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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: June 11, 2017

BPI (Building Performance Institute)

Revision

BSR/BPI 1200-S-201x, Standard Practice for Basic Analysis of Buildings (revision of ANSI/BPI 1200-S-2015)

Defines the minimum criteria for conducting building-science-based inspections and diagnostic testing of existing detached single-family dwellings and townhouses that meet certain criteria. The building evaluation will address energy usage, and limited aspects of building durability and occupant health and safety. This standard parallels ANSI/BPI 1100-T-2014, Home Energy Auditing Standard, and provides specific procedures regarding how to meet the requirements detailed in BPI 1100-T.

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

Send comments (with copy to psa@ansi.org) to: Susan Carson, (877) 274-1274, standards@bpi.org

NSF (NSF International)

Revision

BSR/NSF 42-201x (i93r1), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42-2016)

It is the purpose of this Standard to establish minimum requirements for materials, design and construction, and performance of drinking-water treatment systems that are designed to reduce specific aesthetic-related (non-health effects) contaminants in public or private water supplies. This Standard also specifies the minimum product literature and labeling information that a manufacturer shall supply to authorized representatives and system owners as well as the minimum service-related obligations that the manufacturer shall extend to system owners.

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

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

NSF (NSF International)

Revision

BSR/NSF 42-201x (i94r1), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42-2016)

It is the purpose of this Standard to establish minimum requirements for materials, design and construction, and performance of drinking-water treatment systems that are designed to reduce specific aesthetic-related (non-health effects) contaminants in public or private water supplies. This Standard also specifies the minimum product literature and labeling information that a manufacturer shall supply to authorized representatives and system owners as well as the minimum service-related obligations that the manufacturer shall extend to system owners.

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

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

NSF (NSF International)

Revision

BSR/NSF 44-201x (i42r1), Residential Cation Exchange Water Softeners (revision of ANSI/NSF 44-2016)

The purpose of this Standard is to establish minimum requirements for materials, design and construction, and performance of residential cation-exchange water softeners. This Standard also specifies the minimum product literature that manufacturers shall supply to authorized representatives and owners, as well as the minimum service-related obligations that manufacturers shall extend to owners.

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

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

NSF (NSF International)

Revision

BSR/NSF 53-201x (i106r1), Drinking Water Treatment Units - Health Effects (revision of ANSI/NSF 53-2016)

It is the purpose of this Standard to establish minimum requirements for materials, design and construction, and performance of point-of-use and point-of-entry drinking-water treatment systems that are designed to reduce specific health-related contaminants in public or private water supplies. Such systems include point-of-entry drinking water treatment systems used to treat all or part of the water at the inlet to a residential facility or a bottled water production facility, and includes the material and components used in these systems.

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

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

NSF (NSF International)

Revision

BSR/NSF 55-201x (i43r1), Ultraviolet Microbiological Water Treatment Systems (revision of ANSI/NSF 55-2016)

The purpose of this Standard is to establish minimum requirements for the reduction of microorganisms using ultraviolet radiation (UV). UV water-treatment systems covered by this Standard are intended for water that may be either microbiologically safe or microbiologically unsafe. This Standard also specifies the minimum product literature and labeling information that a manufacturer shall supply to authorized representatives and system owners, as well as the minimum service-related obligations that the manufacturer shall extend to system owners.

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

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

NSF (NSF International)

Revision

BSR/NSF 58-201x (i78r1), Reverse Osmosis Drinking Water Treatment Systems (revision of ANSI/NSF 58-2016)

The purpose of this Standard is to establish minimum requirements for materials, design and construction, and performance of reverse-osmosis drinking-water treatment systems. This Standard also specifies the minimum product literature that manufacturers shall supply to authorized representatives and owners, as well as the minimum service-related obligations that manufacturers shall extend to system owners.

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

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

NSF (NSF International)**Revision**

BSR/NSF 62-201x (i32r1), Drinking Water Distillation Systems (revision of ANSI/NSF 62-2016)

This standard establishes minimum materials, design and construction, and performance requirements for point-of-use and point-of-entry drinking-water distillation systems and the components used in these systems. Distillation systems covered by this standard are designed to reduce specific chemical contaminants from potable drinking water supplies. Systems covered under this standard may also be designed to reduce microbiological contaminants, including bacteria, viruses, and cysts, from potable drinking water supplies. It is recognized that a system may be effective in controlling one or more of these contaminants, but systems are not required to control all.

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

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

NSF (NSF International)**Revision**

BSR/NSF 401-201x (i8r1), Drinking water treatment units - Emerging compounds/incidental contaminants (revision of ANSI/NSF 401-2016)

The purpose of this Standard is to establish minimum requirements for materials, design and construction, and performance of drinking water treatment systems that are designed to reduce emerging compounds in public or private water supplies, such as pharmaceutical, personal care products (PPCPs), and endocrine disrupting compounds (EDCs).

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

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

RESNET (Residential Energy Services Network, Inc.)**Addenda**

BSR/RESNET/ICC 301-201x, Addendum E-201x, Index Adjustment Factors (addenda to ANSI/RESNET/ICC 301-2014)

Modification of ANSI/RESNET/ICC 301-2014 to incorporate new provisions for calculating energy rating indexes that adjust for size and configuration. (Electronic copy of the amendment and the changes to draft PDS-02 can be downloaded from the RESNET website by following the links from web page <http://www.resnet.us/blog/resnet-consensus-standards/>.)

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

Send comments (with copy to psa@ansi.org) to: Comments are submitted via RESNET's online comment form. See the links from webpage: <http://www.resnet.us/blog/resnet-consensus-standards/>

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

BSR/UL 1-201X, Standard for Safety for Flexible Metal Conduit (revision of ANSI/UL 1-2007 (R2012))

(1) Eliminate minimum strip thickness for RWFMC and removal of XRWFMC.

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

Send comments (with copy to psa@ansi.org) to: Joshua Johnson, (919) 549-1053, Joshua.Johnson@ul.com

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

BSR/UL 778-201x, Standard for Safety for Motor-Operated Water Pumps (revision of ANSI/UL 778-2016)

These requirements cover submersible and nonsubmersible motor-operated pumps intended to be used in ordinary locations in accordance with the National Electrical Code, NFPA 70.

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

Send comments (with copy to psa@ansi.org) to: Megan Monsen, (847) 664-1292, megan.monsen@ul.com

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

BSR/UL 962-201x, Standard for Household and Commercial Furnishings (revision of ANSI/UL 962-2016)

The following topics for the Standard for Standard for Household and Commercial Furnishings, UL 962, are being recirculated: (1) Addition of production line tests.

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

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

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

BSR/UL 1449-201x, Standard for Safety for Surge Protective Devices (revision of ANSI/UL 1449-2016)

(7) Clarifications regarding capacitors. (10) SPDs for wind turbine applications. (11) SPDs in high altitudes.

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

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

Comment Deadline: June 26, 2017**AAMI (Association for the Advancement of Medical Instrumentation)****New National Adoption**

BSR/AAMI/ISO 80369-3/Amd1-201x, Small-bore connectors for liquids and gases in healthcare applications -- Part 3: Connectors for enteral applications/Amd1 (identical national adoption of ISO 80369-3:2016/Amd1)

Modification to Scope of 80369-3: Remove the following text from the bulleted list under "This part of ISO 80369 does not specify requirements for small-bore connectors that are used for the following: 'Medical devices for rectal drainage, rectal administration of medicines or fluid, and any other rectal access medical device.'"

Single copy price: Free

Obtain an electronic copy from: https://standards.aami.org/kws/groups/PUBLIC_REV/documents

Order from: https://standards.aami.org/kws/groups/PUBLIC_REV/documents

Send comments (with copy to psa@ansi.org) to: celliot@aami.org

AAMI (Association for the Advancement of Medical Instrumentation)

New National Adoption

BSR/AAMI/ISO 80369-3/Amd2-201x, Small-bore connectors for liquids and gases in healthcare applications -- Part 3: Connectors for enteral applications/Amd2 (identical national adoption of ISO 80369-3:2016/Amd2)

The scope of this new work item proposal is limited to the specific dimensional changes/additions. No further revision is suggested or endorsed. The purpose of this new work item proposal is to amend ISO 80369-3 to revise the through bore of the male connector to return to the dimension that was used for all of the misconnection analysis which was performed during the development of the connector. The through bore will also be further specified denoting a maximum draft angle for a minimum distance.

Single copy price: Free

Obtain an electronic copy from: https://standards.aami.org/kws/groups/PUBLIC_REV/documents

Order from: https://standards.aami.org/kws/groups/PUBLIC_REV/documents

Send comments (with copy to psa@ansi.org) to: celliot@aami.org

APSP (Association of Pool & Spa Professionals)

Revision

BSR/APSP/ICC 11-201x, Standard for Water Quality in Public Pools and Spas (revision and redesignation of ANSI/APSP 11-2009)

This standard covers public swimming pools and spas to be used for bathing and operated by an owner, licensee, or concessionaire, regardless of whether a fee is charged for use.

Single copy price: Free

Obtain an electronic copy from: shilaski@apsp.org

Order from: Susan Hilaski, (703) 838-0083 X150, shilaski@apsp.org

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

APSP (Association of Pool & Spa Professionals)

Revision

BSR/APSP/ICC 16-201x, Standard for Suction Outlet Fitting Assemblies for Use in Pools, Spas, and Hot Tubs (revision and redesignation of ANSI/APSP 16-2011)

This standard establishes materials, testing, use, installation, and marking requirements for new or replacement bather-accessible Suction Outlet Fitting Assemblies (SOFAs), other than maintenance drains, that are designed to be fully submerged for use in any pool, which include, but are not limited to a swimming pool, hot tub, spa, portable spa, or non-portable wading pool, or other aquatic venue intended for swimming or recreational bathing. The term "pool" is used throughout this standard as an identifier for these bodies of water. This standard becomes effective 18 months after adoption by US Consumer Product Safety Commission (CPSC).

Single copy price: Free

Obtain an electronic copy from: shilaski@apsp.org

Order from: Susan Hilaski, (703) 838-0083 X150, shilaski@apsp.org

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

ASABE (American Society of Agricultural and Biological Engineers)

Revision

BSR/ASABE S613-3.1 MONYEAR-201x, Tractors and self-propelled machinery for agriculture - Air quality systems for cabs - Part 3: Filters for environmental cab HVAC systems (revision and redesignation of ANSI/ASABE S613-3-JUN2013)

This document is intended to be a guide for engineers who are responsible for designs used in agricultural applications and for application specialists who are looking for a filter to be used when operating in a specific hazardous environment. Filter performance specifications for the cab and HVAC system will be a primary consideration in this part of the standard. These performance specifications may be used by cab designers and filter manufacturers to develop air purification devices that can be used in a specific HVAC system for reduction of application specific air-borne contaminants as part of an OHSMS as defined in Part 1.

Single copy price: \$58.00

Obtain an electronic copy from: vangilder@asabe.org

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

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

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

New Standard

BSR/ASHRAE Standard 209-201x, Energy Simulation Aided Design for Buildings except Low-Rise Residential Buildings (new standard)

The purpose of ASHRAE Standard 209P is to define minimum requirements for providing energy design assistance using building energy simulation and analysis.

Single copy price: \$35.00

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

Order from: standards.section@ashrae.org

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

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

BSR/ASME A112.18.1-2012 (R201x)/CSA B125.1-2012 (R201x), Plumbing Fixture Fittings (reaffirmation of ANSI/ASME A112.18.1-2012/CSA B125.1-2012)

This Standard covers plumbing supply fittings and accessories located between the supply stop and the terminal fitting, inclusive, as follows:

- (a) automatic compensating valves for individual wall-mounted showering systems;
- (b) bath and shower supply fittings;
- (c) bidet supply fittings;
- (d) clothes washer supply fittings;
- (e) drinking fountain supply fittings;
- (f) humidifier supply stops;
- (g) kitchen, sink, and lavatory supply fittings;
- (h) laundry tub supply fittings;
- (i) lawn and sediment faucets;
- (j) metering and self-closing supply fittings;
- (k) shower heads, hand-held showers, and body sprays; and
- (l) supply stops.

Single copy price: \$130.00

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

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

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

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

BSR/ASME B31.9-201x, Building Services Piping (revision of ANSI/ASME B31.9-2014)

This Code Section has rules for the piping in industrial, institutional, commercial, and public buildings, and multi-unit residences, which does not require the range of sizes, pressures, and temperatures covered in B31.1. This Code prescribes requirements for the design, materials, fabrication, installation, inspection, examination, and testing of piping systems for building services. It includes piping systems in the building or within the property limits.

Single copy price: Free

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

Order from: Mayra Santiago, ASME; ansibox@asme.org

Send comments (with copy to psa@ansi.org) to: Umberto D'Urso, (212) 591-8535, dursou@asme.org

ASSE (Safety) (American Society of Safety Engineers)**Revision**

BSR/ASSE Z390.1-201X, Accepted Practices for Hydrogen Sulfide (H2S) Training Programs (revision of ANSI/ASSE Z390.1-2006 (R2010))

This standard sets forth accepted practices for hydrogen sulfide (H2S) safety training and instruction of affected personnel to include, but not be limited to, the following: Minimum informational content of the course; Recommended exercises and drills; Properties and characteristics of H2S; Sources of H2S and areas of potential exposure; Typical site-specific safe work practices associated with H2S operations; Detection methods for H2S; Engineering/mitigation controls; Properties, characteristics and safe work practices of Sulfur Dioxide (SO2).

Single copy price: \$77.00

Order from: Ovidiu Munteanu, (847) 232-2012, OMunteanu@ASSE.org

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

AWS (American Welding Society)**New Standard**

BSR/AWS D16.6M/D16.6-201x, Specification for Robot Arc Welding Training and Testing Cell (new standard)

This document specifies the recommended design, integration, installation, and use of robotic arc-welding systems used to train and certify operators and technicians under the AWS Certified Robotic Arc Welding (CRAW) program. Robotic and automatic arc-welding systems consist of an arc-welding power source, arc-welding torches and accessories, robot/manipulator, shielding gas delivery system, welding electrode feeding equipment, welding circuit, communication control wiring, and system grounding. An example of a typical Robotic Arc Welding Cell is shown in Figure 1 of the standard. This document assumes that the robot training and testing will utilize GMAW or FCAW processes

Single copy price: \$48.00

Obtain an electronic copy from: pportela@aws.org

Order from: Peter Portela, (800) 443-9353, pportela@aws.org

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

AWS (American Welding Society)**Revision**

BSR/AWS D9.1M/D9.1-201x, Sheet Metal Welding Code (revision of ANSI/AWS D9.1M/D9.1-2012)

This code provides qualification, workmanship, and inspection requirements for both arc welding (Part A) and braze welding (Part B), as they apply to the fabrication, manufacture, and erection of nonstructural sheet metal components and systems.

