ANSI STANDARDS ACTION

PUBLISHED WEEKLY BY THE AMERICAN NATIONAL STANDARDS INSTITUTE 25 West 43rd Street, NY, NY 10036

VOL. 49, #51 *December 21, 2018*

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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

ISSN 0038-9633

Comment Deadline: January 20, 2019

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

Addenda

BSR/ASHRAE/USGBC/IES Addendum 189.1a-201x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017)

The first public review draft added Climate Zones 4A and 4B to those required to meet heat island mitigation criteria in Section 5.3.5.3 for roofs. In response to the first public review, two additional exceptions were added.

Click here to view these changes in full

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

BSR/ASHRAE/USGBC/IES Addendum 189.1m-201x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017)

This addendum adds new provisions to enable right-sized tubing for efficient delivery of water through hot water distribution systems.

Click here to view these changes in full

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

BSR/ASHRAE/USGBC/IES Addendum 189.1n-201x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017)

This addendum clarifies the indoor environmental quality requirements for composite wood and related materials.

Click here to view these changes in full

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

ASME (American Society of Mechanical Engineers)

Revision

BSR/ASME B31.12-201x, Hydrogen Piping and Pipelines (revision of ANSI/ASME B31.12-2014)

This Code is applicable to piping in gaseous and liquid hydrogen service and to pipelines in gaseous hydrogen service. This Code is applicable up to and including the joint connecting the piping to associated pressure vessels and equipment but not to the vessels and equipment themselves. It is applicable to the location and type of support elements but not to the structure to which the support elements are attached. The design for pressure and temperature shall be in accordance with the requirements of Part IP for industrial piping and Part PL for pipelines.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Justin Wu, (212) 591-7074, wuj@asme.org

NSF (NSF International)

Revision

BSR/NSF 7-201x (i21r2), Commercial Refrigerators and Freezers (revision of ANSI/NSF 7-2016)

This Standard contains requirements for refrigerators and freezers used to store and/or display cold food. The types of refrigerators and freezers covered by this Standard include, but are not limited to: storage refrigerators (e.g., reach-in, under counter, walk-in, roll-in); storage freezers (e.g., reach-in, under counter, walk-in, roll-in); rapid pull-down refrigerators and freezers; refrigerated food transport cabinets; refrigerated buffet units; refrigerated food preparation units; display refrigerators; beverage coolers; and ice cream cabinets.

Click here to view these changes in full

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

BSR/NSF 50-201x (i146r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF 50-2017)

This Standard covers materials, components, products, equipment and systems, related to public and residential recreational water facility operation.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Jason Snider; jsnider@nsf.org

BSR/NSF 350-201x (i35r2), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2017a)

This Standard contains minimum requirements for onsite residential and commercial graywater treatment systems. Systems may include Graywater reuse treatment systems having a rated treatment capacity up to 5,678 L/d (1,500 gal/d); or Commercial graywater reuse treatment systems. This applies to onsite commercial reuse treatment systems that treat combined commercial facility graywater with capacities exceeding 5,678 L/d (1,500 gal/d) and commercial facility laundry water only of any capacity. Management methods and end uses appropriate for the treated effluent discharged from graywater residential and commercial treatment systems meeting this Standard are limited to subsurface discharge to the environment only.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Jason Snider; jsnider@nsf.org

BSR/NSF 350-201x (i36r2), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2017a)

This Standard contains minimum requirements for onsite residential and commercial greywater treatment systems. Systems may include Greywater reuse treatment systems having a rated treatment capacity up to 5,678 L/d (1,500 gal/d) or Commercial greywater reuse treatment systems. This applies to onsite commercial reuse treatment systems that treat combined commercial facility greywater with capacities exceeding 5,678 L/d (1,500 gal/d) and commercial facility laundry water only of any capacity. Management methods and end uses appropriate for the treated effluent discharged from greywater residential and commercial treatment systems meeting this Standard are limited to subsurface discharge to the environment only.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Jason Snider; jsnider@nsf.org

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 489-201X, Standard for Safety for Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures (revision of ANSI/UL 489-2016)

Addition of Requirements from UL 489G into UL 489.

Click here to view these changes in full

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

Comment Deadline: February 4, 2019

AAMI (Association for the Advancement of Medical Instrumentation)

Addenda

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

This amendment (1) modifies the scope by removing the following exclusion: "Medical devices for rectal drainage, rectal administration of medicines or fluid, and any other rectal access medical device" and (2) makes dimensional changes 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/higherlogic/ws/public/documents?view=

Send comments (with copy to psa@ansi.org) to: Colleen Elliott, (703) 253-8261, celliott@aami.org

ACI (American Concrete Institute)

New Standard

BSR/ACI 318-201x, Building Code Requirements for Structural Concrete and Commentary (new standard)

The Building Code Requirements for Structural Concrete provides minimum requirements for the materials, design, and detailing of structural concrete buildings and, where applicable, non-building structures. This code addresses structural systems, members, and connections, including cast-in-place, precast, plain, nonprestressed, prestressed, and composite construction.

Single copy price: Free

Obtain an electronic copy from: https://www.concrete.org/publications/standards/upcomingstandards.aspx

Order from: Shannon Banchero, (248) 848-3728, shannon.banchero@concrete.org

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

AGMA (American Gear Manufacturers Association)

Reaffirmation

BSR/AGMA 6035-2002 (R201x), Design, Rating and Application of Industrial Globoidal Wormgearing (reaffirmation of ANSI/AGMA 6035-2002 (R2013))

This standard provides guidelines for the design, rating, and application of globoidal wormgearing mounted with axes at a 90-degree angle.

Single copy price: $83.00

Obtain an electronic copy from: tech@agma.org

Order from: tech@agma.org

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

BSR/AGMA 6135-2008 (R201x), Design, Rating and Application of Industrial Globoidal Wormgearing (Metric Edition) (reaffirmation of ANSI/AGMA 6135-2008 (R2013))

This standard provides guidelines for the design, rating, and application of globoidal wormgearing mounted with axes at a 90-degree angle.

Single copy price: $78.00

Obtain an electronic copy from: tech@agma.org

Order from: tech@agma.org

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

AGMA (American Gear Manufacturers Association)

Revision

BSR/AGMA 6034-CXX-201x, Practice for Enclosed Cylindrical Wormgear Speed Reducers and Gearmotors (revision of ANSI/AGMA 6034-B92-2010 (R2016))

This standard gives a method for rating and design of specific enclosed cylindrical wormgear reducers and gear motors at speeds not greater than 3,600 rpm or mesh sliding velocities not more than 6000 ft/min (30 m/s).

Single copy price: $60.00

Obtain an electronic copy from: tech@agma.org

Order from: tech@agma.org

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

AHRI (Air-Conditioning, Heating, and Refrigeration Institute)

Revision

BSR/AHRI Standard 1250 (I-P)-201x, Performance Rating of Walk-in Coolers and Freezers (revision, redesignation and consolidation of ANSI/AHRI Standard 1250 (I-P)-2014 and ANSI/AHRI Standard 1251 (SI)-2014)

This standard applies to mechanical refrigeration equipment consisting of an integrated single package refrigeration unit, or separate unit cooler and condensing unit sections, where the condensing section can be located either outdoor or indoor. Controls may be integral, or can be provided by a separate party as long as performance is tested and certified with the listed mechanical equipment accordingly.

Single copy price: Free

Obtain an electronic copy from: ANSIstd@ahrinet.org

Order from: Cesar EizagaColmenares, (352) 409-6585, CEizagaColmenares@ahrinet.org

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

ALI (ASC A14) (American Ladder Institute)

Revision

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

This standard prescribes rules concerning the safe design, construction, testing, care, installation, and use of permanently installed metal or wood, disappearing attic stairways of various types designed to be used for access to upper levels such as attics. Household units with duty ratings of 250, 300, and 350 lbs., or commercial units with a rating of 500 lbs. are the only units covered in this standard. This standard is not intended to apply to any attic stairway covered in any other ANSI A14 standards, or disappearing attic stairways intended for use with ceiling heights in excess of 12 feet. This standard also prescribes rules and minimum requirements for installation instructions and labeling of disappearing attic stairways in order to promote safety under normal conditions of usage.

Single copy price: $275.00 (USD)

Obtain an electronic copy from: info@americanladderinstitute.org

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

APTech (ASC CGATS) (Association for Print Technologies)

Revision

BSR CGATS.9-201x, Graphic technology - Graphic arts transmission densitometry measurements - Terminology, equations, image elements, and procedures (revision of ANSI CGATS.9-2007 (R2012))

This standard defines terminology, equations, process control elements, and procedures for measurement and communication of transmission densitometry data for graphic-arts halftone images. Graphic arts includes, but is not limited to, the preparation of material for, and volume production by, production printing processes which include offset lithography, letterpress, flexography, gravure, and screen printing. Although this standard addresses halftone applications, there are situations where non-traditional halftones and/or continuous tone materials are used for which these computations are also appropriate.

Single copy price: $16.00

Obtain an electronic copy from: dorf@aptech.org

Order from: Debra Orf, (703) 264-7200, dorf@aptech.org

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

ASC X9 (Accredited Standards Committee X9, Incorporated)

Reaffirmation

BSR X9.105-1-2009/ISO 8583-1-2009 (R201x), Financial transaction card originated messages - Interchange message specifications - Part 1: Messages, data elements, and code values (reaffirm a national adoption ANSI X9.105 Part 1-2009)

Part 1 of this three-part American National Standard and identical to its international counterpart of the same name, specifies a common interface by which financial transaction card-originated messages can be interchanged between acquirers and card issuers. The standard specifies message structure, format and content, data elements and values for data elements. The method by which settlement takes place is not within the scope of this part.

Single copy price: $175.00

Obtain an electronic copy from: Ambria.frazier@x9.org

Order from: Ambria Frazier, (410) 267-7707, Ambria.frazier@x9.org

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

BSR X9.105-3-2009/ISO 8583-3-2008 (R201x), Financial transaction card originated messages - Interchange message specifications - Part 3: Maintenance procedures for messages, data elements and code values (reaffirm a national adoption ANSI X9.105-3-2009)

The responsibilities of the MA relate to all message-type identifiers and classes, data elements and subelements, dataset identifiers and codes within ISO 8583-1, with the exception of Institution Identification Codes.

Single copy price: $60.00

Obtain an electronic copy from: Ambria.frazier@x9.org

Order from: Ambria Frazier, (410) 267-7707, Ambria.frazier@x9.org

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

ASME (American Society of Mechanical Engineers)

Revision

BSR/ASME BPVC Section I-201x, Rules for Construction of Power Boilers (revision of ANSI/ASME BPVC Section I-2017)

This Code covers rules for construction of power boilers, electric boilers, miniature boilers, high-temperature water boilers, heat recovery steam generators, solar receiver steam generators, certain fired pressure vessels, and liquid phase thermal fluid heaters to be used in stationary service and includes those power boilers used in locomotive, portable, and traction service. The rules are applicable to boilers in which steam or other vapor is generated at a pressures of more than 15 psig (100 kPa) for use external to itself, and high-temperature water boilers intended for operation at pressures exceeding 160 psig (1.1 MPa) and/or temperatures exceeding 250 degree F (120 degree C).

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

BSR/ASME BPVC Section II-201x, Part C - Specifications for Welding Rods, Electrodes, and Filler Metals (revision of ANSI/ASME BPVC Section II-2017)

Section II, Part C, contains material specifications, most of which are identical to corresponding specifications published by AWS and other recognized national or international organizations. All adopted specifications are either reproduced in the Code, where permission to do so has been obtained from the originating organization, or so referenced, and information about how to obtain them from the originating organization is provided.

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: Erika Lawson, (212) 591-8094, lawsone@asme.org

BSR/ASME BPVC Section II-201x (Parts A, B, and D), Part A - Ferrous Material Specifications; Part B - Nonferrous Material Specifications; Part D - Materials Properties (revision of ANSI/ASME BPVC Section II-2017 (Parts A, B, and D))

Section II of the Boiler and Pressure Vessel Code provides material specifications for base metallic materials and material design values and limits and cautions on the use of materials.

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: Colleen O'Brien, (212) 591-7881, obrienc@asme.org

BSR/ASME BPVC Section III-201x, Rules for Construction of Nuclear Facility Components (revision of ANSI/ASME BPVC Section III -2017)

The rules of this Section constitute requirements for the design, construction, stamping, and overpressure protection of items used in nuclear power plants and other nuclear facilities. This Section consists of the following divisions:

(a) Division 1. Metallic vessels, heat exchangers, storage tanks, piping systems, pumps, valves, core support structures, supports, and similar items;

(b) Division 2. Concrete containments with metallic liners;

(c) Division 3. Containment systems for spent nuclear fuel and high-Level Radioactive Material;

(d) Division 4. Components for fusion devices; and

(e) Division 5. High-temperature reactors, vessels, storage tanks, piping, pumps, valves, core support structures, and non-metallic core components for use in nuclear power plants and other nuclear facilities.

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: Allyson Byk, (212) 591-8521, byka@asme.org

BSR/ASME BPVC Section IV-201x, Rules for Construction of Heating Boilers (revision of ANSI/ASME BPVC Section IV-2017)

The rules of this Section of the Code cover minimum construction requirements for the design, fabrication, installation, and inspection of steam heating, hot-water heating, hot-water supply boilers that are directly fired with oil, gas, electricity, coal, or other solid or liquid fuels, and for operation at or below the pressure and temperature limits set forth in this document. Similar rules for potable water heaters are also included.

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: Carlton Ramcharran, (212) 591-7955, ramcharranc@asme.org

BSR/ASME BPVC Section IX-201x, Welding, Brazing and Fusing Qualifications (revision of ANSI/ASME BPVC Section IX-2017)

Section IX of the ASME Boiler and Pressure Vessel Code relates to the qualification of welders, welding operators, brazers, brazing operators, and fusing operators and the procedures that they employ in welding, brazing and fusing according to the ASME Boiler and Pressure Vessel Code and the ASME B31 Code for Pressure Piping□.

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: Erika Lawson, (212) 591-8094, lawsone@asme.org

BSR/ASME BPVC Section V-201x, Nondestructive Examination (revision of ANSI/ASME BPVC Section V-2017)

Section V of the ASME Boiler & Pressure Vessel Code contains requirements and methods for nondestructive examination (NDE) which are referenced and required by other Sections of the Code. These NDE methods are intended to detect surface and internal imperfections in materials, welds, fabricated parts and components. The following NDE methods are addressed: radiography, ultrasonics, liquid penetrant, magnetic particle, eddy current, visual, leak testing, and acoustic emission.

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: Carlton Ramcharran, (212) 591-7955, ramcharranc@asme.org

BSR/ASME BPVC Section VI-201x, Recommended Rules for the Care and Operation of Heating Boilers (revision of ANSI/ASME BPVC Section VI-2017)

Section VI of the ASME Boiler & Pressure Vessel Code contains recommended guidelines to promote safety in the use of steam heating, hot-water heating, and hot-water supply boilers that are directly fired with oil, gas, electricity, coal, or other solid or liquid fuels.

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: Carlton Ramcharran, (212) 591-7955, ramcharranc@asme.org

BSR/ASME BPVC Section VII-201x, Recommended Guidelines for the Care of Power Boilers (revision of ANSI/ASME BPVC Section VII-2017)

The purpose of Section VII, Recommended Guidelines for the Care of Power Boilers, is to promote safety in the use of power boilers. These guidelines are intended for use by those directly responsible for operating, maintaining, and examining power boilers. With respect to the application of these guidelines, a power boiler is a pressure vessel constructed in compliance with Section I in which, due to the application of heat, steam is generated at a pressure exceeding 15 psig (100 kPa) for use external to the boiler. The heat may be derived from the combustion of fuel (solids, liquids, or gases), from the hot waste gases of other chemical reactions, or from the application of electrical energy.

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

BSR/ASME BPVC Section VIII-201x, Rules for Construction of Pressure Vessels (revision of ANSI/ASME BPVC Section VIII-2017)

This Section contains mandatory requirements, specific prohibitions, and nonmandatory guidance for pressure-vessel materials, design, fabrication, examination, inspection, testing, certification, and pressure relief. The Code does not address all aspects of these activities, and those aspects which are not specifically addressed should not be considered prohibited.

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: Steven Rossi, (212) 591-8460, rossis@asme.org

BSR/ASME BPVC Section X-2017, Fiber-Reinforced Plastic Pressure Vessels (revision of ANSI/ASME BPVC Section X-2017)

Section X of the ASME Boiler and Pressure Vessel Code provides requirements for the fabrication of fiber-reinforced thermosetting plastic pressure vessels for general service, sets limitations on the permissible service conditions, and defines the types of vessels to which these rules are not applicable.

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: Paul Stumpf, (212) 591-8536, stumpfp@asme.org

BSR/ASME BPVC Section XI-201x, Rules for Inservice Inspection of Nuclear Power Plant Components (revision of ANSI/ASME BPVC Section XI-2017)

Section XI, Rules for Inservice Inspection of Nuclear Power Plant Components, of the ASME Boiler and Pressure Vessel Code provides requirements for examination, testing, and inspection of components and systems, and repair/replacement activities in a nuclear power plant. Application of this Section of the Code begins when the requirements of the Construction Code have been satisfied.

