arc Welding, Plasma Arc Cutting, and Allied Processes, has been approved under its recently revised operating procedures for documenting consensus on ASC W1-sponsored American National Standards, effective October 30, 2015. For additional information, please contact the Secretariat of ASC W1: Mr. Kevin Connelly, Sr. Program Manager, National Electrical Manufacturers Association, 1300 North 17th Street, Suite 900, Rosslyn, VA 22209; phone: 703.841.3299; e-mail: [Kevin.Connelly@NEMA.org](mailto:Kevin.Connelly@NEMA.org).

### ASC Z535 – Safety Signs and Colors

At the direction of ANSI's Executive Standards Council (ExSC), the reaccreditation of Accredited Standards Committee Z535, Safety Signs and Colors, has been approved under its recently revised operating procedures for documenting consensus on ASC Z535-sponsored American National Standards, effective October 30, 2015. For additional information, please contact the Secretariat of ASC Z535: Mr. Kevin Connelly, Sr. Program Manager, National Electrical Manufacturers Association, 1300 North 17th Street, Suite 900, Rosslyn, VA 22209; phone: 703.841.3299; e-mail: [Kevin.Connelly@NEMA.org](mailto:Kevin.Connelly@NEMA.org).

## PLASA North America

ANSI's Executive Standards Council has approved the reaccreditation of PLASA North America, an ANSI Member and Accredited Standards Developer, under its recently revised operating procedures for documenting consensus on PLASA-sponsored American National Standards, effective November 3, 2015. For additional information, please contact: Mr. Karl G. Ruling, Technical Standards Manager, Sr. Technical Editor, Protocol, PLASA North America, 630 Ninth Avenue, Suite 609, New York, NY 10036; phone: 212.244.1505; e-mail: [karl.ruling@plasa.org](mailto:karl.ruling@plasa.org)



## Reaccreditations

### American Water Works Association (AWWA)

**Comment Deadline: December 7, 2015**

The American Water Works Association (AWWA), an ANSI member and Accredited Standards Developer, has submitted to ANSI revisions to its currently accredited operating procedures for documenting consensus on AWWA-sponsored American National Standards, under which it was last reaccredited in 2014. As the current revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: Mr. Paul J. Olson, P.E., Sr. Manager of Standards, American Water Works Association, 6666 W. Quincy Avenue, Denver, CO 80235; phone: 303.347.6178; e-mail: [polson@awwa.org](mailto:polson@awwa.org). You may view/download a copy of the revisions during the public review period at the following URL: [www.ansi.org/accredPR](http://www.ansi.org/accredPR). Please submit any public comments on the revised procedures to AWWA by December 7, 2015, with a copy to the ExSC Recording Secretary in ANSI's New York Office ([jthompso@ANSI.org](mailto:jthompso@ANSI.org)).

### Project Management Institute (PMI)

**Comment Deadline: December 7, 2015**

The Project Management Institute (PMI), an ANSI member and Accredited Standards Developer, has submitted to ANSI revisions to its currently accredited operating procedures for documenting consensus on PMI-sponsored American National Standards, under which it was last reaccredited in 2014. As the current revision represents a complete rewrite/reorganization of PMI's procedures, and appears to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: Ms. Lorna Scheel, Standards Compliance Specialist, Project Management Institute, 14 Campus Boulevard, Newtown Square, PA 19073-3299; phone: 313.404.3507; e-mail: [Lorna.Scheel@pmi.org](mailto:Lorna.Scheel@pmi.org). You may view/download a copy of the revisions during the public review period at the following URL: [www.ansi.org/accredPR](http://www.ansi.org/accredPR). Please submit any public comments on the revised procedures to PMI by December 7, 2015, with a copy to the ExSC Recording Secretary in ANSI's New York Office ([jthompso@ANSI.org](mailto:jthompso@ANSI.org)).

### RESNA – The Rehabilitation Engineering and Assistive Technology Society of North America

**Comment Deadline: December 7, 2015**

RESNA – The Rehabilitation Engineering and Assistive Technology Society of North America, an ANSI member and Accredited Standards Developer, has submitted to ANSI revisions to its currently accredited operating procedures for documenting consensus on RESNA-sponsored American National Standards, under which it was last reaccredited in February 2015. As the revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: Ms. Yvonne Meding, Secretary, Assistive Technology Standards Board, RESNA, 1700 N. Moore Street, Suite 1540, Arlington, VA 22209-1903; phone: 703.524.6686, ext. 403; e-mail: [ymeding@resna.org](mailto:ymeding@resna.org). You may view/download a copy of the revisions during the public review period at the following URL: [www.ansi.org/accredPR](http://www.ansi.org/accredPR). Please submit any public comments on the revised procedures to RESNA by December 7, 2015, with a copy to the ExSC Recording Secretary in ANSI's New York Office ([jthompso@ANSI.org](mailto:jthompso@ANSI.org)).

## Withdrawal of ASD Accreditation and Transfer of American National Standard

At the request of the standards developer, the ANSI accreditation of the Scaffolding, Shoring and Forming Institute (SSFI) as a developer of American National Standards has been formally withdrawn. The maintenance of the following SSFI-sponsored American National Standard (and all other registered projects) have been transferred to the recently accredited ASC A11, Design, Manufacturing and Performance Testing related to Scaffolding, Shoring and Forming Products and Related Components and Accessories:

ANSI/SSFI SH300-2007: Standards for Testing & Rating Shoring Equipment

These actions are taken, effective September 14, 2015. For additional information, please contact the Secretariat of ASC A11: Ms. DeAnna Martin, Associate Director/ANSI Liaison, Scaffold & Access Industry Association, 400 Admiral Boulevard, Kansas City, MO 64106; phone: 816.595.4831; e-mail: [deanna@saiaonline.org](mailto:deanna@saiaonline.org).

