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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: November 6, 2011

### NSF (NSF International)

#### Revisions

- \* BSR/NSF 49-201x (i43), Biosafety Cabinetry: Design, Construction, Performance and Field Certification (revision of ANSI/NSF 49-2010a)  
Issue 43: Provides language in the body of ANSI/NSF 49 (5.2, Canopy Connect exhaust, and 5.23.4, Type A1 or A2 exhaust alarm) to allow canopy testing for class II, type A1 & A2 cabinets. This same language is already part of Annex F (F.7.3.3).  
[Click here to see these changes in full, or look at the end of "Standards Action."](#)  
Send comments (with copy to BSR) to: Joan Hoffman, (734) 769-5159, [jhoffman@nsf.org](mailto:jhoffman@nsf.org)
- \* BSR/NSF 140-201x (i17), Sustainability Assessment for Carpet (revision of ANSI/NSF 140-2010)  
Issue 17 - Changes the prerequisites in the Section 4 list and in Section 10.  
[Click here to see these changes in full, or look at the end of "Standards Action."](#)  
Send comments (with copy to BSR) to: Mindy Costello, (734) 827-6819, [mcostello@nsf.org](mailto:mcostello@nsf.org)
- \* BSR/NSF 140-201x (i19), Sustainability Assessment for Carpet (revision of ANSI/NSF 140-2010)  
Issue 19 - Updates Section 8 for EPP, bio-based and recycled content.  
[Click here to see these changes in full, or look at the end of "Standards Action."](#)  
Send comments (with copy to BSR) to: Mindy Costello, (734) 827-6819, [mcostello@nsf.org](mailto:mcostello@nsf.org)
- \* BSR/NSF 140-201x (i20), Sustainability Assessment for Carpet (revision of ANSI/NSF 140-2010)  
Issue 20 - Clarifies the boundaries throughout the standard.  
[Click here to see these changes in full, or look at the end of "Standards Action."](#)  
Send comments (with copy to BSR) to: Mindy Costello, (734) 827-6819, [mcostello@nsf.org](mailto:mcostello@nsf.org)
- \* BSR/NSF 140-201x (i21), Sustainability Assessment for Carpet (revision of ANSI/NSF 140-2010)  
Issue 21 - Adds language in several sections to clarify intent.  
[Click here to see these changes in full, or look at the end of "Standards Action."](#)  
Send comments (with copy to BSR) to: Mindy Costello, (734) 827-6819, [mcostello@nsf.org](mailto:mcostello@nsf.org)

### UL (Underwriters Laboratories, Inc.)

#### Revisions

- \* BSR/UL 94-201x, Standard for Safety Tests for Flammability of Plastic Materials for Parts in Devices and Appliances (revision of ANSI/UL 94-2010)  
The following changes in requirements to UL 94 are being proposed:  
(1) Relative humidity for laboratory atmosphere.  
[Click here to see these changes in full, or look at the end of "Standards Action."](#)  
Send comments (with copy to BSR) to: Raymond Suga, (631) 546-2593, [Raymond.M.Suga@us.ul.com](mailto:Raymond.M.Suga@us.ul.com)

BSR/UL 365-201x, Standard for Safety for Police Station Connected Burglar Alarm Units and Systems (revision of ANSI/UL 365-2010)

Revises the minimum spacing requirements.

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

Send comments (with copy to BSR) to: Megan Sepper, (847) 664-3411, [Megan.M.Sepper@us.ul.com](mailto:Megan.M.Sepper@us.ul.com)

BSR/UL 609-201x, Standard for Safety for Local Burglar Alarm Units and Systems (revision of ANSI/UL 609-2010)

Revises the minimum spacing requirements.

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

Send comments (with copy to BSR) to: Megan Sepper, (847) 664-3411, [Megan.M.Sepper@us.ul.com](mailto:Megan.M.Sepper@us.ul.com)

BSR/UL 763-201x, Standard for Motor-Operated Commercial Food Preparing Machines (revision of ANSI/UL 763-2007)

Provides requirements for a blender cover opening that is not located in the center of the cover.

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

Send comments (with copy to BSR) to: Amy Walker, (847) 664-2023, [Amy.K.Walker@us.ul.com](mailto:Amy.K.Walker@us.ul.com)

BSR/UL 900-201x, Standard for Safety for Air Filter Units (Proposal dated 10-07-11) (revision of ANSI/UL 900-2009)

Provides clarification of test duct air flow.

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

Send comments (with copy to BSR) to: Vickie Hinton, (919) 549-1851, [vickie.t.hinton@us.ul.com](mailto:vickie.t.hinton@us.ul.com)

BSR/UL 977-201x, Standard for Safety for Fused Power-Circuit Devices (Proposal dated 10-07-11) (revision of ANSI/UL 977-2009)

Includes revisions to add non-fusible tie switches to applicable requirements.

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

Send comments (with copy to BSR) to: Vickie Hinton, (919) 549-1851, [vickie.t.hinton@us.ul.com](mailto:vickie.t.hinton@us.ul.com)

BSR/UL 985-201x, Standard for Safety for Household Fire Warning System Units (revision of ANSI/UL 985-2003 (R2008))

Revises the minimum spacing requirements.

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

Send comments (with copy to BSR) to: Megan Sepper, (847) 664-3411, [Megan.M.Sepper@us.ul.com](mailto:Megan.M.Sepper@us.ul.com)

BSR/UL 1023-201x, Standard for Safety for Household Burglar-Alarm System Units (revision of ANSI/UL 1023-2009)

Revises the minimum spacing requirements.

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

Send comments (with copy to BSR) to: Megan Sepper, (847) 664-3411, [Megan.M.Sepper@us.ul.com](mailto:Megan.M.Sepper@us.ul.com)

BSR/UL 1076-201x, Standard for Safety for Proprietary Burglar Alarm Units and Systems (revision of ANSI/UL 1076-2010)

Revises the minimum spacing requirements.

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

Send comments (with copy to BSR) to: Megan Sepper, (847) 664-3411, [Megan.M.Sepper@us.ul.com](mailto:Megan.M.Sepper@us.ul.com)

BSR/UL 1610-201x, Standard for Safety for Central-Station Burglar-Alarm Units (revision of ANSI/UL 1610-2010)

Revises the minimum spacing requirements.

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

Send comments (with copy to BSR) to: Megan Sepper, (847) 664-3411, Megan.M.Sepper@us.ul.com

BSR/UL 1635-201x, Standard for Safety for Digital Alarm Communicator System Units (revision of ANSI/UL 1635-2004 (R2010))

Revises the minimum spacing requirements.

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

Send comments (with copy to BSR) to: Megan Sepper, (847) 664-3411, Megan.M.Sepper@us.ul.com

BSR/UL 2238-201x, Cable Assemblies and Fittings for Industrial Control and Signal Distribution (revision of ANSI/UL 2238-2011)

Identifies the wire leads.

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

Send comments (with copy to BSR) to: Megan VanHeirselee, (847) 664-2881, Megan.M.VanHeirselee@us.ul.com

## Comment Deadline: November 21, 2011

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

#### New National Adoptions

BSR/AAMI/ISO 11135-201x, Sterilization of health care products - Ethylene oxide - Requirements for the development, validation and routine control of a sterilization process for medical devices (identical national adoption and revision of ANSI/AAMI/ISO 11135-1-2007)

Specifies requirements for the development, validation, and routine control of an ethylene oxide (EO) sterilization process for medical devices in both the industrial and health care facility settings, and acknowledges the similarities and differences between the two applications.

Single copy price: \$20.00 (AAMI Members)/\$25.00 (nonmembers)

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

Order from: AAMI, 877-249-8226

Send comments (with copy to BSR) to: Colleen Elliott, (703) 253-8261, [celliot@aami.org](mailto:celliot@aami.org)

### ACMA (American Composites Manufacturers Association)

#### New Standards

BSR/PIC-Standard Practice-201x, PIC Code of Standard Practice Industry Guideline (new standard)

The Pultrusion Industry Council initiated the development of this Code of Standard Practice to provide recommendations for construction contract documents, as well as procedures and practices for the fabrication and installation of pultruded FRP structures that is followed by the pultrusion industry manufacturers.

Single copy price: \$75.00

Obtain an electronic copy from: [jbusel@acmanet.org](mailto:jbusel@acmanet.org)

Order from: John Busel, (914) 961-8007, [jbusel@acmanet.org](mailto:jbusel@acmanet.org)

Send comments (with copy to BSR) to: Larry Cox, (740) 928-3286, [Lcox1225@gmail.com](mailto:Lcox1225@gmail.com)

### ADA (American Dental Association)

#### Reaffirmations

BSR/ADA Specification No. 1001-2002 (R201x), Guidelines for the Design of Educational Software (reaffirmation of ANSI/ADA 1001-2002 (R2006))

Promotes quality in educational software. Developers can use them to ensure that their products are of high instructional quality and end-users can compare educational software programs with the Guidelines to recognize quality products. The Guidelines are not domain-specific; they are applicable to any domain, not just the dental or medical one.

Single copy price: \$68.00

Obtain an electronic copy from: [wardm@ada.org](mailto:wardm@ada.org)

Order from: Marilyn Ward, (312) 440-2506, [wardm@ada.org](mailto:wardm@ada.org)

Send comments (with copy to BSR) to: Paul Bralower, (312) 587-4129, [bralowerp@ada.org](mailto:bralowerp@ada.org)

### ALI (ASC A14) (American Ladder Institute)

#### Revisions

BSR A14.7-201x, Mobile Ladder Stands & Mobile Ladder Stand Platforms (revision of ANSI A14.7-2006)

Establishes the performance specifications for design and manufacture of a variety of mobile ladder stands/mobile ladder stand platforms. This standard sets forth requirements that must be considered and built into the devices to provide for proper operation.

Single copy price: \$50.00

Obtain an electronic copy from: [jrapp@smithbucklin.com](mailto:jrapp@smithbucklin.com)

Order from: Janet Rapp, (312) 673-5769, [jrapp@smithbucklin.com](mailto:jrapp@smithbucklin.com)

Send comments (with copy to BSR) to: Same

### ARMA (Association of Records Managers and Administrators)

#### New Standards

BSR/ARMA 19-201x, Policy Design for Managing Electronic Messages (new standard)

Sets the requirements for managing electronic messages as records and extends to text-based electronic messages or communications including E-mail, instant messaging (IM), and text messaging (SMS). This publication will not include: video messaging; voicemail/audio-based messaging applications; and other electronic messaging platforms within the context of social media.

Single copy price: N/A

Obtain an electronic copy from: <http://www.arma.org/standards/development/index.cfm>

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

Send comments (with copy to BSR) to: Same

**ASA (ASC S12) (Acoustical Society of America)****Reaffirmations**

BSR/ASA S12.5-2006/ISO 6926-1999 (R201x), Acoustics - Requirements for the Performance and Calibration of Reference Sound Sources Used for the Determination of Sound Power Levels (reaffirmation and redesignation of ANSI S12.5-2006/ISO 6926:1999)

This ANS is the identical national adoption of ISO 6926: 1999. It defines the important physical and performance characteristics of reference sound sources and specifies procedures for their calibration, primarily to determine the sound power level of other sound sources. Reference sound sources are used extensively in "comparison methods" for determining the noise emissions of physically stationary sound sources.

Single copy price: \$80.00

Obtain an electronic copy from: [asastds@aip.org](mailto:asastds@aip.org)

Order from: Susan Blaeser, (631) 390-0215, [sblaeser@aip.org](mailto:sblaeser@aip.org); [asastds@aip.org](mailto:asastds@aip.org)

Send comments (with copy to BSR) to: Same

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

BSR/ASHRAE Standard 185.1P-201x, Method of Testing UVC Lights for Use in Air Handling Units or Air Ducts to Inactivate Airborne Microorganisms (new standard)

Provides a method of test to determine inactivation rates of airborne microorganisms in air handling units and air ducts. Its results are to be used to directly compare UVGI equipment on a standardized basis irrespective of their application. Results are also used to give the design engineer an easy-to-use basis for specifying UV devices or estimating the relative performance of UVGI for a given application. It is entirely possible that an industry organization may use this test method as the basis for an application standard in which they might require testing at conditions different than those required in this standard.

Single copy price: \$35.00

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

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

Send comments (with copy to BSR) to: Free download at <http://www.ashrae.org/technology/page/331>

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

BSR/ASME B18.12-200x, Glossary of Terms for Mechanical Fasteners (revision of ANSI/ASME B18.12-2001 (R2006))

Covers nomenclature and terminology for mechanical fasteners (bolts, studs, screws, nuts, washers, rivets, pins, sems, retaining rings, and similar fasteners).

Single copy price: Free

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

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

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

**ASTM (ASTM International)**

The URL to search for scopes of ASTM standards is: <http://www.astm.org/dsearch.htm>

For reaffirmations and withdrawals, order from: Customer Service, ANSI For new standards and revisions, order from: Karen Wilson, (610) 832-9743, [kwilson@astm.org](mailto:kwilson@astm.org);

For all ASTM standards, send comments (with copy to BSR) to: Karen Wilson, (610) 832-9743, [kwilson@astm.org](mailto:kwilson@astm.org)

**New Standards**

BSR/ASTM F486-200x, Practice for Preparation of Use and Care Booklets for Vacuum Cleaners (new standard)

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

Single copy price: \$34.00

BSR/ASTM F558-201x, Test Method for Measuring Air Performance Characteristics of Vacuum Cleaners (new standard)

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

Single copy price: \$45.00

BSR/ASTM F655-201x, Specification for Test Carpets and Pads for Vacuum Cleaner Testing (new standard)

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

Single copy price: \$34.00

BSR/ASTM F820-201x, Test Method for Measuring Air Performance Characteristics of Central Vacuum Cleaning Systems (new standard)

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

Single copy price: \$45.00

BSR/ASTM F884-200x, Test Method for Motor Life Evaluation of a Built-In (Central Vacuum) Vacuum Cleaner (new standard)

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

Single copy price: \$34.00

BSR/ASTM F888-201x, Test Method for Measuring Maximum Function Volume of the Primary Dirt Receptacle in a Vacuum Cleaner (new standard)

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

Single copy price: \$39.00

BSR/ASTM F922-201x, Test Method for Motor Life Evaluation of an Electric Motorized Nozzle (new standard)

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

Single copy price: \$39.00

BSR/ASTM F1601-201x, Test Method for Motor Life Evaluation of an Electric Motorized Nozzle for Central Vacuum Cleaning Systems (new standard)

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

Single copy price: \$39.00

BSR/ASTM F1692-201x, Test Method for Life Evaluation of a Turbine-Powered Nozzle for Household Central Vacuum Cleaning Systems (new standard)

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

Single copy price: \$39.00

BSR/ASTM F2105-201x, Test Method for Measuring Air Performance Characteristics of Vacuum Cleaner Motor/Fan Systems (new standard)

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

Single copy price: \$45.00

BSR/ASTM WK22026-201x, Specification for Reinforced Polyethylene Composite Pipe for the Transport of Oil and Gas and Hazardous Liquids (new standard)

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

Single copy price: Free

BSR/ASTM WK23226-201x, Specification for Multilayer Polyethylene-Polyamide (PE-PA), Polyamide-Polyethylene (PA-PE) and Polyamide-Polyethylene-Polyamide (PA-PE-PA) Pipe for Pressure Piping Applications (new standard)

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

Single copy price: Free

BSR/ASTM WK25593-201x, Practice for Performance Testing and Assessment (new standard)

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

Single copy price: Free

BSR/ASTM WK28626-201x, Specification for Central Vacuum Hose Inlet Valve Socket Dimensions (new standard)

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

Single copy price: Free

BSR/ASTM WK31876-201x, Practice for Specimens and Testing Conditions for Testing Polyethylene (PE) Pipe Butt Fusions Using Tensile and Hydrostatic Test Methods (new standard)

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

Single copy price: Free

BSR/ASTM WK32201-201x, Specification for Crosslinked Polyethylene (PEX) Low-Pressure Tubing and Fittings for Radiant Heating Systems (new standard)

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

Single copy price: Free

### **Revisions**

BSR/ASTM D1785-201x, Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120 (revision of ANSI/ASTM D1785-2006)

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

Single copy price: \$45.00

BSR/ASTM D2241-201x, Specification for Poly(Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series) (revision of ANSI/ASTM D2241-2009)

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

Single copy price: \$39.00

BSR/ASTM D2513-201x, Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings (revision of ANSI/ASTM D2513-2011)

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

Single copy price: \$45.00

BSR/ASTM D2774-201x, Practice for Underground Installation of Thermoplastic Pressure Piping (revision of ANSI/ASTM D2774-2008)

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

Single copy price: \$39.00

BSR/ASTM D3139-201x, Specification for Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals (revision of ANSI/ASTM D3139-1996A)

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

Single copy price: \$34.00

BSR/ASTM D3212-201x, Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals (revision of ANSI/ASTM D3212-2007)

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

Single copy price: \$34.00

BSR/ASTM E136-201x, Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 C (revision of ANSI/ASTM E136-2011)

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

Single copy price: \$45.00

BSR/ASTM E329-201x, Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection (revision of ANSI/ASTM E329-2011)

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

Single copy price: \$39.00

BSR/ASTM E691-201x, Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method (revision of ANSI/ASTM E691-2009)

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

Single copy price: \$55.00

BSR/ASTM F430-201x, Test Methods for Paper Used for Vacuum Cleaner Filter Bags (revision of ANSI/ASTM F430-75 (R1999))

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

Single copy price: \$34.00

BSR/ASTM F513-201x, Safety Specification for Eye and Face Protective Equipment for Hockey Players (revision of ANSI/ASTM F513-2000 (R2007))

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

Single copy price: \$45.00

BSR/ASTM F1178-201x, Specification for Performance of Enameling System, Baking, Metal Joiner Work and Furniture (revision of ANSI/ASTM F1178-2001 (R2007))

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

Single copy price: \$39.00

BSR/ASTM F1216-201x, Practice for Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube (revision of ANSI/ASTM F1216-2009)

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

Single copy price: \$39.00

BSR/ASTM F1334-201x, Test Method for Determining A-Weighted Sound Power Level of Vacuum Cleaners (revision of ANSI/ASTM F1334-2008)

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

Single copy price: \$39.00

- BSR/ASTM F1436-201x, Guide for Center Serving Diameter Dimensions for Archery Bow Strings (revision of ANSI/ASTM F1436-2007)  
[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)  
 Single copy price: \$34.00
- BSR/ASTM F1483-201x, Specification for Oriented Poly(Vinyl Chloride), PVC, Pressure Pipe (revision of ANSI/ASTM F1483-2005)  
[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)  
 Single copy price: \$39.00
- BSR/ASTM F1544-201x, Specification for Determining the Rating Velocities of an Archery Bow (revision of ANSI/ASTM F1544-2009)  
[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)  
 Single copy price: \$34.00
- BSR/ASTM F1587-201x, Specification for Head and Face Protective Equipment for Ice Hockey Goaltenders (revision of ANSI/ASTM F1587-1999 (R2005))  
[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)  
 Single copy price: \$39.00
- BSR/ASTM F1743-201x, Practice for Rehabilitation of Existing Pipelines and Conduits by Pulled-In-Place Installation of Cured-In-Place Thermosetting Resin Pipe (CIPP) (revision of ANSI/ASTM F1743-2008a)  
[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)  
 Single copy price: \$39.00
- BSR/ASTM F1760-201x, Specification for Coextruded Poly(Vinyl Chloride) (PVC) Non-Pressure Plastic Pipe Having Reprocessed-Recycled Content (revision of ANSI/ASTM F1760-2001 (R2011))  
[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)  
 Single copy price: \$39.00
- BSR/ASTM F1777-201x, Practice for Paintball Field Operation (revision of ANSI/ASTM F1777-2011)  
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 Single copy price: \$34.00
- BSR/ASTM F1881-201x, Test Method for Measuring Baseball Bat Performance Factor (revision of ANSI/ASTM F1881-2009)  
[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)  
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- BSR/ASTM F1890-201x, Test Method for Measuring Softball Bat Performance Factor (revision of ANSI/ASTM F1890-2009)  
[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)  
 Single copy price: \$34.00
- BSR/ASTM F2019-201x, Practice for Rehabilitation of Existing Pipelines and Conduits by the Pulled-In-Place Installation of Glass Reinforced Plastic (GRP) Cured-In-Place Thermosetting Resin Pipe (CIPP) (revision of ANSI/ASTM F2019-2003 (R2009))  
[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)  
 Single copy price: \$39.00
- BSR/ASTM F2106-201x, Test Methods for Evaluating Design and Performance Characteristics of Motorized Treadmills (revision of ANSI/ASTM F2106-2003 (R2010))  
[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)  
 Single copy price: \$39.00
- BSR/ASTM F2115-201x, Specification for Motorized Treadmills (revision of ANSI/ASTM F2115-2005)  
[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)  
 Single copy price: \$39.00
- BSR/ASTM F2219-201x, Test Methods for Measuring High-Speed Bat Performance (revision of ANSI/ASTM F2219-2010)  
[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)  
 Single copy price: \$39.00
- BSR/ASTM F2225-201x, Safety Specification for Consumer Trampoline Enclosures (revision of ANSI/ASTM F2225-2009b)  
[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)  
 Single copy price: \$39.00
- BSR/ASTM F2272-201x, Specification for Paintball Markers (revision of ANSI/ASTM F2272-2011)  
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- BSR/ASTM F2283-201x, Specification for Shipboard Oil Pollution Abatement System (revision of ANSI/ASTM F2283-2004 (R2009))  
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 Single copy price: \$39.00
- BSR/ASTM F2331-201x, Test Method for Determining Chemical Compatibility of Thread Sealants with Thermoplastic Threaded Pipe and Fittings Materials (revision of ANSI/ASTM F2331-2004)  
[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)  
 Single copy price: \$34.00
- BSR/ASTM F2435-201x, Specification for Steel Reinforced Polyethylene (PE) Corrugated Pipe (revision of ANSI/ASTM F2435-2006)  
[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)  
 Single copy price: \$39.00
- BSR/ASTM F2479-201x, Guide for Specification, Purchase, Installation and Maintenance of Poured-In-Place Playground Surfacing (revision of ANSI/ASTM F2479-2010)  
[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)  
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- BSR/ASTM F2544-201x, Test Method for Determining A-Weighted Sound Power Level of Central Vacuum Power Units (revision of ANSI/ASTM F2544-2006)  
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 Single copy price: \$39.00
- BSR/ASTM F2569-201x, Test Method for Evaluating the Force Reduction Properties of Surfaces for Athletic Use (revision of ANSI/ASTM F2569-2007)  
[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)  
 Single copy price: \$34.00
- BSR/ASTM F2609-201x, Test Method for Litter-Cleaning Effectiveness of Vacuum Cleaners (revision of ANSI/ASTM F2609-2006)  
[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)  
 Single copy price: \$39.00
- BSR/ASTM F2620-201x, Practice for Heat Fusion Joining of Polyethylene Pipe and Fittings (revision of ANSI/ASTM F2620-2009)  
[http://www.astm.org/ANSI\\_SA](http://www.astm.org/ANSI_SA)  
 Single copy price: \$45.00

BSR/ASTM F2736-201x, Specification for 6 to 30 in. (152 to 762 mm) Polypropylene (PP) Corrugated Single Wall Pipe and Double Wall Pipe (revision of ANSI/ASTM F2736-2010)

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

Single copy price: \$39.00

BSR/ASTM F2737-201x, Specification for Corrugated High Density Polyethylene (HDPE) Water Quality Units (revision of ANSI/ASTM F2737-2010a)

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

Single copy price: \$39.00

BSR/ASTM F2772-201x, Specification for Athletic Performance Properties of Indoor Sports Floor Systems (revision of ANSI/ASTM F2772-2009)

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Single copy price: \$34.00

BSR/ASTM F2842-201x, Specification for Reins Used in Thoroughbred and Quarter Horse Racing (revision of ANSI/ASTM F2842-2010)

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

Single copy price: \$34.00

BSR/ASTM F2856-201x, Practice for Transfilling and Safe Handling of Small Paintball Cylinders (revision of ANSI/ASTM F2856-2011)

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Single copy price: \$39.00

BSR/ASTM F2897-201x, Specification for Tracking and Traceability Encoding System of Natural Gas Distribution Components (Pipe, Tubing, Fittings, Valves, and Appurtenances) (revision of ANSI/ASTM F2897-2011)

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

Single copy price: \$45.00

### **Reaffirmations**

BSR/ASTM E2304-2003a (R201x), Practice for Use of a LiF Photo-Fluorescent Film Dosimetry System (reaffirmation of ANSI/ASTM E2304-2003a)

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

Single copy price: \$39.00

BSR/ASTM F494-1993 (R201x), Test Methods for Evaluating Primary Disposable Bag Integrity for Vacuum Cleaners (reaffirmation of ANSI/ASTM F494-1993 (R99))

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

Single copy price: \$39.00

BSR/ASTM F539-2002 (R201x), Practice for Fitting Athletic Footwear (reaffirmation of ANSI/ASTM F539-2002 (R2007))

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

Single copy price: \$39.00

BSR/ASTM F555-2006 (R201x), Test Method for Motor Life Evaluation of an Upright Vacuum Cleaner (reaffirmation of ANSI/ASTM F555-2006)

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

Single copy price: \$39.00

BSR/ASTM F718-2007 (R201x), Specification for Shipbuilders and Marine Paints and Coatings Product/Procedure Data Sheet (reaffirmation of ANSI/ASTM F718-2007)