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: Kimberly Verderber, (212) 591-8721, verderberk@asme.org

BSR/ASME BPVC Section XII-201x, Rules for Construction and Continued Service of Transport Tanks (revision of ANSI/ASME BPVC Section XII-2017)

The rules of this Section constitute requirements for construction and continued service of pressure vessels for the transportation of dangerous goods via highway, rail, air, or water. Construction is an all-inclusive term comprising materials, design, fabrication, examination, inspection, testing, certification, and over-pressure protection. Continued service is an all-inclusive term referring to inspection, testing, repair, alteration, and recertification of a transport tank that has been in service.

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: Jihoon Oh, (212) 591-8544, ohj@asme.org

ASSP (ASC A10) (American Society of Safety Professionals)

Revision

BSR/ASSP A10.23-201x, Safety Requirements for the Installation of Drilled Shafts (revision and redesignation of ANSI/ASSE A10.23 -2014)

This standard establishes safety requirements for the installation of drilled shafts during construction and demolition operations.

Single copy price: $110.00

Obtain an electronic copy from: LBauerschmidt@assp.org

Order from: LBauerschmidt@assp.org

Send comments (with copy to psa@ansi.org) to: Lauren Bauerschmidt, (847) 768-3475, LBauerschmidt@assp.org

ASSP (Safety) (American Society of Safety Professionals)

New Standard

BSR/ASSP Z9.7-201x, Recirculation of Air from Industrial Process Exhaust Systems (new standard)

The primary purpose of this standard is to establish minimum requirements and best practices addressing recirculation of air from industrial-process exhaust systems.

Single copy price: $99.00

Obtain an electronic copy from: OMunteanu@ASSP.org

Send comments (with copy to psa@ansi.org) to: Ovidiu Munteanu, (847) 699-2929, OMunteanu@ASSP.org

BSR/ASSP Z459.1-201x, Safety Requirements for Rope Access Systems (new standard)

This standard sets forth accepted practices for rope access work. It is applicable for use in any environment where ropes are suspended from or connected to a structure or natural feature and used as the primary means of access, egress, or support and as the primary means of secondary protection against a fall. This standard is not intended to apply to recreational use of ropes or to methods used by professional emergency response personnel, although persons engaged in such activities may benefit from the advice, principles, and practices in this standard. This is the same project as the originally proposed Z359.8 standard but the committee decided to change the numbering.

Single copy price: $99.00

Obtain an electronic copy from: OMunteanu@ASSP.org

Send comments (with copy to psa@ansi.org) to: Ovidiu Munteanu, (847) 699-2929, OMunteanu@ASSP.org

ASSP (Safety) (American Society of Safety Professionals)

Revision

BSR/ASSP Z359.1-201x, The Fall Protection Code (revision and redesignation of ANSI/ASSE Z359.1-2016)

The Fall Protection Code is a set of standards that covers program management; system design; training; qualification and testing; and equipment, component, and system specifications for the processes used to protect workers at height in a managed fall protection program. This standard identifies those requirements and establishes their role in the Code and their interdependence.

Single copy price: Free

Obtain an electronic copy from: https://store.assp.org/PersonifyEbusiness/Store/Product-Details/productId/26534446

Send comments (with copy to psa@ansi.org) to: Ovidiu Munteanu, (847) 699-2929, OMunteanu@ASSP.org

ATIS (Alliance for Telecommunications Industry Solutions)

Reaffirmation

BSR ATIS 0300219-2013 (R201x), Integrated Services Digital Network (ISDN) Management - Overview and Principles (reaffirmation of ANSI ATIS 0300219-2013)

This standard provides an overview of the set of standards on management operations for Integrated Services Digital Networks (ISDNs) and establishes the principles for the maintenance and operations needed for overall management of ISDNs. This document provides a general discussion of the models, terminology, and principles utilized to define needed management functionality in customer and network equipment. This standard covers the general concept of the ISDN management process and states the functional ISDN maintenance strategies.

Single copy price: $155.00

Obtain an electronic copy from: ehoefer@atis.org

Send comments (with copy to psa@ansi.org) to: Emily Hoefer, (202) 662-8654, ehoefer@atis.org

AWS (American Welding Society)

Revision

BSR/AWS D15.1/D15.1M-201X, Railroad Welding Specification for Cars and Locomotives (revision of ANSI/AWS D15.1/D15.1M -2012)

This specification establishes minimum welding standards for the manufacture and maintenance of railcars, locomotives, and their components, intended for North American railroad service. Clauses 4 through 17 cover the general requirements for welding in the railroad industry. Clauses 18 through 24 cover specific requirements for the welding of base metals thinner than 1/8 in [3 mm].

Single copy price: $72.00

Obtain an electronic copy from: jrosario@aws.org

Order from: Jennifer Rosario, (800) 443-9353, jrosario@aws.org

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

NEMA (ASC C18) (National Electrical Manufacturers Association)

Revision

BSR C18.3M, Part 1-201x, Portable Rechargeable Cells and Batteries - General and Specifications (revision of ANSI C18.3M, Part 1 -2013)

The standard applies to portable lithium primary cells and batteries.

Single copy price: $99.00

Obtain an electronic copy from: khaled.masri@nema.org

Order from: NEMA Communication Department

Send comments (with copy to psa@ansi.org) to: Khaled Masri, (703) 841-3278, Khaled.Masri@nema.org

NISO (National Information Standards Organization)

Revision

BSR/NISO Z39.96-201x, JATS: Journal Article Tag Suite (1.2) (revision of ANSI/NISO Z39.96-2015)

Update to ANSI/NISO Z39.96-2015, JATS: Journal Article Tag Suite (1.1), achieved through Continuous Maintenance procedure. Includes changes submitted through May 2018, approved by the NISO JATS Standing Committee and NISO Information Creation & Curation Topic Committee.

Single copy price: Free

Obtain an electronic copy from: nisohq@niso.org

Order from: http://www.niso.org/contact/

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

NSF (NSF International)

Revision

BSR/NSC 373-201x (i3r1), Sustainability Assessment for Natural Dimension Stone (revision of ANSI/NSC 373-2017)

This sustainability standard establishes criteria to measure the extent to which natural stone has been produced sustainably. The standard applies to all processors of natural stone, from quarry operations through final stone fabrication, and is intended to allow for both domestic and international market participation from natural dimension stone producers. In practice, the facility operator applies this Standard to: quarry operations, stone fabrication, or both.

Single copy price: Free

Obtain an electronic copy from: https://standards.nsf.org/apps/group_public/download.php/46001/373i3r1%20-%20JC%20Memo%20and%20ballot.pdf

Send comments (with copy to psa@ansi.org) to: Andrea Burr, (734) 913-5794, aburr@nsf.org

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 5B-2014 (R201x), Standard for Strut-Type Channel Raceways and Fittings (reaffirmation of ANSI/UL 5B-2014)

(1) Reaffirmation and continuance of the 2nd edition of the Standard for Strut-Type Channel Raceways and Fittings, UL 5B, as an American National Standard.

Single copy price: Free

Obtain an electronic copy from: http://www.shopulstandards.com

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 1450-201x, Standard for Safety for Motor-Operated Air Compressors, Vacuum Pumps, and Painting Equipment (revision of ANSI/UL 1450-2013)

This proposal for UL 1450 covers: (1) Proposed addition of paragraph 2.20.1 to define a portable product; (2) Proposed addition of requirements to allow a minimum HB flammability rating for Class 2 LPS or LVLE circuits; (3) Proposed revision to paragraph 9.5 to remove UV requirements for indoor equipment and to clarify test tolerances; (4) Proposed revision to paragraph 20.1.5 to clarify grounding requirements for dead metal parts; (5) Proposed revisions to table 46.1, Temperature Rises, to add Insulation Classes and clarify the requirements; (6) Proposed revisions to paragraph 46.2.2 to allow the use of oil when testing non-pneumatic paint sprayers; (7) Proposed revisions to paragraph 47.2 to clarify the test method for grounding continuity; (8) Proposed revision to 54.1 to clarify the test method for the Abnormal Test with respect to semiconductor junctions; (9) Proposed revision to paragraph 58.1 to allow oil or other representative liquid for the Hydrostatic Strength Test; (10) Proposed revisions to clarify construction and performance requirements for battery-operated products with respect to battery ratings and types; (11) Proposed revisions to table SA6.1 to delete obsolete properties and to align with similar requirements in the Standard for Tests for Sharpness of Edges on Equipment, UL 1439; (12) Proposed revisions to test requirements in section SA9, Gasket and Seals, to Exempt Gaskets not Relied upon to Reduce Risk of Electric Shock or Injury to Persons from Testing; (13) Proposed Revision to paragraph SA10.11 to add 50/50 ethylene glycol/water mix as an acceptable solvent that can be used in the Solvent Exposure Test - Tensile Strength and Elongation Tests; (14) Proposed revisions to paragraph SA10.12 to clarify Pull Force Test Requirements for Hoses with Diameters Greater than 3/16 in; (15) Proposed addition of Figure SA10.1 to clarify the correct test method for the Hose Flexing Test; (16) Proposed changes to relocate component standard references from Appendix A to the body of the standard; (17) Proposed revisions to update requirements for controls; (18) Proposed revisions to correct cord lengths for attached flexible cord; (19) Proposed revisions to clarify the normal load run time for commercial inflators; (20) Proposed addition of Construction, Marking, and Installation Instruction Requirements for Nitrogen Generators; (21) Proposed changes to replace existing requirements for battery-operated products with requirements based on the requirements in UL 2595, General Requirements for Battery-Powered Appliances; (22) Proposed Addition of electronic control requirements; (23) Proposed revisions top paragraph 9.7 to update the reference to the Applicable Flammability Test; (24) Proposed revision to and addition of requirements to address compressor constructions that employ alternative means to drain pressure vessels.

Single copy price: Free

Obtain an electronic copy from: http://www.shopulstandards.com

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

Comment Deadline: February 19, 2019

Reaffirmations and withdrawals available electronically may be accessed at: webstore.ansi.org

ASME (American Society of Mechanical Engineers)

Reaffirmation

BSR/ASME A112.4.1-2014 (R201x), Water Heater Relief Valve Drain Tubes (reaffirmation of ANSI/ASME A112.4.1-2014)

This Standard establishes performance requirements and test methods applicable to water heater relief valve drain (or runoff) tubes for use with relief valves having a steam rating of 105,000 Btu/hr or less.

Single copy price: $39.00

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

For Reaffirmations and Withdrawn standards, please view our catalog at https://www.asme.org/shop/standards

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

BSR/ASME A112.19.12-2014 (R201x), Wall Mounted, Pedestal Mounted, Adjustable, Elevating, Tilting, and Pivoting Lavatory, Sink, and Shampoo Bowl Carrier Systems and Drain Waste Systems (reaffirmation of ANSI/ASME A112.19.12-2014)

This Standard establishes physical requirements and tests addressing structural strength; adjustments; materials; drain line hydraulics; and mechanical, material, testing, marking, and documentation requirements for wall-mounted and pedestal-mounted, adjustable, elevating, tilting, and pivoting lavatory, sink, and shampoo bowl carrier systems and drain waste systems intended to facilitate use by individuals who are physically challenged.

Single copy price: $36.00

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

For Reaffirmations and Withdrawn standards, please view our catalog at https://www.asme.org/shop/standards

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

BSR/ASME RA-S-2008 (R201x) (including Addenda a-2009 and b-2013) , Standard for Level 1/Large Early Release Frequency Probabilistic Risk Assessment for Nuclear Power Plant Applications (reaffirmation and consolidation of ANSI/ASME RA-S-2008, ANSI/ASME RA-Sa-2009, and ANSI/ASME RA-Sb-2010)

Establish requirements for: (1) Level 1 PRA of internal and external hazards for all plant operating modes (low-power and shutdown modes will be included at a future date); and (2) Level 2 PRA sufficient to evaluate large early release frequency (LERF).

Single copy price: $355.00

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: Oliver Martinez, (212) 591-7005, martinezo@asme.org

ASME (American Society of Mechanical Engineers)

Revision

BSR/ASME Y14.5.1-201x, Mathematical Definition of Dimensioning and Tolerancing Principles (revision and redesignation of ANSI/ASME Y14.5.1M-1994 (R2012))

This Standard presents a mathematical definition of geometrical dimensioning and tolerancing consistent with the principles and practices of ASME Y14.5-2009, enabling determination of actual values. Textual references are included throughout this Standard which are direct quotations from ASME Y14.5-2009. The definitions established in this Standard apply to product specifications in any representation. When reference is made in this Standard to an engineering product definition, it applies to any form of product specification.

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: Fredric Constantino, (212) 591-8684, constantinof@asme.org

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 2900-2-3-201x, Standard for Safety for Software Cybersecurity for Network-Connectable Products, Part 2-3: Particular Requirements for Security and Life Safety Signaling Systems (new standard)

This proposed first edition of the Standard for Software Cybersecurity for Network-Connectable Products, Part 2-3: Particular Requirements for Security and Life Safety Signaling Systems, UL 2900-2-3, applies to the evaluation of security and life safety signaling system components including, but not limited to, alarm control units; intrusion detection equipment; general-purpose signaling units; digital video equipment and systems; mass notification and emergency communication/evacuation equipment and systems; control servers; alarm automation system software; alarm receiving equipment; anti-theft equipment; automated teller machines; fire alarm control systems; network-connected locking devices; PSIM systems; smoke control systems; smoke/gas/CO detection devices; audible and visual signaling devices (fire and general signaling); access control equipment and systems; and smart locks.

Single copy price: Free

Obtain an electronic copy from: https://csds.ul.com/Home/ProposalsDefault.aspx

Send comments (with copy to psa@ansi.org) to: Barbara Davis, (510) 319-4233, Barbara.J.Davis@ul.com

Technical Reports Registered with ANSI

Technical Reports Registered with ANSI are not consensus documents. Rather, all material contained in Technical Reports Registered with ANSI is informational in nature. Technical reports may include, for example, reports of technical research, tutorials, factual data obtained from a survey carried out among standards developers and/or national bodies, or information on the "state of the art" in relation to standards of national or international bodies on a particular subject.

Immediately following the end of a 30-day announcement period in Standards Action, the Technical Report will be registered by ANSI. Please submit any comments regarding this registration to the organization indicated, with a copy to the PSA Center, American National Standards Institute, 25 West 43rd Street, New York, NY 10036 or E-Mail to psa@ansi.org.

Comment Deadline: January 20, 2019

ASC X9 (Accredited Standards Committee X9, Incorporated)

ASC X9 TR 50-2019, Quantum Techniques in Cryptographic Message Syntax (CMS) (technical report)

ASC X9 TR 50 Quantum Techniques in Cryptographic Message Syntax (CMS) gives a general introduction to quantum computers and the consequences they pose to the financial services industry. Specifically, this report describes both cryptographic and non-cryptographic uses for quantum computers, considers the impact quantum computers will have on CMS, secure authentication and communication, and offers general recommendations for mitigating these impacts.

Single copy price: Free

Order from: ambria.frazier@x9.org

Send comments (with copy to psa@ansi.org) to: Ambria Frazier, (410) 267-7707, Ambria.frazier@x9.org

Withdrawal of Technical Reports Registered with ANSI

Withdrawal of a Technical Report that is registered with ANSI is determined by the responsible ANSI-Accredited Standards Developer. The following Technical Reports are hereby withdrawn in accordance with the Developers own procedures.

AAMI (Association for the Advancement of Medical Instrumentation)

AAMI/ISO TIR 19218-1-2011, Medical devices - Hierarchal coding structure for adverse events - Part 1: Event type codes (TECHNICAL REPORT)

AAMI/ISO TIR 19218-2:2012, Medical devices - Hierarchical coding structure for adverse events - Part 2: Evaluation codes (TECHNICAL REPORT)

AAMI/ISO TIR19218-1:2011/A1-2013, Medical devices - Hierarchal coding structure for adverse events - Part 1: Event type codes - Amendment 1 (TECHNICAL REPORT)

B11 (B11 Standards, Inc.)

B11.TR6-2010, Safety Control Systems for Machines (Technical Report)

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:

ECIA (Electronic Components Industry Association)

BSR/EIA 364-106A-201x, Standing Wave Ratio (SWR) Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364-106-2000 (R2013))

This standard establishes test methods to evaluate existing standing wave ratio (SWR) of connectors, coaxial, radio frequency (RF). Measured SWR shall not exceed that specified over the frequency range specified.

Inquiries may be directed to Laura Donohoe, (571) 323-0294, ldonohoe@ecianow.org

BSR/EIA 364-108A-201x, Impedance, Reflection Coefficient,Return Loss, and VSWR Measured in the Time and Frequency Domain Test Procedure for Electrical Connectors, Cable Assemblies or Interconnection Systems (revision and redesignation of ANSI/EIA 364 -108-2000 (R2013))

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.