## ANSI Accreditation Program for Third Party Product Certification Agencies

Accreditation in Accordance with ISO/IEC 17065 (Specific Scope)

Keystone Certifications, Inc.

**Comment Deadline: December 7, 2015**

Mr. Jon Hill – President  
**Keystone Certifications, Inc.**  
 564 Old York Road, Suite 5  
 Etters, PA 17319,  
 Phone: 717-932-8500  
 Fax: 717-932-8501  
 E-mail: [jhill@keystonecerts.com](mailto:jhill@keystonecerts.com)  
 Web: [www.keystonecerts.com](http://www.keystonecerts.com)

On October 21, 2015, Keystone Certifications, Inc., an ANSI-accredited certification body, was granted Accreditation in accordance with ISO/IEC 17065 for the following scheme and specific scope(s):

### LISTING OF CERTIFICATION SCHEME(S)

Keystone Metal Roof Certification & Listing Program

### SCOPE(S)

- 91.060 Elements of buildings
  - 91.060.20 Roofs
- 91.100 Construction materials
  - 91.100.23 Ceramic tiles
  - 91.100.25 Terracotta building products
  - 91.100.60 Thermal and sound insulating materials
- 91.120 Protection of and in buildings
  - 91.120.10 Thermal insulation of buildings

Please send your comments by December 7, 2015 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).

## Initial Accreditation in accordance with ISO/IEC 17065

Associated Laboratories, Inc.

Comment Deadline: December 7, 2015

Mr. Brad Schultz – Vice-President

**Associated Laboratories, Inc.**

1323 Wall Street

Dallas, TX 75215

Phone: 214-565-0593

E-mail: [brad@assoc-labs.com](mailto:brad@assoc-labs.com)

Web: [www.assoc-labs.com](http://www.assoc-labs.com)

On October 27, 2015, Associated Laboratories, Inc. was granted Initial Accreditation in accordance with ISO/IEC 17065 for the following certification scheme and scopes:

### LISTING OF CERTIFICATION SCHEME(S)

Sealed Insulating Glass Certification Program

### ACCREDITED SCOPES

81 GLASS AND CERAMICS INDUSTRIES

81.040 Glass

81.040.20 Glass in building

Please send your comments by December 7, 2015 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)

New Work Item Proposal

Consumer warranties and guarantees

Comment Deadline: December 4, 2015

COPOLCO (ISO's Policy Group on Consumer Issues) has submitted to ISO a proposal for a new ISO standard regarding Guidelines on consumer warranties and guarantees, with the following scope statement:

The standard is intended for use by producers or sellers of goods and services to offer best practices and requirements for effective warranties when these are provided with goods and services.

It should be noted that COPOLCO had previously submitted this proposal in 2012. While the proposal passed ISO membership voting, it has not been able to proceed due to lack of an ISO national standards body wishing to assume the committee secretariat. The ISO national standards body for Malaysia (DSM) has now indicated its interest in assuming this secretariat. However, as at least three years

have now passed since this proposal was voted, ISO/CS has made the decision that the proposal should be subjected to ISO member voting again to confirm consensus support for it. For your reference, in 2012 the ANSI ISO Council (AIC) approved the ANSI position to oppose the proposal with a number of comments.

Anyone wishing to review the new work item proposal, or the comments submitted and approved in 2012, can request a copy of the proposal or comments by contacting ANSI's ISO Team via e-mail: [isot@ansi.org](mailto:isot@ansi.org) with submission of comments to Steve Cornish ([scornish@ansi.org](mailto:scornish@ansi.org)) by close of business on Friday, December 4, 2015.

## U.S. Technical Advisory Group

Approval of TAG Accreditation

U.S. TAG to ISO TC 295 – Audit Data Collection

ANSI's Executive Standards Council (ExSC) has formally approved the accreditation of the U.S. Technical Advisory Group to ISO TC 295, Audit data collection, under the Model Operating Procedures for U.S. Technical Advisory Groups to ANSI for ISO Activities (Annex A of the ANSI International Procedures) and with ANSI serving as TAG Administrator, effective October 29, 2015. For additional information, please contact: Ms. Rachel Hawthorne, Sr. Manager, ISO Outreach & Enhanced Services, American National Standards Institute, 25 West 43rd Street, 4th Floor, New York, NY 10036; phone: 212.642.4938; e-mail: [rhawthorne@ansi.org](mailto:rhawthorne@ansi.org).

## Meeting Notices

AHRI Meetings

Revision of AHRI Standard 440, Performance Rating of Room Fan-Coils

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) will be holding a face-to-face meeting at AHRI headquarters in Arlington, Va., on December 6-7. If you are interested in participating in the meeting or providing comments on the standard, please contact AHRI staff member Lauren Zelinski at [lzelinski@ahrinet.org](mailto:lzelinski@ahrinet.org).

Revision of ANSI/AHRI Standard 1230-2010, Performance Rating of Variable Refrigerant Flow (VRF) Multi-Split Air Conditioning and Heat Pump Equipment

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) will be holding an online meeting on November 20 from 9 a.m. to 12 p.m. If you are interested in participating in the meeting or providing comments on the standard, please contact AHRI staff member Richie Mohan at [rmohan@ahrinet.org](mailto:rmohan@ahrinet.org).