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

Single copy price: \$39.00

BSR/ASTM F1038-1999 (R201x), Test Method for Motor Life Evaluation of a Canister, Hand-Held, Stick, and Utility Type Vacuum Cleaner without a Driven Agitator (reaffirmation of ANSI/ASTM F1038-1999 (R2006))

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

Single copy price: \$34.00

BSR/ASTM F1326-1996 (R201x), Test Method for Measuring Maximum Dry Volume of Utility Vacuum Cleaners (reaffirmation of ANSI/ASTM F1326-1996 (R2006))

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

Single copy price: \$39.00

BSR/ASTM F1370-1992 (R201x), Specification for Pressure-Reducing Valves for Water Systems, Shipboard (reaffirmation of ANSI/ASTM F1370-1992 (R2003))

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

Single copy price: \$39.00

BSR/ASTM F1410-1999 (R201x), Test Method for Measuring Maximum Functional Wet Volume of Utility Vacuum Cleaners (reaffirmation of ANSI/ASTM F1410-1999 (R2006))

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

Single copy price: \$34.00

BSR/ASTM F1455-1992 (R201x), Guide for Selection of Structural Details for Ship Construction (reaffirmation of ANSI/ASTM F1455-1992 (R2007))

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

Single copy price: \$45.00

BSR/ASTM F1720-2006 (R201x), Test Method for Measuring Thermal Insulation of Sleeping Bags Using a Heated Manikin (reaffirmation of ANSI/ASTM F1720-2006)

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

Single copy price: \$34.00

BSR/ASTM F1833-1997 (R201x), Test Method for Comparison of Rearfoot Motion Control Properties of Running Shoes (reaffirmation of ANSI/ASTM F1833-1997 (R2006))

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

Single copy price: \$39.00

BSR/ASTM F1900-1998 (R201x), Test Method for Water Resistance of Footwear Using a Walking Step Simulator (reaffirmation of ANSI/ASTM F1900-1998 (R2004))

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

Single copy price: \$39.00

BSR/ASTM F1985-1999 (R201x), Specification for Pneumatic-Operated, Globe-Style, Control Valves (reaffirmation of ANSI/ASTM F1985-1999 (R2005))

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

Single copy price: \$39.00

BSR/ASTM F2032-2006 (R201x), Specification for Helmets Used for BMX Cycling (reaffirmation of ANSI/ASTM F2032-2006)

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

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BSR/ASTM F2263-2007 (R201x), Test Method for Evaluating the Oxidative Resistance of Polyethylene (PE) Pipe to Chlorinated Water (reaffirmation of ANSI/ASTM F2263-2007)

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

Single copy price: \$39.00

BSR/ASTM F2333-2004 (R201x), Test Method for Traction Characteristics of the Athletic Shoe - Sports Surface Interface (reaffirmation of ANSI/ASTM F2333-2004)

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

Single copy price: \$39.00

BSR/ASTM F2400-2004 (R201x), Specification for Helmets Used in Pole Vaulting (reaffirmation of ANSI/ASTM F2400-2006)

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

Single copy price: \$34.00

BSR/ASTM F2416-2006 (R201x), Specification for Protective Headgear Used in Electric Personal Assistive Mobility Devices (reaffirmation of ANSI/ASTM F2416-2006)

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

Single copy price: \$34.00

BSR/ASTM F2439-2005 (R201x), Specification for Headgear Used in Soccer (reaffirmation of ANSI/ASTM F2439-2005)

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

Single copy price: \$39.00

BSR/ASTM F2657-2008 (R201x), Test Method for Outdoor Weathering Exposure of Crosslinked Polyethylene (PEX) Tubing (reaffirmation of ANSI/ASTM F2657-2008)

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

Single copy price: \$39.00

### **Withdrawals**

ANSI/ASTM E1301-1996 (R2003), Guide for Proficiency Testing by Interlaboratory Comparisons (withdrawal of ANSI/ASTM E1301-1996 (R2003))

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

Single copy price: \$45.00

ANSI/ASTM F1335-2004, Specification for Pressure-Rated Composite Pipe and Fittings for Elevated Temperature Service (withdrawal of ANSI/ASTM F1335-2004)

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

Single copy price: \$45.00

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

### **Revisions**

BSR/AWS A5.22/A5.22M-201x, Specification for Stainless Steel Flux Cored and Metal Cored Welding Electrodes and Rods (revision of ANSI/AWS A5.22/A5.22M-2009)

Specifies classification and other requirements for numerous grades of flux-cored and metal-cored stainless steel electrodes and rods. Designations for the flux-cored electrodes and rods indicate the chemical composition of the weld metal, the position of welding, and the external shielding gas required (for those classifications for which one is required). Designations for the metal-cored electrodes indicate the chemical composition of the weld metal only. The requirements include general requirements, testing and packaging. Annex A provides general application guidelines for individual alloys and other useful information about welding electrodes.

Single copy price: \$45.00

Obtain an electronic copy from: [roneill@aws.org](mailto:roneill@aws.org)

Order from: Rosalinda O'Neill, (305) 443-9353, [roneill@aws.org](mailto:roneill@aws.org)

Send comments (with copy to BSR) to: Andrew Davis, (305) 443-9353, Ext. 466, [adavis@aws.org](mailto:adavis@aws.org); [roneill@aws.org](mailto:roneill@aws.org)

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

### **Revisions**

BSR/AWWA C907-201x, Injection-Molded Polyvinyl Chloride (PVC) Pressure Fittings, 4 In. Through 12 In. (100 mm Through 300 mm), for Water, Wastewater, and Reclaimed Water Service (revision of ANSI/AWWA C907-2004)

Describes Pressure Class 235 polyvinyl chloride (PVC) injection-molded fittings with push-on, rubber-gasketed joints in nominal sizes 4 in. through 12 in. (100 mm through 300 mm). The fittings are for use with PVC and Molecularly Oriented Polyvinyl Chloride (PVCO) pressure-pipe having an outside diameter conforming to the dimensions of cast-iron pipe and with dimension ratios (DR) of 18 (Pressure Class 235) or 25 (Pressure Class 165), as described in ANSI/AWWA C900 and ANSI/AWWA C909.

Single copy price: \$20.00

Obtain an electronic copy from: [vdavid@awwa.org](mailto:vdavid@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 BSR) to: Same

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

### **New Standards**

\* BSR/CEA 2041-201x, Standard for Round Tactile Feedback Feature (new standard)

Defines a round tactile feedback feature for remote controls.

Single copy price: Free

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

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

Send comments (with copy to BSR) to: Alayne Bell, (703) 907-7634, [ABell@CE.org](mailto:ABell@CE.org); [Carce@CE.org](mailto:Carce@CE.org)



**EOS/ESD (ESD Association, Inc.)****Withdrawals**

ANSI/ESD SP 5.4-2004 (R2008), Standard Practice for the Protection of Electrostatic Discharge Susceptible Items - Latch-up Sensitivity Testing of CMOS/Bi CMOS Integrated Circuits - Transient Latch-up Testing - Component Level Supply Transient Stimulation (withdrawal of ANSI/ESD SP 5.4-2004 (R2008))

Establishes a procedure for testing, evaluating, and characterizing the Transient-induced Latch-Up (TLU) sensitivity of CMOS (Complementary Metal Oxide Semiconductor), Bipolar, and BiCMOS (Bipolar-CMOS) devices typically requiring less than 30 volts for operation.

Single copy price: Hardcopy: \$75.00 (ESD members), \$105.00 (nonmembers); Softcopy: \$100.00 (ESD members), \$130.00

Obtain an electronic copy from: [cearl@esda.org](mailto:cearl@esda.org)

Order from: Christina Earl, (315) 339-6937, [cearl@esda.org](mailto:cearl@esda.org)

Send comments (with copy to BSR) to: Same

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

INCITS/ISO/IEC 7811-6:2008, Identification cards - Recording technique - Part 6: Magnetic stripe - High coercivity (identical national adoption and revision of INCITS/ISO/IEC 7811-6:2001)

Defines the characteristics for identification cards as defined in Clause 4 of this part of ISO/IEC 7811 and the use of such cards for international interchange.

Single copy price: \$218.00

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

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

Send comments (with copy to BSR) to: Deborah Spittle, (202) 626-5746, [dspittle@itic.org](mailto:dspittle@itic.org)

INCITS/ISO/IEC 7812-1:2006, Identification cards - Identification of issuers - Part 1: Numbering system (identical national adoption and revision of INCITS/ISO/IEC 7812-1:2000)

Specifies a numbering system for the identification of issuers of cards that require an issuer identification number (IIN) to operate in international, interindustry and/or intra-industry interchange.

Single copy price: \$118.00

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

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Send comments (with copy to BSR) to: Deborah Spittle, (202) 626-5746, [dspittle@itic.org](mailto:dspittle@itic.org)

INCITS/ISO/IEC 10118-2:2010, Information technology - Security techniques - Hash-functions - Part 2: Hash-functions using an n-bit block cipher (identical national adoption and revision of INCITS/ISO/IEC 10118-2:2000)

Specifies hash-functions that make use of an n-bit block cipher algorithm. They are therefore suitable for an environment in which such an algorithm is already implemented.

Single copy price: \$227.00

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

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INCITS/ISO/IEC 10373-3:2010, Identification cards - Test methods - Part 3: Integrated circuit cards with contacts and related interface devices (identical national adoption and revision of INCITS/ISO/IEC 10373-3:2001)

Defines test methods for characteristics of integrated circuit cards with contacts and related interface devices according to the definition given in ISO/IEC 7816.

Single copy price: \$275.00

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

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

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INCITS/ISO/IEC 10373-6:2011, Identification cards - Test methods - Part 6: Proximity cards (identical national adoption and revision of INCITS/ISO/IEC 10373-6:2001)

Defines test methods for characteristics of identification cards according to the definition given in ISO/IEC 7810.

Single copy price: \$394.00

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

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Send comments (with copy to BSR) to: Deborah Spittle, (202) 626-5746, [dspittle@itic.org](mailto:dspittle@itic.org)

INCITS/ISO/IEC 14443-2:2010, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 2: Radio frequency power and signal interface (identical national adoption and revision of INCITS/ISO/IEC 14443-2:2001)

Specifies the characteristics of the fields to be provided for power and bidirectional communication between proximity coupling devices (PCDs) and proximity cards or objects (PICCs).

Single copy price: \$227.00

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

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INCITS/ISO/IEC 14443-3:2011, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 3: Initialization and anticollision (identical national adoption and revision of INCITS/ISO/IEC 14443-3:2001)

Describes protocol and commands used by higher layers and by applications and that are used after the initial phase described in ISO/IEC 14443-4.

Single copy price: \$314.00

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

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INCITS/ISO/IEC 14443-4:2008, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 4: Transmission protocol (identical national adoption and revision of INCITS/ISO/IEC 14443-4:2001)

Specifies a half-duplex block transmission protocol featuring the special needs of a contactless environment and defines the activation and deactivation sequence of the protocol.

Single copy price: \$272.00

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

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Send comments (with copy to BSR) to: Deborah Spittle, (202) 626-5746, [dspittle@itic.org](mailto:dspittle@itic.org)

INCITS/ISO/IEC 15693-1:2010, Identification cards - Contactless integrated circuit cards - Vicinity cards - Part 1: Physical characteristics (identical national adoption and revision of INCITS/ISO/IEC 15693-1:2000)

Defines the physical characteristics of vicinity cards (VICCs). This standard is used in conjunction with other parts of ISO/IEC 15693.

Single copy price: \$112.00

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

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Send comments (with copy to BSR) to: Deborah Spittle, (202) 626-5746, [dspittle@itic.org](mailto:dspittle@itic.org)

### **Withdrawals**

ANSI INCITS 353-2006, Information Technology - Geographical Information Systems - Spatial Data Standard for Facilities, Infrastructure, and Environment (SDSFIE) (withdrawal of ANSI INCITS 353-2006)

Provides a means to model and categorize real-world geographic phenomena of interest to the Facilities, Infrastructure, and Environment (FIE) Domain(s) into a set of geographic data that can be represented in a spatial database and presented to a user in digital form. This SDSFIE standard is intended to provide the enterprise spatial database schema to support multiple FIE applications.

Single copy price: \$30.00

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

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

Send comments (with copy to BSR) to: Barbara Bennett, (202) 626-5743, [bbennett@itic.org](mailto:bbennett@itic.org)

INCITS/ISO 4062-1977, Office Machines and Data Processing Equipment - Keyboard Layouts for Numeric Applications (formerly ANSI/ISO 4062-1977) (withdrawal of INCITS/ISO 4062-1977)

Includes symbols to be displayed on dictation equipment where they are used for the marking of controls and certain other parts of the devices.

Single copy price: \$30.00

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

Send comments (with copy to BSR) to: Barbara Bennett, (202) 626-5743, [bbennett@itic.org](mailto:bbennett@itic.org)

INCITS/ISO/IEC 6329-1989, Duplicators and Document Copying Machines - Symbols (formerly ANSI/ISO/IEC 6329-1989) (withdrawal of INCITS/ISO/IEC 6329-1989)

Provides the symbols that shall be used for the marking of controls, indicator panels, and certain other parts of duplicators and document copying machines for assisting users in operating and maintaining the machines.

Single copy price: \$30.00

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

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Send comments (with copy to BSR) to: Barbara Bennett, (202) 626-5743, [bbennett@itic.org](mailto:bbennett@itic.org)

INCITS/ISO/IEC 9995-6-1994, Information Technology - Keyboard Layouts for Text and Office Systems - Part 6: Function Section (formerly ANSI/ISO/IEC 9995-6-1994) (withdrawal of INCITS/ISO/IEC 9995-6-1994)

Gives the function section of a keyboard and the division of that section into zones. Specifies the arrangement, the number, and the location of the keys in the function zones of the function section as well as the allocation of functions to the keys.

Single copy price: \$30.00

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

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Send comments (with copy to BSR) to: Barbara Bennett, (202) 626-5743, [bbennett@itic.org](mailto:bbennett@itic.org)

INCITS/ISO/IEC 9995-3-1994/AM1-1998, Information Technology - Keyboard Layouts for Text and Office Systems - Part 3: Complementary Layouts of the Alphanumeric Zone of the Alphanumeric Section - Amendment 1 (formerly ANSI/ISO/IEC 9995-3:1994/Amendment 1:1998) (withdrawal of INCITS/ISO/IEC 9995-3)

Defines the allocation on a keyboard of a set of graphic characters that, when used in combination with an existing national version keyboard layout or the complementary Latin group layout, allows the input of the full graphic character repertoire. Primarily intended for word-processing and text-processing applications.

Single copy price: \$30.00

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Send comments (with copy to BSR) to: Barbara Bennett, (202) 626-5743, [bbennett@itic.org](mailto:bbennett@itic.org)

## **MHI (Material Handling Industry)**

### **New Standards**

BSR MH10.8.12-201x, Unit loads and transport packages - Component marking (new standard)

Provides for common structure for encoding data to be marked on electronic components to facilitate automation. Provides a means for components to be marked and read in a fixtured environment for subsequent manufacturing operations. Intended applications include, but are not limited to, component traceability and component tracking.

Single copy price: \$10.00

Obtain an electronic copy from: [mogle@mhia.org](mailto:mogle@mhia.org)

Order from: Michael Ogle, (704) 676-1190, [mogle@mhia.org](mailto:mogle@mhia.org)

Send comments (with copy to BSR) to: Same

BSR MH10.8.15-201x, Specification for XML Reader Output from ISO/IEC 15434 formatted AIDC Media (new standard)

Specifies, for an Automatic Identification and Data Capture (AIDC) reader manufacturer, the preferred output of an AIDC reader when processing ISO/IEC 15434 formatted data. The standard is intended to cover the processing of all AIDC media. It specifies that the output be provided in an XML format suitable for display in Internet Explorer and usable in other applications. The specifications are intended to cover the output from processing of all current and future Format Indicators included in ISO/IEC 15434.

Single copy price: \$10.00

Obtain an electronic copy from: [mogle@mhia.org](mailto:mogle@mhia.org)

Order from: Michael Ogle, (704) 676-1190, [mogle@mhia.org](mailto:mogle@mhia.org)

Send comments (with copy to BSR) to: Same

## NSF (NSF International)

### New Standards

- \* BSR/NSF 240-200x (i1r5), Drainfield Trench Product Sizing for Gravity Dispersal Onsite Wastewater Treatment and Dispersal Systems (new standard)

Issue 1 - Revision 5: Creates an American National Standard that provides laboratory and field evaluation methods for comparing gravity dispersal drainfield products based on hydraulic performance used in place of conventional coarse aggregate within onsite wastewater treatment and dispersal systems.

Single copy price: Free

Obtain an electronic copy from: [http://standards.nsf.org/apps/group\\_public/document.php?document\\_id=14539](http://standards.nsf.org/apps/group_public/document.php?document_id=14539)

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

Send comments (with copy to BSR) to: Same

## SCTE (Society of Cable Telecommunications Engineers)

### New Standards

BSR/SCTE 79-3-201x, DOCSIS 2.0 + IPv6 Cable Modem Standard (new standard)

This standard is an extension to the DOCSIS 2.0 family of specifications, which defines high-speed data-over-cable systems. For an overview of DOCSIS 2.0, refer to ANSI/SCTE 79-1. That standard requires the CM to support IP version 4 for provisioning and management. This standard provides IPv6 provisioning and management functionality for DOCSIS 2.0 CMs, connected IPv6 eSAFEs, and external CPE devices. The term, DOCSIS 2.0+IPv6 CM, is used to represent such Cable Modems.

Single copy price: \$50.00

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

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

Send comments (with copy to BSR) to: [standards@scte.org](mailto:standards@scte.org)

## SDI (Steel Deck Institute)

### New Standards

- \* BSR/SDI T-CD-201x, Test Standard for Composite Steel Deck-Slabs (new standard)

SDI-T-CD-2011 is a new standard for structural testing of composite steel deck slabs to be used by designers, specifiers, manufacturers, and installers of composite steel deck slabs. The specification sets guidelines and requirements relating to methods for structural testing of composite steel deck slabs. Non-mandatory user notes and commentary are included for further clarification and guidance.

Single copy price: \$5.00

Obtain an electronic copy from: [steve@sdi.org](mailto:steve@sdi.org)

Order from: Steven Roehrig, (847) 458-4647, [steve@sdi.org](mailto:steve@sdi.org)

Send comments (with copy to BSR) to: Thomas Sputo, [sputoeng@mindspring.com](mailto:sputoeng@mindspring.com)

### Revisions

- \* BSR/SDI C-201x, Standard for Composite Steel Floor Deck-Slabs (revision and redesignation of ANSI/SDI C1.0-2006)

Provides a standard for composite steel floor deck to be used by designers, specifiers, manufacturers, and installers of composite steel floor deck slabs. The specification sets guidelines and requirements relating to quality assurance, materials, design, materials handling, and installation of composite steel floor deck. Non-mandatory user notes are included for further clarification and guidance.

Single copy price: \$10.00

Obtain an electronic copy from: [steve@sdi.org](mailto:steve@sdi.org)

Order from: Steven Roehrig, (847) 458-4647, [steve@sdi.org](mailto:steve@sdi.org)

Send comments (with copy to BSR) to: Thomas Sputo, [sputoeng@mindspring.com](mailto:sputoeng@mindspring.com)

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

### New Standards

BSR/TAPPI T 525 om-xx, Diffuse brightness of paper, paperboard and pulp (d/0) - Ultraviolet level C (new standard)

Provides a method for the determination of the brightness of white, near-white, and naturally colored pulp, paper, and paperboard. Brightness is a commonly used industry term for the numerical value of the reflectance factor of a sample with respect to blue light of specific spectral and geometric characteristics. This method requires an instrument employing diffuse illumination and 0 degree viewing geometry.

Single copy price: Free

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

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

Send comments (with copy to BSR) to: Same

BSR/TAPPI T 530 om-201x, Size test for paper by ink resistance (Hercules-type method) (new standard)

Measures the resistance of paper to permeation of an aqueous penetrant and is a useful general purpose test for degree of sizing. This standard is applicable to most bleached, unbleached, and colored paper or boards that are surface sized and/or internally sized.

Single copy price: Free

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

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

Send comments (with copy to BSR) to: [standards@tappi.org](mailto:standards@tappi.org)

BSR/TAPPI T 579 om-201x, Diffuse brightness of paper, paperboard and pulp (d/0) (Ultraviolet level D65) (new standard)

Determines the brightness of white, near-white, and naturally colored pulp, paper, and paperboard. Brightness is a commonly used industry term for the numerical value of the reflectance factor of a sample with respect to blue light of specific spectral and geometric characteristics. This method requires an instrument employing diffuse illumination and 0 degree viewing geometry

Single copy price: Free

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

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

Send comments (with copy to BSR) to: [standards@tappi.org](mailto:standards@tappi.org)

BSR/TAPPI T 821 om-xx, Pin adhesion of corrugated board by selective separation (new standard)

Measures the force required to separate corrugated board between the flute tips of corrugated medium and its linerboard facings.

Single copy price: Free

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

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

Send comments (with copy to BSR) to: [standards@tappi.org](mailto:standards@tappi.org)

## TIA (Telecommunications Industry Association)

### New Standards

BSR/TIA 41.325-E-201x, Mobile Application Part: Voice Feature Scenarios: Conference Calling (new standard)

Depicts features operating individually; i.e., feature interactions are not considered unless specifically noted.

Single copy price: \$67.00

Obtain an electronic copy from: [www.global.ihs.com](http://www.global.ihs.com)

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

Send comments (with copy to BSR) to: Teesha Jenkins, (703) 907-7706, [standards@tiaonline.org](mailto:standards@tiaonline.org)

BSR/TIA 41.326-E-201x, Mobile Application Part (MAP) - Voice Feature Scenarios: Do Not Disturb (new standard)

Depicts the interactions between network entities in various situations related to automatic roaming and Do Not Disturb (DND).

Single copy price: \$369.00

Obtain an electronic copy from: [www.global.ihs.com](http://www.global.ihs.com)

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

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BSR/TIA 41.327-E-201x, Mobile Application Part: Voice Feature Scenarios: Flexible Alerting (new standard)

Depicts the interactions between network entities in various situations related to automatic roaming and Flexible Alerting (FA).

Single copy price: \$82.00

Obtain an electronic copy from: [www.global.ihs.com](http://www.global.ihs.com)

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Send comments (with copy to BSR) to: Teesha Jenkins, (703) 907-7706, [standards@tiaonline.org](mailto:standards@tiaonline.org)

BSR/TIA 41.328-E-201x, Mobile Application Part (MAP) - Voice Feature Scenarios: Mobile Access Hunting (new standard)

Depicts the interactions between network entities in various situations related to automatic roaming and Mobile Access Hunting (MAH). These scenarios are for illustrative purposes only.

Single copy price: \$82.00

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

Send comments (with copy to BSR) to: Teesha Jenkins, (703) 907-7706, [standards@tiaonline.org](mailto:standards@tiaonline.org)

BSR/TIA 41.329-E-201x, Mobile Application Part (MAP) - Voice Feature Scenarios: Message Waiting Notification (new standard)

Depicts the interactions between network entities in various situations related to automatic roaming and Message Waiting Notification (MWN).

Single copy price: \$71.00

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

Send comments (with copy to BSR) to: Teesha Jenkins, (703) 907-7706, [standards@tiaonline.org](mailto:standards@tiaonline.org)

BSR/TIA 41.330-E-201x, Mobile Application Part (MAP) - Voice Feature Scenarios: Password Call Acceptance/Selective Call Acceptance (new standard)

Depicts the interactions between network entities in various situations related to automatic roaming and Password Call Acceptance (PCA).

Single copy price: \$73.00

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Send comments (with copy to BSR) to: Teesha Jenkins, (703) 907-7706, [standards@tiaonline.org](mailto:standards@tiaonline.org)

BSR/TIA 41.331-E-201x, Mobile Application Part: Voice Feature Scenarios: Priority Access and Channel Assignment (PACA) (new standard)

Depicts the interactions between network entities in various situations related to automatic roaming and Priority Access and Channel Assignment (PACA).

Single copy price: \$63.00

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Send comments (with copy to BSR) to: Teesha Jenkins, (703) 907-7706, [standards@tiaonline.org](mailto:standards@tiaonline.org)

BSR/TIA 41.332-E-201x, Mobile Application Part: Voice Feature Scenarios: Remote Feature Control (new standard)

Depicts the interactions between network entities in various situations related to automatic roaming and Remote Feature Control (RFC).

Single copy price: \$56.00

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

Send comments (with copy to BSR) to: Teesha Jenkins, (703) 907-7706, [standards@tiaonline.org](mailto:standards@tiaonline.org)

BSR/TIA 41.333-E-201x, Mobile Application Part: Voice Feature Scenarios - Subscriber PIN Access/Subscriber PIN Intercept (new standard)

Depicts the interactions between network entities in various situations related to automatic roaming and Subscriber PIN Access (SPINA).

Single copy price: \$70.00

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

Send comments (with copy to BSR) to: Teesha Jenkins, (703) 907-7706, [standards@tiaonline.org](mailto:standards@tiaonline.org)

BSR/TIA 41.334-E-201x, Mobile Application Part: Voice Feature Scenarios - Voice Message Retrieval (new standard)

Depicts the interactions between network entities in various situations related to automatic roaming and Voice Message Retrieval (VMR).