Single copy price: \$40.00

Obtain an electronic copy from: jmolin@aws.org

Order from: Jennifer Molin, (305) 443-9353, jmolin@aws.org

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

AWS (American Welding Society)**Revision**

BSR/AWS D10.18M/D10.18-201x, Guide for Welding Ferritic/Austenitic Duplex Stainless Steel Piping and Tubing (revision of ANSI/AWS D10.18M/D10.18-2008)

This standard presents a detailed discussion of the metallurgical and welding characteristics and weldability of duplex stainless steel used in piping and tubing. A number of tables and graphs are presented in order to illustrate the text.

Single copy price: \$32.00

Obtain an electronic copy from: sborrero@aws.org

Order from: Stephen Borrero, (305) 443-9353, sborrero@aws.org

Send comments (with copy to psa@ansi.org) to: adavis@aws.org

IAPMO (International Association of Plumbing & Mechanical Officials)**Revision**

BSR/CSA B45.11/IAPMO Z401-201x, Glass plumbing fixtures (revision of ANSI/CSA B45.11/IAPMO Z401-2011)

This Standard covers lavatories and sinks made of glass and specifies test methods, performance requirements, and marking requirements.

Single copy price: \$10.00

Obtain an electronic copy from: standards@iapmostandards.org

Order from: Kyle Thompson, (909) 230-5534, kyle.thompson@iapmostandards.org

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

IEST (Institute of Environmental Sciences and Technology)

New National Adoption

BSR/ISO 14644-13-201x, Cleanrooms and associated controlled environments - Part 13: Cleaning of surfaces to achieve defined levels of cleanliness in terms of particle and chemical classifications (identical national adoption of ISO/FDIS 14644-13)

This document gives guidelines for cleaning to a specified degree on cleanroom surfaces, surfaces of equipment in a cleanroom and surfaces of materials in a cleanroom. Under consideration are all surfaces (external or internal) that are of interest. It provides guidance on the assessment of cleaning methods for achieving the required surface cleanliness by particle concentration (SCP) and surface cleanliness by chemical concentration (SCC) classes and which techniques should be considered to achieve these specified levels.

Single copy price: \$80.00

Obtain an electronic copy from: jsklena@iest.org

Order from: Jennifer Sklena, (847) 981-0100, jsklena@iest.org; iestservices@iest.org

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

NECA (National Electrical Contractors Association)

New Standard

BSR/NECA 111-201X, Standard for Installing Nonmetallic Raceways (RNC, ENT,LFNC) (new standard)

This standard describes installation procedures for nonmetallic raceways of circular cross-section used for electrical power wire and cable, communications wiring, or fiber optic cables.

Single copy price: \$40.00

Obtain an electronic copy from: neis@necanet.org

Order from: neis@necanet.org

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

TIA (Telecommunications Industry Association)

Addenda

BSR/TIA 1005-A-2-201x, Telecommunications Infrastructure Standard for Industrial Premises - Addendum 2, Performance requirements for four-pair industrial cables and cabling supporting 1000BASE-T for MICE2 and MICE3 environments (addenda to ANSI/TIA 1005-A-2012)

Creates an addendum to ANSI/TIA 1005-A, defining enhanced performance requirements for four-pair industrial cables and cabling supporting 1000BASE-T in MICE2 and MICE3 environments. This addendum will use connectivity already specified in ANSI/TIA 1005-A.

Single copy price: \$61.00

Obtain an electronic copy from: standards@tiaonline.org

Order from: TIA; standards@tiaonline.org

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

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 101-201x, Standard for Safety for Current Leakage for Appliances (revision of ANSI/UL 101-2002 (R2012))

(1) Proposed revisions to align testing voltages to voltage characteristics of the appliance being tested; (2) Proposed revisions to remove footnotes from UL 101.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

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

Comment Deadline: July 11, 2017

ASME (American Society of Mechanical Engineers)

Reaffirmation

BSR/ASME B18.5-2012 (R201x), Round Head Bolts (Inch Series) (reaffirmation of ANSI/ASME B18.5-2012)

This Standard covers the complete general and dimensional data for the various types of inch series bolts generally classified as round head bolts.

Single copy price: \$31.00

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

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

ASME (American Society of Mechanical Engineers)

Revision

BSR/ASME N511-201x, In-Service Testing of Nuclear Air Treatment, Heating, Ventilating, and Air-Conditioning Systems (revision of ANSI/ASME N511-2007 (R2013))

This Standard covers the requirements for in-service testing of nuclear safety-related air treatment, heating, ventilating, and air-conditioning systems in nuclear facilities.

Single copy price: Free

Order from: Mayra Santiago, ASME; ansibox@asme.org

Send comments (with copy to psa@ansi.org) to: Kimberly Verderber, (212) 591-8721, verderber@asme.org

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

New Standard

BSR INCITS 538-201x, Information technology - SAS Protocol Layer - 4 (new standard)

SAS Protocol Layer - 4 is the next generation of the protocol portion of the current Serial Attached SCSI. It follows SPL-3, SPL-2, SPL, and the protocol portions of SAS-2, and SAS-1.1. The following items should be considered for inclusion in SAS Protocol Layer - 4: (a) Support of a more efficient signal encoding and higher data rates proposed for SAS-4; (b) Enhancements to the protocol; (c) Corrections and clarifications; and (d) Other capabilities that may fit within the scope of this project.

Single copy price: Free

Obtain an electronic copy from: https://standards.incits.org/apps/group_public/document.php?document_id=87687&wg_abbrev=eb

Order from: https://standards.incits.org/apps/group_public/document.php?document_id=87687&wg_abbrev=eb

Send comments (with copy to psa@ansi.org) to: comments@standards.incits.org

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:

ASTM (ASTM International)

BSR/ASTM D7066-201x, Test Method for Dimer/Trimer of Chlorotrifluoroethylene (S-316) Recoverable Oil and Grease and Nonpolar Material by Infrared Determination (reaffirmation of ANSI/ASTM D7066-2004 (R2011))

Inquiries may be directed to Corice Leonard, (610) 832-9744, accreditation@astm.org

Notice of Withdrawn ANS by an ANSI-Accredited Standards Developer

In accordance with clause 4.2.1.3.2 Withdrawal by ANSI-Accredited Standards Developer of the ANSI Essential Requirements, the following American National Standards have been withdrawn as an ANS.

ASTM (ASTM International)

ANSI/ASTM D7066-2004 (R2011), Test Method for Dimer/Trimer of Chlorotrifluoroethylene (S-316) Recoverable Oil and Grease and Nonpolar Material by Infrared Determination

Questions may be directed to: Corice Leonard, (610) 832-9744, accreditation@astm.org

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.

ALI (ASC A14) (American Ladder Institute)

Office: 330 N. Wabash Avenue, Suite 2000
Chicago, IL 60611

Contact: Ben Barclay

Phone: (312) 673-5923

E-mail: bbarclay@americanladderinstitute.org

BSR A14.1-201x, Standard for Ladders - Wood Safety Requirements
(revision of ANSI A14.1-2007)

BSR A14.9-201x, Standard Safety Requirements for Disappearing Attic
Stairways (revision of ANSI A14.9-2010)

DASMA (Door and Access Systems Manufacturers Association)

Office: 1300 Sumner Avenue
Cleveland, OH 44115-2851

Contact: Christopher Johnson

Phone: (216) 241-7333

Fax: (216) 241-0105

E-mail: cjohnson@thomasamc.com

BSR/DASMA 109-201x, Standard Method for Testing Garage Doors:
Determination of Life Cycling Performance (revision of ANSI/DASMA
109-2001 (R2007))

BSR/DASMA 116-201x, Standard for Section Interfaces on Residential
Garage Door Systems (revision of ANSI/DASMA 116-2011)

BSR/DASMA 203-201x, Standard for Rolling Doors (new standard)

BSR/DASMA 204-201x, Standard for Fire-Rated Rolling Door
Assemblies (new standard)

BSR/DASMA 207-201x, Standard for Rolling Doors (revision of
ANSI/DASMA 207-2012)

ISEA (ASC Z87) (International Safety Equipment Association)

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Contact: Cristine Fargo

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Fax: (703) 525-1698

E-mail: cfargo@safetysafetyequipment.org

BSR ISEA Z87.62-201x, Eye and Face Protection Used against
Biological Hazards (new standard)

NECA (National Electrical Contractors Association)

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

Contact: Agnieszka Golriz

Phone: (301) 215-4549

E-mail: Aga.golriz@necanet.org

BSR/NECA 111-201X, Standard for Installing Nonmetallic Raceways
(RNC,ENT,LFNC) (new standard)

NSF (NSF International)

Office: 789 N. Dixboro Road
Ann Arbor, MI 48105-9723

Contact: Monica Leslie

Phone: (734) 827-5643

Fax: (734) 827-7880

E-mail: mleslie@nsf.org

BSR/NSF 42-201x (i93r1), Drinking Water Treatment Units - Aesthetic
Effects (revision of ANSI/NSF 42-2016)

BSR/NSF 42-201x (i94r1), Drinking Water Treatment Units - Aesthetic
Effects (revision of ANSI/NSF 42-2016)

BSR/NSF 44-201x (i42r1), Residential Cation Exchange Water
Softeners (revision of ANSI/NSF 44-2016)

BSR/NSF 53-201x (i106r1), Drinking Water Treatment Units - Health
Effects (revision of ANSI/NSF 53-2016)

BSR/NSF 55-201x (i43r1), Ultraviolet Microbiological Water Treatment
Systems (revision of ANSI/NSF 55-2016)

BSR/NSF 58-201x (i78r1), Reverse Osmosis Drinking Water Treatment
Systems (revision of ANSI/NSF 58-2016)

BSR/NSF 62-201x (i32r1), Drinking Water Distillation Systems (revision
of ANSI/NSF 62-2016)

BSR/NSF 401-201x (i8r1), Drinking water treatment units - Emerging
compounds/incidental contaminants (revision of ANSI/NSF 401-2016)

UL (Underwriters Laboratories, Inc.)

Office: 333 Pfingsten Road
Northbrook, Illinois 60062

Contact: *Megan Monsen*

Phone: (847) 664-1292

E-mail: megan.monsen@ul.com

BSR/UL 778-201x, Standard for Safety for Motor-Operated Water Pumps (revision of ANSI/UL 778-2016)

BSR/UL 962-201x, Standard for Household and Commercial Furnishings (revision of ANSI/UL 962-2016)

WCMA (Window Covering Manufacturers Association)

Office: 17 Faulkner Drive
Niantic, CT 06357

Contact: *Michael Tierney*

Phone: (860) 944-4264

E-mail: mtierney@kellencompany.com

BSR/WCMA A100.1-201x, Standard for Safety of Window Covering Products (revision of ANSI/WCMA A100.1-2014)

Call for Members (ANS Consensus Bodies)

Call for Committee Members

ASC O1 – Safety Requirements for Woodworking Machinery

Are you interested in contributing to the development and maintenance of valuable industry safety standards? The ASC O1 is currently looking for members in the following categories:

- General Interest
- Government
- Producer
- User

If you are interested in joining the ASC O1, contact WMMA Associate Director Jennifer Miller at jennifer@wmma.org.

Final Actions on American National Standards

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

ASABE (American Society of Agricultural and Biological Engineers)

Reaffirmation

ANSI/ASAE S315.4-2012 (R2017), Agricultural Baling Twine for Automatic Balers (reaffirmation of ANSI/ASAE S315.4-2012): 5/4/2017

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

Addenda

ANSI/ASHRAE Addendum 55c-2017, Thermal Environmental Conditions for Human Occupancy (addenda to ANSI/ASHRAE Standard 55-2013): 5/1/2017

ANSI/ASHRAE Standard 140a-2017, Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs (addenda to ANSI/ASHRAE Standard 140-2014): 5/1/2017

ANSI/ASHRAE/ICC/USGBC/IES 189.1.ax-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014): 5/1/2017

ANSI/ASHRAE/ICC/USGBC/IES 189.1ah-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014): 5/1/2017

ANSI/ASHRAE/ICC/USGBC/IES 189.1aj-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014): 5/1/2017

ANSI/ASHRAE/ICC/USGBC/IES 189.1ap-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014): 5/1/2017

ANSI/ASHRAE/ICC/USGBC/IES 189.1ba-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014): 5/1/2017

ANSI/ASHRAE/ICC/USGBC/IES 189.1v-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014): 5/1/2017

ANSI/ASHRAE/ICC/USGBC/IES 189.1w-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014): 5/1/2017

ASME (American Society of Mechanical Engineers)

Reaffirmation

ANSI/ASME A112.1.2-2012 (R2017), Air Gaps in Plumbing Systems (for Plumbing Fixtures and Water-Connected Receptors) (reaffirmation of ANSI/ASME A112.1.2-2012): 5/4/2017

ANSI/ASME A112.3.1-2007 (R2017), Stainless Steel Drainage Systems for Sanitary DWV, Storm, and Vacuum Applications, Above and Below Ground (reaffirmation of ANSI/ASME A112.3.1-2007 (R2012)): 5/4/2017

ANSI/ASME A112.6.1M-1997 (R2017), Floor-Affixed Supports for Off-the-Floor Plumbing Fixtures for Public Use (reaffirmation of ANSI/ASME A112.6.1M-1997 (R2012)): 5/4/2017

ANSI/ASME A112.14.1-2003 (R2017), Backwater Valves (reaffirmation of ANSI/ASME A112.14.1-2003 (R2012)): 5/4/2017

ANSI/ASME A112.14.4-2001 (R2017), Grease Removal Devices (reaffirmation of ANSI/ASME A112.14.4-2001 (R2012)): 5/4/2017