# **Information Concerning**

## **International Organization for Standardization (ISO)**

### **ISO Proposal for a New Field of ISO Technical Activity**

#### **Halal**

#### **Comment Deadline: December 11, 2015**

ESMA, the ISO member body for the United Arab Emirates, has submitted to ISO a proposal for a new field of ISO technical activity on Halal, with the following scope statement:

The Halal Technical Committee will draft International Standards for Halal products and services, including requirements for personnel competency requirements, management system requirements for organizations. This shall define and include best practices, policies, processes and guidelines for developing Halal Standards or other Technical Specification/requirements, Sampling and Testing Methods, as well as sector application conformity assessment documents on Inspection, Certification, and Accreditation. Sector applications of Conformity Assessment standards shall be developed in a Joint Working Group (JWG) under the leadership of CASCO using the CASCO toolbox. In addition these standards will promote mutual recognition and acceptance of national and regional Conformity Assessment Systems and Marks/labeling standards.

This committee shall also include market monitoring procedures and applicable corrective actions in local and international settings, such as rapid exchange of information and alert systems, recalls and other mitigating measures.

Halal products and services include food (fresh, frozen, processed etc.), beverages, cosmetics and personal care, pharmaceuticals, apparel, logistics, finance, tourism and hospitality and more.

Excluded:

- Matters not falling under scope and not applicable to the Halal concept;
- Generic food standards falling under the scope of ISO/TC 34 Food products;
- Clothing and textile standards falling under the scope of ISO/TC 38 Textiles and ISO/TC 133 Clothing sizing systems - size designation, size measurement methods and digital fittings;
- Pharmaceutical standards falling under the scope of ISO/TC 76, Transfusion, infusion and injection equipment for medical and pharmaceutical use; ISO/TC 194 Biological and clinical evaluation of medical devices, and ISO/TC 212 Clinical laboratory testing and in vitro diagnostic test systems;
- Generic packaging standards falling under the scope of ISO/TC 122 Packaging;
- Generic cosmetics standards falling under the scope of ISO/TC 217 Cosmetics;
- Generic tourism and related services standards falling under the scope of ISO/TC 228 Tourism and related services; and
- Consumer Policy standards falling under the scope of COPOLCO.

Anyone wishing to review this new proposal can request a copy by contacting ANSI's ISO Team via email: [isot@ansi.org](mailto:isot@ansi.org) with submission of comments to Steve Cornish ([scornish@ansi.org](mailto:scornish@ansi.org)) by close of business on Friday, December 11, 2015.

# Information Concerning

## International Electrotechnical Commission (IEC)

### Representatives Needed

### USNC Needs Representatives to Join Various, Newly Established IEC SMB Groups

### Membership Request Deadline: November 13, 2015

These SMB Groups are as follows:

#### 1. IEC SMB Ad Hoc Group 60 – Disruptive technologies\*

The SMB agreed to set up ahG 60 on Disruptive technologies. The ahG should investigate the role of disruptive technologies in the area of electrotechnologies with an emphasis on healthcare and report on how disruptive technologies may affect the work of more traditional TCs. The work should include activities in TC 62, SyC AAL, SG 10, and ACSEC amongst others. Convenor: Jeongjoon Lee (KR), members: US, GB, SE, IN, DE, CN, BR, AU, RU, and JP. Mr. Gilles Thonet, IEC Head of ICT Standards Coordination, has been appointed Secretary of ahG 60.

*\*NOTE - A disruptive technology is an innovation that helps create a new market and value network, and eventually disrupts an existing market and value network (over a few years or decades), displacing an earlier technology.*

#### 2. IEC SMB Ad Hoc Group 62 – Space technology

The SMB, noting that IEC CO had been given a list of work items in CEN/CENELEC TC 5 on Space Technology, set up ahG 62, Review of CEN/CENELEC TC 5 electrotechnology work items, with the task of reviewing the work program of the TC and determining which work items might be of interest to IEC and which IEC TC/SCs would be concerned.

The ahG should report back at SMB meeting 155 in February 2016. Convenor: Alexander Zazhigalkin (RU), members: US, DE, FR, CN, IN, and CENELEC. Mr. Charles Jacquemart, IEC Technical Officer, has been appointed Secretary of ahG 62.

If you are interested in becoming the USNC Representative to any of these SMB Groups, please contact Tony Zertuche, USNC Deputy General Secretary, no later than **FRIDAY, NOVEMBER 13, 2015** - Tel: 212 642 4892, E-Mail: [tzertuche@ansi.org](mailto:tzertuche@ansi.org). For membership in each of these Groups, a **1 page CV** will be submitted to the SMB for formal approval.

**BSR/ASA S3.44-201x/Part 1 / ISO 1999:2013 (MOD) - REBALLOT**

This is a 30-day recirculation ballot for a proposed modified national adoption. The substantive change to the previously balloted version of the document is shown in **blue** font within a **blue box** at the bottom of this page. This text is the only item subject to consideration in this recirculation ballot.

**Table A.3 — Selected values of the statistical distribution of hearing threshold levels in decibels, from database A**

Frequency Hz	Hearing threshold level dB														
	Age years														
	30			40			50			60			70		
	Percentages														
	90	50	10	90	50	10	90	50	10	90	50	10	90	50	10
Males															
500	-6	1	9	-5	2	11	-4	4	14	-3	6	18	-1	9	23
1000	-6	1	9	-5	2	11	-4	4	14	-2	7	19	0	11	25
2000	-7	1	11	-6	3	15	-3	7	21	-1	12	29	3	19	39
3000	-7	2	13	-5	6	19	-2	12	29	3	20	42	9	31	59
4000	-7	2	14	-4	8	23	0	16	36	7	28	55	15	43	79
6000	-8	3	16	-5	9	26	0	18	41	8	32	62	17	49	>80
8000	-9	3	19	-5	11	30	1	23	49	10	39	75	22	60	>80
Females															
500	-6	1	9	-5	2	11	-4	4	14	-3	6	18	-1	9	23
1000	-6	1	9	-5	2	11	-4	4	14	-2	7	19	0	11	25
2000	-6	1	10	-5	3	13	-3	6	18	-1	11	25	2	16	34
3000	-7	1	11	-5	4	15	-3	8	21	0	13	30	4	20	41
4000	-7	1	12	-6	4	17	-3	9	24	1	16	35	5	24	48
6000	-8	2	14	-6	6	21	-2	12	31	2	21	45	9	32	62
8000	-10	2	17	-7	7	25	3	15	38	4	27	55	11	41	77