Single copy price: \$56.00

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Send comments (with copy to BSR) to: Teesha Jenkins, (703) 907-7706, [standards@tiaonline.org](mailto:standards@tiaonline.org)

BSR/TIA 41.335-E-201x, Mobile Application Part (MAP) - Voice Feature Scenarios: Calling Name Presentation, Calling Name Restriction (new standard)

Depicts the interactions between network entities in various situations related to automatic roaming and Calling Name Presentation (CNAP).

Single copy price: \$71.00

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

Send comments (with copy to BSR) to: Teesha Jenkins, (703) 907-7706, [standards@tiaonline.org](mailto:standards@tiaonline.org)

BSR/TIA 41.371-E-201x, Mobile Application Part (MAP) - Broadcast Teleservice Transport Capability (new standard)

Describes the transfer of a message to several MSCs, and its successful delivery to MS-based SMEs via their respective Serving MSCs.

Single copy price: \$82.00

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

Send comments (with copy to BSR) to: Teesha Jenkins, (703) 907-7706, [standards@tiaonline.org](mailto:standards@tiaonline.org)

### **Addenda**

BSR/TIA 41.321-E-1-200x, Mobile Application Part (MAP) - Voice Feature Scenarios: Call Delivery (addenda to ANSI/TIA 41.321-E-2007)

Depicts the interactions between network entities in various situations related to automatic roaming and Call Delivery (CD).

Single copy price: \$89.00

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BSR/TIA 41.324-E-1-200x, Mobile Application Part (MAP) - Voice Feature Scenarios: Calling Number Identification Presentation, Calling Number Identification Restriction (addenda to ANSI/TIA 41.324-E-2007)

Depicts the communications between network entities in various situations related to automatic roaming and Calling Number Identification Presentation (CNIP).

Single copy price: \$82.00

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BSR/TIA 41.520-E-1[E]-201x, Mobile Application Part (MAP) - TCAP Application Signaling Protocols (addenda to ANSI/TIA 41.520-E-2004 (R2010))

Describes the application layer of the Mobile Applications Parts (MAP) Application Services.

Single copy price: \$61.00

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BSR/TIA 41.540-E-1[E]-201x, Mobile Application Part (MAP) - Operations Signaling Protocols (addenda to ANSI/TIA 41.540-E-2004 (R2010))

Supports systems conforming to air-interface technologies AMPS, NAMPS, TDMA and CDMA, including cdma2000®.

Single copy price: \$264.00

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BSR/TIA 41.550-E-1[E]-201x, Mobile Application Part (MAP) - Parameters Signaling Protocols (addenda to ANSI/TIA 41.550-E-2004 (R2010))

Describes the application layer of the Mobile Applications Parts (MAP) Application Services.

Single copy price: \$402.00

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

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BSR/TIA 41.550-E-2 [E]-200x, Mobile Application Part (MAP) - Parameters Signaling Protocols (addenda to ANSI/TIA 41.550-E-2004 (R2010))

Defines the parameters signaling protocols for wireless communications on the cdma2000 network.

Single copy price: \$402.00

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BSR/TIA 41.630-E-1[E]-201x, Mobile Application Part (MAP) - Basic Call Processing (addenda to ANSI/TIA 41.630-E-2005)

Defines the methods for Mobile Applications Parts (MAP) basic call processing.

Single copy price: \$108.00

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

Send comments (with copy to BSR) to: Teesha Jenkins, (703) 907-7706, [standards@tiaonline.org](mailto:standards@tiaonline.org)

BSR/TIA 41.630-E-2[E]-201x, Mobile Application Part: Basic Call Processing (addenda to ANSI/TIA 41.630-E-2005)

Defines the methods for Mobile Applications Parts (MAP) basic call processing.

Single copy price: \$125.00

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BSR/TIA 41.640-E-1[E]-201x, Mobile Application Part (MAP) - Intersystem Operations (addenda to ANSI/TIA 41.640-E-2005)  
Defines methods for Mobile Applications Parts (MAP) intersystem operations.

Single copy price: \$418.00

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

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BSR/TIA 41.651-E-1[E]-201x, Mobile Application Part (MAP) - Voice Features (addenda to ANSI/TIA 41.651-E-2005)

Defines methods for Mobile Applications Parts (MAP) voice features.

Single copy price: \$240.00

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BSR/TIA 41.690-E-1-201x, Mobile Application Part (MAP) - Timers (addenda to ANSI/TIA 41.690-E-2005)

Provides a summary of the timers used for Mobile Applications Parts (MAP) operations. The timer values specified are default values only and should be optimized for actual operating environments.

Single copy price: \$63.00

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Send comments (with copy to BSR) to: Teesha Jenkins, (703) 907-7706, [standards@tiaonline.org](mailto:standards@tiaonline.org)

## UL (Underwriters Laboratories, Inc.)

### Revisions

- \* BSR/UL 858-201x, Standard for Household Electric Ranges (revision of ANSI/UL 858-2010)

Covers:

- (1) Addition and revision of requirements to relocate component standard references from Appendix A into the body of the Standard as component requirements;
- (2) Revisions to the minimum glass thickness requirements;
- (3) Deletion of Class 1 and Class 2 distinction for heat transfer media to correlate with the removal of this differentiation from the Standard for Air Filter Units, UL 900;
- (4) Revision to 44.6 to address confusion with respect to the surface unit Set-Back Test; and
- (5) Revision of the self-cleaning oven scope in UL 858.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to BSR) to: Amy Walker, (847) 664-2023, [Amy.K.Walker@us.ul.com](mailto:Amy.K.Walker@us.ul.com)

## VITA (VMEbus International Trade Association (VITA))

### Revisions

BSR/VITA 65-201x, OpenVPX (revision of ANSI/VITA 65-2010)

Defines a set of system specifications and practices for VPX modules.

Single copy price: \$100.00

Obtain an electronic copy from: [www.vita.com](http://www.vita.com)

Send comments (with copy to BSR) to: [techdir@vita.com](mailto:techdir@vita.com)

## Comment Deadline: December 6, 2011

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

## ASME (American Society of Mechanical Engineers)

### Revisions

BSR/ASME B18.2.6M-201x, Metric Fasteners for Use in Structural Applications (revision, redesignation, and consolidation of ANSI/ASME B18.2.3.7M-1979 (R2006) and ANSI/ASME B18.2.4.6M-2010)

Covers the complete general and dimensional data for products in the metric series recognized as American National Standard for sizes M12 through M36. These four metric structural products include:

- (a) Metric heavy hex structural bolts: ASTM A325M and ASTM A490M;
- (b) Metric heavy hex nuts: ASTM A563M;
- (c) Hardened metric steel washers; circular, circular clipped, and beveled: ASTM F436M; and
- (d) Metric compressible washer-type direct tension indicators: ASTM F959M.

Single copy price: Free

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

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

## CGA (Compressed Gas Association)

### Revisions

BSR/CGA P-18-201x, Standard for Bulk Inert Gas Systems (revision of ANSI/CGA P-18-201x)

Large industrial and institutional users of argon, nitrogen, and helium need storage units on their premises with greater capacity than that provided by manifolded cylinders. These bulk supply systems are an assembly of storage containers, pressure regulators, pressure relief devices (PRDs), vaporizers, manifolds, interconnecting piping, and where present liquid transfer equipment. The inert gases are stored as gas or liquid in either stationary or portable containers. The bulk system terminates at the point where gas at service pressure enters the supply line. This standard does not apply to medical bulk inert gas systems or to carbon dioxide systems.

Single copy price: \$70.00

Obtain an electronic copy from: [cga@cganet.com](mailto:cga@cganet.com) or [www.cganet.com](http://www.cganet.com)

Order from: Compressed Gas Association; [cga@cganet.com](mailto:cga@cganet.com) or [www.cganet.com](http://www.cganet.com)

Send comments (with copy to BSR) to: Same

## Projects Withdrawn from Consideration

An accredited standards developer may abandon the processing of a proposed new or revised American National Standard or portion thereof if it has followed its accredited procedures. The following projects have been withdrawn accordingly:

### HL7 (Health Level Seven)

BSR/HL7 V3 CDISC2MSGSUBJDATA, R1-200x, HL7 Version 3 Standard: Regulated Studies; CDISC Content to Message - Subject Data, Release 1 (new standard)

BSR/HL7 V3DAM MRPCPD, R2-200x, HL7 Version 3 Domain Analysis Model: Medical Records; Composite Privacy Consent Directive, Release 2 (new standard)

BSR/HL7 V3 PHIR, R1-200x, HL7 Version 3 Standard: Public Health Investigation Request, Release 1 (new standard)

BSR/HL7 V3 RROM, R1-200x, HL7 Version 3 Standard: Public Health; Outbreak Management, Release 1 (new standard)

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

BSR/UL 2108-201x, Standard for Safety for Low Voltage Lighting Systems (revision of ANSI/UL 2108-2011)

# 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.

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

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

**Contact:** Angela Harris

**Phone:** 800-248-1946

**Fax:** 414-272-1734

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

BSR ASQ/ISO 19011-201x, Guidelines for auditing management systems (identical national adoption of ISO 19011)

## ASSE (ASC Z244) (American Society of Safety Engineers)

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

**Contact:** Timothy Fisher

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

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

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

BSR ASSE Z244.1-201x, Control of Hazardous Energy - Lockout/Tagout and Alternative Methods (revision of ANSI ASSE Z244.1-2003 (R2008))

## CGA (Compressed Gas Association)

**Office:** 14501 George Carter Way, Ste 103  
Chantilly, VA 20151

**Contact:** Krista Lee

**Phone:** (703) 788-2742

**Fax:** (703) 961-1831

**E-mail:** klee@cganet.com

BSR/CGA P-18-201x, Standard for Bulk Inert Gas Systems (revision of ANSI/CGA P-18-201x)

## ISA (ISA)

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

**Contact:** Eliana Brazda

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

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

**E-mail:** ebrazda@isa.org

BSR/ISA 75.08.01-201x, Face-to-Face Dimensions for Integral Flanged Globe-Style Control Valve Bodies (Classes 125, 150, 250, 300, and 600) (revision of ANSI/ISA 75.08.01-2002 (R2007))

BSR/ISA 75.08.03-201x, Face-to-Face Dimensions for Socket Weld-End and Screwed-End Globe-Style Control Valves (Classes 150, 300, 600, 900, 1500, and 2500) (revision of ANSI/ISA 75.08.03-2001 (R2007))

BSR/ISA 75.08.04-201x, Face-to-Face Dimensions for Buttweld-End Globe-Style Control Valves (Class 4500) (revision of ANSI/ISA 75.08.04-2007)

BSR/ISA 75.08.05-201x, Face-to-Face Dimensions for Buttweld-End Globe-Style Control Valves (Classes 150, 300, 600, 900, 1500, and 2500) (revision of ANSI/ISA 75.08.05-2002 (R2007))

BSR/ISA 75.08.06-201x, Face-to-Face Dimensions for Flanged Globe-Style Control Valve Bodies (Classes 900, 1500, and 2500) (revision of ANSI/ISA 75.08.06-2002 (R2007))

BSR/ISA 75.08.07-201x, Face-to-Face Dimensions for Separable Flanged Globe-Style Control Valves (Classes 150, 300, and 600) (revision of ANSI/ISA 75.08.07-2001 (R2007))

BSR/ISA 75.08.08-201x, Face-to-Centerline Dimensions for Flanged Globe-Style Angle Control Valve Bodies (Classes 150, 300, and 600) (revision of ANSI/ISA 75.08.08-1999 (R2007))

BSR/ISA 75.13.01-201x, Method of Evaluating the Performance of Positioners with Analog Input Signals and Pneumatic Output (revision of ANSI/ISA 75.13.01-2007)

BSR/ISA 75.19.01-201x, Hydrostatic Testing of Control Valves (revision of ANSI/ISA 75.19.01-2007)

BSR/ISA 75.01.01 (IEC 60534-2-1 Mod)-201x, Flow Equations for Sizing Control Valves (revision of ANSI/ISA 75.01.01 (IEC 60534-2-1 Mod) -2007)

BSR/ISA 92.04.01, Part I-201x, Performance Requirements for Instruments Used To Detect Oxygen-Deficient/Oxygen-Enriched Atmospheres (revision of ANSI/ISA 92.04.01 Part 1-2007)



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

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

**Contact:** *Barbara Bennett*

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

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

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

ANSI INCITS 353-2006, Information technology - Spatial Data Standard for Facilities, Infrastructure, and Environment (SDSFIE) (revision of ANSI INCITS 353-2004)

BSR INCITS 410-201x, Information technology - Identification cards - Limited Use Proximity Integrated Circuit (LU-PICC) (revision of ANSI INCITS 410-2006)

INCITS/ISO 4062-1977, Office Machines and Data Processing Equipment - Keyboard Layouts for Numeric Applications (identical national adoption of ISO 4062:1977)

INCITS/ISO 4062-1977, Office Machines and Data Processing Equipment - Keyboard Layouts for Numeric Applications (formerly ANSI/ISO 4062-1977) (withdrawal of INCITS/ISO 4062-1977)

INCITS/ISO/IEC 6329-1989, Duplicators and Document Copying Machines - Symbols (identical national adoption of ISO/IEC 6329:1989)

INCITS/ISO/IEC 6329-1989, Duplicators and Document Copying Machines - Symbols (formerly ANSI/ISO/IEC 6329-1989) (withdrawal of INCITS/ISO/IEC 6329-1989)

INCITS/ISO/IEC 7811-6:2008, Identification cards - Recording technique - Part 6: Magnetic stripe - High coercivity (identical national adoption and revision of INCITS/ISO/IEC 7811-6:2001)

INCITS/ISO/IEC 7812-1:2006, Identification cards - Identification of issuers - Part 1: Numbering system (identical national adoption and revision of INCITS/ISO/IEC 7812-1:2000)

INCITS/ISO/IEC 9995-6-1994, Information Technology - Keyboard Layouts for Text and Office Systems - Part 6: Function Section (identical national adoption of ISO/IEC 9995-6:1994)

INCITS/ISO/IEC 9995-6-1994, Information Technology - Keyboard Layouts for Text and Office Systems - Part 6: Function Section (formerly ANSI/ISO/IEC 9995-6-1994) (withdrawal of INCITS/ISO/IEC 9995-6-1994)

INCITS/ISO/IEC 9995-3-1994/AM1-1998, Information Technology - Keyboard Layouts for Text and Office Systems - Part 3: Complementary Layouts of the Alphanumeric Zone of the Alphanumeric Section - Amendment 1 (identical national adoption of ANSI/ISO/IEC 9995-3:1994/ - Amendment 1:1998)

INCITS/ISO/IEC 9995-3-1994/AM1-1998, Information Technology - Keyboard Layouts for Text and Office Systems - Part 3: Complementary Layouts of the Alphanumeric Zone of the Alphanumeric Section - Amendment 1 (formerly ANSI/ISO/IEC 9995-3:1994/Amendment 1:1998) (withdrawal of INCITS/ISO/IEC 9995-3-1994/AM1-1998)

INCITS/ISO/IEC 10118-2:2010, Information technology - Security techniques - Hash-functions - Part 2: Hash-functions using an n-bit block cipher (identical national adoption and revision of INCITS/ISO/IEC 10118-2:2000)

INCITS/ISO/IEC 10373-3:2010, Identification cards - Test methods - Part 3: Integrated circuit cards with contacts and related interface devices (identical national adoption and revision of INCITS/ISO/IEC 10373-3:2001)

INCITS/ISO/IEC 10373-6:2011, Identification cards - Test methods - Part 6: Proximity cards (identical national adoption and revision of INCITS/ISO/IEC 10373-6:2001)

INCITS/ISO/IEC 14443-2:2010, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 2: Radio frequency power and signal interface (identical national adoption and revision of INCITS/ISO/IEC 14443-2:2001)

INCITS/ISO/IEC 14443-3:2011, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 3: Initialization and anticollision (identical national adoption and revision of INCITS/ISO/IEC 14443-3:2001)

INCITS/ISO/IEC 14443-4:2008, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 4: Transmission protocol (identical national adoption of ISO/IEC 14443-4:2008)

INCITS/ISO/IEC 15693-1:2010, Identification cards - Contactless integrated circuit cards - Vicinity cards - Part 1: Physical characteristics (identical national adoption and revision of INCITS/ISO/IEC 15693-1:2000)

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

**Office:** 15 Technology Parkway South  
Norcross, GA 30092

**Contact:** *Charles Bohanan*

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

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

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

BSR/TAPPI T 275 sp-201x, Screening of pulp (Somerville-type equipment) (new standard)

BSR/TAPPI T 536 om-201x, Resistance of paper to passage of air (high-pressure Gurley method) (new standard)

BSR/TAPPI T 568 om-201x, Physical area of sub-visible contraries in pulp, paper, and paperboard by image analysis (new standard)

**TIA (Telecommunications Industry Association)**

**Office:** 2500 Wilson Blvd., Suite 300  
Arlington, VA 22201

**Contact:** *Stephanie Montgomery*

**Phone:** (703) 90-77700

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

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

BSR/TIA 41.321-E-1-200x, Mobile Application Part (MAP) - Voice Feature Scenarios: Call Delivery (addenda to ANSI/TIA 41.321-E-2007)

BSR/TIA 41.324-E-1-200x, Mobile Application Part (MAP) - Voice Feature Scenarios: Calling Number Identification Presentation, Calling Number Identification Restriction (addenda to ANSI/TIA 41.324-E-2007)

BSR/TIA 41.325-E-201x, Mobile Application Part: Voice Feature Scenarios: Conference Calling (new standard)

BSR/TIA 41.326-E-201x, Mobile Application Part (MAP) - Voice Feature Scenarios: Do Not Disturb (new standard)

BSR/TIA 41.327-E-201x, Mobile Application Part: Voice Feature Scenarios: Flexible Alerting (new standard)

BSR/TIA 41.328-E-201x, Mobile Application Part (MAP) - Voice Feature Scenarios: Mobile Access Hunting (new standard)

BSR/TIA 41.329-E-201x, Mobile Application Part (MAP) - Voice Feature Scenarios: Message Waiting Notification (new standard)

- BSR/TIA 41.330-E-201x, Mobile Application Part (MAP) - Voice Feature  
Scenarios: Password Call Acceptance/Selective Call Acceptance  
(new standard)
- BSR/TIA 41.331-E-201x, Mobile Application Part: Voice Feature  
Scenarios: Priority Access and Channel Assignment (PACA) (new  
standard)
- BSR/TIA 41.332-E-201x, Mobile Application Part: Voice Feature  
Scenarios: Remote Feature Control (new standard)
- BSR/TIA 41.333-E-201x, Mobile Application Part: Voice Feature  
Scenarios - Subscriber PIN Access/Subscriber PIN Intercept (new  
standard)
- BSR/TIA 41.334-E-201x, Mobile Application Part: Voice Feature  
Scenarios - Voice Message Retrieval (new standard)
- BSR/TIA 41.335-E-201x, Mobile Application Part (MAP) - Voice Feature  
Scenarios: Calling Name Presentation, Calling Name Restriction (new  
standard)
- BSR/TIA 41.371-E-201x, Mobile Application Part (MAP) - Broadcast  
Teleservice Transport Capability (new standard)
- BSR/TIA 41.372-E-201x, Mobile Application Part (MAP) - Border MSC  
SMS Scenarios (new standard)
- BSR/TIA 41.550-E-2 [E]-200x, Mobile Application Part (MAP) -  
Parameters Signaling Protocols (addenda to ANSI/TIA 41.550-E-2004  
(R2010))
- BSR/TIA 41.630-E-2[E]-201x, Mobile Application Part: Basic Call  
Processing (addenda to ANSI/TIA 41.630-E-2005)

# 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.

## **CSA (CSA America, Inc.)**

### ***Addenda***

- \* ANSI Z21.11.2-2011, Standard for Gas-Fired Room Heaters, Volume II, Unvented Room Heaters (addenda to ANSI Z21.11.2-2007, ANSI Z21.11.2a-2008, and ANSI Z21.11.2b-2010): 9/29/2011

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

### ***New Standards***

- \* ANSI/IAPMO Z124/CSA B45.5-2011, Plastic plumbing fixtures (new standard): 9/29/2011

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

### ***Revisions***

ANSI/ICEA S-105-692-2010, Standard for 600 Volt Single Layer Thermoset Insulated Utility Underground Distribution Cables (revision of ANSI/ICEA S-105-692-2004): 9/29/2011

## **NSF (NSF International)**

### ***Revisions***

- \* ANSI/NSF 173-2011 (i38), Dietary Supplements (revision of ANSI/NSF 173-2010): 9/19/2011

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

### ***Revisions***

ANSI/UL 141-2011, Garment Finishing Appliances (revision of ANSI/UL 141-2011): 9/27/2011

ANSI/UL 563-2011, Standard for Safety for Ice Makers (revision of ANSI/UL 563-2009): 9/29/2011

ANSI/UL 1286-2011, Standard for Safety for Office Furnishings (revision of ANSI/UL 1286-2011): 9/29/2011

# 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.

## ACCA (Air Conditioning Contractors of America)

**Office:** 2800 Shirlington Road  
Suite 300  
Arlington, VA 22206

**Contact:** Dick Shaw

**Fax:** (703) 575-4449

**E-mail:** [dick.shaw@acca.org](mailto:dick.shaw@acca.org)

BSR/ACCA 1 Manual D Errata-201x, Residential Duct System Design (Errata) (supplement to ANSI/ACCA 1 Manual D-2009)

Stakeholders: Contractors and HVAC system engineers.

Project Need: To list the substantial changes included in the errata sheet. It is anticipated that releasing the errata for public review will lead to further improvements on an already thorough manual.

Two years have passed since the last revision of ANSI/ACCA 1 Manual D (Residential Duct Systems). Since then, two substantive changes have been proposed to address low-resistance return air path strategies: transfer ducts and transfer grilles. The two-page errata sheet will improve the design criteria for these engineered systems.

## AISI (American Iron and Steel Institute)

**Office:** 1140 Connecticut Avenue, NW  
Suite 705  
Washington, DC 20036

**Contact:** Helen Chen

**Fax:** (202) 452-1039

**E-mail:** [Hchen@steel.org](mailto:Hchen@steel.org); [doates@steel.org](mailto:doates@steel.org)

BSR/AISI S211-2007/S1-12-201x, Supplement 1 to the North American Standard for Cold-Formed Steel Framing - Wall Stud Design (supplement to ANSI/AISI S211-2007)

Stakeholders: Designers, manufacturers, and installers of CFS non-structural framing members.

Project Need: To enable designers to utilize the research findings on installation of exterior wall coverings, new design provisions need to be developed and approved.

Provides design provisions for installation of exterior wall coverings.

## 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](mailto:vangilder@asabe.org)

BSR/ASAE S478.1-MONYEAR-201x, Roll-Over Protective Structures (ROPS) for Compact Utility Tractors (revision of ANSI/ASAE S478-MAR96 (R2005))

Stakeholders: Manufacturers, owners, and users of compact utility tractors and components.

Project Need: Periodic review identified the need to update the references.

Establishes the test and performance requirements of a roll-over protective structure, ROPS, designed for compact utility tractors to minimize the frequency and severity of crushing injury to the operator resulting from accidental tractor upset.

## ASME (American Society of Mechanical Engineers)

**Office:** 3 Park Avenue, 20th Floor (20N2)  
New York, NY 10016

**Contact:** Mayra Santiago

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

**E-mail:** [ansibox@asme.org](mailto:ansibox@asme.org)

BSR/ASME PTC 34-201x, Waste Combustors with Energy Recovery (revision of ANSI/ASME PTC 34-2007)

Stakeholders: Municipal waste facilities, engineers, operators A/E firms, manufacturers of boilers.

Project Need: To provide corrections for performance guarantees, an appendix on Performance Monitoring, and a sample uncertainty Calculation.

Provides a test procedure for evaluating the performance of waste-fuel combustors with energy recovery using the boiler as a calorimeter. These procedures apply when the variability and waste fuel composition results in a lack of confidence in obtaining representative samples for laboratory analysis. Instructions are given to determine the thermal capacity and thermal efficiency of waste combustor systems by applying the concept of using the boiler as a calorimeter. In addition, the HHV of the waste fuel can be determined by weighing the waste fuel that has been consumed during the test.

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

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

**Contact:** Angela Harris

**Fax:** 414-272-1734

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

BSR ASQ/ISO 19011-201x, Guidelines for auditing management systems (identical national adoption of ISO 19011)  
Stakeholders: Company, government, individual, organization.  
Project Need: To adopt ISO 19011 as an American National Standard.

Provides guidance on auditing management systems, including the principles of auditing, managing an audit program and conducting management system audits, as well as guidance on the evaluation of competence of individuals involved in the audit process, including the person managing the audit program, auditors, and audit teams.

**ASSE (ASC Z244) (American Society of Safety Engineers)**

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

**Contact:** Timothy Fisher

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

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

BSR ASSE Z244.1-201x, Control of Hazardous Energy - Lockout/Tagout and Alternative Methods (revision of ANSI ASSE Z244.1-2003 (R2008))  
Stakeholders: Safety, health, and environmental (SH&E) professionals working with lockout/tagout (LOTO) related hazards  
Project Need: To update the standard based upon the consensus of the Z244 ASC and the ASSE leadership.

Establishes requirements for the control of hazardous energy associated with machines, equipment, or processes that could cause injury to personnel.