ANSI/ASME A112.18.3-2002 (R2017), Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixture Fittings (reaffirmation of ANSI/ASME A112.18.3-2002 (R2012)): 5/4/2017

ANSI/ASME A112.19.15-2012 (R2017), Bathtubs/Whirlpool Bathtubs with Pressure Sealed Doors (reaffirmation of ANSI/ASME A112.19.15-2012): 5/4/2017

ANSI/ASME A112.21.3M-1985 (R2017), Hydrants for Utility and Maintenance Use (reaffirmation of ANSI/ASME A112.21.3-1985 (R2007)): 5/4/2017

ANSI/ASME A112.36.2M-2008 (R2017), Cleanouts (reaffirmation of ANSI/ASME A112.36.2M-2008 (R2012)): 5/4/2017

Revision

ANSI/ASME OM-2017, Operation and Maintenance of Nuclear Power Plants (revision of ANSI/ASME OM-2015): 5/4/2017

ASTM (ASTM International)

New Standard

ANSI/ASTM F409-2017, Specification for Thermoplastic Accessible and Replaceable Plastic Tube and Tubular Fittings (new standard): 4/28/2017

ANSI/ASTM F512-2017, Specification for Smooth-Wall Poly(Vinyl Chloride) (PVC) Conduit and Fittings for Underground Installation (new standard): 4/28/2017

Reaffirmation

ANSI/ASTM E814-2013 (R2017), Test Method for Fire Tests of Penetration Firestop Systems (reaffirmation of ANSI/ASTM E814-2013): 4/28/2017

ANSI/ASTM E2032-2009 (R2017), Guide for Extension of Data from Fire Resistance Tests Conducted in Accordance with ASTM E 119 (reaffirmation of ANSI/ASTM E2032-2009 (R2013)): 4/28/2017

ANSI/ASTM E2837-2017, Test Method for Determining the Fire Resistance of Continuity Head-of-Wall Joint Systems Installed between Rated Wall Assemblies and Nonrated Horizontal Assemblies (reaffirmation of ANSI/ASTM E2837-2013): 4/28/2017

ANSI/ASTM F1704-2012 (R2017), Test Method for Capture and Containment Performance of Commercial Kitchen Exhaust Ventilation Systems (reaffirmation of ANSI/ASTM F1704-2012): 4/28/2017

ANSI/ASTM F2117-2010 (R2017), Test Method for Vertical Rebound Characteristics of Sports Surface/Ball Systems; Acoustical Measurement (reaffirmation of ANSI/ASTM F2117-2010): 4/28/2017

ANSI/ASTM F2272-2013 (R2017), Specification for Paintball Markers (reaffirmation of ANSI/ASTM F2272-2013): 4/28/2017

ANSI/ASTM F2334-2009 (R2017), Guide for Above Ground Public Use Skatepark Facilities (reaffirmation of ANSI/ASTM F2334-2009): 4/28/2017

ANSI/ASTM F2480-2006 (R2017), Guide for In-Ground Concrete Skatepark (reaffirmation of ANSI/ASTM F2480-2006 (R2012)): 4/28/2017

ANSI/ASTM F2773-2013 (R2017), Practice for Transfilling Compressed Air or Nitrogen and Safe Handling of Small Paintball Cylinders (reaffirmation of ANSI/ASTM F2773-2013): 4/28/2017

ANSI/ASTM F2800-2011 (R2017), Specification for Recirculating Hood System for Cooking Appliances (reaffirmation of ANSI/ASTM F2800-2011): 4/28/2017

ANSI/ASTM F2842-2011 (R2017), Specification for Reins Used in Thoroughbred and Quarter Horse Racing (reaffirmation of ANSI/ASTM F2842-2011): 4/28/2017

ANSI/ASTM F2940-2013 (R2017), Practice for Air Soft Field Operation (reaffirmation of ANSI/ASTM F2940-2013): 4/28/2017

ANSI/ASTM F2941-2013 (R2017), Practice for Air Soft Player Safety Briefing (reaffirmation of ANSI/ASTM F2941-2013): 4/28/2017

ANSI/ASTM F2975-2012 (R2017), Test Method for Measuring the Field Performance of Commercial Kitchen Ventilation Systems (reaffirmation of ANSI/ASTM F2975-2012): 4/28/2017

Revision

ANSI/ASTM E648-2017, Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source (revision of ANSI/ASTM E648-2015): 4/28/2017

ANSI/ASTM E2957-2017, Test Method for Resistance to Wildfire Penetration of Eaves, Soffits and Other Projections (revision of ANSI/ASTM E2957-2015): 5/1/2017

ANSI/ASTM F1292-2017, Specification for Impact Attenuation of Surfacing Materials within the Use Zone of Playground Equipment (revision of ANSI/ASTM F1292-2013): 5/1/2017

ANSI/ASTM F1817-2017, Test Method for Performance of Conveyor Ovens (revision of ANSI/ASTM F1817-2009): 4/28/2017

ANSI/ASTM F2216-2017, Specification for Selectorized Strength Equipment (revision of ANSI/ASTM F2216-2012): 4/28/2017

ANSI/ASTM F2479-2017, Guide for Specification, Purchase, Installation and Maintenance of Poured-In-Place Playground Surfacing (revision of ANSI/ASTM F2479-2012): 4/28/2017

ANSI/ASTM F3021-2017, Specification for Universal Design of Fitness Equipment for Inclusive Use by Persons with Functional Limitations and Impairments (revision of ANSI/ASTM F3021-2016): 4/28/2017

AWWA (American Water Works Association)

Revision

ANSI/AWWA C907-2017, 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 C907-2012): 5/4/2017

IEEE (Institute of Electrical and Electronics Engineers)

New Standard

ANSI/IEEE 1149.6-2015, Standard for Boundary-Scan Testing of Advanced Digital Networks (new standard): 5/4/2017

ANSI/IEEE 1673-2015, Standard for Requirements for Conduit and Cable Seals for Field Connected Wiring to Equipment in Petroleum and Chemical Industry Exposed to Pressures above Atmospheric (1.5 kPa, 0.22 psi) (new standard): 5/5/2017

ANSI/IEEE 1815.1-2015, Standard for Exchanging Information between networks Implementing IEC 61850 and IEEE Std 1815(TM) (Distributed Network Protocol - DNP3) (new standard): 5/5/2017

ANSI/IEEE 1844-2015, Standard Test Procedure for Determining Circuit Integrity Performance of Fire Resistive Cables in Nuclear Facilities (new standard): 5/8/2017

ANSI/IEEE 1906.1-2015, Recommended Practice for Nanoscale and Molecular Communication Framework (new standard): 5/5/2017

NSF (NSF International)

Revision

* ANSI/NSF 25-2017 (i11r1), Vending Machines for Food and Beverages (revision of ANSI/NSF 25-2012): 5/7/2017

UL (Underwriters Laboratories, Inc.)

New National Adoption

* ANSI/UL 60335-2-24-2017, Standard for Household and Similar Electrical Appliances - Safety - Part 2-24: Particular Requirements for Refrigerating Appliances, Ice-Cream Appliances and Ice-Makers (national adoption of IEC 60335-2-24 with modifications and revision of ANSI/UL 60335-2-24-2006 (R2011)): 4/28/2017

* ANSI/UL 60335-2-24-2017a, Household and Similar Electrical Appliances, Part 2: Particular Requirements for Refrigerating Appliances, Ice-Cream Appliances and Ice-Makers (national adoption of IEC 60335-2-24 with modifications and revision of ANSI/UL 60335-2-24-2006 (R2011)): 4/28/2017

* ANSI/UL 62841-2-11-2017, Standard for Safety for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 2-11: Particular Requirements for Hand-Held Reciprocating Saws (identical national adoption of IEC 62841-2-11): 3/27/2017

New Standard

ANSI/UL 498C-2017, Standard for Safety for Appliance and Flatiron Plugs (new standard): 4/28/2017

ANSI/UL 1384-2017, Standard for Water-Based Automatic Extinguisher Units (new standard): 5/8/2017

Reaffirmation

ANSI/UL 61131-2-2008 (R2017), Standard for Safety for Programmable Controllers - Part 2: Equipment Requirements and Tests (reaffirmation of ANSI/UL 61131-2-2008 (R2012)): 3/24/2017

Revision

ANSI/UL 498-2017, Standard for Safety for Attachment Plugs and Receptacles (revision of ANSI/UL 498-2016): 4/28/2017

ANSI/UL 555C-2017, Standard for Safety for Ceiling Dampers (Proposal dated 08-19-16) (revision of ANSI/UL 555C-2010 (R2014)): 5/1/2017

ANSI/UL 746E-2017a, Standard for Safety for Polymeric Materials - Industrial Laminates, Filament Wound Tubing, Vulcanized Fibre, and Materials Used in Printed Wiring Boards (revision of ANSI/UL 746E-2017): 5/5/2017

* ANSI/UL 817-2017, Standard for Safety for Cord Sets and Power-Supply Cords (Proposal dated 1/27/17) (revision of ANSI/UL 817-2016): 5/5/2017

* ANSI/UL 817-2017a, Standard for Safety for Cord Sets and Power-Supply Cords (revision of ANSI/UL 817-2016): 5/5/2017

ANSI/UL 1699-2017, Standard for Safety for Arc-Fault Circuit-Interrupters (revision of ANSI/UL 1699-2013): 5/3/2017

ANSI/UL 1821-2017, Standard for Safety for Thermoplastic Sprinkler Pipe and Fittings for Fire Protection Service (revision of ANSI/UL 1821-2015): 5/5/2017

* ANSI/UL 2388-2017, Standard for Safety for Flexible Lighting Products (revision of ANSI/UL 2388-2014): 5/3/2017

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, 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.

ALI (ASC A14) (American Ladder Institute)

Office: 330 N. Wabash Avenue, Suite 2000
Chicago, IL 60611

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E-mail: bbarclay@americanladderinstitute.org

- * BSR A14.1-201x, Standard for Ladders - Wood Safety Requirements (revision of ANSI A14.1-2007)

Stakeholders: Ladder manufacturers, users, contractors, tradespeople.

Project Need: Incorporate updates and necessary changes.

The scope of A14.1 is to define the recommended procedures to produce wood ladders. The products meeting the standard will perform up to load limits that have large factors of safety and still use wood in reasonable strength-to-weight ratios. Species and grade information is included to assist the correct selection of raw material. The standard is one of the oldest in ANSI and is specific to only one product definition in its scope.

- * BSR A14.9-201x, Standard Safety Requirements for Disappearing Attic Stairways (revision of ANSI A14.9-2010)

Stakeholders: Ladder manufacturers, users, contractors, tradespeople.

Project Need: Incorporate updates and necessary changes.

Rules to govern the safe design, construction, testing, and use of permanently installed folding or collapsible fixed aluminum or wood attic ladders of various types. All parts and appurtenances necessary for safe and efficient attic ladders shall be considered integral parts of the design.

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

ANSI/ASAE S493.1-2003 (R2013), Guarding for Agricultural Equipment (withdrawal of ANSI/ASAE S493.1-2003 (R2013))

Stakeholders: Manufacturers of tractors and other farm equipment, academia, and users of farm equipment.

Project Need: Requirements of been placed in revision 18 of ANSI/ASAE S318, Safety for Agricultural Field Equipment.

This Standard provides general guidelines for guarding for agricultural equipment so as to provide a reasonable degree of personal safety for operators and other persons during the normal operation and servicing of such equipment.

BSR/ASAE S354.7 MONYEAR-201x, Safety for Farmstead Equipment (revision and redesignation of ANSI/ASAE S354.6-NOV2016)

Stakeholders: Operators and manufacturers of farmstead equipment, excluding agricultural field equipment.

Project Need: Normative reference, ANSI/ASAE S493.1, Guarding for Agricultural Equipment, is being withdrawn. Content of S493.1 was added to revision 18 of ANSI/ASAE S318, Safety for Agricultural Field Equipment. Revision of S354 and withdrawal of S493.1 will be completed as a package.

Provides a reasonable degree of personal safety for operators and other persons during normal operation and servicing of farmstead equipment. This standard applies to powered farmstead equipment. It does not apply to agricultural field equipment nor to self-propelled mobile equipment such as motor vehicles, all-terrain vehicles, and skid-steer loaders. In addition, it does not apply to farmstead equipment covered by other ASABE safety standards unless it is specifically referenced by these standards.

ASCE (American Society of Civil Engineers)

Office: 1801 Alexander Bell Dr
Reston, VA 20191

Contact: James Neckel

E-mail: jneckel@asce.org

BSR/ASCE/EWRI-201x, Estimation of Aquifer Properties by Inverse Numerical Modeling of Aquifer Pumping Tests (new standard)

Stakeholders: Groundwater hydrogeologists, geotechnical engineers, engineering geologists, soil physicist, and environmental regulators.

Project Need: This proposed standard, a fifth in the series of KSTAT standards, would fill an unmet need, providing practical guidance on interpreting aquifer pumping test data in complex hydrogeologic settings, which are more often the norm rather than the exception.

This proposal is to develop a new standard that provides guidance on estimating aquifer properties by inverse numerical modeling of aquifer pumping tests. This standard would address the gaps in aquifer pumping test analysis described below. The standard would provide the guidance on using a numerical groundwater flow model to simulate an aquifer pumping test and estimating aquifer properties by matching the simulated aquifer response, in both space and time, to observations of head or water level. The standard would describe the methodology for estimating aquifer properties, such as hydraulic conductivity and specific storage, by model calibration to pumping test data.

CSA (CSA Group)

Office: 8501 East Pleasant Valley Rd.
Cleveland, OH 44131

Contact: Cathy Rake

Fax: (216) 520-8979

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BSR LNG 4.1-201x, Liquefied Natural Gas (LNG) Dispensing Systems for Natural Gas Vehicles (new standard)

Stakeholders: Consumers, manufacturers, certifying agencies, suppliers.

Project Need: Create new standard for safe operation and construction of LNG dispensing systems.

A standard for safe operation, substantial and durable construction, and performance testing of components for natural gas vehicle LNG dispensing systems.

BSR Z83.21-201x, Commercial Dishwashers (same as CSA C22.2 No. 168) (revision and redesignation of ANSI Z83.21/CSA C22.2 No. 263/UL 921-2016)

Stakeholders: Consumers, manufacturers, gas suppliers, and certifying agencies.