AAMI (Association for the Advancement of Medical Instrumentation)

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

Contact: *Will Vargas*

Phone: (703) 647-2779

E-mail: wvargas@aami.org

BSR/AAMI 2700-1201x, Medical devices and medical systems - Essential safety requirements for equipment comprising the patient-centric integrated clinical environment (ICE) - Part 1: General requirements and conceptual model (new standard)

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

ASME (American Society of Mechanical Engineers)

Office: Two Park Avenue
New York, NY 10016-5990

Contact: *Mayra Santiago*

Phone: (212) 591-8521

E-mail: ansibox@asme.org

BSR/ASME BPVC Section IV-201x, Rules for Construction of Heating Boilers (revision of ANSI/ASME BPVC Section IV-2017)

BSR/ASME BPVC Section V-201x, Nondestructive Examination (revision of ANSI/ASME BPVC Section V-2017)

BSR/ASME BPVC Section XI-201x, Rules for Inservice Inspection of Nuclear Power Plant Components (revision of ANSI/ASME BPVC Section XI-2017)

BSR/ASME BPVC Section XII-201x, Rules for Construction and Continued Service of Transport Tanks (revision of ANSI/ASME BPVC Section XII-2017)

ASSP (ASC A10) (American Society of Safety Professionals)

Office: 520 N. Northwest Hwy.
Park Ridge, IL 60068

Contact: *Lauren Bauerschmidt*

Phone: (847) 768-3475

E-mail: LBauerschmidt@assp.org

BSR/ASSP A10.23-201x, Safety Requirements for the Installation of Drilled Shafts (revision and redesignation of ANSI/ASSE A10.23 -2014)

HI (Hydraulic Institute)

Office: 6 Campus Drive
Parsippany, NJ 07054

Contact: *Tori Serazi*

Phone: (973) 267-9700

E-mail: tserazi@pumps.org

BSR/HI 3.1-3.5-201x, Rotary Pumps for Nomenclature, Definitions, Application, and Operation (revision of ANSI/HI 3.1-3.5-2015)

BSR/HI 12.1-12.6-201x, Rotodynamic Centrifugal Slurry Pumps for Nomenclature, Definitions, Applications, and Operation (revision of ANSI/HI 12.1-12.6-2016)

ISEA (International Safety Equipment Association)

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

Contact: *Cristine Fargo*

Phone: (703) 525-1695

E-mail: cfargo@safetyequipment.org

BSR/ISEA Z308.1-201x, Minimum Requirements for Workplace First Aid Kits and Supplies (revision of ANSI/ISEA Z308.1-2015)

NEMA (ASC C18) (National Electrical Manufacturers Association)

Office: 1300 North 17th Street
Rosslyn, VA 22209

Contact: *Khaled Masri*

Phone: (703) 841-3278

E-mail: Khaled.Masri@nema.org

BSR C18.3M, Part 1-201x, Portable Rechargeable Cells and Batteries - General and Specifications (revision of ANSI C18.3M, Part 1-2013)

NISO (National Information Standards Organization)

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

Contact: *Nettie Lagace*

Phone: (301) 654-2512

E-mail: nlagace@niso.org

BSR/NISO Z39.96-201x, JATS: Journal Article Tag Suite (1.2) (revision of ANSI/NISO Z39.96-2015)

NSF (NSF International)

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

Contact: *Andrea Burr*

Phone: (734) 913-5794

E-mail: aburr@nsf.org

BSR/NSC 373-201x (i3r1), Sustainability Assessment for Natural Dimension Stone (revision of ANSI/NSC 373-2017)

BSR/NSF 7-201x (i21r2), Commercial Refrigerators and Freezers (revision of ANSI/NSF 7-2016)

BSR/NSF 50-201x (i146r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF 50-2017)

BSR/NSF 350-201x (i35r2), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2017a)

BSR/NSF 350-201x (i36r2), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2017a)

TAPPI (Technical Association of the Pulp and Paper Industry)

Office: 15 Technology Parkway South
Suite 115
Peachtree Corners, GA 30092

Contact: *Priscila Briggs*

Phone: (770) 209-7249

E-mail: standards@tappi.org

BSR/TAPPI T 577 om-201x, Score bend test (new standard)

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.

AGMA (American Gear Manufacturers Association)

Reaffirmation

ANSI/AGMA 6015-2013 (R2018), Power Rating of Single and Double Helical Gearing for Rolling Mill Service (reaffirmation of ANSI/AGMA 6015-2013): 12/17/2018

ANSI/AGMA 6032-B-2013 (R2018), Standard for Marine Gear Units: Rating and Application for Spur and Helical Gear Teeth (reaffirmation of ANSI/AGMA 6032-B-2013): 12/14/2018

ANSI/AGMA 6115-2013 (R2018), Power Rating of Single and Double Helical Gearing for Rolling Mill Service - Metric Edition (reaffirmation of ANSI/AGMA 6115-2013): 12/14/2018

ANSI/AGMA 6132-B-2013 (R2018), Standard for Marine Gear Units: Rating and Application for Spur and Helical Gear Teeth - Metric Edition (reaffirmation of ANSI/AGMA 6132-B-2013): 12/14/2018

AISI (American Iron and Steel Institute)

Supplement

ANSI/AISI S100-2016/S1-2018, Supplement 1 to North American Specification for the Design of Cold-Formed Steel Structural Members (supplement to ANSI/AISI S100-2016): 12/11/2018

API (American Petroleum Institute)

Reaffirmation

ANSI/API 13M/ISO 13503-1-2004 (R2018), Measurement of Viscous Properties of Completion Fluids (reaffirmation of ANSI/API 13M/ISO 13503-1-2004 (R2010)): 12/11/2018

ASA (ASC S3) (Acoustical Society of America)

Reaffirmation

ANSI/ASA S3.1-1999 (R2018), Maximum Permissible Ambient Noise Levels for Audiometric Test Rooms (reaffirmation of ANSI/ASA S3.1 -1999 (R2013)): 12/14/2018

ASABE (American Society of Agricultural and Biological Engineers)

Reaffirmation

ANSI/ASAE S375.2-1996 (R2018), Capacity Ratings and Unloading Dimensions for Cotton Harvester Baskets (reaffirmation of ANSI/ASAE S375.2-1996 (R2013)): 12/17/2018

ANSI/ASAE S296.5 DEC2003 (R2018), General Terminology for Traction of Agricultural Traction and Transport Devices and Vehicles (reaffirmation and redesignation of ANSI/ASAE S296.5 DEC2003 (R2013)): 12/17/2018

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

Revision

ANSI/ASHRAE Standard 25-2018, Methods of Testing Forced Circulation Free-Delivery Unit Coolers for Refrigeration (revision of ANSI/ASHRAE Standard 25-2001 (R2016)): 12/17/2018

ASTM (ASTM International)

New Standard

ANSI/ASTM D2949-2018, Specification for 3.25-in. Outside Diameter Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings (new standard): 11/20/2018

ANSI/ASTM D2949-2018, Specification for 3.25-in. Outside Diameter Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings (new standard): 11/20/2018

ANSI/ASTM D8146-2018, Guide for Evaluating Test Method Capability and Fitness for Use (new standard): 11/20/2018

ANSI/ASTM D8186-2018, Test Method for Measurement of Impurities in Graphite by Electrothermal Vaporization Inductively Coupled Plasma Optical Emission Spectrometry (ETV-ICP OES) (new standard): 11/20/2018

ANSI/ASTM F3313-2018, Test Method for Determining Impact Attenuation of Playground Surfaces within the Use Zone of Playground Equipment as Tested in the Field (new standard): 12/1/2018

ANSI/ASTM F3347-2018, Specification for Metal Press Insert Fittings with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-Linked Polyethylene (PEX) Tubing (new standard): 11/20/2018

ANSI/ASTM F3348-2018, Specification for Plastic Press Insert Fittings with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-linked Polyethylene (PEX) Tubing (new standard): 11/20/2018

Reaffirmation

ANSI/ASTM D3948-2014 (R2018), Test Method for Determining Water Separation Characteristics of Aviation Turbine Fuels by Portable Separometer (reaffirmation of ANSI/ASTM D3948-2014): 11/20/2018

ANSI/ASTM D6824-2013 (R2018), Test Method for Determining Filterability of Aviation Turbine Fuel (reaffirmation of ANSI/ASTM D6824-2013): 11/20/2018

ANSI/ASTM D7224-2014 (R2018), Test Method for Determining Water Separation Characteristics of Kerosine-Type Aviation Turbine Fuels Containing Additives by Portable Separometer (reaffirmation of ANSI/ASTM D7224-2014): 11/20/2018

ANSI/ASTM D7872-2013 (R2018), Test Method for Determining the Concentration of Pipeline Drag Reducer Additive in Aviation Turbine Fuels (reaffirmation of ANSI/ASTM D7872-2013): 11/20/2018

ANSI/ASTM E696-2017 (R2018), Specification for Tungsten-Rhenium Alloy Thermocouple Wire (reaffirmation of ANSI/ASTM E696-2017): 11/20/2018

ANSI/ASTM E1402-2013 (R2018), Guide for Sampling Design (reaffirmation of ANSI/ASTM E1402-2013): 11/20/2018

ANSI/ASTM E2696-2009 (R2018), Practice for Life and Reliability Testing Based on the Exponential Distribution (reaffirmation of ANSI/ASTM E2696-2009 (R2013)): 12/1/2018

ANSI/ASTM F659-2010 (R2018), Specification for Ski and Snowboard Goggles (reaffirmation of ANSI/ASTM F659-2010): 11/20/2018

ANSI/ASTM F1702-2010 (R2018), Test Method for Measuring Impact-Attenuation Characteristics of Natural Playing Surface Systems Using a Lightweight Portable Apparatus (reaffirmation of ANSI/ASTM F1702-2010): 12/1/2018

ANSI/ASTM F2043-2013 (R2018), Classification for Bicycle Usage (reaffirmation of ANSI/ASTM F2043-2013): 11/20/2018

ANSI/ASTM F2983-2013 (R2018), Guide for Manufacturers for Labeling and Care Instructions for Wrestling Mats (reaffirmation of ANSI/ASTM F2983-2013): 11/20/2018

Revision

ANSI/ASTM C781-2018, Practice for Testing Graphite and Boronated Graphite Materials for High-Temperature Gas-Cooled Nuclear Reactor Components (revision of ANSI/ASTM C781-2008 (R2014)): 11/20/2018

ANSI/ASTM D3244-2018, Practice for Utilization of Test Data to Determine Conformance with Specifications (revision of ANSI/ASTM D3244-2016): 11/20/2018

ANSI/ASTM D6041-2018, Specification for Contact-Molded Fiberglass (Glass-Fiber-Reinforced Thermosetting Resin) Corrosion Resistant Pipe and Fittings (revision of ANSI/ASTM D6041-2012): 11/20/2018

ANSI/ASTM D6227-2018, Specification for Unleaded Aviation Gasoline Containing a Non-Hydrocarbon Component (revision of ANSI/ASTM D6227-2017): 11/20/2018

ANSI/ASTM D7547-2018, Specification for Hydrocarbon Unleaded Aviation Gasoline (revision of ANSI/ASTM D7547-2018): 11/20/2018

ANSI/ASTM D7719-2018, Specification for High Aromatic Content Unleaded Hydrocarbon Aviation Gasoline (revision of ANSI/ASTM D7719-2017): 11/20/2018

ANSI/ASTM D7960-2018, Specification for Unleaded Aviation Gasoline Test Fuel Containing Non-Hydrocarbon Components (revision of ANSI/ASTM D7960-2017): 11/20/2018

ANSI/ASTM E119-2018, Test Methods for Fire Tests of Building Construction and Materials (revision of ANSI/ASTM E119-2018): 11/20/2018

ANSI/ASTM E1321-2018, Test Method for Determining Material Ignition and Flame Spread Properties (revision of ANSI/ASTM E1321-2013): 11/20/2018

ANSI/ASTM E1995-2018, Test Method for Measurement of Smoke Obscuration Using a Conical Radiant Source in a Single Closed Chamber, with the Test Specimen Oriented Horizontally (revision of ANSI/ASTM E1995-2016): 12/1/2018

ANSI/ASTM E2849-2018, Practice for Professional Certification Performance Testing (revision of ANSI/ASTM E2849-2013): 11/20/2018

ANSI/ASTM E3075-2018, Test Method for Water Immersion and Drying for Evaluation of Flood Damage Resistance (revision of ANSI/ASTM E3075-2018): 11/20/2018

ANSI/ASTM F722-2018, Specification for Welded Joints for Shipboard Piping Systems (revision of ANSI/ASTM F722-1982 (R2014)): 11/20/2018

ANSI/ASTM F1292-2018, Specification for Impact Attenuation of Surfacing Materials within the Use Zone of Playground Equipment (revision of ANSI/ASTM F1292-2017): 12/1/2018

ANSI/ASTM F1674-2018, Test Method for Joint Restraint Products for Use with PVC Pipe (revision of ANSI/ASTM F1674-2017): 11/20/2018

ANSI/ASTM F1807-2018, Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing (revision of ANSI/ASTM F1807-2018): 11/20/2018

ANSI/ASTM F1960-2018, Specification for Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-Linked Polyethylene (PEX) Tubing (revision of ANSI/ASTM F1960-2017): 11/20/2018

ANSI/ASTM F2080-2018, Specification for Cold-Expansion Fittings with Metal Compression-Sleeves for Crosslinked Polyethylene (PEX) Pipe and SDR9 Polyethylene of Raised Temperature (PE-RT) Pipe (revision of ANSI/ASTM F2080-2016): 11/20/2018

ANSI/ASTM F2159-2018, Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-Linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing (revision of ANSI/ASTM F2159-2018): 11/20/2018

ANSI/ASTM F2361-2018, Guide for Ordering Low Voltage (1000 VAC or Less) Alternating Current Electric Motors for Shipboard Service up to and Including Motors of 500 Horsepower (revision of ANSI/ASTM F2361-2009 (R2013)): 11/20/2018

ANSI/ASTM F2434-2018, Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-Linked Polyethylene (PEX) Tubing and SDR9 Cross-Linked Polyethylene/Aluminum/Cross-Linked Polyethylene (PEX-AL-PEX) Tubing (revision of ANSI/ASTM F2434-2017): 11/20/2018

ANSI/ASTM F2440-2018, Specification for Indoor Wall/Feature Padding (revision of ANSI/ASTM F2440-2011): 11/20/2018

ANSI/ASTM F2735-2018, Specification for Plastic Insert Fittings for SDR9 Cross-Linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing (revision of ANSI/ASTM F2735-2017): 11/20/2018

ANSI/ASTM F3128-2018, Specification for Poly(Vinyl Chloride) (PVC) Schedule 40 Drain, Waste, and Vent Pipe with a Cellular Core (revision of ANSI/ASTM F3128-2017): 11/20/2018

AWS (American Welding Society)

New Standard

ANSI/AWS D20.1/D20.1M-2019, Specification for Fabrication of Metal Components using Additive Manufacturing (new standard): 12/17/2018

AWWA (American Water Works Association)

Revision

ANSI/AWWA C228-2018, Stainless-Steel Pipe Flange Joints for Water Service - Sizes 2 In. Through 72 In. (50 mm Through 1,800 mm) (revision of ANSI/AWWA C228-2014): 12/17/2018

CTA (Consumer Technology Association)

Reaffirmation

* ANSI/CTA/CEDIA 863-B-2011 (R2018), Connection Color Codes for Home Theater Systems (reaffirmation of ANSI/CTA/CEDIA 863-B -2011): 12/17/2018

* ANSI/CTA/CEDIA 897-2010 (R2018), F-Connector Color Coding for Home Television Systems (reaffirmation of ANSI/CTA/CEDIA 897 -2010): 12/17/2018

EOS/ESD (ESD Association, Inc.)

Revision

ANSI/ESD STM11.31-2018, ESD Association Standard Test Method for Evaluating the Performance of Electrostatic Discharge Shielding Materials - Bags (revision of ANSI/ESD STM11.31-1994 (R2012)): 12/17/2018

ANSI/ESDA/JEDEC JS-002-2018, ESDA/JEDEC Joint Standard for Electrostatic Discharge Sensitivity Testing - Charged Device Model (CDM) Device Level (revision of ANSI/ESDA/JEDEC JS-002-2015): 12/17/2018

IEEE (ASC C63) (Institute of Electrical and Electronics Engineers)

New Standard

ANSI C63.25.1-2018, Standard Validation Methods for Radiated Emission Test Sites, 1 GHz to 18 GHz (new standard): 12/17/2018

IEEE (ASC N42) (Institute of Electrical and Electronics Engineers)

Revision

ANSI N42.38a-2018, Standard for Performance Criteria for Spectroscopy-Based Portal Monitors Used for Homeland Security (revision of ANSI N42.38-2015): 12/17/2018

ISA (International Society of Automation)

Revision

ANSI/ISA 67.04.01-2018, Setpoints for Nuclear-Safety-Related Instrumentation (revision of ANSI/ISA 67.04.01-2006 (R2011)): 12/11/2018

NACF (North American Crossbow Federation)

New Standard

ANSI/NACF 001-2018, Criteria of Crossbow Designs Under Conditions of Reasonable Foreseeable Use and Abuse by Users (new standard): 12/17/2018

NAPSA (North American Power Sweeping Association)

New Standard

ANSI/NAPSA PSS2018-2018, NAPSA Power Sweeping Standard 2018 (new standard): 12/17/2018

NEMA (ASC C119) (National Electrical Manufacturers Association)

Revision

ANSI/NEMA CC 1-2018, Electric Power Connection for Substations (revision of ANSI/NEMA CC 1-2009): 12/14/2018

NSF (NSF International)

Revision

ANSI/NSF 60-2018 (i79r1), Drinking Water Treatment Chemicals - Health Effects (revision of ANSI/NSF 60-2017): 12/14/2018

ANSI/NSF 61-2018 (i141r1), Drinking Water System Components - Health Effects (revision of ANSI/NSF 61-2017): 12/10/2018

ANSI/NSF 347-2018 (i5r2), Sustainability Assessment for Single Ply Roofing (revision of ANSI/NSF 347-2012a): 12/10/2018

RESNET (Residential Energy Services Network, Inc.)