**CEA (Consumer Electronics Association)**

**Office:** 1919 S. Eads St.  
Arlington, VA 22202

**Contact:** Shazia McGeehan

**Fax:** (703) 907-4192

**E-mail:** smcgeehan@ce.org

- \* ANSI/CEA 2013-A-2007, Digital STB Background Power Consumption (withdrawal of ANSI/CEA 2013-A-2007)  
Stakeholders: Consumer Electronics industry.  
Project Need: To withdraw CEA 2013-A and replace it with draft CEA 2043.

Defines maximum background mode (SLEEP state) energy consumption of basic digital set top boxes (STBs), whose primary function is video reception and delivery. SLEEP state energy consumption is important since Digital STBs spend large amounts of time in this state when consumers are not watching television. CEA -2013-A also provides a detailed SLEEP state power measurement specification and procedure, which is included in Annex A.

ANSI/CEA 2022-2007, Digital STB Active Power Consumption Measurement (withdrawal of ANSI/CEA 2022-2007)  
Stakeholders: Consumer Electronics industry.  
Project Need: To withdraw CEA 2022 and replace it with draft CEA 2043.

Defines a method for measuring power consumption of a digital set top box (STB) whose primary function is video reception and delivery when operating in an active (ON) state.

- \* BSR/CEA 2043-201x, Set-Top Box (STB) Power Measurement (new standard)

Stakeholders: Consumer Electronics industry.

Project Need: To create a new Set-top Box (STB) power measurement standard.

Defines a method for measuring set-top box power consumption using the measurement parameters of the International Electrotechnical Commission standard IEC 62087, Methods of Measurement of the Power Consumption of Audio, Video and Related Equipment". This standard clarifies test procedures, definitions, terms, and provides localization for North American markets. An informative annex maps IEC measurement values to the US EPA Energy Star (R) Program Requirements for Set-Top Boxes.

**CLSI (Clinical and Laboratory Standards Institute (formerly NCCLS))**

**Office:** 940 West Valley Road, Suite 1400  
Wayne, PA 19087

**Contact:** Tracy Dooley

**Fax:** (610) 688-0700

**E-mail:** tdooley@clsi.org

BSR/CLSI M02-A11-201x, Performance Standards for Antimicrobial Disk Susceptibility Tests; Approved Standard - Eleventh Edition (revision and redesignation of ANSI/CLSI M02-A10-2009)  
Stakeholders: Medical laboratories.

Project Need: To provide recommended methods for disk susceptibility testing and criteria for quality control testing.

Contains the current recommended methods for disk susceptibility testing, criteria for quality control testing, and updated tables for interpretive zone diameters.

BSR/CLSI M07-A9-201x, Methods for Dilution Antimicrobial Susceptibility Test for Bacteria That Grow Aerobically; Approved Standard - Ninth Edition (revision and redesignation of ANSI/CLSI M07-A8-2009)

Stakeholders: Medical laboratories.

Project Need: To provide updated reference methods for the determination of minimal inhibitory concentrations (MICs) for aerobic bacteria.

Addresses reference methods for the determination of minimal inhibitory concentrations (MICs) of aerobic bacteria by broth microdilution, broth microdilution, and agar dilution.

**ECA (Electronic Components Association)**

**Office:** 2500 Wilson Blvd, Suite 310  
Arlington, VA 22201-3834

**Contact:** Edward Mikoski

**Fax:** (703) 875-8908

**E-mail:** emikoski@ecaus.org

BSR/EIA 364-61-201x, Rework Resistance to Soldering Heat Test Procedure for Electrical Connectors and Sockets (new standard)

Stakeholders: Electrical, electronics and military applications.

Project Need: To provide a new test standard that specifically addresses the criteria for reworked parts that are subjected to soldering heat.

Establishes a test method for determining if connectors or sockets can withstand exposure to solder rework conditions using either solder iron, solder pot, solder fountain, hot air, or hot vapor techniques. It is important to note that compliant pin connectors or sockets can be affected by solder rework if they are in close proximity to other connectors or sockets undergoing solder rework.

**ISA (ISA)**

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

**Contact:** *Eliana Brazda*

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

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

BSR/ISA 75.08.01-201x, Face-to-Face Dimensions for Integral Flanged Globe-Style Control Valve Bodies (Classes 125, 150, 250, 300, and 600) (revision of ANSI/ISA 75.08.01-2002 (R2007))

Stakeholders: Consumers, manufacturers, regulatory bodies.

Project Need: To aid users in their piping designs.

Applies to integral flanged globe-style control valves, sizes 15 mm (1/2 inch) through 400 mm (16 inches), having top, top and bottom, port, or cage guiding.

BSR/ISA 75.08.03-201x, Face-to-Face Dimensions for Socket Weld-End and Screwed-End Globe-Style Control Valves (Classes 150, 300, 600, 900, 1500, and 2500) (revision of ANSI/ISA 75.08.03-2001 (R2007))

Stakeholders: Consumers, manufacturers, regulatory bodies.

Project Need: To aid users in their piping designs.

Applies to socket weld-end globe-style control valves, sizes 1/2 inch (15 mm) through 4 inches (100 mm), and screwed-end globe-style control valves, sizes 1/2 inch (15 mm) through 2 1/2 inches (65 mm), having top, top and bottom, port, or cage guiding.

BSR/ISA 75.08.04-201x, Face-to-Face Dimensions for Buttweld-End Globe-Style Control Valves (Class 4500) (revision of ANSI/ISA 75.08.04-2007)

Stakeholders: Consumers, manufacturers, regulatory bodies.

Project Need: To aid users in their piping designs.

Applies to buttweld-end globe-style control valves, sizes 1/2 inch (15 mm) through 8 inches (200 mm), having top and cage guiding.

BSR/ISA 75.08.05-201x, Face-to-Face Dimensions for Buttweld-End Globe-Style Control Valves (Classes 150, 300, 600, 900, 1500, and 2500) (revision of ANSI/ISA 75.08.05-2002 (R2007))

Stakeholders: Consumers, manufacturers, regulatory bodies.

Project Need: To aid users in their piping designs.

Applies to buttweld-end globe-style control valves, sizes 15 mm (1/2 inch) through 450 mm (18 inches) for Classes 150 through 2500, having top, top and bottom, port, or cage guiding.

BSR/ISA 75.08.06-201x, Face-to-Face Dimensions for Flanged Globe-Style Control Valve Bodies (Classes 900, 1500, and 2500) (revision of ANSI/ISA 75.08.06-2002 (R2007))

Stakeholders: Consumers, manufacturers, regulatory bodies.

Project Need: To aid users in their piping designs.

Applies to flanged globe-style control valves, sizes 15 mm (1/2 inch) through 450 mm (18 inches), having top, top and bottom, port, or cage guiding.

BSR/ISA 75.08.07-201x, Face-to-Face Dimensions for Separable Flanged Globe-Style Control Valves (Classes 150, 300, and 600) (revision of ANSI/ISA 75.08.07-2001 (R2007))

Stakeholders: Consumers, manufacturers, regulatory bodies.

Project Need: To aid users in their piping designs.

Applies to separable flanged globe-style control valves, sizes 1 inch through 4 inches.

BSR/ISA 75.08.08-201x, Face-to-Centerline Dimensions for Flanged Globe-Style Angle Control Valve Bodies (Classes 150, 300, and 600) (revision of ANSI/ISA 75.08.08-1999 (R2007))

Stakeholders: Consumers, manufacturers, regulatory bodies.

Project Need: To aid users in their piping designs.

Applies to raised-face flanged globe-style angle control valves, 1 inch through 8 inches.

BSR/ISA 75.13.01-201x, Method of Evaluating the Performance of Positioners with Analog Input Signals and Pneumatic Output (revision of ANSI/ISA 75.13.01-2007)

Stakeholders: Consumers, manufacturers, regulatory bodies.

Project Need: To provide methods of evaluation to verify performance of valve positioners.

Specifies tests designed to determine the performance of positioners with analog input signals and pneumatic output. The method of evaluation described in this standard specifies the use of an actuator of the user's or manufacturer's choice. The positioner may be single-acting or double-acting.

BSR/ISA 75.19.01-201x, Hydrostatic Testing of Control Valves (revision of ANSI/ISA 75.19.01-2007)

Stakeholders: Consumers, manufacturers, regulatory bodies.

Project Need: To establish requirements and definitions for standard hydrostatic shell testing of control valves by the valve manufacturer to prove the structural integrity and leak tightness of the valves' pressure retaining parts.

Applies to control valves having bodies, bonnets, cover plates, and bottom flanges made of carbon steel, low-alloy and high-alloy (stainless) steel, nickel-base alloy, cast iron, and ductile iron.

BSR/ISA 75.01.01 (IEC 60534-2-1 Mod)-201x, Flow Equations for Sizing Control Valves (revision of ANSI/ISA 75.01.01 (IEC 60534-2-1 Mod)-2007)

Stakeholders: Consumers, manufacturers, regulatory bodies.

Project Need: To aid users in sizing control valves.

Includes equations for predicting the flow coefficient of compressible and incompressible fluids through control valves.

BSR/ISA 92.04.01, Part I-201x, Performance Requirements for Instruments Used To Detect Oxygen-Deficient/Oxygen-Enriched Atmospheres (revision of ANSI/ISA 92.04.01 Part I-2007)

Stakeholders: Consumers, manufacturers, regulatory bodies.

Project Need: To provide minimum performance requirements of electrical instruments for the determination of oxygen content in air in order to enhance the safety of personnel.

Addresses the details of construction, performance, and testing of portable, mobile, and stationary electrical instruments used to provide a warning of the presence of oxygen-deficient or oxygen-enriched atmospheres.

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

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

**Contact:** *Deborah Spittle*

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

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

BSR INCITS 410-201x, Information technology - Identification cards - Limited Use Proximity Integrated Circuit (LU-PICC) (revision of ANSI INCITS 410-2006)

Stakeholders: PICC manufacturers.

Project Need: As the LU-PICC has grown in acceptance and high-volume manufacturing, there have been several manufacturers that have requested updates to the standard.

The smart card industries' continued expansion into all aspects of application, including Ticketing, ID, Security and Financial value card products, has made excellent use of ANSI 410-2006 to address the shorter lifecycle/duration and temporary smart card or limited-use low-cost PICC solution. The proposed standard provides for updated card types that range from thin to thicker with a wide use of construction materials making them available for multiple applications. Having multiple options will increase industry application potential and will provide a greater chance of overall proximity smart-card acceptance.

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

**Office:** 140 Philips Rd.  
Exton, PA 19341

**Contact:** *Travis Murdock*

**Fax:** (610) 363-5898

**E-mail:** [tmurdock@scte.org](mailto:tmurdock@scte.org)

BSR/SCTE 07-201x, Digital Transmission Standard for Cable Television (revision of ANSI/SCTE 07-2006)

Stakeholders: Cable Telecommunications industry.

Project Need: To update the standard to the current technology.

Describes the framing structure, channel coding, and channel modulation for a digital multi-service television distribution system that is specific to a cable channel. The system can be used transparently with the distribution from a satellite channel, as many cable systems are fed directly from satellite links.

BSR/SCTE 19-201x, Methods for Isochronous Data Services Transport (revision of ANSI/SCTE 19-2006)

Stakeholders: Cable Telecommunications industry.

Project Need: To update the standard to the current technology.

Defines transmission format for the carriage of isochronous data services compatible with digital multiplex bitstreams constructed in accordance with ISO/IEC 13818-1 (MPEG-2 Systems). Bit rates for the data services extend from 19.2 kbps to 9.0 Mbps.

BSR/SCTE 28-201x, HOST-POD Interface Standard (revision of ANSI/SCTE 28-2007)

Stakeholders: Cable Telecommunications industry.

Project Need: To update the standard to the current technology.

Defines the characteristics and normative specifications for the interface between Point of Deployment (POD) security modules owned and distributed by cable operators, and commercially available consumer receivers and set-top terminals ("Host devices") that are used to access multi-channel television programming carried on North American cable systems.

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

**Office:** 15 Technology Parkway South  
Norcross, GA 30092

**Contact:** *Charles Bohanan*

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

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

BSR/TAPPI T 275 sp-201x, Screening of pulp (Somerville-type equipment) (new standard)

Stakeholders: Manufacturers, consumers or converters, and suppliers of pulp, paper, packaging, or related products.

Project Need: To conduct the required five-year review of an existing TAPPI standard in order to revise it, if needed to address new technology or to correct errors.

Separates contaminants such as shives in mechanical pulp, and macro-stickies, plastics, sand, metal pieces, and flakes in recycled fiber from pulp fibers for subsequent examination and/or quantification. This method employs a screening device and the separation is based on size difference between fibers and contaminants. However, depending on their flexibility and/or geometry, not all of the contaminants that are larger in size than fiber can be captured by the screen.

BSR/TAPPI T 536 om-201x, Resistance of paper to passage of air (high-pressure Gurley method) (new standard)

Stakeholders: Manufacturers, consumers or converters, and suppliers of pulp, paper, packaging, or related products.

Project Need: To conduct the required five-year review of an existing TAPPI standard in order to revise it, if needed to address new technology or to correct errors.

Measures the air resistance of approximately 6.4 sq. cm. (1 sq. in.) circular area of paper using a pressure differential of approximately 3 kPa. The recommended range of this instrument is for papers that require 10 or more seconds for 10 mL of air to pass through.

BSR/TAPPI T 568 om-201x, Physical area of sub-visible contraries in pulp, paper, and paperboard by image analysis (new standard)

Stakeholders: Manufacturers, consumers or converters, and suppliers of pulp, paper, packaging, or related products.

Project Need: To conduct the required five-year review of an existing TAPPI standard in order to revise it, if needed to address new technology or to correct errors.

Describes a method that uses image analysis to determine the level of subvisible contraries in pulp, recycled pulp, paper, and paperboard in terms of Equivalent Physical Diameter (EPD) of contraries within the EPD range of 8 micrometers to 160 micrometers, reported in parts per hundred as well as the number of specks per square centimeter of sample. Extension to other speck sizes (for example, those greater than 160 micrometers) may require changes in equipment, calculation procedures, or both, and is not covered in this test method.

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

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

**Contact:** *Derrick Martin*

**Fax:** (408) 689-6656

**E-mail:** [Derrick.L.Martin@us.ul.com](mailto:Derrick.L.Martin@us.ul.com)

BSR/UL 635-201x, Standard for Safety for Insulating Bushings (new standard)

Stakeholders: Manufacturers of insulating bushings; manufacturers of products that use insulating bushings.

Project Need: To obtain recognition of UL 635 as an American National Standard.

Covers insulating bushings and accessories for insulating bushings used for the following purposes in electrical equipment:

- (a) Insulating bushings used for the protection of cables, flexible cords, and insulated wires, where routed through internal or external walls of electrical equipment;
- (b) Insulating bushings used to provide strain-relief for flexible cord and single conductor insulated wiring and to protect such cords or wiring; and
- (c) Accessories to insulating bushings used to supplement the characteristics of the bushing.

# American National Standards Maintained Under Continuous Maintenance

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

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

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

- AAMI (Association for the Advancement of Medical Instrumentation)
- AAMVA (American Association of Motor Vehicle Administrators)
- AGA (American Gas Association)
- AGRSS, Inc. (Automotive Glass Replacement Safety Standards Committee, Inc.)
- ASC X9 (Accredited Standards Committee X9, Incorporated)
- ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)
- ASME (American Society of Mechanical Engineers)
- ASTM (ASTM International)
- GEIA (Greenguard Environmental Institute)
- HL7 (Health Level Seven)
- MHI (ASC MH10) (Material Handling Industry)
- NAHBRC (NAHB Research Center, Inc.)
- NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)
- NCPDP (National Council for Prescription Drug Programs)
- NISO (National Information Standards Organization)
- NSF (NSF International)
- TIA (Telecommunications Industry Association)
- UL (Underwriters Laboratories, Inc.)

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

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



# ANSI Developers Contact Information

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

<p><b>AAMI</b> Association for the Advancement of Medical Instrumentation 4301 N Fairfax Drive Suite 301 Arlington, VA 22203-1633 Phone: (703) 253-8261 Fax: (703) 276-0793 Web: <a href="http://www.aami.org">www.aami.org</a></p>	<p><b>ASA (ASC S12)</b> Acoustical Society of America 35 Pinelawn Road Suite 114E Melville, NY 11747 Phone: (631) 390-0215 Fax: (631) 390-0217 Web: <a href="http://acousticalsociety.org">acousticalsociety.org</a></p>	<p><b>AWS</b> American Welding Society 550 N.W. LeJeune Road Miami, FL 33126 Phone: (305) 443-9353 Fax: (305) 443-5951 Web: <a href="http://www.aws.org">www.aws.org</a></p>	<p><b>HL7</b> Health Level Seven 3300 Washtenaw Avenue Suite 227 Ann Arbor, MI 48104 Phone: (734) 677-7777 Ext 104 Fax: (734) 677-6622 Web: <a href="http://www.hl7.org">www.hl7.org</a></p>
<p><b>ACCA</b> Air Conditioning Contractors of America 2800 Shirlington Road Suite 300 Arlington, VA 22206 Phone: (202) 251-3835 Fax: (703) 575-4449 Web: <a href="http://www.acca.org">www.acca.org</a></p>	<p><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></p>	<p><b>AWWA</b> American Water Works Association 6666 W. Quincy Ave. Denver, CO 80235 Phone: (303) 347-6178 Fax: (303) 795-6303 Web: <a href="http://www.awwa.org">www.awwa.org</a></p>	<p><b>IAPMO (Z)</b> International Association of Plumbing &amp; Mechanical Officials 5001 East Philadelphia Street Ontario, CA 91761-2816 Phone: (909) 472-4106 Fax: (909) 472-4154 Web: <a href="http://www.iapmort.org">www.iapmort.org</a></p>
<p><b>ACMA</b> American Composites Manufacturers Association 1010 North Glebe Road Arlington, VA 43025 Phone: (740) 928-3286 Fax: (740) 525-0743 Web: <a href="http://www.icpa-hq.org">www.icpa-hq.org</a></p>	<p><b>ASHRAE</b> American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. 1791 Tullie Circle NE Atlanta, GA 30329 Phone: (678) 539-1175 Fax: (678) 539-2175 Web: <a href="http://www.ashrae.org">www.ashrae.org</a></p>	<p><b>CEA</b> Consumer Electronics Association 1919 S. Eads St. Arlington, VA 22202 Phone: (703) 907-7697 Fax: (703) 907-4192 Web: <a href="http://www.ce.org">www.ce.org</a></p>	<p><b>ISA (Organization)</b> ISA-The Instrumentation, Systems, and Automation Society 67 Alexander Drive Research Triangle Park, NC 27709 Phone: (919) 990-9228 Fax: (919) 549-8288 Web: <a href="http://www.isa.org">www.isa.org</a></p>
<p><b>ADA (Organization)</b> American Dental Association 211 East Chicago Avenue Chicago, IL 60611-2678 Phone: (312) 440-2509 Fax: (312) 440-2529 Web: <a href="http://www.ada.org">www.ada.org</a></p>	<p><b>ASME</b> American Society of Mechanical Engineers 3 Park Avenue, 20th Floor (20N2) New York, NY 10016 Phone: (212) 591-8521 Fax: (212) 591-8501 Web: <a href="http://www.asme.org">www.asme.org</a></p>	<p><b>CGA</b> Compressed Gas Association 14501 George Carter Way, Ste 103 Chantilly, VA 20151 Phone: (703) 788-2742 Fax: (703) 961-1831 Web: <a href="http://www.cganet.com/">www.cganet.com/</a></p>	<p><b>ITI (INCITS)</b> InterNational Committee for Information Technology Standards 1101 K Street NW, Suite 610 Washington, DC 20005-3922 Phone: (202) 626-5746 Fax: (202) 638-4922 Web: <a href="http://www.incits.org">www.incits.org</a></p>
<p><b>AISI</b> American Iron and Steel Institute 1140 Connecticut Avenue, NW Suite 705 Washington, DC 20036 Phone: (202) 452-7134 Fax: (202) 452-1039 Web: <a href="http://www.steel.org">www.steel.org</a></p>	<p><b>ASQ (ASC Z1)</b> American Society for Quality 600 N Plankinton Milwaukee, WI 53203 Phone: 800-248-1946 Fax: 414-272-1734 Web: <a href="http://standardsgroup.asq.org">standardsgroup.asq.org</a></p>	<p><b>CLSI</b> Clinical and Laboratory Standards Institute (formerly NCCLS) 940 West Valley Road, Suite 1400 Wayne, PA 19087 Phone: (610) 688-0100 Fax: (610) 688-0700 Web: <a href="http://www.clsi.org">www.clsi.org</a></p>	<p><b>MHI</b> Material Handling Industry 8720 Red Oak Blvd., Suite 201 Charlotte, NC 28217-3992 Phone: (704) 676-1190 Fax: (704) 676-1199 Web: <a href="http://www.mhia.org">www.mhia.org</a></p>
<p><b>ALI (ASC A14)</b> American Ladder Institute 401 N. Michigan Avenue Chicago, IL 60611 Phone: (312) 673-5769 Fax: (312) 673-6916 Web: <a href="http://www.americanladderinstitute.org">www.americanladderinstitute.org</a></p>	<p><b>ASSE (Safety)</b> American Society of Safety Engineers 1800 East Oakton Street Des Plaines, IL 60018-2187 Phone: (847) 768-3411 Fax: (847) 296-9221</p>	<p><b>CSA</b> CSA America, Inc. 8501 E. Pleasant Valley Rd. Cleveland, OH 44131 Phone: (216) 524-4990 Fax: (216) 520-8979 Web: <a href="http://www.csa-america.org">www.csa-america.org</a></p>	<p><b>NEMA (ASC C8)</b> National Electrical Manufacturers Association 1300 North 17th Street, Suite 1752 Rosslyn, VA 22209 Phone: (703) 841-3271 Fax: (703) 841-3371 Web: <a href="http://www.nema.org">www.nema.org</a></p>
<p><b>ARMA</b> Association of Records Managers and Administrators 11880 College Boulevard, Suite 450 Overland Park, KS 66210 Phone: (913) 312-5565 Fax: (913) 341-3742 Web: <a href="http://www.arma.org">www.arma.org</a></p>	<p><b>ASTM</b> ASTM International 100 Barr Harbor Drive West Conshohocken, PA 19428-2959 Phone: (610) 832-9743 Fax: (610) 834-3655 Web: <a href="http://www.astm.org">www.astm.org</a></p>	<p><b>ECA</b> Electronic Components Association 2500 Wilson Blvd, Suite 310 Arlington, VA 22201-3834 Phone: (703) 907-8023 Fax: (703) 875-8908 Web: <a href="http://www.eia.org">www.eia.org</a></p>	<p><b>NSF</b> NSF International 789 N. Dixboro Road Ann Arbor, MI 48105 Phone: (734) 827-6819 Fax: (734) 827-7875 Web: <a href="http://www.nsf.org">www.nsf.org</a></p>
		<p><b>EOS/ESD</b> ESD Association 7900 Turin Rd., Bldg. 3 Rome, NY 13440 Phone: (315) 339-6937 Fax: (315) 339-6793 Web: <a href="http://www.esda.org">www.esda.org</a></p>	

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**SDI (Canvass)**

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**TAPPI**

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**UL**

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# ISO Draft International Standards

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

## Comments

Comments regarding ISO documents should be sent to Karen Hughes, at ANSI's New York offices ([isot@ansi.org](mailto:isot@ansi.org)). The final date for offering comments is listed after each draft.