Project Need: Revised and new text.

Details for test and examination of commercial gas-fired and electric dishwashers for use with natural, manufactured and mixed, and liquefied petroleum gases, and LP gas-air mixtures.

DASMA (Door and Access Systems Manufacturers Association)

Office: 1300 Sumner Avenue
Cleveland, OH 44115-2851

Contact: Christopher Johnson

Fax: (216) 241-0105

E-mail: cjohnson@thomasamc.com

* BSR/DASMA 109-201x, Standard Method for Testing Garage Doors: Determination of Life Cycling Performance (revision of ANSI/DASMA 109-2001 (R2007))

Stakeholders: Producers, users, general interest.

Project Need: Proposed revisions to standard.

This test method describes the evaluation apparatus of the physical cycling performance of a door system under normal operating conditions or other specified conditions. This test method describes the apparatus and the procedure to be used for applying cyclic operation to a test specimen.

* BSR/DASMA 116-201x, Standard for Section Interfaces on Residential Garage Door Systems (revision of ANSI/DASMA 116-2011)

Stakeholders: Producers, users, general interest.

Project Need: Proposed revisions to standard.

This standard defines performance-based and prescriptive-based methods of evaluating section interfaces. Without limitation, DASMA does not represent or imply that this standard relates to any component or system other than section interfaces expressly identified and described in this standard. Inclusions: This specification is intended to cover residential garage door systems generally used for vehicular traffic.

* BSR/DASMA 203-201x, Standard for Rolling Doors (new standard)

Stakeholders: Producers, users, general interest.

Project Need: Define minimum design and performance specifications for non-fire-rated rolling doors in commercial and industrial applications.

This standard defines minimum design and performance specifications for non-fire-rated rolling doors in commercial and industrial applications, consisting of assembled, interlocking slats of steel, stainless steel, or aluminum.

* BSR/DASMA 204-201x, Standard for Fire-Rated Rolling Door Assemblies (new standard)

Stakeholders: Producers, users, general interest.

Project Need: Define minimum design and performance specifications for fire-rated rolling door assemblies in commercial and industrial applications consisting of assembled, interlocking slats of steel or stainless steel.

This standard defines minimum design and performance specifications for fire-rated rolling door assemblies in commercial and industrial applications, consisting of assembled, interlocking slats of steel or stainless steel. This standard for fire-rated rolling door assemblies is intended to cover commercial and industrial type warehouses, factories, and other facilities where a service-counter fire door, fire shutter, or fire door is required to close an opening in a firewall during an emergency. Rolling fire doors intended for frequent use should be designed for high cycle operation.

* BSR/DASMA 207-201x, Standard for Rolling Doors (revision of ANSI/DASMA 207-2012)

Stakeholders: Producers, users, general interest.

Project Need: Proposed revisions to standard.

This standard defines minimum design and performance specifications for non-fire-rated rolling sheet doors. This standard for rolling sheet door assemblies shall be intended to cover commercial- and industrial-type warehouses, factories, self-storage, and other facilities.

ISEA (ASC Z87) (International Safety Equipment Association)

Office: 1901 North Moore Street
Suite 808
Arlington, VA 22209

Contact: Cristine Fargo

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E-mail: cfargo@safetysafetyequipment.org

BSR ISEA Z87.62-201x, Eye and Face Protection Used against Biological Hazards (new standard)

Stakeholders: Healthcare and related personnel, research and healthcare facilities, product manufacturers.

Project Need: Establish minimum performance-oriented standard for a product that is widely used but for which no current standard exists.

This standard sets forth criteria related to the general requirements, testing, permanent marking, selection, care, and use of protectors to minimize or prevent exposure to the wearer's eyes and/or face caused by biological hazards including, but not limited to blood, body fluids, or other potentially infectious materials (OPIMs) or microorganisms, viruses, or toxins from a biological source that can affect human health. This standard is NOT intended to address hazards related to transmission of an infectious agent by particles, dust, or droplet nuclei that are suspended in the air, and which may require other additional forms of protection.

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

Office: 1560 Wilson Blvd.
Suite 850
Arlington, VA 22209-1903

Contact: Yvonne Meding

Fax: (703) 524-6630

E-mail: YMeding@resna.org

- * BSR/RESNA IF-1-201x, RESNA Standard for Inclusive Fitness - Volume 1: Standard for Inclusive Fitness (new standard)

Stakeholders: People with impairment and/or disability and the fitness industry, including: facility operators, trainers, and staff members; fitness equipment manufacturers, designers, and distributors; fitness facilities, gyms, and health clubs connected with a hotel/motel, resort, school, airport, spa, or recreation center (such as YMCA); inclusive fitness researchers and test laboratories; and policy makers.

Project Need: Affects people of all abilities, including those with mobility, cognitive, and/or sensory impairments. Assists people with impairments to identify accessible fitness facilities, trainers, programming, and equipment for inclusive fitness. Helps fitness facility operators, trainers, and staff members to identify materials that are available to them in order to make their fitness environment, including layout, equipment, and programming, more universally accessible to people of all abilities.

This standard discloses available inclusive fitness information, standards, and policies that facilitate accessible fitness environments for people of all abilities, including facility layout, equipment, staff, trainers, programming, and outreach and marketing. This standard will establish additional requirements to address current gaps in the inclusive fitness environment. This standard will specify inclusive access marks/symbols to identify fitness facilities and fitness equipment in mainstream, public facilities that meet access requirements for people with impairments and/or disabilities.

SAAMI (Sporting Arms and Ammunition Manufacturers Institute)

Office: 11 Mile High Road
Newtown, CT 06470-2359

Contact: Randy Bimson

Fax: (203) 426-3592

E-mail: rbimson@saami.org

- * BSR/SAAMI Z299.1-2015 (R201x), Voluntary Industry Performance Standards for Pressure and Velocity of Rimfire Sporting Ammunition for the Use of Commercial Manufacturers (reaffirmation of ANSI/SAAMI Z299.1-2015)

Stakeholders: Commercial manufacturers, test labs, consumers, government agencies.

Project Need: Provide standards for commercial manufacturers of sporting ammunition.

In the interests of safety and interchangeability, this Standard provides pressure and velocity performance and dimensional characteristics for rimfire sporting ammunition. Included are procedures and equipment for determining these criteria.

SCTE (Society of Cable Telecommunications Engineers)

Office: 140 Philips Rd
Exton, PA 19341

Contact: Kim Cooney

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E-mail: kcooney@scte.org

- BSR/SCTE 88-201x, Test Methods for Polyethylene Jacket Longitudinal Shrinkage (revision of ANSI/SCTE 88-2012)

Stakeholders: Cable Telecommunications industry,

Project Need: Update to current technology.

The purpose of this test is to determine the amount of shrinkage of the jacketing material used on coaxial drop and distribution cables. This test procedure is applicable for use on either drop or distribution coaxial cables employing polyethylene (PE) jacketing material.

WCMA (Window Covering Manufacturers Association)

Office: 17 Faulkner Drive
Niantic, CT 06357

Contact: Michael Tierney

E-mail: mtierney@kellenccompany.com

- * BSR/WCMA A100.1-201x, Standard for Safety of Window Covering Products (revision of ANSI/WCMA A100.1-2014)

Stakeholders: Retailers, consumers, manufacturers.

Project Need: Full revision.

The members of the Window Covering Manufacturers Association, Inc. (WCMA), recognizing that unfortunate accidents, including strangulation, have occurred among young children using certain products made or imported by members of the industry, have prepared this Standard in cooperation with the U.S. Consumer Product Safety Commission (CPSC). This Standard applies to all window covering products.

American National Standards Maintained Under Continuous Maintenance

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

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

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

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

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

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

ANSI-Accredited Standards Developers Contact Information

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

<p>AAMI 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: www.aami.org</p>	<p>ASSE (Safety) American Society of Safety Engineers 520 N. Northwest Highway Park Ridge, IL 60068 Phone: (847) 232-2012 Fax: (847) 699-2929 Web: www.asse.org</p>	<p>IEEE Institute of Electrical and Electronics Engineers (IEEE) 445 Hoes Lane Piscataway, NJ 08854 Phone: (732) 562-3854 Fax: (732) 796-6966 Web: www.ieee.org</p>	<p>RESNET Residential Energy Services Network, Inc. 4867 Patina Court Oceanside, CA 92057 Phone: (760) 408-5860 Fax: (760) 806-9449 Web: www.resnet.us.com</p>
<p>ALI (ASC A14) American Ladder Institute 330 N. Wabash Avenue, Suite 2000 Chicago, IL 60611 Phone: (312) 673-5923 Web: www.americanladderinstitute.org</p>	<p>ASTM ASTM International 100 Barr Harbor Drive West Conshohocken, PA 19428-2959 Phone: (610) 832-9744 Fax: (610) 834-3683 Web: www.astm.org</p>	<p>IEST Institute of Environmental Sciences and Technology 2430 S. Arlington Heights Road Suite 620 Arlington Heights, IL 60005 Phone: (847) 981-0100 Fax: (847) 981-4130 Web: www.iest.org</p>	<p>SAAMI Sporting Arms and Ammunition Manufacturers Institute 11 Mile High Road Newtown, CT 06470-2359 Phone: (203) 426-4358 ext. 221 Fax: (203) 426-3592 Web: www.saami.org</p>
<p>APSP Association of Pool & Spa Professionals 2111 Eisenhower Ave. Suite 500 Alexandria, VA 22314 Phone: (703) 838-0083 X150 Fax: (703) 549-0493 Web: www.apsp.org</p>	<p>AWS American Welding Society 8669 NW 36 ST., #130 Miami, FL 33166 Phone: (800) 443-9353 Fax: (305) 443-5951 Web: www.aws.org</p>	<p>ISEA International Safety Equipment Association 1901 North Moore Street Suite 808 Arlington, VA 22209 Phone: (703) 525-1695 Fax: (703) 525-1698 Web: www.safetysystem.org</p>	<p>SCTE Society of Cable Telecommunications Engineers 140 Philips Rd Exton, PA 19341 Phone: (800) 542-5040 Fax: (800) 542-5040 Web: www.scte.org</p>
<p>ASABE American Society of Agricultural and Biological Engineers 2950 Niles Road St Joseph, MI 49085 Phone: (269) 932-7015 Fax: (269) 429-3852 Web: www.asabe.org</p>	<p>AWWA American Water Works Association 6666 W. Quincy Ave. Denver, CO 80235 Phone: (303) 347-6178 Fax: (303) 795-7603 Web: www.awwa.org</p>	<p>ITI (INCITS) InterNational Committee for Information Technology Standards 1101 K Street NW Suite 610 Washington, DC 20005-3922 Phone: (202) 626-5737 Fax: 202-638-4922 Web: www.incits.org</p>	<p>TIA Telecommunications Industry Association 1320 North Courthouse Road Suite 200 Arlington, VA 22201 Phone: (703) 907-7706 Fax: (703) 907-7727 Web: www.tiaonline.org</p>
<p>ASCE American Society of Civil Engineers 1801 Alexander Bell Dr Reston, VA 20191 Phone: 703-295-6176 Web: www.asce.org</p>	<p>BPI Building Performance Institute 107 Hermes Road Suite 110 Malta, NY 12020 Phone: (877) 274-1274 Fax: (866) 777-1274 Web: www.bpi.org</p>	<p>NECA National Electrical Contractors Association 3 Bethesda Metro Center Suite 1100 Bethesda, MD 20814 Phone: (301) 215-4549 Web: www.neca-neis.org</p>	<p>UL Underwriters Laboratories, Inc. 12 Laboratory Drive Research Triangle Park, NC 27709 Phone: (919) 549-1053 Web: www.ul.com</p>
<p>ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. 1791 Tullie Circle, NE Atlanta, GA 30329 Phone: (404) 636-8400 Fax: (404) 321-5478 Web: www.ashrae.org</p>	<p>CSA CSA Group 8501 East Pleasant Valley Rd. Cleveland, OH 44131 Phone: (216) 524-4990 x88321 Fax: (216) 520-8979 Web: www.csa-america.org</p>	<p>NSF NSF International 789 N. Dixboro Road Ann Arbor, MI 48105-9723 Phone: (734) 827-5643 Fax: (734) 827-7880 Web: www.nsf.org</p>	<p>WCMA Window Covering Manufacturers Association 17 Faulkner Drive Niantic, CT 06357 Phone: (860) 944-4264 Web: www.wcmanet.org</p>
<p>ASME American Society of Mechanical Engineers Two Park Avenue New York, NY 10016 Phone: (212) 591-8521 Fax: (212) 591-8501 Web: www.asme.org</p>	<p>DASMA Door and Access Systems Manufacturers Association 1300 Sumner Avenue Cleveland, OH 44115-2851 Phone: (216) 241-7333 Fax: (216) 241-0105</p> <p>IAPMO International Association of Plumbing & Mechanical Officials 5001 East Philadelphia Street Ontario, CA 91761 Phone: (909) 230-5534 Web: www.iapmo.org</p>	<p>RESNA Rehabilitation Engineering and Assistive Technology Society of North America 1560 Wilson Blvd. Suite 850 Arlington, VA 22209-1903 Phone: (703) 524-6686 Fax: (703) 524-6630 Web: www.resna.org</p>	



ISO & IEC Draft International Standards

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

Comments

Comments regarding ISO documents should be sent to ANSI's ISO Team (isot@ansi.org); those regarding IEC documents should be sent to Tony Zertuche, General Secretary, USNC/IEC, at ANSI's New York offices (tzertuche@ansi.org). The final date for offering comments is listed after each draft.