**U. S. MODIFICATION: Erratum – There is an error in the 8000 Hz data for females in the 50-year age range for the 90<sup>th</sup> percentile. The correct value is shown below in blue.**

<b>8000</b>	-10	2	17	-7	7	25	-2	15	38	4	27	55	11	41	77
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**Background:**

Section 7.3.3 addresses structural design of piles in general, and 7.3.3.2 deals with allowable compression using permissible stresses based on IBC at time of D107-10 balloting. Allowable compression stresses found in IBC are periodically updated, and may change from time to time. For example, IBC 2009 changed allowable compression stress for augered cast-in-place piles from  $0.25 f_c$  to  $0.30 f_c$ .

Since the intent of the D107 provisions has always been to be aligned with the building code and current practice it is recommended to remove specific allowable compression stress values from the D107 provisions, and simply reference IBC. For information numerical values for allowable stress commonly used would be included in the commentary for ease of use.

**Reason for Change:**

Update allowable compression stress values by reference to IBC rather than stating specific values. Add numerical values for allowable pile compression based on IBC to commentary for user information.

**1. Proposed Change to Standard: section 7.3.3.2***7.3.3 Structural design of piles.*

7.3.3.1 General. Piles shall be designed for axial and lateral loads and moments due to handling, installation, and the load combinations in Sec. 4.3.3. Design shall be in accordance with requirements of applicable building codes for the type of pile material. Maximum specified compressive strength  $f'_c$  of cast-in-place concrete and grout shall be 5,000 psi (34 MPa).

7.3.3.2 Allowable ~~compressive~~ stress. ~~Unless otherwise specified or required by applicable building codes, axial compression~~ Allowable stress in piles shall not exceed the ~~following values permitted by the project specification or applicable building code~~ for unfactored load combinations in Sec. 4.3.3: Allowable stress may be increased by one-third for load combinations that include wind or seismic loads.

~~1. Structural steel piles or steel casing of concrete-filled piles:  $0.35 F_y$~~

~~The load-carrying capacity of steel casing is applicable only when the casing thickness is  $3/16$  in. (4.8 mm) or greater.~~

~~2. Concrete in precast piles or drilled piers, and concrete in steel casing:  $0.33 f'_c$~~

~~3. Concrete for auger cast piles:  $0.25 f'_c$~~

~~4. Reinforcement in concrete piles:  $0.34 f_y$~~

~~5. Concrete in precast prestressed concrete piles:  $0.33f'_c - 0.27f_{pe}$~~

~~6. Allowable compression stress may be increased by one-third for load combinations that include wind or seismic loads.~~

7.3.3.3 Seismic design details. Design and detailing of piles subject to seismic forces shall comply with ASCE.

## 2. Proposed Change to Commentary: section A.7.3.3.2

*A.7.3.3 Structural design of piles.* ~~Allowable unit stress for compression based on values in building codes~~ Table A.3 lists allowable unit stresses for piles based on IBC 2012. ASCE 20 provides guidance for structural design of piles. ACI 336.3R provides recommendations for design and construction of drilled piers. Seismic detailing requirements for piles are found in Sections 12.13.6 and 14.2.3 of ASCE 7.

**Table A.3 Allowable Stress in Piles Typically Used <sup>(1)</sup>**

<u>Pile Type and Loading Condition</u>	<u>Maximum Allowable Stress</u>
<u>a. Concrete or grout in compression <sup>(2)</sup></u>	
<u>cast-in-place in a temporary or permanent casing, or rock</u>	<u><math>0.33 f'_c</math></u>
<u>cast-in-place without a permanent casing</u>	<u><math>0.30 f'_c</math></u>
<u>precast nonprestressed</u>	<u><math>0.33 f'_c</math></u>
<u>precast prestressed</u>	<u><math>0.33 f'_c - 0.27 f_{pe}</math></u>
<u>b. Nonprestressed reinforcement</u>	
<u>in compression</u>	<u><math>0.4f_y \leq 30,000 \text{ psi}</math></u>
<u>in tension</u>	<u><math>0.5f_y \leq 24,000 \text{ psi}</math></u>
<u>c. Structural steel in compression and tension <sup>(3)</sup></u>	
<u>H-Piles, open-ended pipe piles, and steel casing of concrete-filled pipe piles</u>	<u><math>0.35F_y \leq 16,000 \text{ psi}</math></u>

(1) Commentary Table A.3 is based on Table 1810.3.2.6 of IBC 2012. See IBC 1810.3 for conditions where higher allowable stresses are permitted.

(2) Stresses specified apply to the gross cross-sectional area of concrete; the inside area of temporary or permanent casing, and the auger area of uncased piles.  $f'_c$  is the specified compressive strength of concrete or grout tested with cylinders. Strength tests from grout cubes are approximately 25 percent greater than tests from standard cylinders, and should be considered equivalent to 80 percent of the cylinder strength.

(3) Load carrying capacity of steel casing is applicable only when the casing thickness is 3/16 in. (4.8 mm) or greater



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

## NSF/ANSI Standard for Drinking Water System Components – Health Effects

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### **8 Mechanical devices**

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#### **8.6 Chemical feeders and generators**

Samples for the testing of chemical feeders and generators shall be selected according to the requirements of Annex B, sections B.2.3 and B.4.1. Chemical feeder and generator samples shall be conditioned as indicated in Annex B, section B.4.3. Following conditioning, the samples shall be exposed as indicated in Annex B, section B.4.4.3. Normalization shall be as specified in Annex B, section B.8.5.