## Ordering Instructions

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

## **AIRCRAFT AND SPACE VEHICLES (TC 20)**

ISO/DIS 16159, Space systems - Launch pad and integration site - Facility, system and equipment failure analysis - 12/28/2011, \$46.00

## **MEDICAL DEVICES FOR INJECTIONS (TC 84)**

ISO/DIS 10555-1, Intravascular catheters - Sterile and single-use catheters - Part 1: General requirements - 12/31/2011, \$88.00

ISO/DIS 10555-3, Intravascular catheters - Sterile and single-use catheters - Part 3: Central venous catheters - 12/31/2011, \$40.00

## **OPTICS AND OPTICAL INSTRUMENTS (TC 172)**

ISO/DIS 9394, Ophthalmic optics - Contact lenses and contact lens care products - Determination of biocompatibility by ocular study with rabbit eyes - 12/31/2011, \$62.00

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

ISO/DIS 17467-1, Plastics piping systems for the supply of gaseous fuels - Unplasticized polyamide (PA-U) piping systems jointed by solvent cement - Part 1: General - 1/1/2012, FREE

ISO/DIS 17467-3, Plastics piping systems for the supply of gaseous fuels - Unplasticized polyamide (PA-U) piping systems jointed by solvent cement - Part 3: Fittings - 1/1/2012, FREE

## **ROAD VEHICLES (TC 22)**

ISO/DIS 3560, Road vehicles - Frontal fixed barrier or pole impact test procedure - 12/30/2011, \$67.00

## **TEXTILES (TC 38)**

ISO/DIS 1833-26, Textiles - Quantitative chemical analysis - Part 26: Mixtures of melamine and cotton or aramide fibres (method using hot formic acid) - 12/31/2011, \$29.00

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

ISO/IEC FCD 25063, Systems and software engineering - Systems and software product Quality Requirements and Evaluation (SQuaRE) - Common Industry Format (CIF) for usability: Context of use description - 12/31/2011, FREE

ISO/IEC DIS 25064, Systems and software engineering - Software product Quality Requirements and Evaluation (SQuaRE) - Common Industry Format (CIF) for usability: User needs report - 12/31/2011, FREE

# 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

### AIRCRAFT AND SPACE VEHICLES (TC 20)

[ISO 10785:2011](#), Space systems - Bellows - Design and operation, \$80.00

### BUILDING CONSTRUCTION (TC 59)

[ISO 9836:2011](#), Performance standards in building - Definition and calculation of area and space indicators, \$98.00

### GEOGRAPHIC INFORMATION/GEOMATICS (TC 211)

[ISO 19131/Amd1:2011](#), Requirements relating to the inclusion of an application schema and feature catalogue and the treatment of coverages in an application schema, \$16.00

### GLASS IN BUILDING (TC 160)

[ISO 11479-1:2011](#), Glass in building - Coated glass - Part 1: Physical defects, \$57.00

[ISO 11479-2:2011](#), Glass in building - Coated glass - Part 2: Colour of façade, \$57.00

### IRON ORES (TC 102)

[ISO 3087:2011](#), Iron ores - Determination of the moisture content of a lot, \$92.00

### PHOTOGRAPHY (TC 42)

[ISO 18930:2011](#), Imaging materials - Pictorial colour reflection prints - Methods for evaluating image stability under outdoor conditions, \$86.00

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

[ISO 23228:2011](#), Thermoplastics pipes for the conveyance of fluids - Determination of the stress-rupture resistance of moulding materials using plain strain grooved tensile (PSGT) specimens, \$65.00

### REFRACTORIES (TC 33)

[ISO 12677:2011](#), Chemical analysis of refractory products by X-ray fluorescence (XRF) - Fused cast-bead method, \$180.00

### ROAD VEHICLES (TC 22)

[ISO 14572:2011](#), Road vehicles - Round, sheathed, 60 V and 600 V screened and unscreened single- or multi-core cables - Test methods and requirements for basic- and high-performance cables, \$92.00

[ISO 15006:2011](#), Road vehicles - Ergonomic aspects of transport information and control systems - Specifications for in-vehicle auditory presentation, \$86.00

### ROLLING BEARINGS (TC 4)

[ISO 3030:2011](#), Rolling bearings - Radial needle roller and cage assemblies - Boundary dimensions and tolerances, \$65.00

### RUBBER AND RUBBER PRODUCTS (TC 45)

[ISO 188:2011](#), Rubber, vulcanized or thermoplastic - Accelerated ageing and heat resistance tests, \$98.00

[ISO 6224:2011](#), Thermoplastics hoses, textile-reinforced, for general-purpose water applications - Specification, \$57.00

[ISO 6943:2011](#), Rubber, vulcanized - Determination of tension fatigue, \$92.00

### SMALL TOOLS (TC 29)

[ISO 521:2011](#), Machine chucking reamers with cylindrical shanks and Morse taper shanks, \$49.00

[ISO 2296:2011](#), Metal slitting saws with fine and coarse teeth - Metric series, \$43.00

### SOIL QUALITY (TC 190)

[ISO 17512-2:2011](#), Soil quality - Avoidance test for determining the quality of soils and effects of chemicals on behaviour - Part 2: Test with collembolans (*Folsomia candida*), \$80.00

### SPORTS AND RECREATIONAL EQUIPMENT (TC 83)

[ISO 5912:2011](#), Camping tents, \$104.00

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

[ISO 24610-2:2011](#), Language resource management - Feature structures - Part 2: Feature system declaration, \$149.00

### TEXTILES (TC 38)

[ISO 9092:2011](#), Textiles - Nonwovens - Definition, \$37.00

### TOBACCO AND TOBACCO PRODUCTS (TC 126)

[ISO 6565:2011](#), Tobacco and tobacco products - Draw resistance of cigarettes and pressure drop of filter rods - Standard conditions and measurement, \$104.00

### WATER QUALITY (TC 147)

[ISO 13161:2011](#), Water quality - Measurement of polonium 210 activity concentration in water by alpha spectrometry, \$86.00

### WELDING AND ALLIED PROCESSES (TC 44)

[ISO 15792-1/Amd1:2011](#), Welding consumables - Test methods - Part 1: Test methods for all-weld metal test specimens in steel, nickel and nickel alloys - Amendment 1, \$16.00

[ISO 10882-1:2011](#), Health and safety in welding and allied processes - Sampling of airborne particles and gases in the operators breathing zone - Part 1: Sampling of airborne particles, \$129.00

## ISO Technical Specifications

[ISO/IEC TS 29140-1:2011](#), Information technology for learning, education and training - Nomadicty and mobile technologies - Part 1: Nomadicty reference model, \$104.00

[ISO/IEC TS 29140-2:2011](#), Information technology for learning, education and training - Nomadicty and mobile technologies - Part 2: Learner information model for mobile learning, \$104.00

**NANOTECHNOLOGIES (TC 229)**

[ISO/TS 80004-7:2011](#), Nanotechnologies - Vocabulary - Part 7: Diagnostics and therapeutics for healthcare, \$57.00

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

[ISO/IEC 29109-4/Cor1:2011](#), Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 4: Finger image data - Corrigendum 1, FREE

[ISO/IEC 13156:2011](#), Information technology - Telecommunications and information exchange between systems - High rate 60 GHz PHY, MAC and PALs, \$277.00

[ISO/IEC 16353:2011](#), Information technology - Telecommunications and information exchange between systems - Front-end configuration command for NFC-WI (NFC-FEC), \$43.00

[ISO/IEC 16963:2011](#), Information technology - Digitally recorded media for information interchange and storage - Test method for the estimation of lifetime of optical media for long-term data storage, \$122.00

[ISO/IEC 29164:2011](#), Information technology - Biometrics - Embedded BioAPI, \$141.00

[ISO/IEC 19757-5:2011](#), Information technology - Document Schema Definition Languages (DSDL) - Part 5: Extensible Datatypes, \$92.00

[ISO/IEC 19794-6:2011](#), Information technology - Biometric data interchange formats - Part 6: Iris image data, \$98.00

[ISO/IEC 29109-6:2011](#), Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 6: Iris image data, \$65.00

[ISO/IEC 11581-40:2011](#), Information technology - User interface icons - Part 40: Management of icon registration, \$65.00

**IEC Standards****ELECTRIC CABLES (TC 20)**

[IEC 60227-5 Ed. 3.0 b:2011](#), Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 5: Flexible cables (cords), \$117.00

[IEC 60227-7 Amd.2 Ed. 1.0 b:2011](#), Amendment 2 - Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 7: Flexible cables screened and unscreened with two or more conductors, \$26.00

[IEC 60245-3 Amd.2 Ed. 2.0 b:2011](#), Amendment 2 - Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 3: Heat resistant silicone insulated cables, \$19.00

[IEC 60245-4 Ed. 3.0 b:2011](#), Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 4: Cords and flexible cables, \$107.00

[IEC 60245-8 Amd.2 Ed. 1.0 b:2011](#), Amendment 2 - Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 8: Cords for applications requiring high flexibility, \$19.00

**ELECTRICAL ACCESSORIES (TC 23)**

[IEC 61386-25 Ed. 1.0 b:2011](#), Conduit systems for cable management - Part 25: Particular requirements - Conduit fixing devices, \$87.00

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

[IEC 60601-2-31 Ed. 2.1 b:2011](#), Medical electrical equipment - Part 2-31: Particular requirements for the basic safety and essential performance of external cardiac pacemakers with internal power source, \$316.00

**ELECTRICAL INSTALLATIONS FOR THE LIGHTING AND BEACONING OF AERODROMES (TC 97)**

[IEC 61821 Ed. 2.0 b:2011](#), Electrical installations for lighting and beaconing of aerodromes - Maintenance of aeronautical ground lighting constant current series circuits, \$128.00

**ELECTROMECHANICAL COMPONENTS AND MECHANICAL STRUCTURES FOR ELECTRONIC EQUIPMENTS (TC 48)**

[IEC 60603-7 Amd.1 Ed. 3.0 b:2011](#), Amendment 1 - Connectors for electronic equipment - Part 7: Detail specification for 8-way, unshielded, free and fixed connectors, \$26.00

[IEC 60297-3-101 Ed. 1.0 b:2004](#), Mechanical structures for electronic equipment - Dimensions of mechanical structures of the 482,6 mm (19 in) series - Part 3-101: Subracks and associated plug-in units, \$107.00

[IEC 60297-3-102 Ed. 1.0 b:2011](#), Mechanical structures for electronic equipment - Dimensions of mechanical structures of the 482,6 mm (19 in) series - Part 3-102: Injector/extractor handle, \$61.00

[IEC 60512-11-14 Ed. 2.0 b:2003](#), Connectors for electronic equipment - Tests and measurements - Part 11-14: Climatic tests - Test 11p: Flowing single gas corrosion test, \$31.00

[IEC 61076-4-113 Ed. 1.0 b:2002](#), Connectors for electronic equipment - Printed board connectors - Part 4-113: Detail specification for two-part connectors having 5 rows with a grid of 2,54 mm for printed boards and backplanes in bus applications, \$158.00

**FIRE HAZARD TESTING (TC 89)**

[IEC 60695-11-4 Ed. 1.0 b:2011](#), Fire hazard testing - Part 11-4: Test flames - 50 W flame - Apparatus and confirmational test method, \$107.00

**FLAT PANEL DISPLAY DEVICES (TC 110)**

[IEC/TR 62728 Ed. 1.0 en:2011](#), Display technologies - LCD, PDP and OLED - Overview and explanation of differences in terminology, \$56.00

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

[IEC 60929 Ed. 4.0 b Cor.1:2011](#), Corrigendum 1 - AC and/or DC-supplied electronic control gear for tubular fluorescent lamps - Performance requirements, \$0.00

[IEC 61347-2-3 Ed. 2.0 b Cor.1:2011](#), Corrigendum 1 - Lamp control gear - Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps, \$0.00

**OTHER**

[IECEE 01 Ed. 13.0 en:2011](#), IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE) - Basic Rules, \$0.00

[IECEX 60079-11-5B1 Ed. 5.0 en:2011](#), IECEx Test Report for IEC 60079-11 (2006) ed 5.0 - Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i", \$128.00

[IECEX 60079-11-5B2 Ed. 5.0 en:2011](#), IECEx Test Report for IEC 60079-11 (2006) ed 5.0 - Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i", \$128.00

## **OVENS AND MICROWAVE OVENS, COOKING RANGES AND SIMILAR APPLIANCES (TC 59K)**

[IEC 60704-2-10 Ed. 2.0 b:2011](#), Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-10: Particular requirements for electric cooking ranges, ovens, grills, microwave ovens and any combination of these, \$61.00

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

[IEC 60456 Ed. 5.0 en Cor.1:2011](#), Corrigendum 1 - Clothes washing machines for household use - Methods for measuring the performance, \$0.00

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

[IEC 61850-9-2 Ed. 2.0 b:2011](#), Communication networks and systems for power utility automation - Part 9-2: Specific communication service mapping (SCSM) - Sampled values over ISO/IEC 8802-3, \$143.00

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

[IEC 60086-3 Ed. 3.0 en Cor.1:2011](#), Corrigendum 1 - Primary batteries - Part 3: Watch batteries, \$0.00

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

[IEC 60335-2-23 Ed. 5.0 b:2003](#), Household and similar electrical appliances - Safety - Part 2-23: Particular requirements for appliances for skin or hair care, \$97.00

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

[IEC/IEEE/PAS 63547 Ed. 1.0 en:2011](#), Interconnecting distributed resources with electric power systems, \$143.00

## **SURFACE MOUNTING TECHNOLOGY (TC 91)**

[IEC/PAS 61249-6-3 Ed. 1.0 en:2011](#), Specification for finished fabric woven from "E" glass for printed boards, \$117.00

## **TERMINOLOGY (TC 1)**

[IEC 60050-113 Ed. 1.0 b Cor.1:2011](#), Corrigendum 1 - International Electrotechnical Vocabulary - Part 113: Physics for electrotechnology, \$0.00

## **IEC Technical Specifications**

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

[IEC/TS 62351-8 Ed. 1.0 en:2011](#), Power systems management and associated information exchange - Data and communications security - Part 8: Role-based access control, \$179.00

# Registration of Organization Names in the United States

The Procedures for Registration of Organization Names in the United States of America (document ISSB 989) require that alphanumeric organization names be subject to a 90-day Public Review period prior to registration. For further information, please contact the Registration Coordinator at (212) 642-4946.

The following is a list of alphanumeric organization names that have been submitted to ANSI for registration. Alphanumeric names appearing for the first time are printed in bold type. Names with confidential contact information, as requested by the organization, list only public review dates.

## PUBLIC REVIEW

FMI Medical Systems, Inc.

Public Review: July 22 to October 14, 2011

### **Viewray**

Public Review: October 7, 2011 to January 3, 2012

NOTE: Challenged alphanumeric names are underlined. The Procedures for Registration provide for a challenge process, which follows in brief. For complete details, see Section 6.4 of the Procedures.

A challenge is initiated when a letter from an interested entity is received by the Registration Coordinator. The letter shall identify the alphanumeric organization name being challenged and state the rationale supporting the challenge. A challenge fee shall accompany the letter. After receipt of the challenge, the alphanumeric organization name shall be marked as challenged in the Public Review list. The Registration Coordinator shall take no further action to register the challenged name until the challenge is resolved among the disputing parties.

# Proposed Foreign Government Regulations

## Call for Comment

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

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

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

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



# Information Concerning

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## American National Standards

### INCITS Executive Board

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

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

The INCITS Executive Board serves as the consensus body with its oversight of programs of its 30+ Technical Committees. Additionally, the INCITS Executive Board exercises international leadership in its role as the US Technical Advisory Group (TAG) to ISO/IEC JTC 1, Information Technology.

The INCITS Executive Board seeks to broaden its membership base and is recruiting new participants in all membership categories:

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

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

### Call for Members

#### Society of Cable Telecommunications

##### ANSI Accredited Standards Developer

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

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

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

### Withdrawal by ANSI-Accredited Standards Developer

#### ANSI/UL 786-2006

In accordance with 4.2.1.3.2 of ANSI Essential Requirements, Underwriters Laboratory (UL) is withdrawing ANSI/UL 786-2006, Key-Locked Safes (Class KL). This standard is based on outdated technology and UL will no longer maintain the standard or its ANSI approval.

## ANSI-ASQ National Accreditation Board (ANAB)

### ISO 20000-1 Information Technology Service Management Systems

#### Notice of Accreditation

#### Certification Body

#### CEPREI Certification Body

The ANSI-ASQ National Accreditation Board is pleased to announce that the following certification body has earned ANAB accreditation for ISO 22000-1 Information Technology Service Management Systems:

#### CEPREI Certification Body

No. 110, Dongguanzhuang Road, PO Box 1501-33  
Guangzhou GD 510610 China

[www.ceprei.org](http://www.ceprei.org)

Dandan Zheng

PHONE: 86 20 87236230

E-mail: [cepreizdd@163.com](mailto:cepreizdd@163.com)

#### Public Comments Sought

#### Revised ANAB Accreditation Rule 29, Accreditation Program for the Aerospace ICOP Program—AS9100, AS9110, and AS9120

##### Comment Deadline: November 6, 2011

Public comments are sought on revised ANAB Accreditation Rule 29, Accreditation Program for the Aerospace ICOP Program—AS9100, AS9110, and AS9120. Interested parties are invited to login to EQM at <http://anab.remoteauditor.com/> to download the document and comment on public ballot 975. (Note: A username and password are required. If you do not have a username and password for EQM, go to [http://www.anab.org/UserRegistration/WebBallotUsers\\_Registration.aspx](http://www.anab.org/UserRegistration/WebBallotUsers_Registration.aspx).) Please submit your comments no later than November 6, 2011.

#### Revised ANAB Accreditation Rule 34, Accreditation Program for Responsible Recycling Certification

##### Comment Deadline: November 6, 2011

Public comments are sought on revised ANAB Accreditation Rule 34, Accreditation Program for Responsible Recycling Certification. Interested parties are invited to login to EQM at <http://anab.remoteauditor.com/> to download the document and comment on public ballot 976. (Note: A username and password are required. If you do not have a username and password for EQM, go to [http://www.anab.org/UserRegistration/WebBallotUsers\\_Registration.aspx](http://www.anab.org/UserRegistration/WebBallotUsers_Registration.aspx).) Please submit your comments no later than November 6, 2011.



# ANSI Accreditation Program for Third Party Product Certification Agencies

## Initial Application

### WQS Certificações de Produtos Ltda. (WQS)

**Comment Deadline: November 7, 2011**

Mr. Valmir Luis Martins Rodrigues Maria, CEO  
**WQS Certificações de Produtos Ltda. (WQS)**  
Av. Dep. Dante Delmanto,  
2660, Vila Paulista,  
Botucatu - SP – Brasil  
E-mail: valmir@wqs.com.br

WQS Certificações de Produtos Ltda. (WQS), has applied for ANSI accreditation for the following:

#### **BRC Global Standard for Food Safety**

- Category 01: Raw Red Meat
- Category 02: Raw Poultry
- Category 03: Raw Prepared Products (Meat and Vegetarian)
- Category 04: Raw Fish Products and Preparations
- Category 05: Fruits, Vegetables and Nuts
- Category 06: Prepared Fruit, Vegetables and Nuts
- Category 07: Dairy, Liquid Egg
- Category 08: Cooked Meat/Fish Products
- Category 09: Raw Cured and/or Fermented Meat and Fish
- Category 10: Ready Meal and Sandwiches; Ready to Eat Desserts
- Category 11: Low/High Acid Cans/Glass
- Category 12: Beverages
- Category 13: Alcoholic Drinks and Fermented/Brewed Products
- Category 14: Bakery
- Category 15: Dried Foods and Ingredients
- Category 16: Confectionery
- Category 17: Cereals and Snacks
- Category 18: Oils and Fats

#### **International Food Standard V. 5**

- Product Category 1: Egg
- Product Category 2: Red Meat – Chilled and Frozen
- Product Category 3: Poultry – Chilled and Frozen
- Product Category 4: Fish – Chilled and Frozen
- Product Category 5: Fruits and Vegetables (produce)
- Product Category 6: Dairy
- Product Category 7: Meat Products and preparations
- Product Category 8: Fish Products and preparations
- Product Category 9: Ambient stable hermetically sealed products (canned products)

- Product Category 10: Ready to eat
- Product Category 11: Beverages
- Product Category 12: Bakery and Baked products
- Product Category 13: Dried goods
- Product Category 14: Confectionary
- Product Category 15: Snacks and Breakfast cereals
- Product Category 16: Oils and Fats
- Product Category 17: Food ingredients
- Product Category 18: Co-Packers (Co-Packing and Handling)

Please send your comments by November 7, 2011 to Reinaldo Balbino Figueiredo, Senior Program Director, Product Certifier Accreditation, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036, FAX: (202) 293 9287 or e-mail: rfigueir@ansi.org, or Nikki Jackson, 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.

## Scope Extension

### NSF International

**Comment Deadline: November 7, 2011**

Mr. Craig Morr, Director, Quality,  
**NSF International**  
789 Dixboro Road  
Ann Arbor, MI 48105  
PHONE: (734) 769-8010  
FAX: (734) 769-0109  
E-mail: cmorr@nsf.org

NSF International, an ANSI-accredited certification body, has requested to extend its scope of ANSI accreditation to include the following:

#### **Global Aquaculture Alliance**

- SPS Food Safety Management Component, Issue 2  
Revision 1 November 2009

Please send your comments by November 7, 2011 to Reinaldo Figueiredo, Senior Program Director, Product Certification Accreditation, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036.

You may fax any comments to (202) 293 9287 or E-mail Reinaldo Figueiredo (rfigueir@ansi.org) or Nikki Jackson, Program Manager (njackson@ansi.org).

## Meeting Notices

### ASC Z133 – Arboricultural Operations – Safety Requirements

The next business meeting of the Accredited Standards Committee Z133 (ANSI Standard for Arboricultural Operations —Safety Requirements) will take place on October 12, 2011, at Embassy Suites BWI, Baltimore, Maryland. The committee will discuss proposed revisions to the Z133 Standard. For more information, please contact Janet Huber at the International Society of Arboriculture, ASC Z133 Secretariat, by phone (217) 355-9411, ext. 259, or by e-mail jhuber@isa-arbor.com.

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## NSF/ANSI - 49

### Biosafety Cabinetry: Design, Construction, Performance, and Field Certification

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#### 5.2 Canopy Connect exhaust

Type A1 or A2 cabinets may be connected to an exhaust system via a canopy connection and exhausted by a remote fan. The external exhaust shall draw air sufficient to capture using a visible medium to verify all exhaust from the BSC is captured and to maintain a flow of air into the exhaust connection through the openings or gaps. The flow of air through the openings or gaps provides a buffer between the BSC exhaust and variation in the external exhaust system assuring consistent BSC performance and/or containment of volatile chemicals used in the BSC. Properly sized canopy openings or gaps also provide enough relief open area, so that if the cabinet facility (external) exhaust system fails, the BSC will continue to function (maintain inflow velocity above the lowest level as verified by NSF biological testing) as if it was not connected to an exhaust system and continue to provide biological and particulate containment only. The canopy connection type of BSC exhaust connection is required for externally vented Class II, type A1 or A2 BSCs.

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#### 5.23.4 Type A1 or A2 exhaust alarm

Type A1 or A2 cabinets may be connected to an exhaust system via a canopy connection and exhausted by a remote fan. Once the cabinet and canopy is set or certified in its acceptable airflow range, audible and visual alarms shall be required to indicate within 15 seconds a loss of capture of room air using a visible medium to verify at the canopy air intake(s). The cabinet fan(s) must remain in operation when the alarm is activated.

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## 4.2 Prerequisites

Each category has one or more prerequisites that are required, as the minimum performance against the Standard. Users shall meet all prerequisites in each category in order to proceed. Once all prerequisites are met, users may achieve additional credit points toward multiple levels of achievement in each category by meeting specified performance requirements. Prerequisites include:

- For Public Health and Environment:
  - 6.2.1 Feedstock inventory documentation;
  - 6.2.2 Input PBT chemicals and other chemicals of concern;
  - 6.3.1 PBDE flame retardants; and
  - 6.3.2 Minimization of indoor air VOC emissions (prerequisite for Gold and Platinum).
- For Energy and Energy Efficiency:
  - 7.2.1 Inventory of electrical and thermal energy.
- For Bio-Based Content, Recycled Content, and environmentally preferable (EPP) Materials:
  - 8.2 Materials content inventory; and
  - 8.2.1 Bio-based content, recycled content, and environmentally preferable (EPP) materials (prerequisite for platinum).
- For Manufacturing:
  - 9.2.1 Policy, EMS, and publicly available targets;
  - 9.2.2 Manufacturer's social indicator reporting;
  - 9.3 Performance durability; and
  - 9.4 LCA for product platform undergoing assessment (prerequisite for Platinum).
- For Reclamation and End of Life Management:
  - 10.2.1 Operational reclamation program (prerequisite for platinum);
  - 10.2.2 Extended product life (prerequisite for Platinum); and
  - 10.2.3 Product reclamation.

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### 10.2.2 Prerequisite Extended product life (prerequisite for platinum)

Customer adherence to recommended installation, cleaning, and other maintenance procedures directly affects the service life of a carpet product. Manufacturers influence customer adherence through the direct provision of the recommended installation and maintenance procedures for a carpet product. These procedures may be manufacturer-specific or may refer to existing available industry procedures.

A manufacturer shall receive one point for carpet installed using CRI 104 and/or manufacturers' recommended procedures. In addition, carpet manufacturers and dealers shall recommend to the customer in writing that CRI Carpet Maintenance Guidelines and/or recommended manufacturer maintenance procedures be followed.