Ordering Instructions

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

ISO Standards

AGRICULTURAL FOOD PRODUCTS (TC 34)

ISO/DIS 18363-3, Animal and vegetable fats and oils - Determination of fatty-acid-bound chloropropanediols (MCPDs) and glycidol by GC/MS - Part 3: Method using acid transesterification and measurement for 2-MCPD, 3-MCPD and glycidol - 5/28/2017, \$77.00

BIOTECHNOLOGY (TC 276)

ISO/DIS 20391-1, Biotechnology - Cell counting - Part 1: General guidance on cell counting methods - 7/28/2017, \$71.00

BUILDING CONSTRUCTION (TC 59)

ISO/DIS 11527, Buildings and civil engineering works - Sealants - Test method for the determination of stringiness - 7/28/2017, \$46.00

ISO/DIS 21931-2, Sustainability in buildings and civil engineering works - Framework for methods of assessment of the sustainability performance of construction works - Part 2: Civil engineering works - 7/22/2017, \$93.00

BUILDING CONSTRUCTION MACHINERY AND EQUIPMENT (TC 195)

ISO/DIS 21873-2, Building construction machinery and equipment - Mobile crushers - Part 2: Safety requirements - 7/27/2017, \$107.00

CONCRETE, REINFORCED CONCRETE AND PRE-STRESSED CONCRETE (TC 71)

ISO/DIS 1920-13, Testing of concrete - Part 13: Properties of fresh self-compacting concrete - 5/26/2017, \$88.00

DENTISTRY (TC 106)

ISO/DIS 10637, Dentistry - Central suction source equipment - 5/26/2017, \$62.00

IEC/DIS 80601-2-60, Medical electrical equipment - Part 2-60: Particular requirements for basic safety and essential performance of dental equipment, \$98.00

ENVIRONMENTAL MANAGEMENT (TC 207)

ISO/DIS 14064-1, Greenhouse gases - Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals - 7/22/2017, \$119.00

ISO/DIS 14064-2, Greenhouse gases - Part 2: Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements - 7/22/2017, \$93.00

EQUIPMENT FOR FIRE PROTECTION AND FIRE FIGHTING (TC 21)

ISO/DIS 7202, Fire protection - Fire extinguishing media - Powder - 5/28/2017, \$93.00

ERGONOMICS (TC 159)

ISO/DIS 27501, The human-centred organization - Guidance for managers - 7/23/2017, \$98.00

FLOOR COVERINGS (TC 219)

ISO/DIS 23999, Resilient floor coverings - Determination of dimensional stability and curling after exposure to heat - 7/22/2017, \$53.00

HEALTH INFORMATICS (TC 215)

ISO/DIS 17117-1, Health informatics - Terminological resources - Part 1: Characteristics - 7/27/2017, \$107.00

HYDROGEN ENERGY TECHNOLOGIES (TC 197)

ISO/DIS 19881, Gaseous hydrogen - Land vehicle fuel containers - 7/22/2017, \$125.00

ISO/DIS 19882, Gaseous hydrogen - Thermally activated pressure relief devices for compressed hydrogen vehicle fuel containers - 7/22/2017, \$98.00

ISO/DIS 19880-2, Gaseous hydrogen - Fueling stations - Part 2: Dispensers - 7/23/2017, \$93.00

INTERNAL COMBUSTION ENGINES (TC 70)

ISO/DIS 8528-1, Reciprocating internal combustion engine driven alternating current generating sets - Part 1: Application, ratings and performance - 5/26/2017, \$77.00

MECHANICAL TESTING OF METALS (TC 164)

ISO/DIS 204, Metallic materials - Uniaxial creep testing in tension - Method of test - 5/24/2017, \$125.00

MECHANICAL VIBRATION AND SHOCK (TC 108)

ISO/DIS 17359, Condition monitoring and diagnostics of machines - General guidelines - 5/28/2017, \$98.00

MEDICAL DEVICES FOR INJECTIONS (TC 84)

ISO/DIS 20695, Enteral feeding systems - Design and testing - 7/7/2017, \$119.00

MINING (TC 82)

- ISO/DIS 19426-1, Structures for mine shafts - Part 1: Terms and definitions - 5/27/2017, \$58.00
- ISO/DIS 19426-2, Structures for mine shafts - Part 2: Headframe structures - 5/27/2017, \$62.00
- ISO/DIS 19426-3, Structures for mine shafts - Part 3: Sinking stages - 5/27/2017, \$62.00
- ISO/DIS 19426-4, Structures for mine shafts - Part 4: Conveyances - 5/27/2017, \$93.00
- ISO/DIS 19426-5, Structures for mine shafts - Part 5: Shaft system structures - 5/27/2017, \$107.00

NUCLEAR ENERGY (TC 85)

ISO/DIS 4037-4, Radiological protection - X and gamma reference radiation for calibrating dosimeters and doserate meters and for determining their response as a function of photon energy - Part 4: Calibration of area and personal dosimeters in low energy X reference radiation fields - 5/26/2017, \$71.00

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

ISO/DIS 13694, Optics and photonics - Lasers and laser-related equipment - Test methods for laser beam power (energy) density distribution - 7/22/2017, \$67.00

OTHER

ISO/DIS 11640, Leather - Tests for colour fastness - Colour fastness to cycles of to-and-fro rubbing - 5/25/2017, \$40.00

PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)

ISO/DIS 18639-4, PPE ensembles for firefighters undertaking specialist rescue activities - Part 4: Gloves - 7/21/2017, \$71.00

PLASTICS (TC 61)

ISO/DIS 20819, Plastics - Wood-plastic recycled composites (WPRC) - Specification - 5/27/2017, \$62.00

RUBBER AND RUBBER PRODUCTS (TC 45)

- ISO/DIS 28641, Rubber compounding ingredients - Organic chemicals - General test methods - 5/26/2017, \$112.00
- ISO/DIS 6101-6, Rubber - Determination of metal content by atomic absorption spectrometry - Part 6: Determination of magnesium content - 5/27/2017, \$53.00

SMALL TOOLS (TC 29)

- ISO/DIS 10102, Assembly tools for screws and nuts - Double-headed open-ended engineers wrenches - Outside dimensions - 5/24/2017, \$40.00
- ISO/DIS 10103, Assembly tools for screws and nuts - Doubled-headed box wrenches, flat and offset - Outside dimensions and test torques - 5/24/2017, \$46.00
- ISO/DIS 10104, Assembly tools for screws and nuts - Double-headed box wrenches, deep offset and modified offset - Outside dimensions - 5/24/2017, \$40.00

SOLID MINERAL FUELS (TC 27)

ISO/DIS 13605, Solid mineral fuels - Major and minor elements in coal ash and coke ash - Wavelength dispersive x-ray fluorescence spectrometric method - 5/27/2017, \$71.00

TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)

- ISO/DIS 9644, Agricultural irrigation equipment - Pressure losses in irrigation valves - Test method - 7/21/2017, \$82.00
- ISO/DIS 28139, Equipment for crop protection - Knapsack combustion engine-driven air-blast sprayers - Safety and environmental requirements and test methods - 5/23/2017, \$112.00
- ISO/DIS 9912-4, Agricultural irrigation equipment - Filters for microirrigation - Part 4: Granulated media filters - 7/26/2017, \$67.00

TRADITIONAL CHINESE MEDICINE (TC 249)

- ISO/DIS 20334, Traditional Chinese Medicine - Coding System of Formulas - 5/27/2017, \$185.00
- ISO/DIS 20495, Traditional Chinese medicine - Skin electrical resistance measurement device - 7/28/2017, \$46.00

TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)

- ISO/DIS 13184-3, Intelligent transport systems (ITS) - Guidance protocol via personal ITS station for advisory safety systems - Part 3: Road guidance protocol (RGP) conformance test specification - 5/27/2017, \$71.00
- ISO/DIS 16407-2, Electronic fee collection - Evaluation of equipment for conformity to ISO 17575-1 - Part 2: Abstract test suite - 5/27/2017, \$67.00
- ISO/DIS 16410-2, Electronic fee collection - Evaluation of equipment for conformity to ISO 17575-3 - Part 2: Abstract test suite - 5/27/2017, \$62.00

WATER QUALITY (TC 147)

- ISO/DIS 20596-1, Water quality - Determination of cyclic volatile methylsiloxanes in water - Part 1: Method using purge and trap with gas chromatography-mass spectrometry (GC-MS) - 7/28/2017, \$88.00
- ISO/DIS 20950-1, Water quality - Determination of available weak and dissociable (WAD) cyanide - Part 1: Method using ligand exchange, flow injection analysis (FIA), gas-diffusion and amperometric detection - 7/28/2017, \$71.00

WELDING AND ALLIED PROCESSES (TC 44)

ISO/DIS 24394, Welding for aerospace applications - Qualification test for welders and welding operators - Fusion welding of metallic components - 5/27/2017, \$102.00

ISO/IEC JTC 1, Information Technology

- ISO/IEC 24760-1/DAMd1, Information technology - Security techniques - A framework for identity management - Part 1: Terminology and concepts - Amendment 1: Additional terminology and concepts - 5/27/2017, \$62.00
- ISO/IEC DIS 30136, Information technology - Performance testing of biometric template protection schemes - 5/28/2017, \$77.00
- ISO/IEC DIS 18013-1, Information technology - Personal identification - ISO-compliant driving licence - Part 1: Physical characteristics and basic data set - 5/24/2017, \$155.00
- ISO/IEC DIS 23091-1, Information technology - Coding-independent code points - Part 1: Systems - 5/26/2017, \$33.00
- ISO/IEC DIS 23091-2, Information technology - Coding-independent code points - Part 2: Video - 5/26/2017, \$88.00
- ISO/IEC DIS 23091-3, Information technology - Coding-independent code points - Part 3: Audio - 5/26/2017, \$77.00
- ISO/IEC DIS 24779-5, Information technology - Cross-jurisdictional and societal aspects of implementation of biometric technologies - Pictograms, icons and symbols for use with biometric systems - Part 5: Face applications - 5/28/2017, \$46.00

IEC Standards

- 9/2275/CD, IEC 62290-3 ED1: Railway applications - Urban guided transport management and command/control systems - Part 3: System requirements specifications, 2017/7/28
- 14/903/CDV, IEC 60076-3/AMD1 ED3: Amendment 1 - Power transformers - Part 3: Insulation levels, dielectric tests and external clearances in air, 2017/7/28
- 20/1731/FDIS, IEC 60811-201/AMD1 ED1: Amendment 1 - Electric and optical fibre cables - Test methods for non-metallic materials - Part 201: General tests - Measurement of insulation thickness, 2017/6/16
- 20/1735/FDIS, IEC 60811-508/AMD1 ED1: Amendment 1 - Electric and optical fibre cables - Test methods for non-metallic materials - Part 508: Mechanical tests - Pressure test at high temperature for insulation and sheaths, 2017/6/16
- 20/1732/FDIS, IEC 60811-202/AMD1 ED1: Amendment 1 - Electric and optical fibre cables - Test methods for non-metallic materials - Part 202: General tests - Measurement of thickness of non-metallic sheath, 2017/6/16
- 20/1733/FDIS, IEC 60811-401/AMD1 ED1: Amendment 1 - Electric and optical fibre cables - Test methods for non-metallic materials - Part 401: Miscellaneous tests - Thermal ageing methods - Ageing in an air oven, 2017/6/16
- 20/1734/FDIS, IEC 60811-410/AMD1 ED1: Amendment 1 - Electric and optical fibre cables - Test methods for non-metallic materials - Part 410: Miscellaneous tests - Test method for copper-catalyzed oxidative degradation of polyolefin insulated conductors, 2017/6/16
- 20/1736/FDIS, IEC 60811-511/AMD1 ED1: Amendment 1 - Electric and optical fibre cables - Test methods for non-metallic materials - Part 511: Mechanical tests - Measurement of the melt flow index of polyethylene and polypropylene compounds, 2017/6/16
- 31/1321/CD, IEC 62990-2 ED1: Workplace atmospheres - Part 2: Gas detectors - Selection, installation, use and maintenance of detectors for toxic gases and vapours and oxygen, 2017/7/28
- 31/1320/CD, IEC 60079-31 ED3: Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t", 2017/7/28
- 37A/302/FDIS, IEC 61643-32 ED1: Low-voltage surge protective devices - Part 32: Surge protective devices connected to the d.c. side of photovoltaic installations - Selection and application principles, 2017/6/16
- 48D/644/CD, IEC 60297-3-110 ED1: Mechanical structures for electrical and electronic equipment -Dimensions of mechanical structures of the 482,6 mm (19 in) Series - Part 110: residential racks and cabinets for smart houses, 2017/7/28
- 57/1870/CD, IEC TS 61850-7-7 ED1: Communication networks and systems for power utility automation - Part 7-7: Basic communication structure - Machine-processable format of IEC 61850-related data models for tools, 2017/7/28
- 62B/1047/CDV, IEC 60601-2-54/AMD2 ED1: Amendment 2 - Medical electrical equipment - Part 2-54: Particular requirements for the basic safety and essential performance of X-ray equipment for radiography and radioscopy, 2017/7/28
- 62D/1475/CDV, IEC 80601-2-60 ED2: Medical electrical equipment - Part 2-60: Particular requirements for the basic safety and essential performance of dental equipment, 2017/7/28
- 65/669A/DPAS, IEC PAS 63131 ED1: System control diagram, 2017/6/23
- 79/577/FDIS, IEC 62820-1-2 ED1: Building intercom systems - Part 1 -2: System requirements - Building intercom systems using the internet protocol, 2017/6/16
- 86A/1792/CDV, IEC 60793-1-54 ED3: Optical fibres - Part 1-54: Measurement methods and test procedures - Gamma irradiation, 2017/7/28
- 100/2897/CDV, IEC 62731 ED2: Text to Speech for Television - General Requirements, 2017/7/28
- 113/360/NP, PNW TS 113-360 ED1: IEC/TS 62607-6-9: Nanomanufacturing - Key control Characteristics - Part 6-9: Graphene - Measurement of sheet resistance by the non-contact Eddy current method, 2017/7/28
- 113/358/CD, IEC 62565-3-1 ED1: Nanomanufacturing - Material specifications - Part 3-1: Graphene - Blank detail specification, 2017/7/28
- 121A/152A/FDIS, IEC 62683-1 ED1: Low-voltage switchgear and controlgear - Product data and properties for information exchange - Part 1: Catalogue data, 017/6/9/
- CIS/F/701/CDV, CISPR 15 ED9: Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment, 2017/7/28



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. All paper copies are available from Standards resellers (<http://webstore.ansi.org/faq.aspx#resellers>).