Revision

ANSI/RESNET/ICC 301-2018, Standard for the Calculation and Labeling of the Energy Performance of Dwelling and Sleeping Units using an Energy Rating Index (revision of ANSI/RESNET/ICC 301 -2014): 12/14/2018

SCTE (Society of Cable Telecommunications Engineers)

Revision

ANSI/SCTE 07-2018, Digital Transmission Standard for Cable Television (revision of ANSI/SCTE 07-2013): 12/17/2018

UL (Underwriters Laboratories, Inc.)

New Standard

ANSI/UL 493-2018, Standard for Safety for Thermoplastic-Insulated Underground Feeder and Branch-Circuit Cables (new standard): 12/10/2018

Reaffirmation

ANSI/UL 498-2018 (R2018), Standard for Safety for Attachment Plugs and Receptacles (reaffirmation of ANSI/UL 498-2018): 12/14/2018

ANSI/UL 542-2005 (R2018), Standard for Safety for Fluorescent Lamp Starters (reaffirmation of ANSI/UL 542-2005 (R2014)): 12/11/2018

Revision

ANSI/UL 219-2018, Standard for Lined Fire Hose for Interior Standpipes (revision of ANSI/UL 219-2013): 12/11/2018

ANSI/UL 405-2018, Standard for Safety for Fire Department Connection Devices (revision of ANSI/UL 405-2014): 12/17/2018

ANSI/UL 498-2018b, Standard for Safety for Attachment Plugs and Receptacles (revision of ANSI/UL 498-2018): 12/14/2018

ANSI/UL 498-2018c, Standard for Safety for Attachment Plugs and Receptacle (revision of ANSI/UL 498-2018): 12/14/2018

ANSI/UL 746B-2018d, Standard for Safety for Polymeric Materials - Long Term Property Evaluations (revision of ANSI/UL 746B-2018): 12/10/2018

ANSI/UL 2017-2018, Standard for Safety for General-Purpose Signaling Devices and Systems (revision of ANSI/UL 2017-2016): 12/14/2018

ANSI/UL 2353-2018c, Standard for Safety for Single- and Multi-Layer Insulated Winding Wire (revision of ANSI/UL 2353-2016): 12/14/2018

ANSI/UL 2572-2018, Standard for Safety for Mass Notification Systems (revision of ANSI/UL 2572-2016a): 12/14/2018

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. Use the following Public Document Library url to access PDF & EXCEL reports of approved & proposed ANS: List of Approved and Proposed ANS

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.

AAFS (American Academy of Forensic Sciences)

Contact: Teresa Ambrosius, (719) 453-1036, tambrosius@aafs.org
410 North 21st Street, Colorado Springs, CO 80904

New Standard

BSR/ASB BPR 107-201x, Best Practice Recommendation for Measuring Trigger Pull of a Firearm and Estimating Its Uncertainty (new standard)

Stakeholders: Firearm and tool mark examiners and technicians, forensic service providers that provide firearm and tool mark examination services, judicial system, law enforcement investigators, and the general public.

Project Need: No standard currently exists for the procedure to measure trigger pull or estimate uncertainty for those measurements. Many forensic accreditation standards require measurement traceability as well as an estimation of measurement uncertainty. This document standardizes procedures for measuring trigger pull. It includes guidelines for measurement traceability and estimating uncertainty of measurement.

This document provides procedures for trigger pull measurements and for estimating uncertainties associated with trigger pull measurements.

AAMI (Association for the Advancement of Medical Instrumentation)

Contact: Will Vargas, (703) 647-2779, wvargas@aami.org
4301 N. Fairfax Drive, Suite 301, Suite 301, Arlington, VA 22203-1633

New Standard

BSR/AAMI 2700-1201x, Medical Devices and Medical Systems Essential safety requirements for equipment comprising the patient-centric integrated clinical environment (ICE) Part 1: General requirements and conceptual model (new standard)

Stakeholders: Medical device manufacturers, health care delivery organizations.

Project Need: This standard establishes requirements for a medical system that is intended to have greater error resistance and improved patient safety, treatment efficacy, and workflow efficiency than can be achieved with independently used medical devices.

This standard specifies general requirements, a model and framework for integrating equipment to create a integrated clinical environment (ICE), as defined in 3.6. This standard specifies the characteristics necessary for the safe integration of medical devices and other equipment, via an electronic interface, from different manufacturers into a single medical system for the care of a single high-acuity patient. This standard establishes requirements for a medical system that is intended to have greater error resistance and improved patient safety, treatment efficacy, and workflow efficiency than can be achieved with independently used medical devices. This series of standards establishes requirements for design, verification, and validation processes of a model-based integration system for an integrated clinical environment. This series of standards is intended to define the requirements essential for safety and thereby facilitate regulatory acceptance.

ADA (American Dental Association)

Contact: Paul Bralower, (312) 587-4129, bralowerp@ada.org
211 East Chicago Avenue, Chicago, IL 60611-2678

New National Adoption

BSR/ADA 180-201x, Test Methods for Dental Rotary Instruments (national adoption with modifications of ISO 8325:2004)

Stakeholders: Dentists, manufacturers, researchers, consumers, regulatory agencies.

Project Need: This adoption would be part of a group of similar adoptions intended to, in combination, cover the scope of the now-obsolete ANSI/ADA Specification No. 23 for Dental Excavating Burs, which is being replaced with harmonized national adoptions of appropriate ISO standards.

This standard specifies methods for measuring the dimensional characteristics, neck strength, and surface roughness of dental rotary instruments, such as burs, cutters, polishers, diamond, and abrasive instruments.

BSR/ADA 181-201x, Dental Rotary Bur Instruments - Part 1: Steel and Carbide Burs (national adoption with modifications of ISO 3823-1:1997)

Stakeholders: Dentists, manufacturers, researchers, consumers, regulatory agencies.

Project Need: This adoption would be part of a group of similar adoptions intended to, in combination, cover the scope of the now-obsolete ANSI/ADA Specification No. 23 for Dental Excavating Burs, which is being replaced with harmonized national adoptions of appropriate ISO standards.

This standard specifies dimensional and other relevant requirements for the 10 most commonly used shapes of steel and carbide burs, including a quality control for these instruments.

BSR/ADA Standard No. 119-201x, Manual Toothbrushes (identical national adoption of ISO 20126/Amendment 1:2018 and revision of ANSI/ADA Standard No. 119-2015)

Stakeholders: Dentists, manufacturers, regulatory agency.

Project Need: The project intent is to revise ANSI/ADA Standard No. 119 by identically incorporating ISO 20126/Amd. 1:2018 to develop a revised standard that will be a modified adoption of ISO 20126. The recent revision provides better clarification on the chemical challenge of samples and editorial errors.

This standard describes requirements and test methods for the physical properties of manual toothbrushes in order to promote the safety of these products for their intended use.

BSR/ADA Standard No. 130-201x, Dentifrices - Requirements, Test Methods and Marking (identical national adoption of ISO 11609:2015 and revision of ANSI/ADA Standard No. 130-2013)

Stakeholders: Dentists, manufacturers, researchers, consumers, regulatory agencies.

Project Need: This standard applies to dentifrices, including toothpastes, destined to be used by the consumers on a daily basis with a toothbrush to promote oral hygiene.

This standard specifies requirements for the physical and chemical properties of dentifrices and provides guidelines for suitable test methods. The standard provides a basis for assuring safety of dentifrices for the public and guidance for manufacturers of dentifrice.

BSR/ADA Standard No. 177-201x, Central Suction Source Equipment (identical national adoption of ISO 10637:2018)

Stakeholders: Dentists, manufacturers, researchers, regulatory agencies.

Project Need: The U.S. currently has no standards for dental vacuum in general and none specifically for central vacuum source equipment. ISO Standard 10637 will assist stakeholders in many ways.

This standard specifies requirements and test methods for stationary, electrically powered central suction source equipment used in dentistry to provide vacuum pressure and flow at the facility pipeline connection point for dentistry. It also specifies requirements for information to be supplied by the manufacturer on the performance, installation, operation, and maintenance of the central suction source equipment as part of the complete dental suction system.

BSR/ADA Standard No. 179-201x, Shanks for Rotary and Oscillating Dental Instruments (identical national adoption of ISO 1797:2017)

Stakeholders: Dentists, manufacturers.

Project Need: Currently, there is only one outdated U.S. national standard covering rotary instruments - ANSI/ADA Standard No. 23, Dental Excavating Burs (1982, reaffirmed 1999). It is rarely and inconsistently used by U.S. manufacturers, who much more commonly follow the ISO requirements for rotary instrument shanks. Upon approval of the adoption of ISO 1797 as ADA Standard No. 179, ANSI/ADA Standard No. 23 will be withdrawn.

This document specifies the requirements for dimensions and material properties of shanks used in dentistry for rotary or oscillating instruments. It describes the measurement methods for the verification of the requirements.

BSR/ADA Standard No. 53-201x, Polymer-Based Crown and Bridge Materials (identical national adoption of ISO 10477:2018 and revision of ANSI/ADA Standard No. 53-2008 (R2013))

Stakeholders: Dentists, manufacturers, dental laboratories, researchers, consumers.

Project Need: This standard is being revised because it needs to be updated to include new applications of these materials.

This standard classifies polymer-based dental crown and bridge materials and specifies their requirements and the test methods to be used to determine compliance with these requirements.

New Standard

BSR/ADA Standard No. 1101-201x, Orthodontic Electronic Dental Record System Standard Functional Requirements (new standard)

Stakeholders: EDR-S vendors, software developers, payers, dentists, orthodontists.

Project Need: This standard is needed to harmonize orthodontic functional EDR-S requirements with the HL7 Functional Model Ver. 2.

This standard will specify the HL7 orthodontic EDR-S functional requirements.

BSR/ADA Standard No. 175-201x, Antimicrobial Oral Rinses (new standard)

Stakeholders: Dentists, manufacturers.

Project Need: Requirements specific to antimicrobial oral rinse active ingredients are not included in the current oral rinse standard, a new standard for these ingredients is needed.

This standard will provide requirements specific to antimicrobial oral rinse active ingredients, including analytical methods to determine the concentration of these active ingredients.

AISI (American Iron and Steel Institute)

Contact: Helen Chen, (202) 452-7100, Hchen@steel.org
25 Massachusetts Avenue, NW, Suite 800, Washington, DC 20001

Revision

BSR/AISI S901-201x, Test Standard for Determining the Rotational-Lateral Stiffness of Beam-to-Panel Assemblies (revision of ANSI/AISI S901-2017)

Stakeholders: Cold-Formed Steel industry.

Project Need: This is a test standard used by manufacturers and researchers in cold-formed steel design and analysis.

This is a test standard to determine the rotational-lateral stiffness of beam-to-panel assemblies. The test method is used primarily in determining the strength of beams connected to panels as part of a structural assembly.

BSR/AISI S902-201x, Test Standard for Determining the Effective Area of Cold-Formed Steel Compression Members (revision of ANSI/AISI S902-2017)

Stakeholders: Cold-Formed Steel industry.

Project Need: This is a test standard used by manufacturers and researchers in cold-formed steel design and analysis.

This test method covers the determination of the effective cross-sectional area of cold-formed steel columns. It primarily considers the effects of local buckling and residual stresses and is applied to solid or perforated columns that have holes (or hole patterns) in the flat and/or curved elements of the cross-section.

BSR/AISI S903-201x, Test Standard for Determining the Uniform and Local Ductility of Carbon and Low-Alloy Steels (revision of ANSI/AISI S903-2017)

Stakeholders: Cold-Formed Steel industry.

Project Need: This is a test standard used by manufacturers and researchers in cold-formed steel design and analysis.

This test method covers the determination of uniform and local ductility from a tension test. It is primarily used as an alternative method of determining if steel has adequate ductility as defined in the North American Cold-Formed Steel Specification. It is based on the method suggested by Dhalla and Winter.

BSR/AISI S904-201x, Test Standard for Determining the Tensile and Shear Strengths of Steel Screws (revision of ANSI/AISI S904 -2017)

Stakeholders: Cold-Formed Steel industry.

Project Need: This is a test standard used by manufacturers and researchers in cold-formed steel design and analysis.

The performance test methods included in this standard establishes procedures for conducting tests to determine the tensile and shear strength of steel screws. The screws may be carbon, stainless. or bi-metal thread-forming or thread-cutting screws, with or without a self-drilling point, and with or without washers. The intended application for these screws is to connect cold-formed sheet steel materials.

BSR/AISI S905-201x, Test Standard for Determining the Strength and Deformation Characteristics of Cold-Formed Steel Connections (revision of ANSI/AISI S905-2017)

Stakeholders: Cold-Formed Steel industry.

Project Need: This is a test standard used by manufacturers and researchers in cold-formed steel design and analysis. Periodic updates are needed.

This standard applies to performance test methods to determine the strength and deformation characteristics of mechanically fastened and welded connections for cold-formed steel building components. Connections that are stressed in shear (loads applied perpendicular to the shank or cross-section of the fastener, or in plane with the connection faying surfaces) and connections that are stressed in tension (loads applied parallel to the shank or cross-section of the fastener, or perpendicular to the connection faying surfaces) and the interaction effects on connections are included.

BSR/AISI S906-201x, Test Standard for Determining the Load-Carrying Strength of Panels and Anchor-to-Panel Attachments for Roof or Siding Systems Tested in Accordance with ASTM E1592 (revision of ANSI/AISI S906-2017)

Stakeholders: Cold-Formed Steel industry.

Project Need: This is a test standard used by manufacturers and researchers in cold-formed steel design and analysis.

This test procedure extends and provides methodology for interpretation of results of tests performed according to ASTM E1592.

BSR/AISI S907-201x, Test Standard for Determining the Strength and Stiffness of Cold-Formed Steel Diaphragms by the Cantilever Test Method (revision of ANSI/AISI S907-2017)

Stakeholders: Cold-Formed Steel industry.

Project Need: This is a test standard used by manufacturers and researchers in cold-formed design and analysis. Periodic updates are needed.

This standard applies to framed cold-formed steel panel floor, roof, and wall diaphragm construction and provides requirements for static and cyclic testing of floor, roof, and wall diaphragm assemblies.

BSR/AISI S908-201x, Test Standard for Determining the Flexural Strength Reduction Factor of Purlins Supporting a Standing Seam Roof System (revision of ANSI/AISI S908-2017)

Stakeholders: Cold-Formed Steel industry.

Project Need: This is a test standard used by manufacturers and researchers in cold-formed steel design and analysis.

This test is to obtain the reduction factor to be used in determining the nominal flexural strength of a purlin supporting a standing seam roof system.

BSR/AISI S909-201x, Test Standard for Determining the Web Crippling Strength of Cold-Formed Steel Flexural Members (revision of ANSI/AISI S909-2017)

Stakeholders: Cold-Formed Steel industry.

Project Need: This is a test standard used by manufacturers and researchers in cold-formed steel design and analysis.

This performance test method establishes procedures for conducting tests to determine the web crippling strength of cold-formed steel flexural members.

BSR/AISI S910-201x, Test Standard for Determining the Distortional Buckling Strength of Cold-Formed Steel Hat-Shaped Compression Members (revision of ANSI/AISI S910-2017)

Stakeholders: Cold-Formed Steel industry.

Project Need: This is a test standard used by manufacturers and researchers in cold-formed steel design and analysis.

This test method establishes procedures for determining the nominal distortional buckling strength of cold-formed steel compression members with a hat-shaped cross-section.

BSR/AISI S911-201x, Test Standard for Determining the Flexural Strength of Cold-Formed Steel Hat-Shaped Members (revision of ANSI/AISI S911-2017)

Stakeholders: Cold-Formed Steel industry.

Project Need: This is a test standard used by manufacturers and researchers in cold-formed steel design and analysis.

This test standard establishes a test method for determining the nominal flexural strength of an open hat-shaped cross-section subject to negative bending moment.

BSR/AISI S912-201x, Test Standard for Determining the Strength of a Roof Panel-to-Purlin-to-Anchorage Device Connection (revision of ANSI/AISI S912-2017)

Stakeholders: Cold-Formed Steel industry.

Project Need: This is a test standard used by manufacturers and researchers in cold-formed steel design and analysis.

The purpose of this test standard is to obtain lower bound strength values for the roof panel-to-purlin-to-anchorage device connections in through-fastened and standing seam, multi-span, multi-purlin line roof systems. The test is not intended to determine the ultimate strength of the connections.

BSR/AISI S913-201x, Test Standard for Determining the Strength and Deformation Behavior of Hold-Downs Attached to Cold-Formed Steel Structural Framing (revision of ANSI/AISI S913-2017)

Stakeholders: Cold-Formed Steel industry.

Project Need: This is a test standard used by manufacturers and researchers in cold-formed steel design and analysis.

This standard provides two methods to determine both the strength and deformation behavior of hold-downs used in cold-formed steel light-frame construction. One of the test methods is to determine the strength and deformation behavior of the hold-down device and the other test method is to determine the strength and deformation behavior of the hold-down assembly.

BSR/AISI S914-201x, Test Standard for Determining the Strength and Deformation Behavior of Joist Connectors Attached to Cold-Formed Steel Structural Framing (revision of ANSI/AISI S914-2017)

Stakeholders: Cold-Formed Steel industry.

Project Need: This is a test standard used by manufacturers and researchers in cold-formed steel design and analysis.

This standard provides a method to determine both the strength and deformation behavior of joist connectors used in cold-formed steel light-frame construction.

BSR/AISI S915-201x, Test Standard for Determining the Strength and Deformation Behavior of Through-the-Web Punchout Cold-Formed Steel Wall Bridging Connectors (revision of ANSI/AISI S915-2015)

Stakeholders: Cold-Formed Steel Framing industry.