***Reason: This will now be a prerequisite for all levels of certification.***

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**Issue 17, Revision 2 (September 2011)**

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**Table 12 – Sustainability assessment for carpet matrix  
(Prerequisites in bold)**

Public health and environment (PHE) 30 points	Energy and energy efficiency (EN) 20 points	Bio-based content, recycled content, and EPP materials (MATLS) 22 points	Manufacturing (MFG) 17 points	Reclamation and End of life management (EOL) 25 points
<p><b>6.2.1: Feedstock inventory documentation [1 pt]</b></p> <p><b>6.2.2: Input PBT chemicals and other chemicals of concern [1 pt]</b></p> <p><b>6.3.1: PBDE Flame retardants [1 pt]</b></p> <p><b>6.3.2: Minimization of indoor VOC emissions [1 pt] (prerequisite for gold and for platinum)</b></p> <p><b>6.3.3.1: Inventory of air, water, and waste (media) pollutants [4 pts]</b></p> <p><b>6.3.3.2: Output PBT emissions and emissions from other chemicals of concern [1 pt]</b></p> <p><b>6.3.3.3.1: Voluntary pollutant reductions beyond compliance beyond compliance, 1986-1999</b></p> <p style="text-align: center;">–OR–</p> <p><b>6.3.3.3.2: Pollutant and toxic chemical reductions through LCA, 1986-1999 [8 pts for</b></p>	<p><b>7.2.1: Inventory of electrical and thermal energy [1 pt]</b></p> <p><b>7.2.2: Manufacturer's use of renewable energy and/or energy reduction [12 pts]</b></p> <p><b>7.2.3: Suppliers' use of renewable energy [6 pts]</b></p> <p><b>7.2.4: Greenhouse gas emissions inventory [1 pt]</b></p>	<p><b>8.2: Materials content inventory [2 pts]</b></p> <p><b>8.2.1: Bio-based content, recycled content, and EPP materials [20 pts]</b></p> <p><b>8.2.1: 10% post-consumer recycled content (prerequisite for platinum)</b></p>	<p><b>9.2.1: Policy, EMS, and publicly available targets [1 pt]</b></p> <p><b>9.2.2: Manufacturer's social indicator reporting [1 pt]</b></p> <p><b>9.3: Performance durability [1 pt]</b></p> <p><b>9.4: LCA for product platform undergoing assessment [3 pts] (prerequisite for platinum)</b></p> <p><b>9.5: EMS Certification [2 pts]</b></p> <p><b>9.6: Suppliers' social indicator reporting [1 pt]</b></p> <p><b>9.7.1 Documented QMS [1 pt]</b></p> <p><b>9.7.2 ISO 9001 QMS certification [1 pt]</b></p> <p><b>9.8 DfE and/or LCA process [3 pts]</b></p> <p><b>9.9.1 Documented and operational waste minimization or waste reduction program</b></p>	<p><b>10.2.1: Operational reclamation program [1 pt]</b></p> <p><b>10.2.2: Extended product life [1 pt] (prerequisite for platinum)</b></p> <p><b>10.2.3: Product reclamation [17 pts] (At time of publication, 10% reclamation and recycling is a prerequisite for Platinum, consistent with CARE goals. Check CARE website for subsequent years' goals.)</b></p> <p><b>10.3: Transparent secondary materials reclamation system</b></p>

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Public health and environment (PHE) 30 points	Energy and energy efficiency (EN) 20 points	Bio-based content, recycled content, and EPP materials (MATLS) 22 points	Manufacturing (MFG) 17 points	Reclamation and End of life management (EOL) 25 points
<p>either/or]</p> <p><b>6.3.3.4:</b> Reduction of specified life cycle impact categories (for the years 2000-present) [8 pts]</p> <p><b>6.3.4:</b> Minimization of indoor air carcinogenic VOC emissions [1 pt]</p> <p><b>6.3.5.1:</b> Minimization of indoor formaldehyde emissions [1pt]</p> <p><b>6.3.5.2.1:</b> Supplier's material and process inputs present at 1% [1 pt]</p> <p><b>6.3.5.2.2:</b> PBTs released as process outputs [1 pt]</p> <p><b>6.3.5.3.3:</b> PBTs used in materials or process inputs [1 pt]</p>			<p>[1 pt]</p> <p><b>9.9.2</b> Waste minimization</p> <p>–OR–</p> <p><b>9.9.3</b> Waste reduction [2 pts for either/or]</p>	<p>[2 pts]</p> <p><b>10.4:</b> Transparent materials reclamation system [2 pts]</p> <p><b>10.5:</b> Transparent repurposed materials reclamation system [2 pts]</p>

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## Sustainability Assessment for Carpet

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**3.x environmentally preferable product (EPP):** A product that has a lesser or reduced effect on human health and the environment when compared with competing products and services that serve the same purpose (Executive Order 13101, 1998). This comparison applies to raw materials, manufacturing, packaging, distribution, use, reuse, operation, maintenance, and disposal. Environmentally preferable products may possess more than one environmentally friendly attribute.

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### 6.3.3.3.2 Pollutant and toxic chemicals reduction through LCA

As an alternative to 6.3.3.3.1, if a manufacturer has LCA data available for the years 1986-1999, the manufacturer may document an average reduction of toxic chemicals and media pollutants, per unit of production, in at least six of the following environmental life cycle impact categories:

- global warming;
- ozone depletion;
- acidification;
- eutrophication;
- photochemical smog;
- human health;
- fossil fuel depletion;
- criteria air pollutants;
- ecological toxicity; and
- solid and hazardous waste.

Of these categories, global warming shall be included as one of the six impact categories at each range indicated in Table 6.2 before additional points shall be awarded.

***Reason: The above section was included for reference only.***

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## 8 Bio-based content, recycled content, and environmentally preferable (EPP) materials (MATLS)

### 8.1 Scope

This section documents use of bio-based content, recycled content and other environmentally preferable materials. To be awarded points, progressively higher levels of these materials are required. A material can only be awarded points in one of the following categories: 8.3.1, 8.3.2 or 8.3.3.

~~This category requires progressively higher levels of bio-based, recycled content, or EPP materials. Bio-based materials are defined in 3.2. Recycled materials are measured by percent recycled content by total product weight. Environmentally preferable materials are defined in 3.9. For this section, EPP materials may earn points comparable to bio-based or recycled materials up to the 25% level. Higher achievement levels require progressively higher levels of bio-based materials and recycled content. This category contains achievement levels ranging from simple inventorying of bio-based, recycled content and EPP materials, to requiring substantial percent of bio-based and recycled materials at high levels.~~

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### 8.1.1 Measurement

Determination and allocation of bio-based content, recycled content, and EPP materials shall be an annual average determined from documented plant operations and purchases of the ratio of bio-based, recycled, or EPP content to the total annual mass of carpet produced. This applies only to products that are to be assessed regarding the level of bio-based, recycled, or EPP content.

The bio-based, recycled, and EPP content shall be determined for all products in a product platform. Recycled materials are measured by the percent of post-industrial/pre-consumer ~~(see 3.42.2)~~ or post-consumer materials (see section 3, definitions 3.42.4) by weight. Bio-based and EPP content are measured in the same manner. This percentage is calculated by dividing the weight of the bio-based, recycled, or EPP content by the total weight of the finished product functional unit (e.g., one square yard for carpet) and multiplying by 100, as in the following formula.

$$[(\text{bio-based, recycled, and/or EPP content weight}) / (\text{total product weight})] \times 100$$

### 8.2 Materials content inventory (prerequisite)

A manufacturer shall receive two points for documenting the bio-based, recycled, and EPP content. Recycled content shall be classified by post-industrial/pre-consumer or post-consumer materials in accordance with ISO 14021 and the FTC Environmental Marketing Guides.

### 8.3 Materials

#### ~~8.2.1 Bio-based content, recycled content, and environmentally preferable (EPP) materials~~

A manufacturer shall document that a percentage of the material feedstock is composed of bio-based content, recycled content, or other EPP materials. EPP materials used in the product are designated as preferred utilizing an ISO 14040 compliant LCA when compared to the product being replaced. ~~or other reasonable method~~ For recycled content materials, post-industrial/pre-consumer content shall be considered at 50% ~~in a ratio of 1:2, to post-consumer content materials~~ post consumer shall be considered at 100%, and post consumer carpet content shall be considered at 150%. EPP and bio-based materials shall be considered at 100%.

A maximum of 20 points shall be awarded for demonstrating compliance with this section in accordance with Table 8.2.

#### 8.3.1 Bio-based materials

Verification of bio-based materials shall be through formula review, supplier letters and purchasing records OR ASTM D6866 testing report.

NOTE - ASTM test method, D6866, measures the  $^{14}\text{C}/^{12}\text{C}$  ratio in a chemical and directly compares it to an NIST standard reference material that is made up of 100% bio-based material to determine the percent bio-based carbon in the analyzed chemical. A bio-based carbon content can be calculated by counting the organic carbons in a molecule that come from a bio-based source and dividing it by the total number of organic carbons in that molecule.

#### 8.3.2 Recycled content

Verification of recycled content shall be through formula review, supplier letter(s) and purchasing records.

#### Table 8.1



Tracking #140i19r1  
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Revision to NSF/ANSI 140 – 2010  
Issue 19, Revision 1 (September 2011)

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Content Type	Content Detail	Percent	Factor	Contribution %
Recycled Material	Pre-Consumer		0.5	
	Post-Consumer		1	
	Post-Consumer carpet content		1.5	
Bio-based Material	Bio-based		1	
EPP	Environmentally Preferred Material		1	
			<b>Total</b>	

Table 8.21 – Points awarded for manufacturer’s use of bio-based, recycled content, or EPP materials

Bio-based content, recycled content, or EPP <sup>1</sup> materials feedstock total percent contribution	Points awarded
≥ 5%	2
≥ 10% OR ≥ 10% post-consumer recycled content <sup>1</sup>	3
≥ 15%	4
≥ 20%	5
≥ 25%	6
≥ 30%	7
≥ 35%	8
≥ 40%	9
≥ 45%	10
≥ 50%	11
≥ 55%	12
≥ 60%	13
≥ 65%	14
≥ 70%	15
≥ 75%	16
≥ 80%	17
≥ 85%	18
≥ 90%	19
≥ 95%	20

<sup>1</sup>EPP materials are awarded points up to 25% only.  
<sup>1</sup> 10% post-consumer recycled content is a prerequisite for Platinum.

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## Sustainability Assessment for Carpet

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### 4.7 Boundaries

The boundaries for this Standard are shown in Annex A, Figure A1 and Annex B, Figure B1. Boundaries for each credit are specified within the section. Annex B, Figure B1 is for first tier suppliers. First tier suppliers are delineated as those that cross the boundary in Figure B1 and within the box are the manufacturing facilities. Annex A, Figure A1 is a full life cycle of the carpet product – cradle to grave.

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### 6.3.3 Baselines for pollutant reductions and metrics

The boundary for this credit shall be Annex B, Figure B1. This section utilizes two different baseline calculations and the reductions against those baselines. The first baseline and calculation are intended to award early action for efforts to reduce pollutants prior to the year 2000. This baseline and calculation can be found in 6.3.3.3.

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#### 6.3.3.1 Inventory of air, water and waste (media) pollutants

The boundary for this credit shall be Annex B, Figure B1. A manufacturer shall receive four points for reporting year 2000 process outflow data (emissions) for compliant products or product lines for the following environmental categories listed in the BEES Please User Questionnaire:

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#### 6.3.3.2 Output PBT emissions and emissions from other chemicals of concern

The boundary for this credit shall be Annex B, Figure B1. A manufacturer shall receive one point for documenting that it does not have any PBT emissions at or above USEPA CERCLA reportable quantities as described in Annex B, Table B.1.

#### 6.3.3.3 Reduction of toxic chemicals and media pollutants (for the years 1986-1999)

The boundary for this credit shall be Annex B, Figure B1. A manufacturer shall document pollution reductions beyond federal, state, or local regulatory compliance from 1986-1999 through the manufacturer's environmental management system (EMS) or an ISO 14040 compliant LCA. The baseline is 1986-1999 data (the baseline year may be selected based on year and availability) derived from a manufacturer EMS or ISO 14040 compliant LCA.

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#### 6.3.3.3.1 Voluntary pollutant reductions beyond compliance

The boundary for this credit shall be Annex B, Figure B1. A manufacturer may document voluntary pollutant reductions beyond federal, state, or local regulatory compliance from 1986-1999 for the following categories at each range identified in Table 6.1:

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#### 6.3.3.3.2 Pollutant and toxic chemicals reduction through LCA

The boundary for this credit shall be Annex B, Figure B1. As an alternative to 6.3.3.3.1, if a manufacturer has LCA data available for the years 1986-1999, the manufacturer may document an average reduction of toxic chemicals and media pollutants, per unit of production, in at least six of the following environmental life cycle impact categories:

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#### 6.3.3.4 Reduction of specified life cycle impact categories (for the years 2000-present)

The boundary for this credit shall be Annex A, Figure A1. A manufacturer may achieve an average reduction in at least six of the environmental life cycle impact categories identified in Table 6.3.

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#### **6.3.4 Minimization of indoor carcinogenic VOC emissions**

The boundary for this credit shall be Annex B, Figure B1. A manufacturer may earn one point for meeting this requirement. Carcinogenic or reproductive toxicant VOCs shall not emit from products at levels above the Safe Exposure Levels (SELs) as described in section 8.2 of CA/DHS/EHLB/R-174. CRI Green Label Plus VOC testing data may be used to perform the calculations for meeting this requirement pursuant to Standard Practice 174 including in 6.3.2 cited above.

#### **6.3.5 Reduction in chemical and pollutant emissions**

##### **6.3.5.1 Minimization of indoor formaldehyde emissions**

The boundary for this credit shall be Annex B, Figure B1. A manufacturer may earn one point for meeting this requirement. The maximum concentration for formaldehyde emitted at 96 h in emissions tests (following a 10-d conditioning period), shall not result in a modeled indoor air concentration greater than half the chronic reference exposure level (CREL) established by California Office of Environmental Health Hazard Assessment (OEHHA). Testing shall be in accordance with CA/DHS/EHLB/R-174. Test results in accordance with Green Label Plus methodology (e.g. 24 h test results) for formaldehyde should be below a modeled concentration of 16  $\mu\text{g}/\text{m}^3$  at 24 h to ensure that formaldehyde emissions would not exceed the  $\frac{1}{2}$  CREL of 4.5  $\mu\text{g}/\text{m}^3$  after 10-d conditioning and at 96 h.

##### **6.3.5.2 Document restrictions on supply chain PBT chemicals and other chemicals of concern**

###### **6.3.5.2.1 Supplier's material and process inputs present at 1%**

The boundary for this credit shall be Annex B, Figure B1. A manufacturer shall receive one point for obtaining documentation from suppliers one step upstream of the life cycle manufacturing boundaries (see Annex B, Figure B1) that identifies all material and process inputs present at 1% (10 parts per thousand) or greater of the incoming raw materials including materials identified as PBT per Annex B. This shall apply to the incoming raw materials that result in 1% or greater of the final product.

###### **6.3.5.2.2 PBTs released as process outputs**

The boundary for this credit shall be Annex B, Figure B1. A manufacturer shall receive one point for obtaining documentation from suppliers one step upstream of the life cycle manufacturing boundaries (see Annex B, Figure B1) demonstrating that PBT chemicals and other chemicals of concern are not released as process outputs (emissions) at the point of manufacture at or above CERCLA reportable quantity (RQ) reporting thresholds. The manufacturer shall document that suppliers within the manufacturing boundaries do not have PBT emissions at or above the reporting thresholds described in Annex B.

###### **6.3.5.2.3 PBTs used in materials or process inputs**

The boundary for this credit shall be Annex B, Figure B1. A manufacturer shall receive one point for obtaining documentation from suppliers one step upstream of the life cycle manufacturing boundaries (see Annex B, Figure B1) that demonstrates that PBT chemicals and other chemicals of concern are not used in supply chain materials and that process inputs are below TRI reporting thresholds, and documenting that suppliers' PBT emissions are below reporting thresholds as described in Annex B.

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#### **7.2.1 Inventory of electrical and thermal energy (prerequisite)**

The boundary for this credit shall be Annex B, Figure B1. For the manufacturing facility only, the manufacturer shall receive one point for documenting 100% of production electrical and thermal energy requirements. Thermal energy is energy such as heat or steam for industrial, commercial, heating, or cooling purposes, including through the sequential use of energy. For onsite-generated energy, the manufacturer shall identify the fuel type (e.g., natural gas, diesel oil, fuel oil, bauxite coal). For offsite-generated energy (e.g., supplied electricity), the manufacturer shall document the percent of energy derived from renewable versus non-renewable sources.

#### **7.2.2 Manufacturer's use of renewable energy and/or energy reduction**

##### **7.2.2.1 Documented percentage of renewable energy and/or energy reduction**

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The boundary for this credit shall be Annex B, Figure B1. For the manufacturing facility only, the manufacturer shall earn points by documenting that a percentage of the total production energy requirements (electrical and thermal) is derived from renewable energy sources meeting Green-e requirements and/or that the manufacturing facility has reduced energy use by a documented percentage. For renewable energy, conformance to this criterion may be demonstrated by the use of on-site owner-generated renewable energy meeting Green-e requirements, renewable energy supplied from offsite sources meeting Green-e requirements, or certified Green-e Power or certified Green-e Tradable Renewable Certificates<sup>1</sup>.

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### 7.2.3 Suppliers' use of renewable energy

The boundary for this credit shall be Annex B, Figure B1. A manufacturer shall receive points for obtaining documentation from suppliers of materials present in the finished product at 1% or greater that lists the total production energy (electrical and thermal) derived from renewable energy sources meeting Green-e requirements used by the suppliers. Conformance to this criterion can be demonstrated by the use of on-site owner-generated renewable energy meeting Green-e requirements, renewable energy supplied from off site sources meeting Green-e requirements, or certified Green-e Power or certified Green-e Tradable Renewable Certificates. The renewable energy sources shall meet Green-e requirements.

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### 7.2.4 Greenhouse gas emissions inventory

The boundary for this credit shall be Annex B, Figure B1. For the manufacturing facility, a manufacturer shall receive one point for documenting reductions in greenhouse gas emissions resulting from energy use. The manufacturer shall calculate reductions in greenhouse gas emissions resulting from use of renewable energy and/or from energy reduction.

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## 8.2 Materials content inventory (prerequisite)

The boundary for this credit shall be Annex B, Figure B1. A manufacturer shall receive two points for documenting the bio-based, recycled, and EPP content. Recycled content shall be classified by post-industrial/pre-consumer or post-consumer materials in accordance with ISO 14021 and the FTC Environmental Marketing Guides.

### 8.2.1 Bio-based content, recycled content, and environmentally preferable (EPP) materials

The boundary for this credit shall be Annex B, Figure B1. A manufacturer shall document that a percentage of the material feedstock is composed of bio-based content, recycled content, or EPP materials. Bio-based content, recycled content, or EPP materials used in the product are designated as preferred utilizing an ISO 14040 compliant LCA or other reasonable method. For recycled content materials, post-industrial/pre-consumer content shall be in a ratio of 1:2 to post-consumer content materials.

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## 9.2 Manufacturer's environmental policy, EMS, and social indicator reporting

This section's boundary is described as a corporate boundary. The corporate boundary shall apply when a process in Annex B, Figure B1 is completed under control by the manufacturer.

### 9.2.1 Policy, EMS, and publicly available targets (prerequisite)

A manufacturer shall receive one point for documenting a formal environmental policy and EMS and publicly declaring its environmental targets, objectives, and metrics pursuant to ISO 14001. Public declaration shall be via the manufacturer's web site or the manufacturer's publicly available annual report.

### 9.2.2 Manufacturer's social indicator reporting (prerequisite)

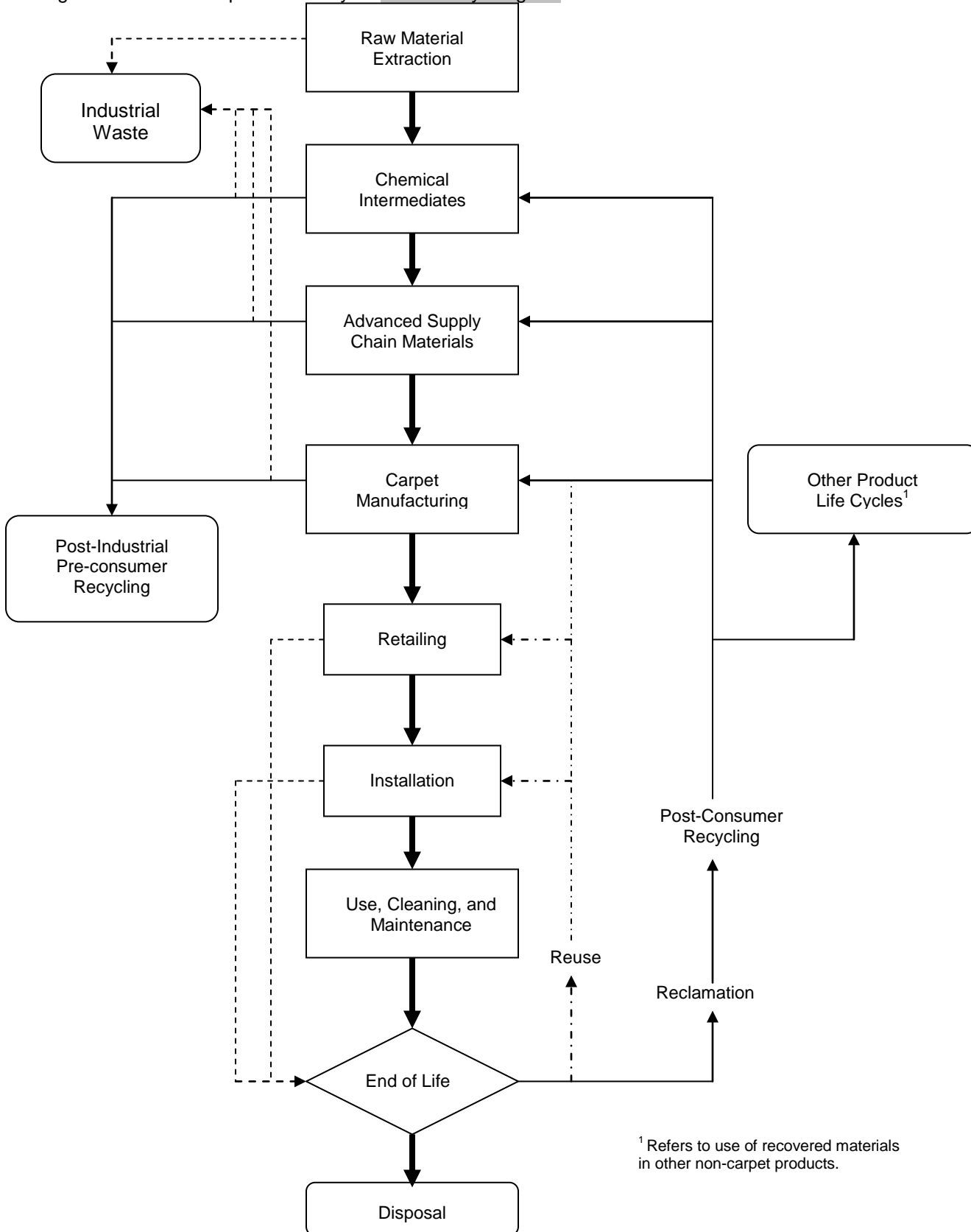
A manufacturer shall receive one point for reporting the social indicator metrics shown in Table 9.1. The reporting of employment information required in Table 9.1 shall be made by either a detailed breakdown or general summary of compliance.

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<sup>1</sup> Information on the Green-e Tradeable Renewable Certificates can be found at <[www.green-e.org/what\\_is/dictionary/trc.html](http://www.green-e.org/what_is/dictionary/trc.html)>.

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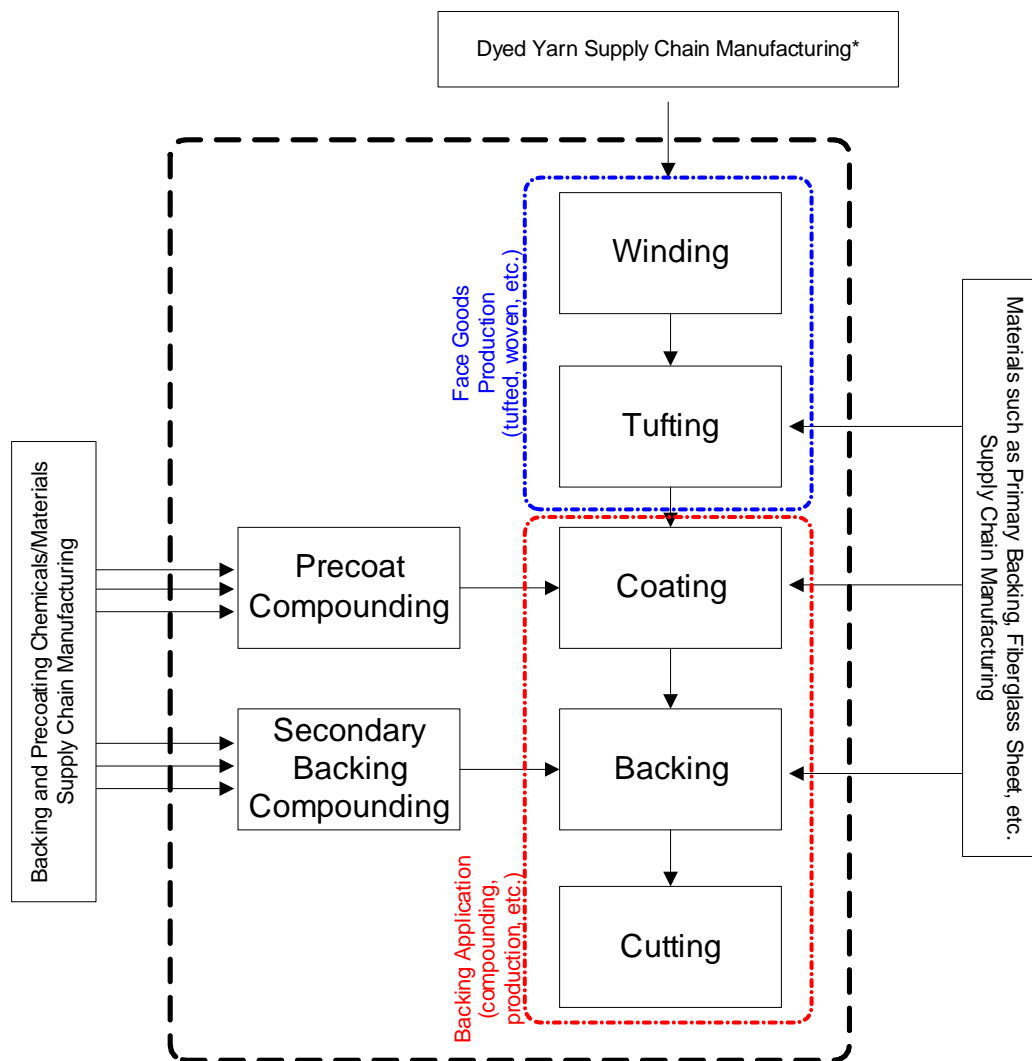
Figure A.1 – General product life cycle – Boundary Diagram



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Figure B.1 – Life cycle credit boundaries for the purposes of toxics and social indicator reporting (T&SR)



\*For white dyeable yarn, the dyeing processes done in the manufacturing facility must be accounted for on a mass and energy basis.