##### **8.6.1 Solid Chemical Feeders**

Solid chemical feeders shall be evaluated only with the specific types of chemical formulations and forms that are recommended by the feeder manufacturer. The specific chemical formulation shall also comply with the requirements of NSF/ANSI 60: *Drinking Water Treatment Chemicals – Health Effects*. The manufacturer shall include information regarding the specific chemical and form for which the product is certified and shall also include a warning in their installation, maintenance and operating instructions or dataplate, regarding the dangers of misuse that could result from using the wrong chemical or form, and whether or not such use would render the warranty invalid.

##### **8.6.2 Cu/Ag generator electrodes**

In addition to the evaluation of the chemical generator under 8.6, the electrodes for Cu/Ag generator shall be evaluated for potential non-silver and non-copper contaminants in accordance with Annex B, section B.4.4.3.3.

The normalized concentration of contaminants shall be calculated in accordance with Annex B, section B.8.5.1 and shall be no greater than their respective SPACs, determined in accordance with Annex A.

##### **8.6.3 Chemical feeders and generators for building water systems**

In addition to evaluating the contribution of chemical contaminants to drinking water, chemical feeders for building water systems shall be evaluated for the control of the intentionally dosed chemical(s) to prevent exceeding the manufacturers stated maximum use level which shall not exceed the total allowable concentration of the chemical in accordance with Annex A.

- The device label shall identify the maximum use level for the dosage of the treatment chemical.
- A direct means of controlling chemical feed or generation shall be provided.

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- The product use instructions shall identify a recommended monitoring frequency for measuring the concentration of the dosed chemical(s) at each representative outlet, or designated sample point(s) as indicated by the authority having jurisdiction.
- Product use instructions and literature referencing NSF 61 shall specify that: *NSF/ANSI 61 addresses health effects only and does not address the disinfection efficacy of the product.*

**Reason: Added criteria to evaluate in-line copper silver ion generators that are used to control legionella growth in building water systems per 2014 DWA-SC JC meeting discussion (December 4, 2014).**

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## Annex B (normative)

### Product/material evaluation

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## B.4 Mechanical devices

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### B.4.3 Conditioning

Conditioning shall be conducted either in the device or in a vessel. Table B7 provides examples of typical exposures for the various products covered by this section. The test samples shall be preconditioned by exposure at room temperature  $23 \pm 2$  °C ( $73 \pm 4$  °F) to the extraction water used for testing (Annex B, section B.2.5) for 14 d or less if specified by the manufacturer. The water shall be changed at least 10 times (during the 14-d conditioning period), or fewer if specified by the manufacturer. There shall be a minimum period of 24 hours per exposure. Chemical feeders and generators are conditioned per manufacturer's instructions.

### B.4.4 Exposure

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#### B.4.4.3 Chemical feeder and generator exposure

##### B.4.4.3.1 Complete devices

Complete devices shall be operated per manufacturer's instructions until target dose levels are achieved. The unit is then turned off for a minimum of a 4-hour period. ~~The samples shall be exposed to the appropriate drinking water treatment chemical or chemical mixture for a minimum of 4 h (or for a longer period as recommended by the manufacturer) at  $23 \pm 2$  °C ( $73 \pm 4$  °F).~~ If it will take longer than 1 hour to collect a volume of chemical equivalent to the system volume, it is acceptable to reduce the 4-hour exposure period so that the entire hold time and collection time is equivalent to 5 hours. If it will take longer than 4 hours to collect the system volume, the unit shall be turned off for a minimum of a 1 hour period to collection of the entire system volume. For devices that normally operate at lower or higher temperatures, the exposure shall be at the normal operating temperature. The extractant shall be collected in a vessel appropriate for shipping and storage. For chemical feeders, a sample of the chemical prior to feeding shall be collected if possible. For chemical generators, samples of the raw

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precursor chemicals if applicable shall be collected. For all devices where the extractant is a mixture of water and the chemical(s), a sample of the influent water shall be collected and preserved as described in Annex B, section B.6. ~~Analysis of the extractant shall be in accordance~~ The extractant shall be prepared in accordance with the requirements of preparation methods in NSF/ANSI 60. Samples of the chemicals prior to feeding samples of raw materials, and influent water samples, shall be analyzed for background levels of contaminants only if, after normalization, the concentration of a contaminant(s) exceeds the SPAC (Annex B, section B.8.6 5.2).

#### **B.4.4.3.2 Components of chemical feeders and generators exposure**

The samples shall be exposed to the appropriate drinking water treatment chemical or chemical mixture for a minimum of 4 hours (or for a longer period as recommended by the manufacturer) at  $23 \pm 2$  °C ( $73 \pm 4$  °F). For devices that normally operate at lower or higher temperatures, the exposure shall be at the normal operating temperature. The extractant shall be collected in a vessel appropriate for shipping and storage. For chemical feeder component, a sample of the chemical prior to feeding shall be collected if possible. For chemical generators, samples of the raw precursor chemicals if applicable shall be collected. For all devices where the extractant is a mixture of water and the chemical(s), a sample of the influent water shall be collected and preserved as described in Annex B, section B.6. The extractant shall be prepared in accordance with the preparation methods in NSF/ANSI 60. Samples of the chemicals prior to feeding samples of raw materials, and influent water samples, shall be analyzed for background levels of contaminants only if, after normalization, the concentration of a contaminant(s) exceeds the SPAC (Annex B, section B.8.5.2).

#### **B.4.4.3.3 Cu/Ag generator electrodes**

In addition to the evaluation of the chemical generator under B.4.4.3.1, the electrodes for a Cu/Ag generator shall be evaluated for potential non-silver and non-copper contaminants.