Project Need: This is a test standard used by manufacturers and researchers in cold-formed steel design and analysis.

This Standard provides the methodology to determine the strength and deformation behavior of through-the-web punchout bridging connectors for cold-formed steel wall stud bracing for structural and nonstructural wall studs in light-frame construction. This standard applies to bridging connectors attached to a cold-formed steel wall stud and the bridging member by mechanical fastening, welds, or other means to resist torsional moment and axial force. This Standard does not apply to other types of bridging systems or to bridging systems that do not use a connector between the wall stud web and the bridging member.

BSR/AISI S916-201x, Test Standard for Determining the Strength and Stiffness of Cold-Formed Steel-Framed Nonstructural Interior Partition Walls with Gypsum Board (revision of ANSI/AISI S916-2015)

Stakeholders: Cold-Formed Steel industry.

Project Need: This is a test standard used by manufacturers and researchers in cold-formed steel design and analysis.

This standard applies to performance test methods for the determination of the strength and stiffness of nonstructural interior partition wall assemblies subjected to uniform static nominal pressure loads up to 15 pounds per square foot (0.72 kPa), framed with cold-formed steel nonstructural members, and sheathed on one or both sides with gypsum board panel products.

BSR/AISI S917-201x, Test Standard for Determining the Fastener-Sheathing Local Translational Stiffness of Sheathed Cold-Formed Steel Assemblies (revision of ANSI/AISI S917-2017)

Stakeholders: Cold-Formed Steel industry.

Project Need: This is a test standard used by manufacturers and researchers in cold-formed steel design and analysis.

This test standard applies for the determination of the local lateral stiffness supplied by sheathing, fastened to cold-formed steel members.

BSR/AISI S918-201x, Test Standard for Determining the Fastener-Sheathing Rotational Stiffness of Sheathed Cold-Formed Steel Assemblies (revision of ANSI/AISI S918-2017)

Stakeholders: Cold-Formed Steel industry.

Project Need: This is a test standard used by manufacturers and researchers in cold-formed steel design and analysis.

This test standard applies for the determination of the rotational restraint supplied by sheathing, fastened to cold-formed steel members.

BSR/AISI S919-201x, Test Standard for Determining the Flexural Strength and Stiffness of Cold-Formed Steel Nonstructural Members (revision of ANSI/AISI S919-2017)

Stakeholders: Cold-Formed Steel industry.

Project Need: This test standard is used by manufacturers and researchers in cold-formed steel design and analysis.

This test standard provides the test procedure for determining the nominal flexural strength and stiffness of nonstructural cold-formed steel framing members.

AWS (American Welding Society)

Contact: Stephen Borrero, (305) 443-9353, sborrero@aws.org
8669 NW 36th Street, Suite 130, Doral, FL 33166

New Standard

BSR/AWS D10.4M/D10.4-201x, Recommended Practices for Welding Austenitic Chromium-Nickel Stainless Steel Piping and Tubing (new standard)

Stakeholders: Piping professionals and welders of the novice, apprentice, and journeyman levels.

Project Need: There is a need to provide information on new materials and how to weld them that are relevant for modern welding technology. This includes all the newest high-carbon stainless steels.

This document presents a detailed discussion of the metallurgical characteristics and weldability of many grades of austenitic stainless steel used in piping and tubing. The delta ferrite content as expressed by ferrite number (FN) is explained, and its importance in minimizing hot cracking is discussed.

AWWA (American Water Works Association)

Contact: Paul Olson, (303) 347-6178, polson@awwa.org
6666 W. Quincy Ave., Denver, CO 80235

Revision

BSR/AWWA B300-201x, Hypochlorites (revision of ANSI/AWWA B300-2018)

Stakeholders: Drinking Water Treatment and Supply industry, water utilities, consulting engineers, water treatment equipment manufacturers.

Project Need: The purpose of this standard is to provide the minimum requirements for hypochlorites, including physical, chemical, sampling, testing, packaging, and shipping requirements.

This standard describes chlorinated lime, calcium hypochlorite, and sodium hypochlorite for use in water, wastewater, and reclaimed water treatment.

HI (Hydraulic Institute)

Contact: Tori Serazi, (973) 267-9700, tserazi@pumps.org
6 Campus Drive, Parsippany, NJ 07054

Revision

BSR/HI 3.1-3.5-201x, Rotary Pumps for Nomenclature, Definitions, Application, and Operation (revision of ANSI/HI 3.1-3.5-2015)

Stakeholders: Pump manufacturers, specifiers, purchasers, and users.

Project Need: Revise current American National Standard.

This standard applies to industrial/commercial rotary positive displacement pumps. It includes types and nomenclature; definitions; design and application; and installation, operation, and maintenance. It does not include standards on magnetic drives for sealless pumps nor rotary pumps primarily used for fluid power applications.

BSR/HI 12.1-12.6-201x, Rotodynamic Centrifugal Slurry Pumps for Nomenclature, Definitions, Applications, and Operation (revision of ANSI/HI 12.1-12.6-2016)

Stakeholders: Pump manufacturers, specifiers, purchasers, and users.

Project Need: To update the existing ANSI/HI 12.1-12.6 Standard.

This standard covers rotodynamic slurry pumps used for pumping and/or transporting mixtures of solids and liquids or so-called “slurries.” Slurries are often abrasive and, if not considered, may cause high wear and shortened life of pumps. Unlike clear water, slurries alter the performance of the pumps and cause wear to the wet-end parts. Below a certain velocity, some slurries also settle out in the piping, causing blockages.

ISEA (International Safety Equipment Association)

Contact: Cristine Fargo, (703) 525-1695, cfargo@safetyequipment.org
1901 North Moore Street, Suite 808, Arlington, VA 22209

Revision

BSR/ISEA Z308.1-201x, Minimum Requirements for Workplace First Aid Kits and Supplies (revision of ANSI/ISEA Z308.1-2015)

Stakeholders: Product manufacturers, distributors, end-users, safety and health professionals, workplace insurers, regulatory authorities having jurisdiction.

Project Need: Revise document to reflect current industry practices and user needs.

This standard establishes minimum performance requirements for first-aid kits and their supplies that are intended for use in various work environments. Classification of first-aid kits, designating the assortment of items and quantity of each item, is based on the anticipated number of users intended to be served by each first-aid kit, as well as the complexity of the work environment and level of hazards. First-aid kit containers are classified by portability, ability to be mounted, resistance to water and corrosion and impact resistance.

LES (Licensing Executives Society (U.S. and Canada))

Contact: Kelli Baxter, (703) 234-4088, kbaxter@les.org
12100 Sunset Hills Road, Suite 130, Reston, VA 20190

New Standard

BSR/LES TBD-x-201x, FRAND Licensing (new standard)

Stakeholders: Small and large businesses, owners or purchasers of SEPs, users of standardized technologies, individual inventors or innovating businesses, including but not limited to: practicing and non-practicing entities (NPEs), academics interested in SEP issues, consumer and public policy representatives, legal professionals and practitioners, trade and industry associations, patent assertion entities (PAEs), universities, R&D centers and laboratories, patent aggregators, patent pool participants and administrators – internal practitioners or outside, in-house and outside licensing professionals.

Project Need: Create an industry-wide, consensus-based, voluntary business process standard for businesses and professionals who engage as principals or agents in the practice of licensing SEPs on FRAND terms to help guide negotiations.

Develop a business-process standard to assist parties participating in FRAND licensing negotiations and guide discussions.

MHI (Material Handling Industry)

Contact: Patrick Davison, (704) 714-8755, pdavison@mhi.org
8720 Red Oak Boulevard, Suite 201, Charlotte, NC 28217

New Standard

BSR MH31.1-201X, Steel Mesh Containment Panels Used in Pallet Rack and Vertical Storage System Applications: Performance and Testing Requirements (new standard)

Stakeholders: Product manufacturers, pallet rack manufacturers, warehouse and distribution center operators.

Project Need: Provide guidance and a uniform means of testing steel mesh containment panels used in material handling and storage applications.

This standard applies to designers, manufacturers, sellers, installers, owners, users, and governing bodies of steel mesh containment panels used in pallet rack and vertical storage system applications. The standard provides guidelines for the design and testing of steel mesh containment panels used in pallet rack and vertical storage systems; to promote the understanding of the respective responsibilities of manufacturers, sellers, installers, owners, users,and governing bodies associated with steel mesh containment panels used in pallet rack and vertical storage system applications; and to provide a uniform means of testing steel mesh containment panels used in pallet rack and vertical storage system applications.

BSR MH31.2-201X, Industrial Protective Guardrail and Barriers: Performance and Testing Requirements (new standard)

Stakeholders: Product manufacturers, pallet rack manufacturers, warehouse and distribution center operators.

Project Need: Provide guidance and a uniform means of testing industrial guardrails used in material handling and storage applications.

This standard applies to the design and testing of industrial guardrails used in material handling and storage applications. Industrial guardrails are typically found in manufacturing or warehouse settings and are intended to protect personnel and equipment from fork trucks or other moving equipment.

BSR/MHI ECMA 25-201X, AC Inverters for Use on Electric Overhead, Monorail, and Gantry Traveling Cranes (new standard)

Stakeholders: Manufacturers of electric control technology, crane manufacturers, crane installers, and crane users.

Project Need: This standard provides general guidance for the design, installation, and use of AC inverters for overhead cranes.

This standard applies to AC Inverters for use on electric overhead, monorail, and gantry traveling cranes. AC Inverters are also referred to as “variable frequency drives,” “adjustable frequency drives,” or “variable speed drives.”

SCTE (Society of Cable Telecommunications Engineers)

Contact: Kim Cooney, (800) 542-5040, kcooney@scte.org
140 Philips Rd, Exton, PA 19341

Revision

BSR/SCTE 156-201x, Specification for Mainline Plug (Male) to Cable Interface (revision of ANSI/SCTE 156-2016)

Stakeholders: Cable Telecommunications industry.

Project Need: Update current technology.

The primary purpose of this specification is to assure acceptable electrical, mechanical, and environmental performance of the cable and connector interface. The scope of this standard will be directed to acceptable performance of impedance, galvanic action, loop resistance, cable retention, intermodulation distortion, signal response, RF shielding, and watertight seals. This specification in no way should limit or restrict any manufacturers from innovative designs and product improvements.

SIA (Security Industry Association)

Contact: Joseph Gittens, (301) 804-4709, jgittens@securityindustry.org
8405 Colesville Road, Suite 500, Silver Spring, MD 20910

Revision

BSR/SIA CP-01-201x, Security System Standard - Features for False Alarm Reduction (revision of ANSI/SIA CP-01-2014)

Stakeholders: Security integrators, security manufacturers, law enforcement, central stations, monitoring companies, and some end-users (consumers) of security.

Project Need: False Alarms and False Dispatches continue to be a thorn in the side of municipalities and law enforcement.

This standard details recommended design features for security systems, control panels, and their associated devices to reduce the incidence of false alarms. These features are applicable to both residential and commercial properties protected by an electronic security system. This standard is intended for use by manufacturers in the design of security systems and alarm signal receivers. It is also intended for reference by all affected parties, including security system installers, specifiers, and users; central station owners and operators; manufacturers of central station products, such as receivers and automation software; and local authorities.

TAPPI (Technical Association of the Pulp and Paper Industry)

Contact: Priscila Briggs, (770) 209-7249, standards@tappi.org
15 Technology Parkway South, Suite 115, Peachtree Corners, GA 30092

New Standard

BSR/TAPPI T 577 om-201x, Score bend test (new standard)

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

Project Need: To conduct required five-year review of an existing TAPPI Standard.

This procedure is used to determine the score bend resistance of a scored and unscored sample of a paperboard carton. Score bend resistance of a score on a paper carton is an important parameter to determine the force required to close a carton flap during a product filling operation on a packaging machine.

TNI (The NELAC Institute)

Contact: Kenneth Jackson, (518) 899-9697, ken.jackson@nelac-institute.org
PO Box 2439, Weatherford, TX 76086

New Standard

BSR/SSAS-V1M2-201x, General Requirements for an Accreditor of Stationary Source Audit Sample Providers (new standard)

Stakeholders: Stationary source sampling and testing organizations, governmental and non-governmental accreditation bodies, environmental laboratories, data users, regulatory agencies.

Project Need: TNI already has a version of this standard, but it is not designated as an American National Standard. The current version was finalized in 2009 and is in need of review and updating.

The standard details three major areas: (1) Requirements for oversight of the Stationary Audit Sample program by TNI, including audit sample availability, selection of the provider accreditor, and oversight criteria; (2) Requirements for the approval of provider accreditors, including qualifications, responsibilities, development of SOPs and forms, maintaining a record of providers, and accreditor ethics; and (3) Requirements for accreditation of audit sample providers, including review of applications, assessments of providers, evaluating complaints and corrective actions, and suspending or revoking accreditation.

Revision

BSR/TNI EL-V1M6-201x, Management and Technical Requirements for Laboratories Performing Environmental Analysis - Module 6: Quality Systems for Radiochemical Testing (revision and partition of ANSI/TNI EL-V1-2016)

Stakeholders: Environmental laboratories, governmental and non-governmental accreditation bodies.

Project Need: The 2016 revision of this standard is in need of updating, requiring consideration of items presented by stakeholders, and clarification of issues identified by the consensus body.

This standard establishes detailed quality assurance and quality control requirements for environmental radiochemical laboratories. This module, in conjunction with the quality system specified in the general requirements module of Volume 1 of the TNI standard, form the basis for the evaluation of environmental radiochemical laboratories.

UL (Underwriters Laboratories, Inc.)

Contact: Jonette Herman, (919) 549-1479, Jonette.A.Herman@ul.com
12 Laboratory Dr., Research Triangle Park, NC 27709

New Standard

BSR/UL 1004-10-201x, Standard for Safety for Pool Pump Motors (new standard)

Stakeholders: Producers of pool pump motors, pool manufacturers and retailers, consumers, installers, public utilities, trade associations, and government (DOE).

Project Need: To provide an ANSI-approved standard, UL 1004-10, which provides the requirements for new and replacement motors intended for dedicated-purpose pool pump installations which supports the regulation issued by the Department of Energy.

UL 1004-10 applies to both new and replacement motors intended for dedicated-purpose pool pump installations. The Standard covers motors that are intended for use in dedicated-purpose pool pumps as defined by 10 CFR, Part 431.462 and Subpart Y, Pumps, and have a total horsepower up to 5 THP as determined in accordance with 10 C.F.R. § 431.464(b).

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)**
- **AARST (American Association of Radon Scientists and Technologists)**
- **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 (Green Building Initiative)**
- **HL7 (Health Level Seven)**
- **IES (Illuminating Engineering Society)**
- **ITI (InterNational Committee for Information Technology Standards)**
- **MHI (Material Handling Industry)**
- **NAHBRC (NAHB Research Center, Inc.)**
- **NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)**
- **NCPDP (National Council for Prescription Drug Programs)**
- **NEMA (National Electrical Manufacturers Association)**
- **NISO (National Information Standards Organization)**
- **NSF (NSF International)**
- **PRCA (Professional Ropes Course Association)**
- **RESNET (Residential Energy Services Network, Inc.)**
- **SAE (SAE International)**
- **TCNA (Tile Council of North America)**
- **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.