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## Sustainability Assessment for Carpet

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### 4.8 Regulations and Standards

All references to U.S. based regulations and standards cited in this Standard apply equally to all organizations seeking certification and to those organizations that contribute information to support the certification of another organization. This application includes but is not limited to non-domestic manufacturers, non-domestic suppliers, and to non-domestic material inputs.

*Reason: This addresses the issue paper 2009-9 regarding applicability of regulations.*

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#### 6.3.3.1 Inventory of air, water and waste (media) pollutants

A manufacturer shall receive four points for reporting year 2000 process outflow data (emissions) for compliant products or product lines for the following environmental categories listed in the BEES Please User Questionnaire:

- building products and other co-products;
- human and ecological health outflows (air and water);
- pollutant Flows (flue gas and wastewater);
- total solid waste;
- recovered matter;
- greenhouse gases;
- acidification gases;
- other air emissions;
- ozone depletion;
- smog / Maximum Incremental Reactivity (MIR) index;
- eutrophication; and
- other water effluents.

Below are the web addresses for the BEES Please website, user questionnaire, and user guide:

[http://www.bfrl.nist.gov/oa/software/bees/please/bees\\_please.html](http://www.bfrl.nist.gov/oa/software/bees/please/bees_please.html)  
[http://www.bfrl.nist.gov/oa/software/bees/please/BEES\\_Please\\_Questionnaire.xls](http://www.bfrl.nist.gov/oa/software/bees/please/BEES_Please_Questionnaire.xls)  
[http://www.bfrl.nist.gov/oa/software/bees/please/BEES\\_Please\\_Questionnaire--User\\_Guide.doc](http://www.bfrl.nist.gov/oa/software/bees/please/BEES_Please_Questionnaire--User_Guide.doc)

*Reason: This was suggested at the 2011 Joint Committee meeting as the links are not active.*

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#### 6.3.3.4 Reduction of specified life cycle impact categories (for the years 2000-present)

A manufacturer may achieve an average reduction in at least six of the environmental life cycle impact categories identified in Table 6.3.

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Quantification of the impacts shall be determined according to the methodology from the USEPA's Tool for the Reduction and Assessment of Chemical and Other Environmental Impacts (TRACI). TRACI's impact categories and an example of the characterization factors can be found in Table 6.3. As the TRACI methodology is periodically updated, applicants should consider using the most recent version of this impact assessment methodology in order to ensure the most accurate life cycle calculations.

NOTE – LCA may use other well-recognized ISO 14042 compliant methods for impact assessment when TRACI is not appropriate.

To earn points under this section, a manufacturer shall compare an LCA of their product platform undergoing assessment to their year 2000 baseline and the present LCA (based on the inventories generated under 6.3.3) or a recognized and approved industry baseline LCA for carpet, using Table 6.3's LCI classifications. Points shall be awarded in accordance with Table 6.4. Of these categories, global warming shall be included as one of the six impact categories at each range indicated in Table 6.4 before additional points shall be awarded.

***Reason: This addresses the time frame for this section as in issue paper 2009-9.***

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#### **6.3.5.2.2 PBTs released as process outputs**

A manufacturer shall receive one point for obtaining documentation from suppliers one step upstream of the life cycle manufacturing boundaries (see Annex B, Figure B1) demonstrating that PBT chemicals and other chemicals of concern are not released as process outputs (emissions) at the point of manufacture at or above CERCLA reportable quantity (RQ) reporting thresholds. The manufacturer shall document that suppliers within the manufacturing boundaries do not have PBT emissions at or above the reporting thresholds described in Annex B. This shall apply to the incoming raw materials that result in 1% or greater of the final product.

#### **6.3.5.2.3 PBTs used in materials or process inputs**

A manufacturer shall receive one point for obtaining documentation from suppliers one step upstream of the life cycle manufacturing boundaries (see Annex B, Figure B1) that demonstrates that PBT chemicals and other chemicals of concern are not used in supply chain materials and that process inputs are below TRI reporting thresholds, and documenting that suppliers' PBT emissions are below reporting thresholds as described in Annex B. This shall apply to the incoming raw materials that result in 1% or greater of the final product.

***Reason: This addresses the issue paper 2011-2 regarding which suppliers to gather information from for these sections.***

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## PROPOSAL FOR BSR/UL 94

6.4 All specimens are to be tested in a laboratory atmosphere of 15 - 35°C and ~~45~~  $\leq 75$  percent relative humidity.

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## Standard for Police Station Connected Burglar Alarm Units and Systems, BSR/UL 365

### PROPOSAL

**Table 23.1**  
**Minimum spacings**

Point of application	Voltage range	Minimum spacings <sup>a,b</sup>				
		Through-air,		Over-surface,		
		inch	(mm)	inch	(mm)	
To walls of enclosure:						
Cast metal enclosures	0-300	1/4	6.4	1/4	6.4	
Sheet metal enclosures	0-300	1/2	12.7	1/2	12.7	
Installation wiring terminals:						
With barriers	0-30	1/8	3.2	3/16	4.8	
	31-150	1/8	3.2	1/4	6.4	
	151-300	1/4	6.4	3/8	9.5	
Without barriers	0-30	3/16	4.8	3/16	4.8	
	31-150	1/4	6.4	1/4	6.4	
	151-300	1/4	6.4	3/8	9.5	
Rigidly clamped assemblies <sup>c</sup>						
100 volt-amperes maximum <sup>d</sup>	0-30	1/32	0.8	1/32	0.8	
	Over 100 volt-amperes	0-30	3/64	1.2	3/64	1.2
		31-150	1/16	1.6	1/16	1.6
	151-300	3/32	2.4	3/32	2.4	
Other parts	0-30	1/16	1.6	1/8	3.2	
	31-150	1/8	3.2	1/4	6.4	
	151-300	1/4	6.4	3/8	9.5	

<sup>a</sup>-An insulating liner or barrier of vulcanized fiber, varnished cloth, mica, phenolic composition, or similar material employed where spacings would otherwise be insufficient, shall not be less than 0.028 inch (0.71 mm) in thickness; except that a liner or barrier not less than 0.013 inch (0.33 mm) in thickness may be used in conjunction with an air spacing of not less than one-half of the through air spacing required. The liner shall be located so that it will not be affected adversely by arcing. Insulating material having a thickness less than that specified may be used if it is acceptable for the particular application.

<sup>b</sup>-Measurements are to be made with solid wire of acceptable ampacity for the applied load connected to each terminal. In no case is the wire to be smaller than No. 18 AWG (0.82 mm<sup>2</sup>).

<sup>c</sup>-Rigidly clamped assemblies include such parts as contact springs on relays or cam switches, printed

wiring boards, and the like.

<sup>d</sup> - Spacings less than those indicated, but not less than 1/64 inch (0.4 mm), are acceptable for the connection of integrated circuits and similar components where the spacing between adjacent connecting wires on the component is less than 1/32 inch (0.8 mm).

**Table 23.1**

**Minimum spacings**

<u>Point of application</u>	<u>Minimum spacings</u>				
	<u>Voltage range,</u>	<u>Through air,</u>		<u>Over surface,</u>	
	<u>volts</u>	<u>inch</u>	<u>(mm)</u>	<u>inch</u>	<u>(mm)</u>
<u>To walls of enclosure:</u>					
<u>Cast metal enclosures</u>	<u>0 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
<u>Sheet metal enclosures</u>	<u>0 - 50</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
	<u>51 - 300</u>	<u>1/2</u>	<u>(12.7)</u>	<u>1/2</u>	<u>(12.7)</u>
<u>Installation wiring terminals:</u>					
<u>(General application)<sup>a</sup></u>	<u>0 - 30</u>	<u>3/16</u>	<u>(4.8)</u>	<u>3/16</u>	<u>(4.8)</u>
	<u>31 - 150</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
	<u>151 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>3/8</u>	<u>(9.5)</u>
<u>Installation wiring terminals, except solder-type terminals (special application, see 12.2.3.1)</u>					
	<u>0 - 30</u>	<u>1/8</u>	<u>(3.2)</u>	<u>1/8</u>	<u>(3.2)</u>
	<u>31 - 150</u>	<u>3/16</u>	<u>(4.8)</u>	<u>3/16</u>	<u>(4.8)</u>
	<u>151 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
<u>Rigidly clamped assemblies:<sup>b</sup></u>					
<u>100 volt-amperes maximum</u>	<u>0 - 30</u>	<u>1/32<sup>c</sup></u>	<u>(0.8)</u>	<u>1/32<sup>c</sup></u>	<u>(0.8)</u>
<u>Over 100 volt-amperes</u>	<u>0 - 30</u>	<u>3/64</u>	<u>(1.2)</u>	<u>3/64</u>	<u>(1.2)</u>
	<u>31 - 150</u>	<u>1/16</u>	<u>(1.6)</u>	<u>1/16</u>	<u>(1.6)</u>
	<u>151 - 300</u>	<u>3/32</u>	<u>(2.4)</u>	<u>3/32</u>	<u>(2.4)</u>
<u>Other parts</u>	<u>0 - 30</u>	<u>1/16</u>	<u>(1.6)</u>	<u>1/16</u>	<u>(1.6)</u>
	<u>31 - 150</u>	<u>1/8</u>	<u>(3.2)</u>	<u>1/4</u>	<u>(6.4)</u>
	<u>151 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>3/8</u>	<u>(9.5)</u>

<sup>a</sup> Measurements are to be made with solid wire of adequate ampacity for the applied load connected to each terminal. In no case shall the wire be smaller than 18 AWG (0.82 mm<sup>2</sup>).

<sup>b</sup> Rigidly clamped assemblies include such parts as contact springs on relays or cam switches, printed-wiring boards, and the like.

<sup>c</sup> Spacings less than those indicated are permitted for printed-wiring board traces of circuits involving integrated circuits and similar components where the spacing between adjacent connecting wires on the component is less than 1/32 inch (0.8 mm).

## Standard for Local Burglar Alarm Units and Systems, BSR/UL 609

### PROPOSAL

**Table 23.1**  
**Minimum spacings**

Point of application	Voltage range <sup>a</sup>	Minimum spacings <sup>b</sup> inch (mm)			
		Through air,		Over surface,	
		inch	(mm)	inch	(mm)
To Walls of Enclosure					
Cast metal enclosures	0-300	1/4	6.4	1/4	6.4
Sheet metal enclosures	0-300	1/2	12.7	1/2	12.7
Installation wiring terminals <sup>c</sup>	151-300				
With barriers	0-30	1/8	3.2	3/16	4.8
	31-150	1/8	3.2	1/4	6.4
	151-300	1/4	6.4	3/8	9.5
Without barriers	0-30	3/15	4.8	3/16	4.8
	31-150	1/8	6.4	1/4	6.4
	151-300	1/8	6.4	3/8	9.5
Rigidly clamped assemblies <sup>d</sup>					
100-volt-amperes maximum <sup>e</sup>	0-30	1/32	0.8	1/32	0.8
Over 100-volt-amperes	0-30	3/64	1.2	3/64	1.2
	31-150	1/16	1.6	1/16	1.6
	151-300	3/32	2.4	3/32	2.4
Other parts	0-30	1/16	1.6	1/8	3.2
	31-150	1/8	3.2	1/4	6.4
	151-300	1/4	6.4	3/8	9.5

<sup>a</sup> These are sine wave alternating current rms values. Equivalent direct current or peak voltages 42.4 volts for 30 volts in the table, 212 volts for 150 volts in the table, and 424 volts for 300 volts in the table.

<sup>b</sup> An insulating liner or barrier of vulcanized fiber, varnished cloth, mica, phenolic composition, or similar material used where spacings would otherwise be insufficient, shall not less than 0.028 inch (0.71 mm) in thickness; except that a liner or barrier not less than 0.013 inch (0.33 mm) in thickness may be used in conjunction with an air spacing of not less than one-half of the through-air spacing required. The liner shall be located so that it will not be impaired by arcing. Insulating material having a thickness less than that specified may be used if it is acceptable for the particular application.

<sup>c</sup> Measurements are to be made with solid wire of adequate ampacity for the applied load connected to each terminal. In no case is the wire to be smaller than No. 18 AWG (0.82 mm<sup>2</sup>), except that, if the

maximum current input to the device is 1 ampere, the measurement may be made with a No. 22 AWG (0.32 mm<sup>2</sup>) wire.

<sup>d</sup> -Rigidly clamped assemblies include such parts as contact springs on relays or cam switches, printed wiring boards, and the like.

<sup>e</sup> -Spacings less than those indicated, but not less than 1/64 inch (0.4 mm), are acceptable for the connection of integrated circuits and similar components where the spacing between adjacent connecting wires on the component is less than 1/32 inch (0.8 mm).

**Table 23.1**

**Minimum spacings**

<u>Point of application</u>	<u>Minimum spacings</u>				
	<u>Voltage range,</u>	<u>Through air,</u>		<u>Over surface,</u>	
	<u>volts</u>	<u>inch</u>	<u>(mm)</u>	<u>inch</u>	<u>(mm)</u>
<u>To walls of enclosure:</u>					
<u>Cast metal enclosures</u>	<u>0 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
<u>Sheet metal enclosures</u>	<u>0 - 50</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
	<u>51 - 300</u>	<u>1/2</u>	<u>(12.7)</u>	<u>1/2</u>	<u>(12.7)</u>
<u>Installation wiring terminals:</u>					
<u>(General application)<sup>a</sup></u>	<u>0 - 30</u>	<u>3/16</u>	<u>(4.8)</u>	<u>3/16</u>	<u>(4.8)</u>
	<u>31 - 150</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
	<u>151 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>3/8</u>	<u>(9.5)</u>
<u>Installation wiring terminals, except solder-type terminals (special application, see 12.2.9)</u>					
	<u>0 - 30</u>	<u>1/8</u>	<u>(3.2)</u>	<u>1/8</u>	<u>(3.2)</u>
	<u>31 - 150</u>	<u>3/16</u>	<u>(4.8)</u>	<u>3/16</u>	<u>(4.8)</u>
	<u>151 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
<u>Rigidly clamped assemblies:<sup>b</sup></u>					
<u>100 volt-amperes maximum</u>	<u>0 - 30</u>	<u>1/32<sup>c</sup></u>	<u>(0.8)</u>	<u>1/32<sup>c</sup></u>	<u>(0.8)</u>
<u>Over 100 volt-amperes</u>	<u>0 - 30</u>	<u>3/64</u>	<u>(1.2)</u>	<u>3/64</u>	<u>(1.2)</u>
	<u>31 - 150</u>	<u>1/16</u>	<u>(1.6)</u>	<u>1/16</u>	<u>(1.6)</u>
	<u>151 - 300</u>	<u>3/32</u>	<u>(2.4)</u>	<u>3/32</u>	<u>(2.4)</u>
<u>Other parts</u>	<u>0 - 30</u>	<u>1/16</u>	<u>(1.6)</u>	<u>1/16</u>	<u>(1.6)</u>
	<u>31 - 150</u>	<u>1/8</u>	<u>(3.2)</u>	<u>1/4</u>	<u>(6.4)</u>
	<u>151 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>3/8</u>	<u>(9.5)</u>

<sup>a</sup> Measurements are to be made with solid wire of adequate ampacity for the applied load connected to

each terminal. In no case shall the wire be smaller than 18 AWG (0.82 mm<sup>2</sup>).

<sup>b</sup> Rigidly clamped assemblies include such parts as contact springs on relays or cam switches, printed-wiring boards, and the like.

<sup>c</sup> Spacings less than those indicated are permitted for printed-wiring board traces of circuits involving integrated circuits and similar components where the spacing between adjacent connecting wires on the component is less than 1/32 inch (0.8 mm).

## **BSR/UL 763, the Standard for Safety for Motor-Operated Commercial Food Preparing Machines**

### **3. Requirements for a Blender Cover Opening that is Not Located in the Center of the Cover**

#### **PROPOSAL**

34.4 An open-top blender jar shall be provided with a one- or two-piece cover, with a center opening. For a one-piece cover or the largest cover of a two-piece cover, the center opening shall not have a dimension larger than 2-5/8 inches (66.7 mm) or less than 1 inch (25.4 mm).

*Exception: ~~If the marking of 60.6.1.2 is provided, the~~ cover opening may be located other than in the center of the cover if:*

*a) The cover is marked in accordance with 60.6.1.2, or*

*b) The blender complies with the Blender Cover Opening Splash Test of 44A.*

#### **44A Blender Cover Opening Splash Test**

44A.1 To determine compliance with the exception to 34.4(b) for a blender provided with an opening that is not located in the center of the cover, the blender is to be tested in accordance with 44A.2 and 44A.3 in order to determine the ability of the blender cover to keep the contents of the blender container from splashing out.

44A.2 The container of a representative blender is to be filled to the maximum fill line (or maximum recommended level) with hot tap water at a temperature not exceeding  $93.3 \pm 5.5^{\circ}\text{C}$  ( $200 \pm 10^{\circ}\text{F}$ ). The exterior of the blender is to be wiped dry. The blender container is to be mounted on the blender and the blender is to be placed on a horizontal work surface that is dry. The cover opening intended for pouring is then to be opened and the blender operated for 15 seconds at the highest speed setting available. This operation is to be repeated two more times.

44A.3 No water shall be observed splashing out of the cover opening. The work surface and blender exterior shall remain dry.

60.6.1.2 In accordance with the exception to 34.4(a), the cover or blending jar shall be marked where visible during operation with the following, or equivalent: "CAUTION - Do Not Blend Hot Liquids".



## BSR/UL 900 PROPOSAL

1.1 These requirements cover tests to determine the amount of smoke generated and the combustibility of air filter units of both washable and throwaway types used for removal of dust and other airborne particles from air circulated mechanically in equipment and systems installed in accordance with the Standards for Installation of Air Conditioning and Ventilating Systems, NFPA 90A (Other Than Residence Type), Installation of Warm Air Heating and Air Conditioning Systems, NFPA 90B (Residence Type), the International Mechanical Code, the International Fire Code, and the Uniform Mechanical Code. These requirements also cover media intended for assembly into air filter units.

7.7 There is to be a minimum distance of 1.8 m (71 inches) from the upstream face of a filter, as installed in the apparatus, and the discharge end of a fan scroll or transition piece connected to the duct. The upstream duct section is to be equipped with means for assuring a uniformly distributed air flow in the duct immediately ahead of the filter location.

7.27 The test air flow is to be adjusted (by restricting the blower inlet) so that the average ~~approach velocity~~ airflow in the duct ~~at the face of the filter~~ is 1.12 m/s (220 feet per minute), 17.3 m<sup>3</sup>/min. (612 cubic feet per minute), for a nominal ~~500~~ 508 by ~~500~~ 508 mm (20 by 20 inches) filter and 24.9 m<sup>3</sup>/min. (880 cubic feet per minute) for a nominal ~~600~~ 610 by ~~600~~ 610 mm (24 by 24 inches) filter. This is to be accomplished by adjusting the flow so that the average discharge velocity, as measured in meters per second at the discharge end of the ~~530~~ 533 by ~~530~~ 533 mm (21 by 21 inches) duct, is 1 m/s (3.3 ft/sec) for a nominal ~~500~~ 508 by ~~500~~ 508 mm (20 by 20 inch) filter and 1.46 m/s (4.68 ft/sec) for a nominal ~~600~~ 610 by ~~600~~ 610 mm (24 by 24 inch) filter.

9.1.1 With reference to 9.1, the marking shall be located on the filter itself, on the individual filter unit or media packaging, or on the filter media roll core.

## BSR/UL 977 PROPOSAL

1.10 These requirements cover devices with provision for mounting Class L fuses or Class T fuses rated more than 600 A, and non-fusible tie switches when protected by Class L fuses or Class T fuses.

25.1.2 A fused power-circuit device for use as a tie switch shall be investigated for reverse feed.

50.13 Unless readily apparent, the location for connecting line and load conductors shall be clearly indicated by the marking "Line " and "Load " adjacent to the terminals or on a wiring diagram.

Exception: A non-fusible tie switch need not comply with "Line" and "Load" markings, but must be clearly marked to indicate the intended application of the product is as a non-fusible tie switch in multiple source equipment and that any conductor may be energized due to reverse feed.

50.17 Each fused power-circuit device rated for AC shall be marked to indicate the short-circuit withstand rating: "Suitable for use on a circuit capable of delivering not more than \_\_\_\_ rms symmetrical amperes, \_\_\_\_ volts maximum, use Class L (or Class T) fuses. " Each fused power-circuit device rated for DC shall be marked to indicate the short-circuit withstand rating: "Suitable for use on a circuit capable of delivering not more than \_\_\_\_ amperes, \_\_\_\_ volts DC maximum, use Class L (or Class T) fuses. " Each fused power-circuit device rated for AC and DC shall be marked to indicate the short-circuit withstand rating: "Suitable for use on a circuit capable of delivering not more than \_\_\_\_ rms symmetrical amperes, \_\_\_\_ volts AC maximum, and not more than \_\_\_\_ amperes, \_\_\_\_ volts DC maximum, use Class L (or Class T) fuses. " (See 48.1.)

Exception: A non-fusible tie switch shall be marked "Suitable for use on a circuit capable of delivering not more than \_\_\_\_ rms symmetrical amperes at \_\_\_\_ volts maximum when protected by Class L (or Class T) fuses of the same or smaller ampere rating".

## Standard for Household Fire Warning System Units, BSR/UL 985

### PROPOSAL

**Table 36.1**  
**Minimum spacings**

Point of application	Minimum spacings <sup>a</sup>					
	Voltage range, volts	Through air,		Over surface,		
		inch	(mm)	inch	(mm)	
To walls of enclosure						
Cast metal enclosures	0-300	1/4	6.4	1/4	6.4	
Sheet metal enclosures	0-300	1/2	12.7	1/2	12.7	
Installation wiring terminals (general application) <sup>a</sup>						
With barriers	0-30	1/8	3.2	3/16	4.8	
	31-150	1/8	3.2	1/4	6.4	
	151-300	1/4	6.4	3/8	9.5	
	Without barriers	0-30	3/16	4.8	3/16	4.8
		31-150	1/4	6.4	1/4	6.4
		151-300	3/8	9.5	3/8	9.5
Rigidly clamped assemblies <sup>b</sup>						
100-volt-amperes maximum	0-30	1/32 <sup>e</sup>	0.8	1/32 <sup>e</sup>	0.8	
	Over 100-volt-amperes	0-30	3/64	1.2	3/64	1.2
		31-150	1/16	1.6	1/16	1.6
		151-300	3/32	2.4	3/32	2.4
Other parts	0-30	1/16	1.6	1/8	3.2	
	31-150	1/8	3.2	1/4	6.4	
	151-300	1/4	6.4	3/8	9.5	

<sup>a</sup>-Measurements are to be made with solid wire of adequate ampacity for the applied load connected to each terminal. In no case is the wire to be smaller than No. 18 AWG (0.82 mm<sup>2</sup>).

<sup>b</sup>-Rigidly clamped assemblies include such parts as contact springs on relays or cam switches, printed wiring boards, and the like.

<sup>e</sup>-Spacings less than those indicated, but not less than 1/64 inch (0.4 mm), are acceptable for the connection of integrated circuits and similar components where the spacing between adjacent connecting

wires on the component is less than 1/32 inch (0.8 mm).

**Table 36.1**  
**Minimum spacings**

<b>Point of application</b>	<b>Minimum spacings</b>				
	<b>Voltage range,</b>	<b>Through air,</b>		<b>Over surface,</b>	
	<b>volts</b>	<b>inch</b>	<b>(mm)</b>	<b>inch</b>	<b>(mm)</b>
<u>To walls of enclosure:</u>					
<u>Cast metal enclosures</u>	<u>0 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
<u>Sheet metal enclosures</u>	<u>0 - 50</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
	<u>51 - 300</u>	<u>1/2</u>	<u>(12.7)</u>	<u>1/2</u>	<u>(12.7)</u>
<u>Installation wiring terminals:</u>					
<u>(General application)<sup>a</sup></u>	<u>0 - 30</u>	<u>3/16</u>	<u>(4.8)</u>	<u>3/16</u>	<u>(4.8)</u>
	<u>31 - 150</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
	<u>151 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>3/8</u>	<u>(9.5)</u>
<u>Installation wiring terminals, except solder-type terminals</u>					
	<u>0 - 30</u>	<u>1/8</u>	<u>(3.2)</u>	<u>1/8</u>	<u>(3.2)</u>
	<u>31 - 150</u>	<u>3/16</u>	<u>(4.8)</u>	<u>3/16</u>	<u>(4.8)</u>
	<u>151 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
<u>Rigidly clamped assemblies:<sup>b</sup></u>					
<u>100 volt-amperes maximum</u>	<u>0 - 30</u>	<u>1/32<sup>c</sup></u>	<u>(0.8)</u>	<u>1/32<sup>c</sup></u>	<u>(0.8)</u>
<u>Over 100 volt-amperes</u>	<u>0 - 30</u>	<u>3/64</u>	<u>(1.2)</u>	<u>3/64</u>	<u>(1.2)</u>
	<u>31 - 150</u>	<u>1/16</u>	<u>(1.6)</u>	<u>1/16</u>	<u>(1.6)</u>
	<u>151 - 300</u>	<u>3/32</u>	<u>(2.4)</u>	<u>3/32</u>	<u>(2.4)</u>
<u>Other parts</u>	<u>0 - 30</u>	<u>1/16</u>	<u>(1.6)</u>	<u>1/16</u>	<u>(1.6)</u>
	<u>31 - 150</u>	<u>1/8</u>	<u>(3.2)</u>	<u>1/4</u>	<u>(6.4)</u>
	<u>151 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>3/8</u>	<u>(9.5)</u>

<sup>a</sup> Measurements are to be made with solid wire of adequate ampacity for the applied load connected to each terminal. In no case shall the wire be smaller than 18 AWG (0.82 mm<sup>2</sup>).