##### **B.4.4.3.3.1 Sampling**

It is acceptable to obtain samples from components by various methods, such as drilling, turning, sawing, or milling. Where possible, blend material from a minimum of three areas taken at random locations across the electrode, so as to obtain a sample that is representative of the properties of the entire unit. With the exception of very large parts, test pieces should be drilled or sawn completely through in order to avoid over- or underrepresentation of the center portion.

##### **B.4.4.3.3.2 Sample preparation**

Dissolve a minimum of 1.0 gram of sample in accordance with U. S. EPA SW-8464 Method 3050B, Method 3052, or equivalent. It is permissible to employ other applicable sample preparation methods, provided that adequate performance is demonstrated for the analytes and matrices of interest.

Analysis of the dissolved sample for the analytes of interest shall be performed in accordance with section 7.

***Reason: Added method to evaluate in-line copper silver ion generators that are used to control Legionella growth in building water systems per 2014 DWA-SC JC meeting discussion (December 4, 2014).***

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## B.8 Normalization

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### B.8.5 Normalization for chemical feeders and generators

Chemical feeders and generators, feeder components, and the materials used therein present a special case because the materials are in contact with a concentrated chemical, which is then diluted at the prescribed feed rate, rather than in direct contact with water.

In addition to the equation in Annex B, section B.8.3, the following normalization factor shall be used to estimate the normalized concentration of a contaminant in the finished drinking water:

$$NF = N1 \times N2 \times N4$$

where:

$$N4 = V_{TC}/V_{WT}$$

$V_{TC}$  = volume of concentrated treatment chemical contacted or generated by the device during a period of time equivalent to the laboratory test

$V_{WT}$  = volume of raw water treated with the concentrated chemical when dosed at the prescribed feed rate during a period of time equivalent to the laboratory test

#### B.8.5.1 Normalization of Cu/Ag electrode contaminants

The following normalization equation shall be used to estimate the normalized concentration of a contaminant in finished drinking water (mg/L) based on the concentration of the contaminant in the electrode (mg/kg).

NOTE - This normalization uses a worse-case approach by assuming that all contaminants in the electrode are released to the treated drinking water and remain in solution. It also assumes that the contaminant is liberated from the electrode as the copper is being released and therefore proportionate to the electrodes copper content and dosage rate to water.

$$\text{Normalized concentration (mg/L)} = \frac{\text{Contaminant content of electrode (mg/kg)}}{\text{Copper content of electrode (mg/kg)}} \times \text{Copper maximum dose level of generator (mg/L)}$$

Example:

- Manufacturer's recommended maximum dose level for copper = 0.80 mg/L
- Analysis of 2 gram coring = 1300 mg copper, 600 mg silver, 0.040 mg arsenic, .....
- Copper content = 1300 mg/0.00200 kg = 650000 mg/kg

Tracking number 61i129r1  
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Revision to NSF/ANSI 61 – 2014a  
Issue 129 Revision 1 (October 2015)

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- Arsenic content =  $0.040 \text{ mg} / 0.00200 \text{ kg} = 20 \text{ mg/kg}$

- Arsenic contribution to water =  $0.000020 \text{ mg/L}$

$$0.000020 = (20 / 650,000) \times 0.80$$

**BSR/UL 489B, Standard Safety for Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures For Use With Photovoltaic (PV) Systems**

5.2 PHOTOVOLTAIC (PV) MOLDED-CASE CIRCUIT BREAKER (PV circuit breaker) - A DC molded-case circuit breaker intended to operate in a photovoltaic (PV) system to provide overcurrent protection and disconnecting means, hereafter referred to as PV circuit breaker.

**Table 8.1**

*50°C ambient corrected conductor size 75° Conductor size corrected to 50°C ambient temperature*

Terminal current <sup>a</sup> , A	Copper conductors <sup>b,c</sup>		Aluminum conductors <sup>b,c</sup>	
	Number of conductors	AWG or kcmil	Number of conductors	AWG or kcmil
15 or less	1	14	1	12
20	1	10	1	10
25	1	10	1	8
30	1	8	1	8
40	1	6	1	4
50	1	4	1	3
60	1	4		2
70	1	3	1	1
80	1	2	1	1/0
90	1	1	1	1/0
100	1	1/0	1	2/0
110	1	1/0	1	3/0
125	1	2/0	1	4/0
150	1	3/0	1	250
175	1	250	1	350
200	1	300	1	400
200	2	1/0	2	2/0
225		350	1	500
225	2	1/0	2	3/0
250	1	400	1	600
250	2	2/0	2	4/0
275	1	500	1	700
300	2	3/0	2	250
325	2	4/0	2	300
350	2	250	2	350
350	3	2/0	4	1/0
400	2	300	2	400
450	2	350	2	500
450	3	3/0	3	250

500	2	400	2	600
500	3	250	3	300
550	2	500	3	350
600	3	300	3	400
700	3	400	3	500
800	3	500	4	400
800	4	300	5	300
1000	4	400	4	600
1200	5	400	6	400
1200	6	300	8	250
1200	4	600	5	600
1400	5	500	6	500
1400	6	400	9	250
1600	6	500	6	700
1600	7	400	8	400
2000	6	500	10	400
2000	8	400	8	600
2500	9	500	10	600

<sup>a</sup> For terminal current other than indicated, the next higher rating is to be used - for example, if rated 35 A, enter at 40 A.

<sup>b</sup> Table is based on 75°C wire ampacities.

<sup>c</sup> Based on 50°C correction factor in Ref. No. 5 of Annex B.

9.7 Notwithstanding 9.5, for a circuit breaker constructed such that the contact(s) and arc suppression mechanism is symmetrical in design such that the direction of the current and resultant opposing magnetic field is not a factor in the behavior of the arc, testing in both the forward and reverse direction is not required.