AAFS
American Academy of Forensic Sciences
410 North 21st Street
Colorado Springs, CO 80904
Phone: (719) 453-1036
Web: www.aafs.org

AAMI
Association for the Advancement of Medical Instrumentation
4301 N. Fairfax Drive, Suite 301
Suite 301
Arlington, VA 22203-1633
Phone: (703) 647-2779
Web: www.aami.org

ACI
American Concrete Institute
38800 Country Club Drive
Farmington Hills, MI 48331
Phone: (248) 848-3728
Web: www.concrete.org

ADA (Organization)
American Dental Association
211 East Chicago Avenue
Chicago, IL 60611-2678
Phone: (312) 587-4129
Web: www.ada.org

AGMA
American Gear Manufacturers Association
1001 N Fairfax Street, 5th Floor
Alexandria, VA 22314-1587
Phone: (703) 684-0211
Web: www.agma.org

AHRI
Air-Conditioning, Heating, and Refrigeration Institute
2311 Wilson Blvd
Suite 400
Arlington, VA 22201
Phone: (352) 409-6585
Web: www.ahrinet.org

AISI
American Iron and Steel Institute
25 Massachusetts Avenue, NW
Suite 800
Washington, DC 20001
Phone: (202) 452-7100
Web: www.steel.org

ALI (ASC A14)
American Ladder Institute
330 N. Wabash Avenue, Suite 2000
Chicago, IL 60611-6610
Phone: 3126735752
Web: www.americanladderinstitute.org

API
American Petroleum Institute
1220 L Street NW
Washington, DC 20005
Phone: (202) 682-8344
Web: www.api.org

APTech (ASC CGATS)
Association for Print Technologies
1899 Preston White Drive
Reston, VA 20191
Phone: (703) 264-7200
Web: www.printtechnologies.org

ASA (ASC S3)
Acoustical Society of America
1305 Walt Whitman Road
Suite 300
Melville, NY 11747
Phone: (631) 390-0215
Web: www.acousticalsociety.org

ASABE
American Society of Agricultural and Biological Engineers
2950 Niles Road
Saint Joseph, MI 49085
Phone: (269) 932-7015
Web: www.asabe.org

ASC X9
Accredited Standards Committee X9, Incorporated
275 West Street
Suite 107
Annapolis, MD 21401
Phone: (410) 267-7707
Web: www.x9.org

ASHRAE
American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
1791 Tullie Circle, NE
Atlanta, GA 30329-2305
Phone: (678) 539-1125
Web: www.ashrae.org

ASME
American Society of Mechanical Engineers
Two Park Avenue
New York, NY 10016-5990
Phone: (212) 591-8521
Web: www.asme.org

ASSP (ASC A10)
American Society of Safety Professionals
520 N. Northwest Hwy.
Park Ridge, IL 60068
Phone: (847) 768-3475
Web: www.assp.org

ASSP (Safety)
American Society of Safety Professionals
520 N. Northwest Highway
Park Ridge, IL 60068
Phone: (847) 699-2929
Web: www.assp.org

ASTM
ASTM International
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959
Phone: (610) 832-9744
Web: www.astm.org

ATIS
Alliance for Telecommunications Industry Solutions
1200 G Street NW
Suite 500
Washington, DC 20005
Phone: (202) 662-8654
Web: www.atis.org

AWS
American Welding Society
8669 NW 36th Street
Suite 130
Doral, FL 33166
Phone: (305) 443-9353
Web: www.aws.org

AWWA
American Water Works Association
6666 W. Quincy Ave.
Denver, CO 80235
Phone: (303) 347-6178
Web: www.awwa.org

CTA
Consumer Technology Association
1919 South Eads Street
Arlington, VA 22202
Phone: (703) 907-7697
Web: www.cta.tech

EOS/ESD
ESD Association, Inc.
7900 Turin Rd., Bldg. 3
Rome, NY 13440
Phone: (315) 339-6937
Web: www.esda.org

HI
Hydraulic Institute
6 Campus Drive
Parsippany, NJ 07054
Phone: (973) 267-9700
Web: www.pumps.org

IEEE (ASC C63)
Institute of Electrical and Electronics Engineers
445 Hoes Lane
Piscataway, NJ 08854
Phone: (732) 562-3874
Web: www.ieee.org

ISA (Organization)
International Society of Automation
67 Alexander Drive
Research Triangle Park, NC 27709
Phone: (919) 990-9228
Web: www.isa.org

ISEA
International Safety Equipment Association
1901 North Moore Street
Suite 808
Arlington, VA 22209
Phone: (703) 525-1695
Web: www.safetyequipment.org

LES
Licensing Executives Society (U.S. and Canada)
12100 Sunset Hills Road
Suite 130
Reston, VA 20190
Phone: (703) 234-4088
Web: www.les.org

MHI
Material Handling Industry
8720 Red Oak Boulevard
Suite 201
Charlotte, NC 28217
Phone: (704) 714-8755
Web: www.mhi.org

NACF
North American Crossbow Federation
1325 Waterloo Road
Suffield, OH 44260
Phone: (313) 268-1727
Web: www.northamericancrossbowfederation.com

NAPSA
North American Power Sweeping Association
P.O. Box 1166
Lebanon, OH 45036
Phone: (888) 757-0130
Web: www.PowerSweeping.org

NEMA (ASC C12)
National Electrical Manufacturers Association
1300 North 17th Street
Suite 900
Rosslyn, VA 22209
Phone: (703) 841-3227
Web: www.nema.org

NEMA (ASC C8)
National Electrical Manufacturers Association
1300 North 17th Street
Rosslyn, VA 22209
Phone: (703) 841-3278
Web: www.nema.org

NISO
National Information Standards Organization
3600 Clipper Mill Road
Suite 302
Baltimore, MD 21211
Phone: (301) 654-2512
Web: www.niso.org

NSF
NSF International
789 N. Dixboro Road
Ann Arbor, MI 48105-9723
Phone: (734) 913-5794
Web: www.nsf.org

RESNET
Residential Energy Services Network, Inc.
4867 Patina Court
Oceanside, CA 92057
Phone: (760) 408-5860
Web: www.resnet.us.com

SCTE
Society of Cable Telecommunications Engineers
140 Philips Rd
Exton, PA 19341
Phone: (800) 542-5040
Web: www.scte.org

SIA
Security Industry Association
8405 Colesville Road
Suite 500
Silver Spring, MD 20910
Phone: (301) 804-4709
Web: www.siaonline.org

TAPPI
Technical Association of the Pulp and Paper Industry
15 Technology Parkway South
Suite 115
Peachtree Corners, GA 30092
Phone: (770) 209-7249
Web: www.tappi.org

TNI
The NELAC Institute
PO Box 2439
Weatherford, TX 76086
Phone: (518) 899-9697
Web: www.NELAC-Institute.org

UL
Underwriters Laboratories, Inc.
12 Laboratory Dr.
Research Triangle Park, NC 27709
Phone: (919) 549-1479
Web: www.ul.com

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); comments on ISO documents must be submitted electronically in the approved ISO template and as a Word document as other formats will not be accepted.

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 6887-5, Microbiology of the food chain - Preparation of test samples, initial suspension and decimal dilutions for microbiological examination - Part 5: Specific rules for the preparation of milk and milk products - 1/3/2019, $53.00

AIRCRAFT AND SPACE VEHICLES (TC 20)

ISO/DIS 16698, Space environment (natural and artificial) - Methods for estimation of future geomagnetic activity - 2/28/2019, $88.00

BIOTECHNOLOGY (TC 276)

ISO/DIS 20688-1, Biotechnology - Nucleic acid synthesis - Part 1: General definitions and requirements for the production and quality control of synthesized oligonucleotides - 2/24/2019, $93.00

BUILDING CONSTRUCTION (TC 59)

ISO/DIS 20887, Sustainability in buildings and civil engineering works - Design for disassembly and adaptability - Principles, requirements and guidance - 2/24/2019, $112.00

CLEANING EQUIPMENT FOR AIR AND OTHER GASES (TC 142)

ISO/DIS 15727, UV-C devices - Measurement of output of UVC lamp - 3/4/2019, $77.00

CLINICAL LABORATORY TESTING AND IN VITRO DIAGNOSTIC TEST SYSTEMS (TC 212)

ISO/DIS 22367, Medical laboratories - Application of risk management to medical laboratories - 2/28/2019, $155.00

CORROSION OF METALS AND ALLOYS (TC 156)

ISO/DIS 8044, Corrosion of metals and alloys - Basic terms and definitions - 2/23/2019, $93.00

DENTISTRY (TC 106)

ISO/DIS 9693, Dentistry - Compatibility testing for metal-ceramic and ceramic-ceramic systems - 3/4/2019, $53.00

ISO/DIS 22570, Dentistry - Spoons and bone curettes - 2/24/2019, $40.00

FLOOR COVERINGS (TC 219)

ISO/DIS 24334, Laminate floor coverings - Determination of locking strength for mechanically assembled panels - 2/28/2019, $40.00

FLUID POWER SYSTEMS (TC 131)

ISO 6358-1/DAmd1, Pneumatic fluid power - Determination of flow-rate characteristics of components using compressible fluids - Part 1: General rules and test methods for steady-state flow - Amendment 1: Effective conductance - 3/1/2019, $46.00

ISO/DIS 6358-2, Pneumatic fluid power - Determination of flow-rate characteristics of components using compressible fluids - Part 2: Alternative test methods - 3/1/2019, $112.00

GAS CYLINDERS (TC 58)

ISO 14456/DAmd1, Gas cylinders - Gas properties and associated classification (FTSC) codes - Amendment 1 - 12/31/2018, $29.00

GEARS (TC 60)

ISO/DIS 1328-2, Cylindrical gears - ISO system of flank tolerance classification - Part 2: Definitions and allowable values of double flank radial composite deviations - 2/21/2019, $71.00

ISO/DIS 6336-1, Calculation of load capacity of spur and helical gears - Part 1: Basic principles, introduction and general influence factors - 12/27/2018, $175.00

ISO/DIS 6336-2, Calculation of load capacity of spur and helical gears - Part 2: Calculation of surface durability (pitting) - 12/27/2018, $107.00

ISO/DIS 6336-3, Calculation of load capacity of spur and helical gears - Part 3: Calculation of tooth bending strength - 12/27/2018, $125.00

ISO/DIS 6336-6, Calculation of load capacity of spur and helical gears - Part 6: Calculation of service life under variable load - 12/27/2018, $107.00

GEOGRAPHIC INFORMATION/GEOMATICS (TC 211)

ISO/DIS 19162, Geographic information - Well-known text representation of coordinate reference systems - 12/27/2018, $175.00

ISO/DIS 19160-3, Addressing - Part 3: Address data quality - 12/30/2018, $102.00

INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)

ISO/DIS 21919-1, Physical device control - Interfaces for automated machine tending - Part 1: Overview and fundamental principles - 12/30/2018, $71.00

MACHINE TOOLS (TC 39)

ISO/DIS 19085-14, Woodworking machines - Safety - Part 14: Four-sided moulding machines - 2/25/2019, $112.00

MECHANICAL VIBRATION AND SHOCK (TC 108)

ISO/DIS 13373-5, Condition monitoring and diagnostics of machines - Vibration condition monitoring - Part 5: Diagnostic techniques for fans and blowers - 1/5/2019, $71.00

NON-DESTRUCTIVE TESTING (TC 135)

ISO/DIS 23159, Non-destructive testing - Gamma ray scanning method on process columns - 2/28/2019, $88.00

NUCLEAR ENERGY (TC 85)

ISO/DIS 8690, Measurement of radioactivity - Gamma ray and beta emitting radionuclides - Test method to assess the ease of decontamination of surface materials - 3/1/2019, $98.00

ISO/DIS 9978, Radiation protection - Sealed sources - Leakage test methods - 3/1/2019, $62.00

ISO/DIS 10276, Trunnions for spent fuel element transport packages - 11/6/2004, $82.00

ISO/DIS 22127, Dosimetry with radiophotoluminescent glass dosimeters for dosimetry audit in MV X-ray radiotherapy - 2/21/2019, $82.00

ISO/DIS 22946, Nuclear criticality safety - Solid waste (excluding irradiated and non-irradiated fuel) - 1/4/2019, $58.00

ISO/DIS 20785-1, Dosimetry for exposures to cosmic radiation in civilian aircraft - Part 1: Conceptual basis for measurements - 2/23/2019, $98.00

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

ISO/DIS 9336-3, Optics and photonics - Optical transfer function - Application - Part 3: Telescopes - 2/25/2019, $71.00

ISO/DIS 14490-9, Optics and photonics - Test methods for telescopic systems - Part 9: Test methods for field curvature - 2/28/2019, $40.00

OTHER

ISO/DIS 20136, Leather - Determination of degradability by micro-organisms - 1/6/2019, $88.00

PACKAGING (TC 122)

ISO/DIS 4180, Packaging - Complete, filled transport packages - General rules for the compilation of performance test schedules - 2/28/2019, $82.00

PAINTS AND VARNISHES (TC 35)

ISO/DIS 276, Binders for paints and varnishes - Linseed stand oil - Requirements and methods of test - 3/4/2019, $29.00

ISO/DIS 22969, Paints and varnishes - Determination of solar reflectance - 12/27/2018, $67.00

ISO/DIS 3233-1, Paints and varnishes - Determination of percentage volume of non-volatile matter - Part 1: Method using a coated test panel to determine non-volatile matter and to determine dry film density by the Archimedes principle - 3/4/2019, $62.00

PAPER, BOARD AND PULPS (TC 6)

ISO/DIS 21896, Paper, pulp, and recycling - Decolouration test of dye coloured paper products and paper products printed using dye inks - 2/22/2019, $67.00

PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)

ISO/DIS 16073-4, Wildland firefighting personal protective equipment - Requirements and test methods - Part 4: Gloves - 2/25/2019, $67.00

PETROLEUM PRODUCTS AND LUBRICANTS (TC 28)

ISO/DIS 12922, Lubricants, industrial oils and related products (class L) - Family H (Hydraulic systems) - Specifications for hydraulic fluids in categories HFAE, HFAS, HFB, HFC, HFDR and HFDU - 3/4/2019, $58.00

ISO/DIS 13739, Petroleum products - Procedures for transfer of bunkers to vessels - 1/3/2019, $112.00

ISO/DIS 21493, Petroleum products - Determination of turbidity point and aniline point equivalent - 12/27/2018, $58.00

ISO/DIS 21903, Refrigerated Hydrocarbon Fluids - Dynamic Measurement - Guidance for the calibration, installation and use of flow meters for LNG and other refrigerated hydrocarbon fluids - 12/27/2018, $107.00

ISO/DIS 23581, Petroleum products and related products - Determination of kinematic viscosity - Method by Stabinger type viscosimeter - 2/23/2019, $40.00

ISO/DIS 4259-3, Petroleum and related products - Precision of measurement methods and results - Part 3: Monitoring and verification of published precision data in relation to methods of test - 12/27/2018, $53.00

PLASTICS (TC 61)

ISO/DIS 11357-2, Plastics - Differential scanning calorimetry (DSC) - Part 2: Determination of glass transition temperature and step height - 3/4/2019, $40.00

ISO/DIS 21304-2, Plastics - Ultra-high-molecular-weight polyethylene (PE-UHMW) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties - 2/21/2019, $77.00

QUALITY MANAGEMENT AND QUALITY ASSURANCE (TC 176)

ISO/DIS 10015, Quality management - Guidelines for competence management and people development - 3/4/2019, $40.00

ISO/DIS 10018, Quality management - Customer satisfaction - Guidelines for complaints handling in organizations - 3/4/2019, $53.00

REFRACTORIES (TC 33)

ISO/DIS 13765-7, Refractory mortars - Part 7: Determination of permanent change in dimensions on heating - 3/4/2019, $40.00

ROAD VEHICLES (TC 22)

ISO/DIS 19586, Heavy commercial vehicles and buses - Vehicle dynamics simulation and validation - Lateral dynamic stability of vehicle combinations - 12/30/2018, $58.00

ISO/DIS 11452-4, Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 4: Harness excitation methods - 3/4/2019, $112.00

ISO/DIS 17536-4, Road vehicles - Aerosol separator performance test for internal combustion engines - Part 4: Laboratory fractional efficiency test method - 2/28/2019, $102.00

ISO/DIS 23274-1, Hybrid-electric road vehicles - Exhaust emissions and fuel consumption measurements - Part 1: Non-externally chargeable vehicles - 1/3/2019, $82.00

ROLLING BEARINGS (TC 4)

ISO/DIS 21250-1, Rolling bearings - Noise testing of rolling bearing greases - Part 1: Basic principles, testing assembly, test machine - 3/4/2019, $62.00

ISO/DIS 21250-2, Rolling bearings - Noise testing of rolling bearing greases - Part 2: Test and evaluation method BQ+ - 3/4/2019, $67.00

ISO/DIS 21250-3, Rolling bearings - Noise testing of rolling bearing greases - Part 3: Test and evaluation method MQ - 3/4/2019, $77.00

RUBBER AND RUBBER PRODUCTS (TC 45)

ISO/DIS 125, Natural rubber latex concentrate - Determination of alkalinity - 3/1/2019, $40.00

SMALL CRAFT (TC 188)

ISO/DIS 15083, Small craft - Bilge-pumping systems - 2/24/2019, $46.00

SPORTS AND RECREATIONAL EQUIPMENT (TC 83)

ISO/DIS 5912, Camping tents - Requirements and test methods - 3/4/2019, $93.00

ISO/DIS 6005, Alpine skis - Ski binding screws - Test methods - 12/28/2018, $40.00

ISO/DIS 8061, Alpine ski-bindings - Selection of release torques values - 12/28/2018, $53.00

STEEL (TC 17)

ISO/DIS 439, Steel and cast irons - Determination of silicon content - Gravimetric method - 3/3/2019, $53.00

TERMINOLOGY (PRINCIPLES AND COORDINATION) (TC 37)

ISO/DIS 24617-9, Language resource management - Semantic annotation framework - Part 9: Reference annotation framework (RAF) - 3/1/2019, $93.00

TEXTILES (TC 38)

ISO/DIS 3175-5, Textiles - Professional care, drycleaning and wetcleaning of fabrics and garments - Part 5: Procedure for testing performance when cleaning and finishing using dibutoxymethane - 1/5/2019, $40.00

ISO/DIS 3175-6, Textiles - Professional care, drycleaning and wetcleaning of fabrics and garments - Part 6: Procedure for testing performance when cleaning and finishing using decamethylpentacyclosiloxane - 12/27/2018, $46.00

ISO/DIS 1833-17, Textiles - Quantitative chemical analysis - Part 17: Mixtures of cellulose fibres and certain fibres with chlorofibres and certain other fibres (method using concentrated sulfuric acid) - 2/28/2019, $40.00

ISO/DIS 20706-1, Textiles - Qualitative and quantitative analysis of some bast fibres (flax, hemp, ramie) and their blends - Part 1: Fibre identification using microscopy methods - 1/6/2019, $88.00

TRADITIONAL CHINESE MEDICINE (TC 249)

ISO/DIS 22584, Traditional Chinese medicine - Angelica sinensis root - 12/27/2018, $67.00

TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)

ISO/DIS 21219-3, Intelligent transport systems - Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) - Part 3: UML to binary conversion rules (TPEG2-UBCR) - 1/6/2019, $82.00

ISO/DIS 21219-4, Intelligent transport systems - Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) - Part 4: UML to XML conversion rules - 1/6/2019, $107.00

ISO/DIS 21219-5, Intelligent transport systems - Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) - Part 5: Service framework (TPEG2-SFW) - 1/6/2019, $112.00