ISO Standards

AIRCRAFT AND SPACE VEHICLES (TC 20)

[ISO 18170:2017](#), Aerospace series - AC induction electric motor driven, variable delivery, hydraulic pumps - General requirements, \$209.00

DENTISTRY (TC 106)

[ISO 1797:2017](#), Dentistry - Shanks for rotary and oscillating instruments, \$68.00

[ISO 19715:2017](#), Dentistry - Filling instrument with contra angle, \$68.00

[ISO 7787-3:2017](#), Dentistry - Laboratory cutters - Part 3: Carbide cutters for milling machines, \$45.00

EQUIPMENT FOR FIRE PROTECTION AND FIRE FIGHTING (TC 21)

[ISO 21927-7:2017](#), Smoke and heat control systems - Part 7: Smoke ducts sections, \$68.00

[ISO 21927-8:2017](#), Smoke and heat control systems - Part 8: Smoke control dampers, \$103.00

HYDROMETRIC DETERMINATIONS (TC 113)

[ISO 1438:2017](#), Hydrometry - Open channel flow measurement using thin-plate weirs, \$209.00

INTERNAL COMBUSTION ENGINES (TC 70)

[ISO 4548-12:2017](#), Methods of test for full-flow lubricating oil filters for internal combustion engines - Part 12: Filtration efficiency using particle counting and contaminant retention capacity, \$162.00

MECHANICAL VIBRATION AND SHOCK (TC 108)

[ISO 8041-1:2017](#), Human response to vibration - Measuring instrumentation - Part 1: General purpose vibration meters, \$232.00

MEDICAL DEVICES FOR INJECTIONS (TC 84)

[ISO 7886-1:2017](#), Sterile hypodermic syringes for single use - Part 1: Syringes for manual use, \$162.00

NUCLEAR ENERGY (TC 85)

[ISO/ASTM 51205:2017](#), Practice for use of a ceric-cerous sulfate dosimetry system, \$68.00

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

[ISO 15798/Amd1:2017](#), Gas analysis - Investigation and treatment of analytical bias - Amendment 1, \$19.00

PAPER, BOARD AND PULPS (TC 6)

[ISO 11475:2017](#), Paper and board - Determination of CIE whiteness, D65/10 degrees (outdoor daylight), \$103.00

[ISO 11480:2017](#), Pulp, paper and board - Determination of total chlorine and organically bound chlorine, \$103.00

STEEL (TC 17)

[ISO 16120-1:2017](#), Non-alloy steel wire rod for conversion to wire - Part 1: General requirements, \$162.00

[ISO 16120-4:2017](#), Non-alloy steel wire rod for conversion to wire - Part 4: Specific requirements for wire rod for special applications, \$68.00

ISO/IEC JTC 1, Information Technology

[ISO/IEC 9594-1:2017](#), Information technology - Open Systems Interconnection - The Directory - Part 1: Overview of concepts, models and services, \$138.00

[ISO/IEC 9594-2:2017](#), Information technology - Open Systems Interconnection - The Directory - Part 2: Models, \$232.00

[ISO/IEC 9594-3:2017](#), Information technology - Open Systems Interconnection - The Directory - Part 3: Abstract service definition, \$232.00

[ISO/IEC 9594-4:2017](#), Information technology - Open Systems Interconnection - The Directory - Part 4: Procedures for distributed operation, \$232.00

[ISO/IEC 9594-5:2017](#), Information technology - Open Systems Interconnection - The Directory - Part 5: Protocol specifications, \$232.00

[ISO/IEC 9594-6:2017](#), Information technology - Open Systems Interconnection - The Directory - Part 6: Selected attribute types, \$232.00

[ISO/IEC 9594-7:2017](#), Information technology - Open Systems Interconnection - The Directory - Part 7: Selected object classes, \$162.00

[ISO/IEC 9594-8:2017](#), Information technology - Open Systems Interconnection - The Directory - Part 8: Public-key and attribute certificate frameworks, \$232.00

[ISO/IEC 9594-9:2017](#), Information technology - Open Systems Interconnection - The Directory - Part 9: Replication, \$185.00

IEC Standards

ELECTRICAL ACCESSORIES (TC 23)

[IEC 61386-1 Ed. 2.1 b:2017](#), Conduit systems for cable management - Part 1: General requirements, \$322.00

ELECTROSTATICS (TC 101)

[IEC 61340-5-1 Ed. 2.0 b cor.1:2017](#), Corrigendum 1 - Electrostatics - Part 5-1: Protection of electronic devices from electrostatic phenomena - General requirements, \$0.00

POWER SYSTEM CONTROL AND ASSOCIATED COMMUNICATIONS (TC 57)

[IEC 62325-451-3 Amd.1 Ed. 1.0 b:2017](#), Amendment 1 - Framework for energy market communications - Part 451-3: Transmission capacity allocation business process (explicit or implicit auction) and contextual models for European market, \$82.00

[IEC 62325-451-3 Ed. 1.1 b:2017](#), Framework for energy market communications - Part 451-3: Transmission capacity allocation business process (explicit or implicit auction) and contextual models for European market, \$645.00

WINDING WIRES (TC 55)

[IEC 60317-70 Ed. 1.0 b:2017](#), Specifications for particular types of winding wires - Part 70: Polyester glass-fibre wound fused, unvarnished or resin or varnish impregnated, bare or enamelled round copper wire, temperature index 155, \$47.00

[IEC 60317-71 Ed. 1.0 b:2017](#), Specifications for particular types of winding wires - Part 71: Polyester glass-fibre wound fused and resin or varnish impregnated, bare or enamelled round copper wire, temperature index 180, \$47.00

[IEC 60317-0-10 Ed. 1.0 b:2017](#), Specifications for particular types of winding wires - Part 0-10: General requirements - Polyester glass-fibre wound fused, unvarnished, or resin or varnish impregnated, bare or enamelled round copper wire, \$117.00

IEC Technical Reports**FIBRE OPTICS (TC 86)**

[IEC/TR 61282-15 Ed. 1.0 en:2017](#), Fibre optic communication system design guides - Part 15: Cable plant and link - Testing multi-fibre optic cable plant terminated with MPO connectors, \$164.00

Proposed Foreign Government Regulations

Call for Comment

U.S. manufacturers, exporters, regulatory agencies and standards developing organizations may be interested in proposed foreign technical regulations notified 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 notify proposed technical regulations that may significantly affect trade to the WTO Secretariat in Geneva, Switzerland. In turn, the Secretariat issues and makes available these notifications. The purpose of the notification requirement is to provide global trading partners with an opportunity to review and comment on the regulations before they become final.

The USA Inquiry Point for the WTO TBT Agreement is located at the National Institute of Standards and Technology (NIST) in the Standards Coordination Office (SCO). The Inquiry Point distributes the notified proposed foreign technical regulations (notifications) and makes the associated full-texts available to U.S. stakeholders via its online service, Notify U.S. Interested U.S. parties can register with Notify U.S. to receive e-mail alerts when notifications are added from countries and industry sectors of interest to them.

To register for Notify U.S., please visit <http://www.nist.gov/notifyus/>.

The USA WTO TBT Inquiry Point is the official channel for distributing U.S. comments to the network of WTO TBT Enquiry Points around the world. U.S. business contacts interested in commenting on the notifications are asked to review the comment guidance available on Notify U.S. at <https://tsapps.nist.gov/notifyus/data/guidance/guidance.cfm> prior to submitting comments.

For further information about the USA TBT Inquiry Point, please visit:

<https://www.nist.gov/standardsgov/what-we-do/trade-regulatory-programs/usa-wto-tbt-inquiry-point>

Contact the USA TBT Inquiry Point at:(301) 975-2918; Fax: (301) 926-1559; E-mail: usatbtep@nist.gov or notifyus@nist.gov.

Information Concerning

American National Standards

Call for Members

INCITS Executive Board – ANSI Accredited SDO and US TAG to ISO/IEC JTC 1, Information Technology

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

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

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, contact Jennifer Garner at jgarner@itic.org or visit <http://www.incits.org/participation/membership-info> for more information.

Membership in all interest categories is always welcome; however, the INCITS Executive Board seeks to broaden its membership base in the following categories:

- Service Providers
- Users
- Standards Development Organizations and Consortia
- Academic Institutions

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 or by e-mail from standards@scte.org.

International Organization for Standardization

Establishment of ISO Subcommittees

ISO/TC 35/SC 15 – Protective Coatings: Concrete Surface Preparation and Coating Application

ISO/TC 35, Paints and Varnishes, has created a new ISO Subcommittee on Protective Coatings: Concrete Surface Preparation and Coating Application (SC 15). The Secretariat has been assigned to the United States (ANSI).

ISO/TC 35/SC 15 operates under the following scope:

This subcommittee will develop standards for protective coatings being applied to a concrete substrate. The intent of the committee is to cover all aspects from the creation of the specification to pre-surface preparation through cure of coating that has been applied. It will cover testing for contaminants on/in the concrete substrate, surface preparation materials and methods, coatings applied and coating application methods, and inspection techniques used once coating has been applied and cured.

NACE International has committed to administer the U.S. TAG. Organizations interested in participating on the U.S. TAG should contact ANSI's ISO Team (isot@ansi.org).

ISO/TC 68/SC 8 – Reference Data for Financial Services

ISO/TC 68, Financial Services, has created a new ISO Subcommittee on Reference Data for Financial Services (SC 8). The Secretariat has been assigned to Switzerland (SNV).

ISO/TC 68/SC 8 operates under the following scope:

Standardization in the field of reference data for financial services.

Accredited Standards Committee X9, Inc. Financial Industry Standards has committed to administer the U.S. TAG. Organizations interested in participating on the U.S. TAG should contact ANSI's ISO Team (isot@ansi.org).

ISO/TC 68/SC 9 – Information Exchange for Financial Services

ISO/TC 68, Financial Services has created a new ISO Subcommittee on Information Exchange for Financial Services (SC 9). The Secretariat has been assigned to France (AFNOR).

ISO/TC 68/SC 9 operates under the following scope:

Standardization in the field of information exchange for financial services.

Accredited Standards Committee X9, Inc. Financial Industry Standards has committed to administer the U.S. TAG. Organizations interested in participating on the U.S. TAG should contact ANSI's ISO Team (isot@ansi.org).

U.S. Technical Advisory ISO Proposal for a New Field of ISO Technical Activity

Excellence in Service

Comment Deadline: June 23, 2017

DIN, the ISO member body for Germany, has submitted to ISO a proposal for a new field of ISO technical activity on Excellence in Service, with the following scope statement:

This standardization project wants to develop documents on the guidance for the creation of outstanding customer experiences through the provision of excellent services to achieve customer delight. It does not focus on providing basic customer service which organizations should already have in place. These documents apply to all organizations delivering services, such as commercial organizations, public services and not-for-profit organizations.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, June 23, 2017.

U.S. Technical Advisory Groups

Call for U.S. TAG Participants

IEC/SyC AAL - Active Assisted Living

The U.S TAG to IEC/SyC AAL, is seeking additional participants for the U.S. TAG.

IEC/SyC AAL operates under the following scope:

- Create a vision of Active Assisted Living that takes account the evolution of the market
- Foster standardization which:
 - Enable accessibility of AAL Systems and user interfaces
 - Enable cross-vendor interoperability of AAL systems, products and components
 - Communicate the work of the SyC to IEC and the market to foster a strong community of stakeholders

Organizations interested in participating on the U.S. TAG should contact the TAG Secretary, Ross Wilson at ross.wilson@ul.com.

Meeting Notice

A10 ASC Meeting

The American Society of Safety Engineers (ASSE) serves as the secretariat of the ANSI Accredited A10 Committee (A10 ASC) for Construction and Demolition Operations. The next meeting of the A10 ASC will be held on July 11, 2017 in Washington DC at the International Brotherhood of Electrical Workers (IBEW). Those who have interest in the committee are encouraged to attend. In addition, subgroup meetings of the A10 ASC will be held the day before or after the main meeting. The A10 ASC has a series of subgroups addressing a wide variety of construction and demolition issues ranging from trenching and shoring to ergonomic injury prevention and health hazards. The subgroup meeting schedule will be provided upon request. If interested, please contact TFisher@ASSE.Org.

Information Concerning

International Organization for Standardization (ISO)

Call for International (ISO) Secretariat

ISO/TC 85/SC 6 – *Reactor Technology*

Reply Deadline: June 9, 2017

Currently, the U.S. holds a leadership position as Secretariat of ISO/TC 85/SC 6 – *Reactor Technology*. ANSI has delegated the responsibility for the administration of the Secretariat for ISO/TC 85/SC 6 to the ASTM International. ASTM has advised ANSI of its intent to relinquish its role as delegated Secretariat for this committee.

ISO/TC 85/SC 6 operates under the following scope:

Development of standards in the Reactor technology within the scope of ISO/TC 85:

Standardization in the field of peaceful applications of nuclear energy, nuclear technologies and in the field of the protection of individuals and the environment against all sources of ionizing radiations.

ANSI is seeking organizations in the U.S. that may be interested in assuming the role of delegated Secretariat for ISO/TC 85/SC 6. Alternatively, ANSI may be assigned the responsibility for administering an ISO Secretariat. Any request that ANSI accept the direct administration of an ISO Secretariat shall demonstrate that:

1. The affected interests have made a financial commitment for not less than three years covering all defined costs incurred by ANSI associated with holding the Secretariat;
2. The affected technical sector, organizations or companies desiring that the U.S. hold the Secretariat request that ANSI perform this function;
3. The relevant U.S. TAG has been consulted with regard to ANSI's potential role as Secretariat; and
4. ANSI is able to fulfill the requirements of a Secretariat.

If no U.S. organization steps forward to assume the ISO/TC 85/SC 6 Secretariat, or if there is insufficient support for ANSI to assume direct administration of this activity by June 9, 2017, then ANSI will inform the ISO Central Secretariat that the U.S. will relinquish its leadership of the committee. This will allow ISO to solicit offers from other countries interested in assuming the Secretariat role.

Information concerning the United States retaining the role of international Secretariat may be obtained by contacting ANSI's ISO Team (isot@ansi.org).

BSR/BPI-1200-S-201x, Standard Practice for Basic Analysis of Buildings (Revision of ANSI/BPI-1200-S-2015)

There are two justifications for this proposed revision to the manometer specifications in this standard:

1. The current tolerance of +/- 0.15 conflicts with ANSI/RESNET/ICC 380.
2. A change from .15 to .25 will have an insignificant impact on the pressure readings for which the manometer will be used.