9.13 A PV circuit breaker shall be wired in accordance with 9.14 for the Interrupting Tests if the PV circuit breaker complies with all of the following:

- a) — Is a multi-pole type;
- b) — Is marked for 2 or more poles to be wired in series;
- c) — Is marked for use in a grounded system; and
- d) — Requires a direct connection to both the grounded and ungrounded circuit conductors.

9.14 The circuit breaker shall be wired to both the grounded and ungrounded circuit conductor of the test station with the fewest number of poles intended to be connected in series in accordance with the circuit breaker instructions. The normal load terminal(s)/pole(s) intended to be connected to the grounded circuit

~~conductor shall not be used, and instead the load side of the positive terminal shall be connected directly to the grounded terminal of the test station.~~

17.11 A PV circuit breaker shall be marked "line" and "load" as appropriate unless evaluated in accordance with ~~9.4~~ 9.5. When required to be marked "line" and "load", the wording may be replaced with "+", "positive", or "POS", and "-", "negative", or "NEG" as appropriate. Location Category B.

17.14 A PV circuit breaker shall be marked for either a grounded or ungrounded system, unless rated for both systems, as intended by the manufacturer. Location Category C.

17.5 A multipole PV circuit breaker shall be marked to indicate the proper configuration of connections of the terminals as appropriate. See 9.5 - ~~9.7~~ 9.6. Location Category C.

## *Annex B (Normative) Referenced Standards*

### *B1 Referenced Standards*

When reference is made to other organization's Standards, 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.

REFERENCED STANDARDS		
Ref. No.	Canada	United States
1	CSA C22.1-15, Canadian Electrical Code (CEC), Part I	Article 690 of ANSI/NFPA 70, National Electrical Code (NEC)
2	CSA C22.2 No. 5-13, Standard for Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures	<a href="#">UL 489</a> Standard for Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures
3	CAN/CSA C22.2 No. 0-10, General requirements - Canadian Electrical Code Part II	No equivalent
4	CAN/CSA - C22.2 No. 65 - 03, Wire Connectors	<a href="#">UL 486A-486B</a> Standard for Wire Connectors
5	CSA C22.1-15, Canadian Electrical Code (CEC), Part 1	Table 310.15(2)(a) of ANSI/NFPA 70, National Electrical Code (NEC)



**BSR/UL 153, Standard for Safety for Portable Electric Luminaires****1. Revise requirements for power supply cord length for chain-suspended portable luminaires****Table 31.1****Flexible cord types<sup>b</sup>**

<b><u>Extra hard usage</u></b>	<b><u>Hard usage</u></b>	<b><u>Not hard usage</u></b>	
S	SJ	SP-2	SV <sup>a</sup>
SE	SJE	SPE-2	SVE <sup>a</sup>
SEO	SJEO	SPT-2	SVEO
SO	SJO	NISP-2	SVO <sup>a</sup>
SOO	SJOO	NISPE-2	SVOO <sup>a</sup>
ST	SJT	NISPT-2	SVT <sup>a</sup>
STO	SJTO		SVTO <sup>a</sup>
STOO	SJTOO		SVTOO <sup>a</sup>
<sup>a</sup> Individual conductors shall be provided with supplementary insulation or spaced away from metal.			
<sup>b</sup> Flexible cords with a "W" suffix are permitted.			

75.1.1 A swag type unit not intended to be installed directly beneath a ceiling-mounted receptacle and with the power supply cord routed through a chain shall be provided with not more than 15 feet (4.6 m) and not less than 9 feet (2.7 m) of metal chain.

*Exception: Less chain is able to be provided when the unit is marked "For use in recreational vehicles only" in accordance with 206.1.*

**Table 75.1**  
**Cord loading**

Cord type	Maximum total weight of cord load	
	Pounds	(kg)
SP-2, SPE-2, SPT-2, <u>NISP-2, NISPE-2, NISPT-2</u> , SV, SVE, SVEO, SVO, SVOO, SVT, SVTO, SVTOO	2-1/2	(1.1)
SJ, SJE, SJO, SJEO, SJOO, SJT, SJTO, SJTOO, S, SE, SOO, SO, SEO, ST, STOO, STO	10	(4.5)

76.2.1 The power supply cord for a swag type unit not intended to be installed directly beneath a ceiling-mounted receptacle shall:

- a) Be at least 15 feet (4.6 m) long from the point where the cord emerges from the body of the lamp to the face of the attachment plug or connector,
- b) If routed through a chain, and extend not less than 1 foot (0.3 m) nor more than 6 feet (1.8 m) beyond the end of the chain; and
- ~~b)~~ c) Have insulation rated for no less than 105°C (221°F).

*Exception No. 1: The cord is able to be less than 15 feet long when the unit is marked "For use in recreational vehicles only" in accordance with 206.1.*

*Exception No. 2: The cord of a fluorescent, HID, or LED unit is able to be less than 15 feet (4.6 m) long when:*

- ~~a) The cord is a hard usage (or better) type,~~
- ~~b) The cord is provided with a grounding-type attachment plug, and~~
- ~~c) The unit is intended to be installed directly beneath a ceiling-mounted receptacle as indicated in the manufacturer's installation instructions.~~

76.2.1.1 The cord of a fluorescent, HID, or LED swag-type unit intended to be installed directly beneath a ceiling-mounted receptacle (commonly referred to as a "shop light") shall be provided with a grounding-type attachment plug. The cord shall be protected from mechanical damage by one or more of the following means:

- a) The cord is a hard usage (or better) type, as identified in Table 31.1, or
- b) The cord is routed through a chain, or

c) The cord exits the enclosure through the top surface, between the two supporting chains, or

d) The cord includes a protective sleeve that covers at least that length of the cord where it will not be located between the two supporting chains when the shop light is installed per the manufacturer's instructions. The sleeving shall be secured in place and be of a material able to provide supplemental mechanical protection for the cord (for example, woven fiberglass, tubing, or similar). Providing cable ties with instructions to secure the cord to one of the supporting chains is an acceptable means of protecting that portion of the cord secured to the chain, without additional sleeving.