ISO/DIS 21219-6, Intelligent transport systems - Traffic and travel information(TTI) via transport protocol experts group, generation 2 (TPEG2) - Part 6: Message management container (TPEG2-MMC) - 1/6/2019, $88.00

ISO/DIS 15638-20, Intelligent transport systems - Framework for cooperative telematics applications for regulated commercial freight vehicles (TARV) - Part 20: Weigh-in-motion monitoring - 3/3/2019, $165.00

ISO/DIS 21219-18, Intelligent transport systems - Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) - Part 18: Traffic flow and prediction application (TPEG2-TFP) - 1/6/2019, $125.00

WATER QUALITY (TC 147)

ISO/DIS 13161, Water quality - Polonium 210 - Test method using alpha spectrometry - 3/2/2019, $71.00

WELDING AND ALLIED PROCESSES (TC 44)

ISO 13918/DAmd1, Welding - Studs and ceramic ferrules for arc stud welding - Amendment 1 - 12/31/2018, $33.00

ISO/DIS 3821, Gas welding equipment - Rubber hoses for welding, cutting and allied processes - 2/24/2019, $71.00

ISO/DIS 9455-3, Soft soldering fluxes - Test methods - Part 3: Determination of acid value, potentiometric and visual titration methods - 3/4/2019, $40.00

ISO/DIS 21904-1, Health and safety in welding and allied processes - Equipment for capture and separation of welding fume - Part 1: General requirements - 2/22/2019, $93.00

ISO/DIS 21904-2, Health and safety in welding and allied processes - Equipment for capture and separation of welding fume - Part 2: Requirements for testing and marking of separation efficiency - 2/22/2019, $67.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 23008-8/DAmd1, Information technology - Multimedia application formats (MPEG-A) - Part 18: Media linking application format - Amendment 1: Conformance testing for Multiview Main and 3D Main Profiles of HEVC - 12/11/2024, $58.00

ISO/IEC DIS 18032, Information technology - Security techniques - Prime number generation - 3/4/2019, $102.00

ISO/IEC DIS 21471, Information technology - Automatic identification and data capture techniques - Extended Rectangular Data Matrix (DMRE) bar code symbology specification - 3/1/2019, $146.00

ISO/IEC DIS 22505, Information technology - Method for the determination of ink cartridge yield for monochrome inkjet printers and multi-function devices that contain inkjet printer components - 3/2/2019, $77.00

ISO/IEC DIS 38506, Information technology - Governance of IT - Application of ISO/IEC 38500 to the governance of IT enabled investments - 2/25/2019, $71.00

ISO/IEC DIS 10373-1, Cards and security devices for personal identification - Test methods - Part 1: General characteristics - 2/28/2019, $125.00

ISO/IEC DIS 11179-7, Information technology - Metadata registries (MDR) - Part 7: Metamodel for data set registration - 1/5/2019, $112.00

ISO/IEC DIS 19823-10, Information technology - Conformance test methods for security service crypto suites - Part 10: Crypto suite AES-128 - 3/1/2019, $125.00

ISO/IEC/IEEE DIS 21840, Systems and software engineering - Guidelines for the utilization of ISO/IEC/IEEE 15288 in the context of System of Systems (SoS) - 2/25/2019, $125.00

IEC Standards

4/371/FDIS, IEC 60193 ED3: Hydraulic turbines, storage pumps and pump-turbines - Model acceptance tests, 2019/1/25

9/2465/NP, PNW 9-2465: Railway applications - Fixed installations - Electronic power converters for substations - - Part 3-1: AC traction applications - Electronic power compensators (proposed IEC 62590 -3-1), 019/3/8/

18/1646/CDV, IEC 60092-306 ED5: Electrical installations in ships - Part 306: Equipment - Luminaries and lighting accessories, 019/3/8/

23/833/CD, IEC TS 63236-1 ED1: Direct current (DC) appliance couplers for information and communication technology (ICT) equipment installed in data centers and telecom central offices - Part 1: 2.6 kW system, 019/3/8/

23/835/NP, PNW TS 23-835: Direct current (DC) appliance couplers for information and communication technology (ICT) equipment installed in data centers and telecom central offices - Part 2: 5,2 kW System, 019/3/8/

23/836/NP, PNW TS 23-836: Direct current (DC) appliance couplers for information and communication technology (ICT) equipment installed in data centers and telecom central offices - Part 3: AC/DC appliance inlet, 019/3/8/

23E/1120/NP, PNW 23E-1120: General safety requirements for residual current operated protective devices - Part 2: Residual current operated protective devices for DC systems, 019/3/8/

31G/291/CD, IEC 60079-11 ED7: Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i", 019/3/8/

37B/179/CDV, IEC 61643-331 ED3: Components for low-voltage surge protective devices - Part 331: Performance requirements and test methods for metal oxide varistors (MOV), 019/3/8/

40/2654/FDIS, IEC 60384-17 ED3: Fixed capacitors for use in electronic equipment - Part 17: Sectional specification: Fixed metallized polypropylene film dielectric AC and pulse capacitors, 2019/1/25

46C/1117/CD, IEC 61156-12: Multicore and Symmetrical pair/quad cables for digital communications - Part 12: Symmetrical single pair cables with transmission characteristics up to 600 MHz - Work area wiring, 019/3/8/

46F/435A/CD, IEC TS 61169-1-51 ED1: Radio frequency connectors - Part 1-51: Uncertainty specification of frequency domain test for return loss, /2018/12/2

47/2530/FDIS, IEC 62830-4 ED1: Semiconductor devices - Semiconductor devices for energy harvesting and generation - Part 4: Test and evaluation methods for flexible piezoelectric energy harvesting devices, 2019/1/25

47/2531/FDIS, IEC 62951-4 ED1: Semiconductor devices - Flexible and stretchable semiconductor devices - Part 4: Fatigue evaluation for flexible conductive thin film on the substrate for flexible semiconductor devices, 2019/1/25

47/2532/NP, PNW 47-2532: Semiconductor devices - Semiconductor devices for wireless power transfer and charging - Part 1: General requirements and specifications, 019/2/8/

47A/1071/CD, IEC 62228-5 ED1: Integrated circuits - EMC evaluation of transceivers - Part 5: Ethernet transceivers, 019/3/8/

48B/2697/CDV, Connectors for electrical and electronic equipment - Product requirements - Part 2-011: Circular connectors - Detail specification for B12 bayonet coupling connectors based on mating interfaces according to IEC 61076-2-101 and IEC 61076-2-109, 019/3/8/

48B/2703/FDIS, IEC 60512-99-002 ED1: Connectors for electrical and electronic equipment - Tests and measurements - Part 99-002: Endurance test schedules - Test 99b, Test schedule for unmating under electrical load, 2019/1/25

48B/2709/CD, IEC 60512-9-5 ED2: Connectors for electrical and electronic equipment - Tests and measurements - Part 9-5: Endurance tests - Test 9e: Current loading, cyclic, 019/2/8/

48D/691/FDIS, IEC 62966-1 ED1: Mechanical structures for electrical and electronic equipment - Aisle containment for IT cabinets - Part 1: Dimensions and mechanical requirements, 2019/1/25

57/2059/FDIS, IEC 61968-4 ED2: Application integration at electric utilities - System interfaces for distribution management - Part 4: Interfaces for records and asset management, 2019/1/25

62B/1116/CDV, IEC 63077 ED1: Good refurbishment practices for medical imaging equipment, 019/3/8/

65/734/NP, PNW 65-734: Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-203: Particular requirements for industrial communication equipment, 019/3/8/

72/1168/FDIS, IEC 60730-2-14/AMD1 ED2: Automatic electrical controls - Part 2-14: Particular requirements for electric actuators, 2019/1/25

77A/1020/CD, IEC TR 61000-4-40 ED1: Electromagnetic compatibility (EMC) - Part 4-40: Testing and measurement techniques - Digital methods for the measurement of power quantities of modulated or distorted signals, 019/2/8/

82/1537/FDIS, IEC 62892 ED1: Extended thermal cycling of PV modules - Test procedure, 2019/1/25

82/1538/NP, PNW TS 82-1538: Measurement of Diode Ideality Factor by Quantitative Analysis of Electroluminescence Images, 019/3/8/

82/1498/CDV, IEC 62852/AMD1 ED1: Amendment 1 - Connectors for DC-application in photovoltaic systems - Safety requirements and tests, 019/3/8/

86A/1915/CD, IEC 60794-3-40 ED2: Optical fibre cables - Part 3-40: Outdoor cables - Family specification for sewer cables and conduits for installation by blowing and/or pulling in non-man accessible storm and sanitary sewers, 019/3/8/

86A/1913/CD, IEC TR 62362 ED2: Selection of optical fibre cable specifications relative to mechanical, ingress, climatic or electromagnetic characteristics - Guidance, 019/3/8/

86A/1916/CD, IEC 60793-2-40 ED5: Optical fibres - Part 2-40: Product specifications - Sectional specification for category A4 multimode fibres, 019/3/8/

88/708/FDIS, IEC 61400-3-1 ED1: Wind energy generation systems - Part 3-1: Design requirements for fixed offshore wind turbines, 2019/1/25

88/709/FDIS, IEC 61400-24 ED2: Wind energy generation systems - Part 24: Lightning protection, 2019/1/25

91/1553/DTR, IEC TR 62878-2-7 ED1: Device embedding assembly technology - Part 2-7: Guidelines - Accelerated stress testing of passive embedded circuit boards, 019/2/8/

100/3175/CDV, IEC 63005-2 ED1: Event video data recorder for road vehicle accidents - Part 2: Test methods for evaluating the performance of basic functions (TA 17), 019/3/8/

105/715/CDV, IEC 62282-8-102 ED1: Fuel cell technologies - Part 8 -102: Energy storage systems using fuel cell modules in reverse mode - Test procedures for proton exchange membrane single cell and stack performance including reversing operation, 019/3/8/

105/716/CDV, IEC 62282-8-201 ED1: Fuel cell technologies - Part 8 -201: Energy storage systems using fuel cell modules in reverse mode - Power-to-power systems - Performance, 019/3/8/

106/478/CD, IEC/IEEE 62704-5 ED1: Determining the power density of the electromagnetic field associated with human exposure to wireless devices operating in close proximity to the head and body using computational techniques, 6 GHz to 300 GHz, 019/3/8/

106/477/DTS, IEC TS 62764-1 ED1: Measurement procedures of magnetic field levels generated by electronic and electrical equipment in the automotive environment with respect to human exposure, 019/3/8/

110/1069/FDIS, IEC 62341-5-2 ED2: Organic light emitting diode (OLED) displays - Part 5-2: Mechanical endurance test methods, 2019/1/25

113/448/CD, IEC TS 62607-8-1: Nanomanufacturing - Key Control Characteristics - Part 8-1: Nano-enabled metal-oxide interfacial devices - Test method for defect states by thermally stimulated current, 019/3/8/

113/449/NP, PNW 113-449: IEC TS 62607-8-2: Nanomanufacturing - Key control Characteristics - Part 8-2: Nano-enabled metal-oxide interfacial devices - Test method for the polarization properties by thermally stimulated depolarization current., 019/3/8/

114/297/DTS, IEC TS 62600-40 ED1: Marine energy - Wave, tidal and other water current converters - Part 40: Acoustic characterization of marine energy converters, 019/3/8/

114/296/CD, IEC TS 62600-3 ED1: Marine energy - Wave, tidal and other water current converters - Part 3: Measurement of mechanical loads, 019/3/8/

119/249/NP, PNW 119-249: Printed electronics - Part 503-3: Quality assessment - Measuring method of contact resistance for the printed thin film transistor by transfer length method, 019/2/8/

124/50/NP, PNW 124-50 ED1: Future 63203-301-1: Wearable electronic devices and technologies - Part 301-1: Test method of electrochromic films for wearable equipments, 019/2/8/

CIS/I/609/CD, CISPR TR 29 ED2: Television broadcast receivers and associated equipment - Immunity characteristics - Methods of objective picture assessment, 019/3/8/

Newly Published ISO Standards

Listed here are new and revised standards recently approved and promulgated by ISO - the International Organization for Standardization. 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).

CLINICAL LABORATORY TESTING AND IN VITRO DIAGNOSTIC TEST SYSTEMS (TC 212)

ISO 20166-3:2018, Molecular in vitro diagnostic examinations - Specifications for pre-examination processes for formalin-fixed and paraffin-embedded (FFPE) tissue - Part 3: Isolated DNA, $103.00

DIMENSIONAL AND GEOMETRICAL PRODUCT SPECIFICATIONS AND VERIFICATION (TC 213)

ISO 14405-2:2018, Geometrical product specifications (GPS) - Dimensional tolerancing - Part 2: Dimensions other than linear or angular sizes, $138.00

FLOOR COVERINGS (TC 219)

ISO 4918/Amd1:2018, Resilient, textile and laminate floor coverings - Castor chair test - Amendment 1: Surface hardness, $19.00

FLUID POWER SYSTEMS (TC 131)

ISO 6301-2:2018, Pneumatic fluid power - Compressed-air lubricators - Part 2: Test methods to determine the main characteristics to be included in suppliers literature, $45.00

PAPER, BOARD AND PULPS (TC 6)

ISO 7263-1:2018, Corrugating medium - Determination of the flat crush resistance after laboratory fluting - Part 1: A-flute, $68.00

ISO 7263-2:2018, Corrugating medium - Determination of the flat crush resistance after laboratory fluting - Part 2: B-flute, $68.00

PLASTICS (TC 61)

ISO 2818:2018, Plastics - Preparation of test specimens by machining, $103.00

ROAD VEHICLES (TC 22)

ISO 16232:2018, Road vehicles - Cleanliness of components and systems, $232.00

ROLLING BEARINGS (TC 4)

ISO 13012-1:2018, Rolling bearings - Accessories for sleeve type linear ball bearings - Part 1: Boundary dimensions, geometrical product specifications (GPS) and tolerances for series 1 and 3, $138.00

ISO 13012-2:2018, Rolling bearings - Accessories for sleeve type linear ball bearings - Part 2: Boundary dimensions, geometrical product specifications (GPS) and tolerances for series 5, $103.00

STEEL (TC 17)

ISO 5948:2018, Railway rolling stock material - Ultrasonic acceptance testing, $103.00

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

ISO 7176-30:2018, Wheelchairs - Part 30: Wheelchairs for changing occupant posture - Test methods and requirements, $138.00

WELDING AND ALLIED PROCESSES (TC 44)

ISO 7289:2018, Gas welding equipment - Quick-action couplings with shut-off valves for welding, cutting and allied processes, $68.00

ISO 24394:2018, Welding for aerospace applications - Qualification test for welders and welding operators - Fusion welding of metallic components, $185.00

ISO Technical Reports

NANOTECHNOLOGIES (TC 229)

ISO/TR 20489:2018, Nanotechnologies - Sample preparation for the characterization of metal and metal-oxide nano-objects in water samples, $68.00

STEEL (TC 17)

ISO/TR 9769:2018, Steel and iron - Review of available methods of analysis, $232.00

ISO Technical Specifications

NANOTECHNOLOGIES (TC 229)

ISO/TS 16195:2018, Nanotechnologies - Specification for developing representative test materials consisting of nano-objects in dry powder form, $68.00

ROAD VEHICLES (TC 22)

ISO/TS 21476:2018, Road vehicles - Displacement calibration method of IR-TRACC devices, $138.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 20924:2018, Information technology - Internet of Things (IoT) - Vocabulary, $68.00

ISO/IEC 23270:2018, Information technology - Programming languages - C#, $232.00

ISO/IEC 19086-2:2018, Cloud computing - Service level agreement (SLA) framework - Part 2: Metric model, $185.00

ISO/IEC 23003-2:2018, Information technology - MPEG audio technologies - Part 2: Spatial Audio Object Coding (SAOC), $232.00

ISO/IEC 23001-12:2018, Information technology - MPEG systems technologies - Part 12: Sample variants, $162.00

ISO/IEC/IEEE 26511:2018, Systems and software engineering - Requirements for managers of information for users of systems, software, and services, $209.00

ISO/IEC/IEEE 26515:2018, Systems and software engineering - Developing information for users in an agile environment, $138.00

ISO/IEC/IEEE 24748-2:2018, Systems and software engineering - Life cycle management - Part 2: Guidelines for the application of ISO/IEC/IEEE 15288 (System life cycle processes), $209.00

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 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 a 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.

ANSI Accredited Standards Developers

Approval of Accreditation

ASC A92 – Aerial Platforms

The reaccreditation of Accredited Standards Committee A92, Aerial Platforms has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on ASC A92-sponsored American National Standards, effective December 19, 2018. For additional information, please contact the Secretariat of ASC A92: Ms. DeAnna Martin, Associate Director/ANSI Liaison, Scaffold & Access Industry Association, 400 Admiral Road, Kansas City, MO 64106; phone: 816.595.4831; e-mail: deanna@saiaonline.org.

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

The reaccreditation of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), an ANSI member and Accredited Standards Developer (ASD), has been approved at the direction of ANSI's Executive Standards Council, under its recently revised Procedures for ASHRAE Standards Actions (PASA) for documenting consensus on ASHRAE-sponsored American National Standards, effective December 19, 2018. For additional information, please contact: Ms. Tanisha Meyers-Lisle, Procedures Administrator, ASHRAE, 1791 Tullie Circle NE, Atlanta, GA 30329; phone: 678.539.1111; e-mail: tmeyers-lisle@ashrae.org.