Note: The following excerpt contains a portion of the original text of ANSI/BPI-1200-S-2105 in order to provide the reader with some context. You are invited to provide comments on only the struck-through (shown in red) and underlined change.

Proposed Revision:

7.1.4 Equipment required for depressurization and spillage assessment

7.1.4.1 Mirror, smoke pencils or other smoke visualization equipment.

7.1.4.2 One or more manometer(s) which shall:

7.1.4.2.1 Have a resolution of 0.1 Pa or better and an accuracy of +/- 1% of pressure reading or +/- 0.25~~15~~ Pa, whichever is greater.

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Revision to NSF/ANSI 42 – 2016
Issue 93 Revision 1 (April 2017)

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

NSF/ANSI Standard for Drinking Water Treatment Units –

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4 Materials

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4.2 Materials evaluation

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4.2.3 Exposure

4.2.3.1 The system or component(s) shall be installed, flushed, and conditioned in accordance with the manufacturer’s instructions using the exposure water specified in 4.2.2 at an initial inlet static pressure of 340 kPa (50 psig).

4.2.3.1.1 For media finer than 100 mesh, testing shall be conducted in flasks with a ratio of 200 grams media to 1L of exposure water specified in 4.2.2. Testing shall be completed at ambient atmospheric pressure and at a temperature of 23 ± 2 C (73 ± 3 F). Sufficient flasks shall be utilized to collect a minimum of 600 mL of water at each pour-off, or the necessary volume for analysis, whichever is greater. The flasks shall be shaken vigorously for one minute and allowed to settle for 24 hours. After 24hrs of exposure, the sample water shall be collected and retained. The flask shall be refilled with the same volume of exposure water that was extracted. The flasks will be shaken vigorously for one minute and allowed to settle for 24 hours. A second water sample shall be collected and the flasks refilled. The flasks shall be shaken vigorously for one minute and allowed to settle for 24 hours. A third water sample shall be collected. All samples collected shall be composited and analyzed in accordance with 4.2.1. One control flask with 2L of exposure water shall be processed in the same manner as above.

Reason: Added language under 4.2.3.1.1 to address media sizes finer than 100 mesh that are not effectively held by glass wool.

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Tracking number 42i94r1 et al
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Revision to NSF/ANSI 42 – 2016
Issue 94 Revision 1 (May 2017)

multiple revisions for 42i94, 44i42, 53i106, 55i43, 58i78, 62i32, 401i8

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

NSF/ANSI Standard
for Drinking Water Treatment Units –

Drinking water treatment units –
Aesthetic effects

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2 Normative references

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21 CFR §. Parts 170-199. Food and Drugs¹

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~~USFDA Code of Federal Regulations, Title 21, (Food and Drugs) Direct Food Additive Sub-stances Parts 170 through 199, April 1, 1992²~~

Reason: Reference updated for consistency across the NSF standards and to reflect the most current published edition.

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NSF/ANSI Standard
for Drinking Water Treatment Units-

Drinking Water Treatment Units –
Emerging compounds/incidental contaminants

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2 Normative references

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¹ USFDA –CFR Code of Federal Regulations Title 21
<<https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfcfr/cfrsearch.cfm>>.

² USFDA –CFR Code of Federal Regulations Title 21
<https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfcfr/cfrsearch.cfm>

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Revision to NSF/ANSI 42 – 2016
Issue 94 Revision 1 (May 2017)

multiple revisions for 42i94, 44i42, 53i106, 55i43, 58i78, 62i32, 401i8

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21 CFR §. Parts 170-199. Food and Drugs³

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USFDA Code of Federal Regulations, Title 21, (~~Food and Drugs~~) ~~Direct Food Additive Sub stances Parts 170 through 199, April 1, 1992~~²
Error! Bookmark not defined.

Reason: Reference updated for consistency across the NSF standards and to reflect the most current published edition.

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NSF/ANSI Standard
for Drinking Water Treatment Units —

Residential cation exchange water softeners

2 Normative references

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21 CFR §. Parts 170-199. Food and Drugs⁴

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USFDA Code of Federal Regulations, Title 21, (~~Food and Drugs~~) ~~Direct Food Additive Sub stances Parts 170 through 199, April 1, 2002~~⁵

Reason: Reference updated for consistency across the NSF standards and to reflect the most current published edition.

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NSF/ANSI Standard
for Drinking Water Treatment Units —

³ USFDA –CFR Code of Federal Regulations Title 21
<<https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfcfr/cfrsearch.cfm>>

⁴ USFDA –CFR Code of Federal Regulations Title 21
<<https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfcfr/cfrsearch.cfm>>

⁵ Superintendent of Documents, U. S. Government Printing Office, Washington, DC 20402 <www.gpo.gov>.

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Revision to NSF/ANSI 42 – 2016
Issue 94 Revision 1 (May 2017)

multiple revisions for 42i94, 44i42, 53i106, 55i43, 58i78, 62i32, 401i8

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Drinking water treatment units — Health effects

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2 Normative references

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21 CFR §. Parts 170-199. Food and Drugs⁶

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~~USFDA Code of Federal Regulations, Title 21, (Food and Drugs) Direct Food Additive Substances Parts 170 through 199, April 1, 1992⁷~~

Reason: Reference updated for consistency across the NSF standards and to reflect the most current published edition.

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NSF/ANSI Standard
for Drinking Water Treatment Units –

Ultraviolet microbiological water treatment units

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2 Normative references

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21 CFR §. Parts 170-199. Food and Drugs⁸

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~~USFDA Code of Federal Regulations, Title 21, (Food and Drugs) Direct Food Additive Substances Parts~~

⁶ USFDA –CFR Code of Federal Regulations Title 21
<<https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfcfr/cfrsearch.cfm>>

⁷ USFDA –CFR Code of Federal Regulations Title 21
<<https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfcfr/cfrsearch.cfm>>

⁸ USFDA –CFR Code of Federal Regulations Title 21
<<https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfcfr/cfrsearch.cfm>>

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Revision to NSF/ANSI 42 – 2016
Issue 94 Revision 1 (May 2017)

multiple revisions for 42i94, 44i42, 53i106, 55i43, 58i78, 62i32, 401i8

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170 through 199, April 1, 1992 ~~Error! Bookmark not defined.~~

Reason: Reference updated for consistency across the NSF standards and to reflect the most current published edition.

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NSF/ANSI Standard
for Drinking Water Treatment Units —

Reverse osmosis
drinking water treatment systems

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2 Normative references

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21 CFR §. Parts 170-199. Food and Drugs⁹

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~~USFDA Code of Federal Regulations, Title 21, (Food and drugs) Direct Food Additive Substances parts 170 through 199, April 1, 1992~~ ~~Error! Bookmark not defined.~~

Reason: Reference updated for consistency across the NSF standards and to reflect the most current published edition.

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NSF/ANSI Standard
for Drinking Water Treatment Units –

Drinking water
distillation systems

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⁹ USFDA –CFR Code of Federal Regulations Title 21
<<https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfcfr/cfrsearch.cfm>>

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multiple revisions for 42i94, 44i42, 53i106, 55i43, 58i78, 62i32, 401i8

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2 Normative references

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21 CFR §. Parts 170-199. Food and Drugs¹⁰

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~~US FDA Code of Federal Regulations, Title 21, (Food and Drugs) Direct Food Additive Substances Parts 170 through 199, April 1, 1992¹¹~~

Reason: Reference updated for consistency across the NSF standards and to reflect the most current published edition.

¹⁰ USFDA –CFR Code of Federal Regulations Title 21
<<https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfcfr/cfrsearch.cfm>>

¹¹ US Food and Drug Administration (US FDA), 5600 Fishers Lane, Rockville, MD 20857 <www.fda.gov>.

Changes To Draft PDS-02 BSR/RESNET/ICC 301-2014 Addendum E-201x
House Size IAF
(changes in strike/underline text)

Proposed IAF Addendum to ANSI/RESNET/ICC 301-2014

Add the following new Section:

x.x Index Adjustment Factor (IAF). The IAF for each Rated Home shall be determined in accordance with Sections x.x.1 through x.x.5.

x.x.1 Index Adjustment Design (IAD). An IAD shall be configured in accordance with Table x.x.1(1). Renewable Energy Systems that offset the energy consumption requirements of the Rated Home shall not be included in the IAD.

Table x.x.1(1) Configuration of Index Adjustment Design

<u>Building Component</u>	<u>Index Adjustment Design (IAD)</u>
General Characteristics:	Number of Stories (NS): Two (2) Number of Bedrooms (Nbr): Three (3) Conditioned Floor Area (CFA): 2400 ft ² Number of <u>conditioned zones</u> : One (1) <u>No attached garage</u> Wall height: 17 feet (including band joist) Wall width: 34.64 feet facing N, S, E and W <u>All heating, cooling, and hot water equipment shall be located in conditioned space.</u>
<u>Foundation:</u>	<u>Type: Vented crawlspace</u> <u>Venting: net free vent aperture = 1ft² per 150 ft² of crawlspace floor area.</u> <u>Gross floor area: 1200 ft²</u> <u>Floor U-Factor: Same as Energy Rating Reference Home</u> <u>Foundation wall: 2 feet tall, 2 feet above grade</u> <u>Wall width: 34.64 feet facing N, S, E and W</u> <u>Wall U-Factor: Same as Energy Rating Reference Home</u>
Above-grade walls:	Type: Same as Rated Home. <u>If more than one type, maintain same proportional coverage for each type, excluding any garage wall and adiabatic wall areas.</u> Gross Area: <u>2360ft² total, 590ft² facing N, S, E and W</u> —OR <u>295 ft² facing N, S, E and W if Rated Home on conditioned basement foundation</u> U-Factor: Same as Rated Solar absorptance: Same as Rated Home Emittance: Same as Rated Home

ChangesToDraft PDS-02 Addendum E-201x v.BSR8.docx

Building Component	Index Adjustment Design (IAD)
Conditioned basement walls:	Type: Same as Rated Home Gross area: 295 ft ² facing N, S, E and W U-Factor: Same as Rated Home
Floors over unconditioned spaces or outdoor environment:	Type: Same as Rated Home. Gross area: 1200 ft ² U-Factor: Same as Rated Home
Ceilings:	Type: Same as Rated Home. <u>If more than one type, maintain same proportional coverage for each type.</u> Gross <u>projected footprint</u> area: 1200 ft ² U-Factor: Same as Rated Home
Roofs:	Type: Same as Rated Home. <u>If more than one type, maintain same proportional coverage for each type.</u> Gross area: 1300 ft ² Solar absorptance: Same as Rated Home Values from Table 4.2.2(4) shall be used to determine solar absorptance except where test data are provided for roof surface in accordance with ASTM Standards C-1549, E-1918, or CRRC Method # 1. Emittance: Same as Rated Home Emittance values provided by the roofing manufacturer in accordance with ASTM Standard C-1371 shall be used when available. In cases where the appropriate data are not known, same as the Energy Rating Reference Home.
Attics:	Type: Same as Rated Home. <u>If more than one type, maintain same proportional coverage for each type.</u>
Foundations:	Type: Same as Rated Home. Gross area: 1200 ft ² U-Factor: Same as Rated Home
Crawlspaces:	Type: Same as Rated Home. U-Factor: Same as Rated Home
Doors:	Area: Same as Rated Home Orientation: Same as Rated Home U-Factor: Same as Rated Home
Glazing:	Total area = Same as Energy Rating Reference Home Orientation: equally distributed to four (4) cardinal compass orientations (N,E,S,&W) U-Factor: Same as <u>Area-weighted average U-Factor of Rated Home</u> SHGC: Same as <u>Area-weighted average SHGC of Rated Home</u> Interior shade coefficient: Summer: Same as Energy Rating Reference Home Winter: Same as Energy Rating Reference Home External shading: Same as Rated Home <u>None</u>
Skylights	Same as Rated Home

ChangesToDraft PDS-02 Addendum E-201x v.BSR8.docx

Building Component	Index Adjustment Design (IAD)
Thermally isolated sunrooms	Same as Rated Home
Air exchange rate	Combined Infiltration infiltration flow rate plus mechanical ventilation flow rate of $0.03 * CFA + 7.5 * (Nbr+1)$ cfm and with energy loads calculated in quadrature Infiltration flow rate shall be determined using the following envelope leakage rates: <u>5 ACH₅₀ in IECC¹ Climate Zones 1-2</u> <u>3 ACH₅₀ in IECC Climate Zones 3-8</u>
Whole-House Mechanical ventilation:	Balanced Whole-House Ventilation System with fan power = $0.70 * fanCFM * 8.76$ kWh/y
Internal gains:	As specified by Table 4.2.2(3) except that lighting shall be 75% high efficiency
Internal mass:	An internal mass for furniture and contents of 8 pounds per square foot of floor area
Structural mass:	Same as Rated Home <u>Energy Rating Reference Home</u>
Heating systems	Fuel type: Same as Rated Home Efficiencies: Electric: air source heat pump in accordance with Table 4.2.2(1a) Non-electric furnaces: natural gas furnace in accordance with Table 4.2.2(1a) Non-electric boilers: natural gas boiler in accordance with Table 4.2.2(1a) Capacity: sized in accordance with Section 4.3.3.1
Cooling systems	Fuel type: Electric Efficiency: in accordance with Table 4.2.2(1a) Capacity: sized in accordance with Section 4.3.3.1
Service water heating systems	Fuel type: same as Rated Home Efficiency: Electric: $EF = 0.97 - (0.00132 * store\ gal)$ Fossil fuel: $EF = 0.67 - (0.0019 * store\ gal)$ Use: Same as Energy Rating Reference Home (see Addendum A) Tank temperature: 125 F
Thermal distribution systems:	Thermal distribution system efficiency (DSE) of 1.00 shall be applied to both the heating and cooling system efficiencies and air distribution systems shall be located within the conditioned space
Thermostat	Type: manual Temperature set points: cooling temperature set point = 78 F; heating temperature set point = 68 F

¹ Climate zones shall be as specified by the 2012 IECC

ChangesToDraft PDS-02 Addendum E-201x v.BSR8.docx

Building Component	Index Adjustment Design (IAD)
Lighting, Appliances and Miscellaneous Electric Loads (MELs)	Same as the Energy Rating Reference Home, except that lighting shall be 75% high efficiency

x.x.2 ~~A RESNET accredited~~ An approved² Energy Rating Software Tool shall be used to determine the Energy Rating Index for the IAD (ERI_{IAD}).

x.x.3 The saving represented by the IAD shall be calculated using equation x.x.3-1.

$$IAD_{SAVE} = (100 - ERI_{IAD}) / 100 \quad (\text{Eq. x.x.3-1})$$

x.x.4 The IAF for the Rated Home (IAF_{PD}) shall be calculated in accordance with equation x.x.4-1.

$$IAF_{RH} = IAF_{CFA} * IAF_{Nbr} * IAF_{NS} \quad (\text{Eq. x.x.4-1})$$

where:

IAF_{RH} = combined Index Adjustment Factor for Rated Home

$IAF_{CFA} = (2400/CFA) ^ [0.304 * (IAD_{SAVE})]$

$IAF_{Nbr} = 1 + [0.0730.069 * (IAD_{SAVE}) * (Nbr-3)]$

$IAF_{NS} = (2/NS) ^ [0.12 * (IAD_{SAVE})]$

where:

CFA = Conditioned Floor Area

Nbr = Number of bedrooms

NS = Number of stories

Modify equation 4.1-2 as follows:

$$ERI = PEfrac * (TnML / (TRL * IAF_{RH})) * 100 \quad (\text{Eq 4.1-2})$$

where:

IAF_{RH} = Index Adjustment Factor of Rated Home

Add the following new definitions:

Index Adjustment Design – a home design comprising 2-stories and 3 bedrooms with conditioned floor area of 2,400 ft² used to determine the percentage improvement over the Energy Rating Reference Home for the purposes of determining the Index Adjustment Factor that is applied to the Rated Home.