78.1 ~~A cord and chain suspended swag-type unit not provided with the lengths of cord and chain required by 75.1.1 and 76.2.1 shall be provided with markings as specified in Cord and Chain Suspended Units, Section 206.~~

206.1 ~~A portable luminaire swag-type unit not provided with the lengths of cord and chain in accordance with Exception No. 1 to 75.1.1 and 76.2.1 and the exception to 75.1.1 shall be marked in Form A-1 "For use in recreational vehicles only."~~

~~Exception: The marking is not required when the cord and chain are shortened in accordance with Exception No. 1 of 31.3.~~

222.1 Installation instructions shall be provided with each portable luminaire. Clear instructions for the use of the mounting hardware, a caution that installation not be made on a radiant-heating ceiling, and, for swag-type units, a caution that the hooks are to engage the chain only and not the electric cord shall be included. ~~Installation instructions for a swag-type unit with a power supply cord less than 15 feet in length, in accordance with Exception No. 2 of 76.2.1, shall indicate that the unit is intended to be installed directly beneath a ceiling-mounted receptacle.~~

222.2 Installation instructions for a swag-type unit with a power supply cord less than 15 feet (4.6 m) in length, in accordance with 76.2.1.1, shall indicate that the unit is intended to be installed directly beneath a ceiling-mounted receptacle, and that excess cord should be kept out of the work space, such as by securing it to one of the supporting chains with a cable tie.

222.3 If cable ties are required to secure the power supply cord to one of the chain supports, for a swag-type unit with a power supply cord less than 15 feet (4.6 m) in length in accordance with 76.2.1.1(d), the installation instructions shall provide guidance for the use of the cable ties.

## **BSR/UL 486C, Standard for Safety for Splicing Wire Connectors**

### **1. Delete restriction on compact conductor size allowance**

#### **PROPOSAL**

~~6.1.2 A connector that is suitable for compact stranded conductors shall also accept all strands of a Class B concentric stranded conductor of the same size.~~

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## **BSR/UL 486A-486B, Standard for Safety for Wire Connectors**

### **1. Delete restriction on compact conductor size allowance**

#### **PROPOSAL**

~~6.1.2 A connector that is suitable for compact stranded conductors shall also accept all strands of a Class B concentric stranded conductor of the same size.~~

9.1.5.3 Connectors additionally rated for 2 AWG (33.6 mm<sup>2</sup>) and larger compact-stranded copper conductors shall be tested with compact-stranded Class B copper conductors. See also ~~6.1.2 and~~ 10.39.

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**BSR/UL 817, Standard for Cord Sets and Power-Supply Cords****1. Addition of requirements to allow the use of SPT-2W and SPT-2-RW for power-supply cords****PROPOSAL**

10.1.1.6 In addition to the cord types specified in Table 10.1, ~~SPT-4W and SPT-2W and SPT-2-RW~~ may also be employed in ~~outdoor-use~~ power-supply cords as noted in the Standard for Electric Fans, UL 507.

**4. Addition of requirements for rotating plugs****PROPOSAL**

SD11.1 Six samples of a 3-conductor rotary plug molded on 4 feet of flexible cord are to be connected to the load at rated voltage and current. While energized, each sample shall be subjected to ~~2500~~ 10,000 cycles. ~~One cycle is defined as rotating 360 degrees one way and back to the original position. The cycling rate shall be 10 cycles/minute~~ The direction of rotation is to be alternated between a clockwise and a counter clockwise direction for each rotation. Each cycle shall consist of a full range rotation. Each complete rotation is considered a cycle regardless of direction.

SD11.4 At the conclusion of the ~~2,500~~ 10,000 cycles, continuity between each blade, including ground pin, and its respective conductor shall be checked using a suitable indicating device (such as a ohmmeter, battery-and-buzzer combination, or similar device). Each rotating plug shall be slowly rotated throughout it's range as intended to confirm that continuity is maintained in all possible positions.

## **BSR/UL 62841-1, Standard for Safety for Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools And Lawn And Garden Machinery – Safety – Part 1: General Requirements**

8.2 Tools shall be marked with a safety warning in one of the following versions:

- "WARNING – To reduce the risk of injury, user must read instruction manual", or
- symbol M002 of ISO 7010, or
- the appropriate symbol stated in the relevant part of IEC 62841-2, IEC 62841-3 or IEC 62841-4.

If used, the word "WARNING" shall be in capital letters not less than 2,4 mm high and shall not be separated from either the cautionary statement or the symbol ISO 7000-0434A or ISO 7000-0434B (2004-01).

If used, the statement shall be verbatim except the term "operator's manual" or "user guide" may be used for the term "instruction manual".

If additional symbols are used, they shall be in accordance with ISO 7010 or be designed in accordance with ISO 3864-2 or ISO 3864-3.

Cautionary statements having the same signal word such as "WARNING" may be combined into one paragraph under one signal word. The order of statements shall be markings required by IEC 62841-1, markings required by the relevant part of IEC 62841-2, IEC 62841-3 or IEC 62841-4 and then any optional markings.

Compliance is checked by inspection and by measurement.

### **8.2DV D1 Modification: Add the following to Clause 8.2:**

**For tools sold in Canada, instruction manuals and safety instructions shall be written in the official language(s) of Canada. For tools sold in the United States of America, instruction manuals and safety instructions shall be written in English.**