<sup>b</sup> Rigidly clamped assemblies include such parts as contact springs on relays or cam switches, printed-wiring boards, and the like.

<sup>c</sup> Spacings less than those indicated are permitted for printed-wiring board traces of circuits involving integrated circuits and similar components where the spacing between adjacent connecting wires on the component is less than 1/32 inch (0.8 mm).

## Standard for Household Burglar-Alarm System Units, BSR/UL 1023

### PROPOSAL

**Table 24.1**  
**Minimum spacings**

Point of application	Voltage range <sup>c</sup>	Minimum spacings <sup>a,b</sup>			
		Through air,		Over surface,	
		inch	(mm)	inch	(mm)
To walls of enclosure:					
Cast metal enclosures	0-300	1/4	6.4	1/4	6.4
Sheet metal enclosures	0-300	1/2	12.7	1/2	12.7
Installation wiring terminals: <sup>a</sup>					
With barriers	0-30	1/8	3.2	1/8	3.2
	31-150	1/8	3.2	1/4	6.4
	151-300	1/4	6.4	3/8	9.5
Without barriers	0-30	3/16	4.8	3/16	4.8
	31-150	1/4	6.4	1/4	6.4
	151-300	1/4	6.4	3/8	9.5
Rigidly clamped assemblies: <sup>d</sup>					
100-volt-amperes maximum <sup>e</sup>	0-30	1/32 <sup>e</sup>	0.8	1/32	0.8
Other parts except motors	0-30	3/64	1.2	3/64	1.2
	31-150	1/16	1.6	1/16	1.6
	151-300	3/32	2.4	3/32	2.4
<sup>a</sup> Measurements are to be made with solid wire of acceptable ampacity for the applied load connected to each terminal. The wire is to be no smaller than No. 18 AWG (0.82 mm <sup>2</sup> ), except that, if the maximum current input to the device is 1 ampere, the measurement may be made with a No. 22 AWG (0.32 mm <sup>2</sup> ) wire.					
<sup>b</sup> An insulating liner or barrier of vulcanized fiber, varnished cloth, mica, phenolic composition, or similar material employed where spacing would otherwise be insufficient, shall not be less than 0.028 inch (0.71 mm) in thickness; except that a liner or barrier not less than 0.013 inch (0.33 mm) in thickness may be used in conjunction with an air spacing of not less than one-half of the through air spacing required. The liner shall be located so that it will not be affected adversely by arcing. Insulating material having a thickness less than that specified may be used if it is acceptable for the particular application.					
<sup>c</sup> These are rms values. Equivalent direct current or peak voltages 42.4 volts for 30 volts rms, 212 volts for 150 volts rms, and 424 volts for 300 volts rms.					
<sup>d</sup> Rigidly clamped assemblies include such parts as contact springs on relays or cam switches, printed wiring boards, and the like.					

<sup>e</sup> - Spacings less than those indicated, but in no case less than 1/64 inch (0.4 mm), are acceptable for the connection of integrated circuits and similar components where the spacing between adjacent connecting wires on the component is less than 1/32 inch (0.8 mm).

**Table 24.1**  
**Minimum spacings**

<u>Point of application</u>	<u>Minimum spacings</u>				
	<u>Voltage range,</u>	<u>Through air,</u>		<u>Over surface,</u>	
	<u>volts</u>	<u>inch</u>	<u>(mm)</u>	<u>inch</u>	<u>(mm)</u>
<u>To walls of enclosure:</u>					
<u>Cast metal enclosures</u>	<u>0 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
<u>Sheet metal enclosures</u>	<u>0 - 50</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
	<u>51 - 300</u>	<u>1/2</u>	<u>(12.7)</u>	<u>1/2</u>	<u>(12.7)</u>
<u>Installation wiring terminals:</u>					
<u>(General application)<sup>a</sup></u>	<u>0 - 30</u>	<u>3/16</u>	<u>(4.8)</u>	<u>3/16</u>	<u>(4.8)</u>
	<u>31 - 150</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
	<u>151 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>3/8</u>	<u>(9.5)</u>
<u>Installation wiring terminals, except solder-type terminals (special application, see 13.2)</u>					
	<u>0 - 30</u>	<u>1/8</u>	<u>(3.2)</u>	<u>1/8</u>	<u>(3.2)</u>
	<u>31 - 150</u>	<u>3/16</u>	<u>(4.8)</u>	<u>3/16</u>	<u>(4.8)</u>
	<u>151 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
<u>Rigidly clamped assemblies:<sup>b</sup></u>					
<u>100 volt-amperes maximum</u>	<u>0 - 30</u>	<u>1/32<sup>c</sup></u>	<u>(0.8)</u>	<u>1/32<sup>c</sup></u>	<u>(0.8)</u>
<u>Over 100 volt-amperes</u>	<u>0 - 30</u>	<u>3/64</u>	<u>(1.2)</u>	<u>3/64</u>	<u>(1.2)</u>
	<u>31 - 150</u>	<u>1/16</u>	<u>(1.6)</u>	<u>1/16</u>	<u>(1.6)</u>
	<u>151 - 300</u>	<u>3/32</u>	<u>(2.4)</u>	<u>3/32</u>	<u>(2.4)</u>
<u>Other parts</u>	<u>0 - 30</u>	<u>1/16</u>	<u>(1.6)</u>	<u>1/16</u>	<u>(1.6)</u>
	<u>31 - 150</u>	<u>1/8</u>	<u>(3.2)</u>	<u>1/4</u>	<u>(6.4)</u>
	<u>151 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>3/8</u>	<u>(9.5)</u>

<sup>a</sup> Measurements are to be made with solid wire of adequate ampacity for the applied load connected to each terminal. In no case shall the wire be smaller than 18 AWG (0.82 mm<sup>2</sup>).

<sup>b</sup> Rigidly clamped assemblies include such parts as contact springs on relays or cam switches, printed-wiring boards, and the like.

<sup>c</sup> Spacings less than those indicated are permitted for printed-wiring board traces of circuits involving

integrated circuits and similar components where the spacing between adjacent connecting wires on the component is less than 1/32 inch (0.8 mm).

## Standard for Proprietary Burglar Alarm Units and Systems, BSR/UL 1076

### PROPOSAL

**Table 23.1**  
**Minimum spacings**

Point of application	Voltage range, volts	Minimum spacings <sup>a,b</sup>			
		Through air,		Over surface,	
		inch	(mm)	inch	(mm)
To walls of enclosure:					
Cast metal enclosures	0–300	1/4	6.4	1/4	6.4
Sheet metal enclosures	0–300	1/2	12.7	1/2	12.7
Installation wiring terminals:					
With barriers	0–30	1/8	3.2	3/16	4.8
	31–150	1/8	3.2	1/4	6.4
	151–300	1/4	6.4	3/8	9.5
Without barriers	0–30	3/16	4.8	3/16	4.8
	31–150	1/4	6.4	1/4	6.4
	151–300	1/4	6.4	3/8	9.5
Rigidly clamped assemblies: <sup>c</sup>					
100-volt-amperes maximum <sup>d</sup>	0–30	1/32	0.8	1/32	0.8
Over 100-volt-amperes	0–30	3/64	1.2	3/64	1.2
	31–150	1/16	1.6	1/16	1.6
	151–300	3/32	2.4	3/32	2.4
Other parts	0–30	1/16	1.6	1/8	3.2
	31–150	1/8	3.2	1/4	6.4
	151–300	1/4	6.4	3/8	9.5
<sup>a</sup> -An insulating liner or barrier of vulcanized fiber, varnished cloth, mica, phenolic composition, or similar material where spacings would otherwise be insufficient, shall not be less than 0.028 inch (0.71 mm) thick; except that a liner or barrier not less than 0.013 inch (0.33 mm) thick may be used in conjunction with an air spacing of not less than one-half of the through air spacing required. The liner shall be located so that it will not be affected adversely by arcing. Insulating material having a thickness less than that specified may be used if it is suitable for the particular application.					
<sup>b</sup> -Measurements are to be made with solid wire of adequate ampacity for the applied load connected to each terminal. The wire shall not be smaller than No. 18 AWG (0.82 mm <sup>2</sup> ).					
<sup>c</sup> -Rigidly clamped assemblies include such parts as contact springs on relays or cam switches,					



printed wiring boards, and the like.

<sup>d</sup> - Spacings less than those indicated, but not less than 1/64 inch (0.4 mm) may be used for the connection of integrated circuits and similar components where the spacing between the adjacent connecting wires on the component is less than 1/32 inch (0.8 mm).

**Table 23.1**

**Minimum spacings**

<u>Point of application</u>	<u>Minimum spacings</u>				
	<u>Voltage range,</u>	<u>Through air,</u>		<u>Over surface,</u>	
	<u>volts</u>	<u>inch</u>	<u>(mm)</u>	<u>inch</u>	<u>(mm)</u>
<u>To walls of enclosure:</u>					
<u>Cast metal enclosures</u>	<u>0 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
<u>Sheet metal enclosures</u>	<u>0 - 50</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
	<u>51 - 300</u>	<u>1/2</u>	<u>(12.7)</u>	<u>1/2</u>	<u>(12.7)</u>
<u>Installation wiring terminals:</u>					
<u>(General application)<sup>a</sup></u>	<u>0 - 30</u>	<u>3/16</u>	<u>(4.8)</u>	<u>3/16</u>	<u>(4.8)</u>
	<u>31 - 150</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
	<u>151 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>3/8</u>	<u>(9.5)</u>
<u>Installation wiring terminals, except solder-type terminals (special application, see 12.2.2.1)</u>					
	<u>0 - 30</u>	<u>1/8</u>	<u>(3.2)</u>	<u>1/8</u>	<u>(3.2)</u>
	<u>31 - 150</u>	<u>3/16</u>	<u>(4.8)</u>	<u>3/16</u>	<u>(4.8)</u>
	<u>151 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
<u>Rigidly clamped assemblies:<sup>b</sup></u>					
<u>100 volt-amperes maximum</u>	<u>0 - 30</u>	<u>1/32<sup>c</sup></u>	<u>(0.8)</u>	<u>1/32<sup>c</sup></u>	<u>(0.8)</u>
<u>Over 100 volt-amperes</u>	<u>0 - 30</u>	<u>3/64</u>	<u>(1.2)</u>	<u>3/64</u>	<u>(1.2)</u>
	<u>31 - 150</u>	<u>1/16</u>	<u>(1.6)</u>	<u>1/16</u>	<u>(1.6)</u>
	<u>151 - 300</u>	<u>3/32</u>	<u>(2.4)</u>	<u>3/32</u>	<u>(2.4)</u>
<u>Other parts</u>	<u>0 - 30</u>	<u>1/16</u>	<u>(1.6)</u>	<u>1/16</u>	<u>(1.6)</u>
	<u>31 - 150</u>	<u>1/8</u>	<u>(3.2)</u>	<u>1/4</u>	<u>(6.4)</u>
	<u>151 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>3/8</u>	<u>(9.5)</u>

<sup>a</sup> Measurements are to be made with solid wire of adequate ampacity for the applied load connected to each terminal. In no case shall the wire be smaller than 18 AWG (0.82 mm<sup>2</sup>).

<sup>b</sup> Rigidly clamped assemblies include such parts as contact springs on relays or cam switches, printed-wiring boards, and the like.

<sup>c</sup> Spacings less than those indicated are permitted for printed-wiring board traces of circuits involving integrated circuits and similar components where the spacing between adjacent connecting wires on the component is less than 1/32 inch (0.8 mm).

## Standard for Central-Station Burglar-Alarm Units, BSR/UL 1610

### PROPOSAL

#### Table 23.1

#### Minimum spacings

Point of application	Voltage range <sup>a</sup>	Minimum spacings <sup>b</sup>			
		Through air,		Over surface,	
		inch	(mm)	inch	(mm)
To walls of enclosure					
Cast metal enclosures	0-300	1/4	6.4	1/4	6.4
Sheet metal enclosures	0-300	1/2	12.7	1/2	12.7
Installation wiring terminals <sup>c,d</sup>					
With barriers	0-30	1/8	3.2	3/16	4.8
	31-150	1/8	3.2	1/4	6.4
	151-300	1/4	6.4	3/8	9.5
Without barriers	0-30	3/16	4.8	3/16	4.8
	31-150	1/4	6.4	1/4	6.4
	151-300	1/4	6.4	3/8	9.5
Rigidly clamped assemblies <sup>e</sup>					
100-volt-amperes maximum <sup>f</sup>	0-30	1/32	0.8	1/32	0.8
Over 100-volt-amperes	0-30	3/64	1.2	3/64	1.2
	31-150	1/16	1.6	1/16	1.6
	151-300	3/32	2.4	3/32	2.4
Other parts					
	0-30	3/64	1.2	3/64	1.2
	31-150	1/16	1.6	1/16	1.6
	151-300	3/32	2.4	3/32	2.4

<sup>a</sup> These are sine wave alternating current rms values. Equivalent direct current or peak voltages are 42.4 volts for 30 volts in the table, 212 volts for 150 volts in the table, and 424 volts for 300 volts in the table.

<sup>b</sup> An insulating liner or barrier of vulcanized fiber, varnished cloth, mica, phenolic composition, or similar material used where spacings would otherwise be insufficient, shall not be less than 0.028 inch (0.71 mm) thick; except that a liner or barrier not less than 0.013 inch (0.33 mm) thick may be used in conjunction with an air spacing of not less than one-half of the through-air spacing required. The liner shall be located so that it will not be affected adversely by arcing. Insulating material having a thickness less than that specified may be used if it has been determined suitable for the particular application.

<sup>c</sup> Measurements shall be made with solid wire of adequate ampacity for the applied load connected to each terminal. In no case is the wire to be smaller than No. 18 AWG (0.82 mm<sup>2</sup>) except that, if the

maximum current for the terminal is 1 ampere, the measurement may be made with a No. 22 AWG wire (0.32 mm<sup>2</sup>).

<sup>d</sup> Spacing requirements apply also to solder type terminals described in 12.2.3.1(e).

<sup>e</sup> Rigidly clamped assemblies include such parts as contact springs on relays or cam switches, printed wiring boards, and the like.

<sup>f</sup> Spacings less than those indicated, but not less than 1/64 inch (0.4 mm), may be used for the connection of integrated circuits and similar components where the spacing between adjacent connecting wires on the component is less than 1/32 inch (0.8 mm).

**Table 23.1**

**Minimum spacings**

<u>Point of application</u>	<u>Minimum spacings</u>				
	<u>Voltage range,</u>	<u>Through air,</u>		<u>Over surface,</u>	
	<u>volts</u>	<u>inch</u>	<u>(mm)</u>	<u>inch</u>	<u>(mm)</u>
<u>To walls of enclosure:</u>					
<u>Cast metal enclosures</u>	<u>0 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
<u>Sheet metal enclosures</u>	<u>0 - 50</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
	<u>51 - 300</u>	<u>1/2</u>	<u>(12.7)</u>	<u>1/2</u>	<u>(12.7)</u>
<u>Installation wiring terminals:</u>					
<u>(General application)<sup>a</sup></u>	<u>0 - 30</u>	<u>3/16</u>	<u>(4.8)</u>	<u>3/16</u>	<u>(4.8)</u>
	<u>31 - 150</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
	<u>151 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>3/8</u>	<u>(9.5)</u>
<u>Installation wiring terminals, except solder-type terminals (special application, see 12.2.3.1)</u>					
	<u>0 - 30</u>	<u>1/8</u>	<u>(3.2)</u>	<u>1/8</u>	<u>(3.2)</u>
	<u>31 - 150</u>	<u>3/16</u>	<u>(4.8)</u>	<u>3/16</u>	<u>(4.8)</u>
	<u>151 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
<u>Rigidly clamped assemblies:<sup>b</sup></u>					
<u>100 volt-amperes maximum</u>	<u>0 - 30</u>	<u>1/32<sup>c</sup></u>	<u>(0.8)</u>	<u>1/32<sup>c</sup></u>	<u>(0.8)</u>
<u>Over 100 volt-amperes</u>	<u>0 - 30</u>	<u>3/64</u>	<u>(1.2)</u>	<u>3/64</u>	<u>(1.2)</u>
	<u>31 - 150</u>	<u>1/16</u>	<u>(1.6)</u>	<u>1/16</u>	<u>(1.6)</u>
	<u>151 - 300</u>	<u>3/32</u>	<u>(2.4)</u>	<u>3/32</u>	<u>(2.4)</u>
<u>Other parts</u>	<u>0 - 30</u>	<u>1/16</u>	<u>(1.6)</u>	<u>1/16</u>	<u>(1.6)</u>
	<u>31 - 150</u>	<u>1/8</u>	<u>(3.2)</u>	<u>1/4</u>	<u>(6.4)</u>
	<u>151 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>3/8</u>	<u>(9.5)</u>

<sup>a</sup> Measurements are to be made with solid wire of adequate ampacity for the applied load connected to each terminal. In no case shall the wire be smaller than 18 AWG (0.82 mm<sup>2</sup>).

<sup>b</sup> Rigidly clamped assemblies include such parts as contact springs on relays or cam switches, printed-wiring boards, and the like.

<sup>c</sup> Spacings less than those indicated are permitted for printed-wiring board traces of circuits involving integrated circuits and similar components where the spacing between adjacent connecting wires on the component is less than 1/32 inch (0.8 mm).

## Standard for Digital Alarm Communicator System Units, BSR/UL 1635

### PROPOSAL

### Table 23.1

#### Minimum spacings

Point of application	Voltage range <sup>o</sup>	Minimum spacings <sup>a</sup> , inch (mm)			
		Through air		Over surface	
To walls of enclosure					
Cast metal enclosures	0-300	1/4	6.4	1/4	6.4
Sheet metal enclosures	0-300	1/2	12.7	1.2	12.7
Installation wiring terminals <sup>b,†</sup>					
with barriers	0-30	1/8	3.2	3/16	4.8
	31-150	1/8	3.2	1/4	6.4
	151-300	1/4	6.4	3/8	9.5
Without barriers	0-30	3/16	4.8	3/16	4.8
	31-150	1/4	6.4	1/4	6.4
	151-300	1/4	6.4	3/8	9.5
Rigidly clamped assemblies <sup>c</sup>					
100 volt-amperes maximum <sup>d</sup>	0-30	1/32	0.8	1/32	0.8
Over 100 volt-amperes	0-30	3/64	1.2	3/64	1.2
	31-150	1/16	1.6	(1/16)	1.6
	151-300	3/32	2.4	3/32	2.4
Other parts	0-30	3/64	1.2	3/64	1.2
	31-150	1/16	1.6	1/16	1.6
	151-300	3/32	2.4	3/32	2.4

<sup>a</sup>-These are sine wave alternating current rms values. Equivalent direct current or peak voltages are 42.4 volts for 30 volts in the table, 212 volts for 150 volts in the table, and 424 volts for 300 volts in the table.

<sup>b</sup>-An insulating liner or barrier of vulcanized fiber, varnished cloth, mica, phenolic composition, or similar material used where spacings would otherwise be insufficient, shall not be less than 0.028 inch (0.71 mm) thick; except that a liner or barrier not less than 0.013 inch (0.33 mm) thick may be used in conjunction with an air spacing of not less than one-half of the through air spacing required. The liner shall be located so that it will not be affected adversely by arcing. Insulating material having a thickness less than that specified may be used if it has been determined suitable for the particular application.

<sup>c</sup>-Measurements shall be made with solid wire of adequate ampacity for the applied load connected to each terminal. In no case is the wire to be smaller than No. 18 AWG (0.82 mm<sup>2</sup>) except that, if the maximum current for the terminal is 1 ampere, the measurement may be made with a No. 22 AWG wire (0.32 mm<sup>2</sup>).

<sup>d</sup> -Spacing requirements apply also to solder type terminals described in 12.2.3.1(c)

<sup>e</sup> -Rigidly clamped assemblies include such parts as contact springs on relays or cam switches, printed wiring boards, and the like.

<sup>f</sup> -Spacings less than those indicated, but not less than 1/64 inch (0.4 mm), may be used for the connection of integrated circuits and similar components where the spacing between adjacent connecting wires on the component is less than 1/32 inch (0.8 mm).

**Table 23.1**  
**Minimum spacings**

<u>Point of application</u>	<u>Minimum spacings</u>				
	<u>Voltage range,</u>	<u>Through air,</u>		<u>Over surface,</u>	
	<u>volts</u>	<u>inch</u>	<u>(mm)</u>	<u>inch</u>	<u>(mm)</u>
<u>To walls of enclosure:</u>					
<u>Cast metal enclosures</u>	<u>0 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
<u>Sheet metal enclosures</u>	<u>0 - 50</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
	<u>51 - 300</u>	<u>1/2</u>	<u>(12.7)</u>	<u>1/2</u>	<u>(12.7)</u>
<u>Installation wiring terminals:</u>					
<u>(General application)<sup>a</sup></u>	<u>0 - 30</u>	<u>3/16</u>	<u>(4.8)</u>	<u>3/16</u>	<u>(4.8)</u>
	<u>31 - 150</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
	<u>151 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>3/8</u>	<u>(9.5)</u>
<u>Installation wiring terminals, except solder-type terminals (special application, see 12.2.3.1)</u>					
	<u>0 - 30</u>	<u>1/8</u>	<u>(3.2)</u>	<u>1/8</u>	<u>(3.2)</u>
	<u>31 - 150</u>	<u>3/16</u>	<u>(4.8)</u>	<u>3/16</u>	<u>(4.8)</u>
	<u>151 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>1/4</u>	<u>(6.4)</u>
<u>Rigidly clamped assemblies:<sup>b</sup></u>					
<u>100 volt-amperes maximum</u>	<u>0 - 30</u>	<u>1/32<sup>c</sup></u>	<u>(0.8)</u>	<u>1/32<sup>c</sup></u>	<u>(0.8)</u>
<u>Over 100 volt-amperes</u>	<u>0 - 30</u>	<u>3/64</u>	<u>(1.2)</u>	<u>3/64</u>	<u>(1.2)</u>
	<u>31 - 150</u>	<u>1/16</u>	<u>(1.6)</u>	<u>1/16</u>	<u>(1.6)</u>
	<u>151 - 300</u>	<u>3/32</u>	<u>(2.4)</u>	<u>3/32</u>	<u>(2.4)</u>
<u>Other parts</u>	<u>0 - 30</u>	<u>1/16</u>	<u>(1.6)</u>	<u>1/16</u>	<u>(1.6)</u>
	<u>31 - 150</u>	<u>1/8</u>	<u>(3.2)</u>	<u>1/4</u>	<u>(6.4)</u>
	<u>151 - 300</u>	<u>1/4</u>	<u>(6.4)</u>	<u>3/8</u>	<u>(9.5)</u>

<sup>a</sup> Measurements are to be made with solid wire of adequate ampacity for the applied load connected to each terminal. In no case shall the wire be smaller than 18 AWG (0.82 mm<sup>2</sup>).

<sup>b</sup> Rigidly clamped assemblies include such parts as contact springs on relays or cam switches, printed-wiring boards, and the like.

<sup>c</sup> Spacings less than those indicated are permitted for printed-wiring board traces of circuits involving integrated circuits and similar components where the spacing between adjacent connecting wires on the component is less than 1/32 inch (0.8 mm).



**BSR/UL 2238 - Cable Assemblies and Fittings for Industrial Control and Signal Distribution**

13.5.3 A wire lead of an assembled-on device intended for field wiring shall be: to either a grounded conductor or a grounding conductor shall be identified in accordance with Table 13.2.

- a) Grounding conductor - Green with or without one or more yellow stripes;
- b) All other conductors - Any color, with or without one or more stripes, except green with or without one or more yellow stripes.

*Exception No. 1: Assemblies where equipment grounding is not required shall be permitted to use the solid color green for other than equipment grounding.*

*Exception No. 2: Assemblies that include a bicolor green-and-yellow conductor for equipment grounding shall be permitted to use the solid color green for other than equipment grounding.*

**Table 13.2****Identification of wire leads**

<b>Identification</b>	<b>Grounded conductor</b>	<b>Grounding conductor</b>	<b>All other conductors</b>
Color of braid <sup>b</sup>	Solid white or gray (without tracer)	Not applicable	White or gray with tracer in braid or solid color other than white, gray, or green <sup>a</sup> (without tracer)
	Color other than white, gray or green <sup>a</sup> , with tracer in braid	Not applicable	Solid color other than white, gray, or green <sup>a</sup> (without tracer)
Color of insulation <sup>b</sup>	Solid white or gray; stripe, white or gray, on contrasting color other than green <sup>a</sup>	Green with or without one or more yellow stripes	Solid color other than white, gray, or green <sup>a</sup>
Color of separator <sup>b</sup>	Solid white or gray	Not applicable	Solid color other than white, gray, or green <sup>a</sup>
<sup>a</sup> -A green wire, with or without one or more yellow stripes, shall be used only as an equipment-grounding conductor.			
<sup>b</sup> -Where color of braid, insulation, or separator is used for identification, all conductors shall be untinned.			