Index Adjustment Factor – a value calculated using the percentage improvement of the Index Adjustment Design to determine the impact of home size, number of bedrooms and number of stories on the Energy Rating Index of the Rated Home.

² Informative Note: The Residential Energy Services Network (RESNET) accredits Energy Rating Software Tools in accordance with RESNET Publication 002.

BSR/UL 1, Standard for Safety for *Flexible Metal Conduit, UL 1*

5 Thickness of Strip

5.1 The thickness of the metal strip used for flexible metal conduit shall not be less than indicated in Table 5.1 for the specified conduit type standard wall flexible metal conduit (FMC).

Exception: The thickness of the metal strip may be less than indicated in Table 5.1 when the conduit complies with the requirements specified for extra reduced-wall flexible metal conduit (XRWFMC).

Table 5.1

Strip thickness

Trade size	(Metric designator)	Minimum acceptable thickness of strip			
		Standard wall (FMC)		Reduced-wall (RWFMC)	
		in	(mm)	in	(mm)
3/8	12	0.034	0.86	0.025	0.64
1/2	16	0.040	1.02	0.025	0.64
3/4	21	0.040	1.02	0.025	0.64
1	27	0.055	1.40	0.030	0.76
1-1/4	35	0.055	1.40	0.030	0.76
1-1/2	41	0.060	1.52	0.030	0.76
2	53	0.060	1.52	0.030	0.76
2-1/2	63	0.060	1.52	0.040	1.02
3	78	0.060	1.52	0.040	1.02
3-1/2	91	0.060	1.52	-	-
4	103	0.060	1.52	-	-

5.2 Compliance of conduit with the requirement in 5.1 is to be determined by measuring the strip before forming with a flat-nose machinist's micrometer caliper calibrated to read directly to at least 0.001 inch or 0.01 mm. The thickness of a particular strip is to be determined as the average of five measurements.

13 Impact Tests (RWFMC and XRWFMC)

13.1 The impact strength of finished conduit formed from strip material having a

thickness equal to or less than that specified in Table 5.1 for reduced-wall flexible metal conduit (RWFMC) is to be determined as described in 13.2 - 13.4. Deformation of the conduit shall be less than 50 percent as determined by measuring the overall diameter of the conduit after impact and comparing it to the original value.

17.3 Tag

17.3.1 The following statement or its equivalent shall be marked on a tag attached to each coil of aluminum or steel reduced-wall flexible metal conduit (RWFMC) or extra reduced-wall flexible metal conduit (XRWFMC). "When applying setscrew-type connectors, care should be taken not to damage the conduit".

17.3.2 Each coil of flexible steel and aluminum conduit shall be marked or tagged to indicate the following plainly:

- a) The name of the manufacturer, that manufacturer's trade name for the conduit, or both, or any other acceptable distinctive marking by means of which the organization responsible for the conduit can readily be identified.
- b) The date of manufacture by month and year.
- c) The trade size of the conduit.
- d) "Use only with connectors intended for this type of conduit. " Cartons for these connectors are marked as follows:

Connectors for use with FMC (flexible metal conduit): "For FMC" or "FMC"

Connectors for use with steel (FE) or aluminum (AL) FMC only:

"For FE FMC" or "FEFMC"

"For STEEL FMC" or "STEELFMC"

"For AL FMC" or "ALFMC"

"For ALUM FMC" or "ALUMFMC"

"For ALUMINUM FMC" or "ALUMINUMFMC"

Connectors for use with reduced-wall FMC (RWFMC) only: "For RWFMC" or "RWFMC"

Connectors for use with steel (FE) or aluminum (AL) reduced-wall FMC (RWFMC) only:

"For FE RWFMC" or "FERWFMC"

"For STEEL RWFMC" or "STEELRWFMC"

"For AL RWFMC" or "ALRWFMC"

"For ALUM RWFMC" or "ALUMRWFMC"

"For ALUMINUM RWFMC" or "ALUMINUMRWFMC"

Connectors for use with extra reduced-wall FMC (XRWFMC) only: "For XRWFMC"

Connectors for use with steel (FE) or aluminum (AL) extra reduced-wall FMC (XRWFMC) only:

"For FE XRWFMC" or "FEXRWFMC"

"For STEEL XRWFMC" or "STEELXRWFMC"

"For AL XRWFMC" or "ALXRWFMC"

"For ALUM XRWFMC" or "ALUMXRWFMC"

"For ALUMINUM XRWFMC" or "ALUMINUMXRWFMC"

17.3.2 revised July 26, 2007 issued July 26, 2007

17.4 Reduced-wall conduit (RWFMC)

17.4.1 In addition to the marking requirements in 17.1.1 - 17.3.2, reduced-wall flexible metal conduit (RWFMC), shall be marked by indent printing or embossing with the letters "RW", and the tag attached to each coil shall have the statement "Reduced-wall flexible (aluminum or steel) conduit " or the equivalent.

17.5 Extra reduced-wall conduit (XRWFMC)

17.5.1 In addition to the marking requirements in 17.1.1 - 17.3.2, extra reduced-wall flexible metal conduit (XRWFMC) shall be marked by indent printing or embossing with the letters "XRW", and the tag attached to each coil shall have the statement "Extra reduced-wall flexible (aluminum or steel) conduit" or the equivalent.

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BSR/UL 778, Standard for Safety for Motor-Operated Water Pumps

1. Proposal to allow separable cord and inlet assemblies for some submersible and sewage effluent and grinder pumps, NEW Exception for 16.10.2

16.10.2 A three-phase cord-connected submersible pump or a single-phase cord-connected sewage, effluent, and grinder pump shall be provided with at least 6 feet (1.83 m) of permanently attached flexible cord. The cord shall:

- a) Be Type SEW, SEOW, SEOOW, SJEW, SJEOW, SJOW, SJOOW, SJTW, SJTOW, SJTOOW, SOW, SOOW, STW, STOW, or STOOW and
- b) Include an equipment-grounding conductor. The cord shall also be provided with:
 - 1) An attachment plug for connection to the branch circuit supply or
 - 2) A junction box, outlet box, enclosure with a wiring compartment that complies with the requirements of 16.2.3, or similar container, and applicable fittings for supply connection. Such provision for supply connection shall reduce the risk of water entry during temporary, limited submersion and shall comply with the applicable requirements of the Standard for Enclosures for Electrical Equipment, UL 50, or the Standard for Metallic Outlet Boxes, UL 514A, and this standard

Exception No. 1: Provision for supply connection with the cord specified in (b)(2) is not required when:

- a) *The pump is marked in accordance with 58.19 and*
- b) *The installation instructions provided with the pumps are in accordance with 61.5.*

Exception No. 2: Single-phase cord-connected sewage, effluent, and grinder pumps that are intended to be connected to a branch circuit outlet receptacle shall be provided with an attachment plug.

Exception No. 3: The flexible cord is not required to be permanently attached if the inlet and molded-on cord connector comply with the applicable requirements of Standard for Cable Assemblies and Fittings for Industrial Control and Signal Distribution, UL 2238 including the 5 ft.-lb. impact test when assembled and be suitable for continuous immersion.

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BSR/UL 962, Standard for Household and Commercial Furnishings**MANUFACTURING AND PRODUCTION LINE TESTS****65B Polarity**

65B.1 Each furnishing provided with a cord and plug shall be checked as a routine production-line test to verify that there is electrical continuity between the grounded supply-circuit conductor of the attachment plug - wide blade of a 2-wire type - and the part of the product that is intended to be connected to the grounded supply-circuit conductor of the attachment plug (for example, screw shell of an incandescent lampholder). The continuity shall be determined either visually or through the use of an electrical test. Equivalently, continuity is able to be verified between the ungrounded supply-circuit conductor of the attachment plug and the part of the product that is intended to be connected to the ungrounded conductor (for example, the center contact of an incandescent lampholder).

Exception: Furnishings where the polarity of the wire will not affect the safety of the product do not need to be subjected to the Polarity Test.

65C Dielectric Voltage-Withstand Test

65C.1 Each furnishing shall withstand without electrical breakdown, as a routine production-line test, the application of a 40 - 70 hertz potential as described in Table 65C.1 between:

- a) The supply wiring and dead metal parts that may become energized;
- b) Supply wiring of opposite polarity when separate grounded supply conductors are employed; and
- c) The ungrounded supply conductors of opposite polarity when the same grounded supply conductor is employed for both circuits.

Table 65C.1*Dielectric Voltage-Withstand Test Levels*

Insulation Type	One Minute (Vac)	One Minute (Vdc)	1 Second (Vac)	1 Second (Vdc)
Single	1000 + (2 x Rated Voltage)	1.414 x (1000 + (2 x Rated Voltage))	1200 + (2.4 x Rated Voltage)	1.414 x (1200 + (2.4 x Rated Voltage))
Double	2000 + (4 x Rated Voltage)	2.828 1.414 x (2000 + (4 x Rated Voltage))	2400 + (4.8 x Rated Voltage)	2.828 1.414 x (2400 + (4.8 x Rated Voltage))

BSR/UL 1449, Surge Protective Devices**7. Clarifications Regarding Capacitors**

25.1 Capacitors other than those employed in a secondary circuit shall comply with the Dielectric Voltage-Withstand Test, Section 38, Insulation Resistance Test, Section 53, and Capacitor Endurance Test, Section 54.

Exception No. 1: Capacitors evaluated to the Dielectric Voltage-Withstand Test, Insulation Resistance Test and Capacitor Endurance Test of the Standard for Electromagnetic Interference Filters, UL 1283 are not required to be subjected to these tests.

Exception No. 2: Capacitors that comply with the requirements in the Standard for Fixed Capacitors for Use in Electronic Equipment, UL 60384-14 and are rated for the intended application, including operating voltage, subclass, Upper and Lower Temperature rating as follows:

- a) *X Capacitors can be used in L-L and L-N applications only without additional testing per Clause 25.1.*
- b) *Y Capacitors can be used in L-L, L-N, L-G and N-G applications without additional testing per Clause 25.1.*

Exception: Two X capacitors in series, may be substituted for a Y capacitor providing that each capacitor is rated $1.36/2 = .68$ times the voltage rating required for a Y capacitor.

NOTE: Since the endurance testing of Y capacitors is at $1.7 \times$ times the rated voltage and the endurance testing for X capacitors is at $1.25 \times$ times the rated voltage, the X capacitor needs to be rated at 1.36 times the rating of the Y capacitor ($1.25U_{RX} = 1.7U_{RY}$; $U_{RX} = 1.36U_{RY}$). Therefore, with two X capacitors in series, each capacitor would need to be rated $1.36/2 = .68$ times the operating voltage at the point of installation.

- c) *Duration of the damp-heat test (21 or 56 days) does not need to be considered.*
- d) *Passive flammability category does not need to be considered.*
- e) *Overvoltage Class and Peak Surge Voltage properties do not need to be considered provided that the capacitors are tested as part of the SPD during the end-product SPD Surge Testing per UL 1449 Section 40.*

10. SPDs for Wind Turbine Applications

Table SC7.1
Test sequence

Test	Paragraph
VPR	SC4
Vibration	SC7.2
Thermal Cycling ^a	SC7.3
Humidity ^a	SC7.4
Nominal Discharge Current	SC5
Repeat VPR	40.9
Limited Current at 10A	44.4

^a Test methods based on the Standard For Safety For Tests for Safety-Related Controls Employing Solid-State Devices, UL 991.

SC7.2 Vibration testing

SC7.2.1 Testing shall be in accordance with IEC 60068-2-6, vibration, sinusoidal, based on the parameters in Table SC7.1, using the extreme environment level as specified in EN61643-11, Table ZB.1 for SPDs installed within the wind turbine nacelle.

11. SPDs in High Altitudes

18A.1 SPDs, rated for use in an altitude greater than 2000 m shall incorporate surge components that are not influenced by changes in outside air pressure and density anticipated at higher altitudes, such as semiconductor devices (MOVs, etc.), hermetically sealed devices (such as Gas Discharge Tubes) or be completely encapsulated.

Exception: SPDs that incorporate components that are influenced by changes in outside air pressure and density, such as open air gap devices, that are not installed within a hermetically sealed or encapsulated environment, shall be subjected to surge testing while installed within a Barometric Chamber at the pressure corresponding to the rated altitude as specified in Table A.2 of IEC 60664-118-2.

79.5 An SPD evaluated for use in altitudes above 2000 m shall be rated for this altitude in increments according to Table A.2 of IEC 60664-118-2.