Reaccreditation

Association for the Advancement of Medical Instrumentation (AAMI)

Comment Deadline: January 22, 2019

The Association for the Advancement of Medical Instrumentation (AAMI), an ANSI member and Accredited Standards Developer, has submitted revisions to its currently accredited operating procedures for documenting consensus on AAMI-sponsored American National Standards, under which it was last reaccredited in July 2018. As the current revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: Ms. Jennifer Moyer, MA, Senior Director, Quality Assurance & Standards, AAMI, 4301 N. Fairfax Drive, Suite 301, Arlington, VA 22203-1633; phone: 703.253.8274; e-mail: JMoyer@aami.org. You may view/download a copy of the revisions during the public review period at the following URL: www.ansi.org/accredPR. Please submit any public comments on the revised procedures to AAMI by January 22, 2019, with a copy to the ExSC Recording Secretary in ANSI's New York Office (jthompso@ANSI.org).

International Code Council (ICC)

Comment Deadline: January 22, 2019

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

To obtain a copy of the revised procedures or to offer comments, please contact: Mr. Karl Aittaniemi, P.E., Director of Standards, International Code Council, Central Regional Office, 4051 Flossmoor Road, Country Club Hills, IL 60478; phone: 888-422-7233, ext. 4205; e-mail: kaittaniemi@iccsafe.org. You may view/download a copy of the revisions during the public review period at the following URL: www.ansi.org/accredPR. Please submit any public comments on the revised procedures to ICC by January 22, 2019, with a copy to the ExSC Recording Secretary in ANSI's New York Office (jthompso@ANSI.org).

International Organization for Standardization (ISO)

Call for U.S. TAG Administrator

ISO/TC 34/SC 18 – Cocoa

ANSI has been informed that American Oil Chemists Society (AOCS), the ANSI-accredited U.S. TAG Administrator for ISO/TC 34/SC 18, wishes to relinquish their role as U.S. TAG Administrator.

ISO/TC 34/SC 18 operates under the following scope:

> Standardization in the field of cocoa, including, but not limited to, terminology, sampling, product specifications, test methods, and requirements and verification criteria for determination of the sustainability and traceability of cocoa respectively.

Organizations interested in serving as the U.S. TAG Administrator or participating on a U.S. TAG should contact ANSI's ISO Team (isot@ansi.org).

U.S. Technical Advisory Groups

Approval of TAG Accreditation

U.S. TAG to ISO TC 158 – Analysis of Gases

ANSI's Executive Standards Council (ExSC) has formally approved the accreditation of the U.S. Technical Advisory Group to ISO TC 158, Analysis of gases under the Model Operating Procedures for U.S. Technical Advisory Groups to ANSI for ISO Activities as contained in Annex A of the ANSI International Procedures and with the Compressed Gas Association serving as TAG Administrator, effective December 14, 2018. For additional information, please contact: Ms. Jill Thompson, ISO Administrator, Compressed Gas Association, 14501 George Carter Way, Suite 103, Chantilly, VA 20151; phone: 703.788.2720; e-mail: jthompson@cganet.com.

Reaccreditation

Association for the Advancement of Medical Instrumentation (AAMI)

Comment Deadline: January 22, 2019

The Association for the Advancement of Medical Instrumentation (AAMI), an ANSI member, has submitted to ANSI revisions to operating procedures for the US Technical Advisory Groups (TAGs) to ISO that it currently sponsors (TC 76; TC 84; TC 121; TC 150/SC 2; TC 150/SC 6; TC 194; TC 194/SC 1; TC 198; TC 210). As the revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures (which are a modified version of the ANSI model TAG procedures contained in Annex A of the ANSI International Procedures) or to offer comments, please contact: Ms. Jennifer Moyer, MA, Senior Director, Quality Assurance & Standards, AAMI, 4301 N. Fairfax Drive, Suite 301, Arlington, VA 22203-1633; phone: 703.253.8274; e-mail: JMoyer@aami.org. You may view/download a copy of the revisions during the public review period at the following URL: www.ansi.org/accredPR. Please submit any public comments on the revised procedures to AAMI by January 22, 2019, with a copy to the ExSC Recording Secretary in ANSI's New York Office (jthompso@ANSI.org).

Withdrawal of TAG Accreditation

ISO/TC 34/SC 15 – Coffee

As the conditions upon which its accreditation have not been maintained, the accreditation of the U.S. Technical Advisory Group to ISO/TC 34/SC 15, Coffee and the appointment of the Specialty Coffee Association of America (SCAA) as its TAG Administrator shall be withdrawn, effective January 21, 2019. Please direct any comments on these actions by January 21, 2019 to: Mr. Edward Terhune, Sr. Program Manager, ISOT, 25 West 43rd Street, 4th Floor, New York, NY 10036; phone: 212.642.8905; e-mail: eterhune@ansi.org (please copy jthompso@ansi.org).

Meeting Notice

U.S. TAG to ISO TC 299 – Robotics

ANSI-Accredited Group: U.S. TAG to ISO TC 299, Robotics

New Meeting: Friday, January 18, 2019, 1 – 3 PM EST

Meeting Format: Remote via WebEx

Purpose: Complete U.S. position development for SG 1 questionnaire about the future structure of ISO TC 299.

For further information: Contact Carole Franklin, cfranklin@robotics.org.

Information Concerning

International Organization for Standardization (ISO)

Call for U.S. TAG Administrators
TC 114 – *Horology*

There is currently no ANSI-accredited U.S. TAG Administrator for TC 114, TC 114/SC 3, TC 114/SC 12, TC 114/SC 13, TC 114/SC 14, and therefore ANSI is not a member of these committees. The Secretariats for these committees are currently held by Switzerland (SNV) for TC 114, TC 114,SC 3, TC 114/SC 13; by Japan (JISC) for TC 114/SC 12; and by China (SAC) for TC 114/SC 14.

TC 114 operates under the following scope:

Standardization in the field of instruments of small and large size intended for measuring time and time keeping :

- *terminology;*
- *technical definitions;*
- *standardization of overall dimensions;*
- *any other questions which may be proposed in the future*

TC 114/SC 3 operates under the following scope:

Water-resistant watches

TC 114/SC 12 operates under the following scope:

Antimagnetism

TC 114/SC 13 operates under the following scope:

Watch-glasses

TC 114/SC 14 operates under the following scope:

Table and wall clocks

Organizations interested in serving as the U.S. TAG Administrator or participating on a U.S. TAG for these committees should contact ANSI's ISO Team (isot@ansi.org).

Public Review Draft

Proposed Addendum a to Standard 189.1-2017

Standard for the Design of High-Performance Green Buildings

Except Low-Rise Residential Buildings

Second Public Review (December 2018)
(Draft Shows Proposed Independent Substantive Changes to Previous Public Review Draft)

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at www.ashrae.org/standards-research--technology/public-review-drafts and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at www.ashrae.org/bookstore or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

The appearance of any technical data or editorial material in this public review document does not constitute endorsement, warranty, or guaranty by ASHRAE of any product, service, process, procedure, or design, and ASHARE expressly disclaims such.

ASHRAE, 1791 Tullie Circle, NE, Atlanta GA 30329-2305

(This foreword is not part of this standard. It is merely informative and does not contain requirements necessary for conformance to the standard. It has not been processed according to the ANSI requirements for a standard and may contain material that has not been subject to public review or a consensus process. Unresolved objectors on informative material are not offered the right to appeal at ASHRAE or ANSI.)

Foreword
The first public review draft added Climate Zones 4A and 4B to those required to meet heat island mitigation criteria in Section 5.3.5.3 for roofs. In response to the first public review, two additional exceptions were added. The new Exception 2 was added for existing roofs in Climate Zones 4A and 4B to address the potential for condensation in some existing reroofing projects. The new Exception 4 is from a similar exception to cool roofs in ASHRAE/IES Standard 90.1 and is based on research performed at ORNL. Here, it is added for Climate Zones 4A and 4B.

Note to Reviewers: This public review draft makes proposed independent substantive changes to the previous public review draft. These changes are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the previous draft are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed substantive changes.

Addendum a to 189.1-2017

Revise Section 5 as follows:

5.3.5 Mitigation of Heat Island Effect

5.3.5.1 Site Hardscape (*no changes proposed***)**

5.3.5.2 Walls (*no changes proposed***)**

5.3.5.3 Roofs. This section applies to the building and covered parking *roof* surfaces for *building projects* in *Climate Zones* 0, 1, 2, 3, 4A, and 4B. A minimum of 75% of the *roof* surface area shall be covered with products that

a. have a minimum three-year-aged *SRI* of 64 in accordance with Section 5.3.5.4 for *roofs* with a slope of less than or equal to 2:12.
b. have a minimum three-year-aged *SRI* of 25 in accordance with Section 5.3.5.4 for *roofs* with a slope of more than 2:12.

The area occupied by one or more of the following shall be excluded from the calculation to determine the *roof* surface area required to comply with this section:

a. *Roof* penetrations and associated equipment.
b. *On-site renewable energy systems*, including photovoltaics, solar thermal energy collectors, and required access around the panels or collectors.
c. Portions of the *roof* used to capture heat for building energy technologies.
d. *Roof* decks and rooftop walkways.
e. Vegetated terrace and roofing systems complying with Section 5.3.5.5.

Exceptions to 5.3.5.3:

1. *Building projects* where an annual energy analysis simulation demonstrates that the total annual building energy cost and total annual CO2e, as calculated in accordance with Section 7.5.2, are both a minimum of 2% less for the proposed *roof* than for a *roof* material complying with the *SRI* requirements of Section 5.3.5.3.
2. Existing buildings in *Climate Zones* 4A and 4B undergoing alteration, repair, relocation, or a change in occupancy.
~~2~~3. *Roofs* used to shade or cover parking and *roofs* over *semiheated spaces*, provided that they have a minimum initial *SRI* of 29. A default *SRI* value of 35 for new concrete without added color pigment is allowed to be used instead of measurements.
4. Ballasted roofs in *Climate Zones* 4A and 4B having a stone ballast of not less than 17 lb/ft^2 (83 kg/m^2) ~~or~~ or a paver ballast of not less than 23 lb/ft^2 (112 kg/m^2).

Public Review Draft

Proposed Addendum m to Standard 189.1-2017

Standard for the Design of High-Performance Green Buildings

Except Low-Rise Residential Buildings

First Public Review (December 2018)
(Draft Shows Proposed Changes to Current Standard)

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FOREWORD

This addendum adds new provisions to enable right-sized tubing for efficient delivery of water through hot water distribution systems. The new requirement balances health, energy and plumbing code intents with energy and water efficiency strategies. The addendum is based in part on research by the California Energy Commission on the energy implications of hot water supply. The volume of water in a pipe is the primary determinant of how long a user must wait for hot water to be delivered at a fixture. This has significant implications for both energy use to heat the water and the volume of water wasted before delivery. Similar provisions are currently included in the IECC and the IgCC.

Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes. Only these changes are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed substantive changes.

Addendum m to 189.1-2017

Modify Chapter 6 to add the following new section:

6.3.X Hot water distribution.
Hot water distribution pipes shall be in accordance with Section 6.3.X.1 and Section 6.3.X.2.

6.3.X.1 Maximum allowable pipe volume. The maximum volume of water in the pipes between the source of hot or tempered water and the fixtures shall be 64 ounces (1.9 L) where the source of hot or tempered water is a water heater; and 24 ounces (0.71 L) where the source of hot or tempered water is from a circulation loop pipe or an electrically heat-traced pipe. For the purpose of section 6.3.X, the source of hot or tempered water shall be the point of connection to a water heater, heat -traced pipe or a circulation loop.

The water volume in the pipe shall be calculated as follows:

The volume shall be the sum of the internal volumes of pipe, fittings, valves, meters and manifolds between the source of hot or tempered water and the termination of the fixture supply pipe. The volume shall be determined using Table 6.3.X.1 1. The volume contained within fixture shutoff valves, flexible water supply connectors to a fixture fitting, or within a fixture fitting shall not be included in the water volume determination. Where the source of hot or tempered water is a circulation loop pipe or an electrically heat-traced pipe, the volume shall include the portion of the fitting on the source pipe that

supplies water to the fixture. Where the type of pipe is unknown or not specifically included in the table, the generic pipe column shall be used to determine the volume.

TABLE 6.3.X.1.1
INTERNAL VOLUME OF PIPE OR TUBE

Ounces of Water per Foot of Pipe				
Nominal Size (Inch)	**Generic Pipe**	**Copper Type L**	**CPVC CTS SDR 11**	**PEX CTS SDR 9**
1/4"	0.33	0.52	0.37	0.33
5/16"	0.5	NA	NA	0.48
3/8"	0.75	0.97	0.75	0.68
1/2"	1.5	1.55	1.25	1.18
5/8"	2	2.23	NA	1.78
3/4"	3	3.22	2.67	2.35
1"	5	5.47	4.43	3.91
1 ¼"	8	8.36	6.61	5.81
1 ½"	11	11.83	9.22	8.09
2"	18	20.58	15.79	13.86

Liters of Water per Meter of Pipe				
Dimension Nominal DN (mm)	**Generic Pipe**	**Copper Type L**	**CPVC CTS SDR 11**	**PEX CTS SDR 9**
8	0.03	0.05	0.04	0.03
9	0.05	NA	NA	0.05
10	0.07	0.09	0.07	0.07
15	0.15	0.15	0.12	0.11
18	0.19	0.22	NA	0.17
20	0.29	0.31	0.26	0.23
25	0.49	0.53	0.43	0.38
32	0.78	0.81	0.64	0.56
40	1.07	1.15	0.89	0.78
50	1.75	2.00	1.53	1.34

NA = No value provided based on lack of availability of pipe in this size.

6.3.X.2 Maximum Length. The maximum pipe length from the source of hot or tempered water to the termination of the fixture supply pipe serving any plumbing fixture or appliance shall not exceed 50 feet (15 m) of developed length.

Public Review Draft

Proposed Addendum n to Standard 189.1-2017

Standard for the Design of High-Performance Green Buildings

Except Low-Rise Residential Buildings

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(Draft Shows Proposed Changes to Current Standard)

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Foreword
This addendum clarifies the indoor environmental quality requirements for composite wood and related materials, by adding the recent USEPA's regulation on composite wood products, requiring that products be certified as meeting the requirements of CARB or USEPA as being manufactured either with ultra-low-emitting formaldehyde resins or no added formaldehyde resins and updating the language on lab certification to make it consistent with the language already in the 189.1-2017 for the other building material categories in Section 8.4.2. In addition, this addendum clarifies the language that relates to a building's weatherproofing system in 8.4.2.1, 8.4.2.2 and 8.5.2.

Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes. Only these changes are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed substantive changes.

Addendum n to 189.1-2017

Add new definitions to Section 3.2 as follows:

agrifiber products: wheatboard or strawboard

composite wood products: hardwood plywood, particleboard, or medium density fiberboard (MDF)

laminated products: products in which a wood or woody grass veneer is affixed to a particleboard core or platform, a medium-density fiberboard core or platform, or a veneer core or platform.

Revise Section 8.4.2.4 as follows:

8.4.2.4 Composite Wood Products, Agrifiber Products, Wood Structural Panels, and ~~Agrifiber~~Laminated Products. ~~Composite wood, wood structural panel, and agrifiber products used on the interior of the building (defined as inside of the *weatherproofing system*) shall contain no added urea-formaldehyde resins. Laminating adhesives used to fabricate on-site and shop-applied composite wood and agrifiber assemblies shall contain no added ureaformaldehyde resins. Composite wood and agrifiber~~

~~products are defined as follows: particleboard, medium density fiberboard (MDF), wheatboard, strawboard, panel substrates, and door cores. Materials considered furniture, fixtures, and equipment (FF&E) are not considered base building elements and are not included in this requirement. Emissions for products covered by this section shall be determined according to, and~~ *Composite wood products, agrifiber products,* wood structural panels, and *laminated products* used inside of the building's *weatherproofing system* shall comply with~~,~~ one of the following:

a. For products other than wood structural panels and *laminated products* t~~T~~hird-party certification shall verify that these products meet the requirements for "Ultra-Low-Emitting Formaldehyde Resins" or "No-Added Formaldehyde-Based Resins" as defined by ~~be submitted indicating compliance with~~ the California Air Resource Board's (CARB) regulation, *Airborne Toxic Control Measure to Reduce Formaldehyde Emissions from Composite Wood Products.* Third-party certifiers shall be approved by CARB.

b. For products other than wood structural panels, third-party certification shall verify that these products meet the requirements for "Ultra-Low Emitting Formaldehyde Resins" or "No-Added Formaldehyde Resins" as defined by the United States Environmental Protection Agency's (USEPA) regulation, *Formaldehyde Emission Standards for Composite Wood Products*. Third-party certifiers shall be recognized by USEPA.

c~~b~~. For all products, emissions shall be determined according to CDPH/EHLB/Standard Method V1.2~~1 (commonly referred to as California Section 01350)~~ and shall comply with the limit requirements for either office or *classroom spaces*, regardless of the *space* type. The emissions testing shall be performed by an ISO/IEC 17025 accredited laboratory that has the CDPH/EHLB/Standard Method V.1.2, USEPA Method TO-17 and ASTM Standard Method D5197 within the scope of its accreditation. Third-party certifiers shall be accredited to ISO/IEC 17065 and have the relevant certification program in the scope of accreditation.

Laminating adhesives applied on-site to fabricate assemblies of *composite wood products* and *agrifiber products* shall contain no-added formaldehyde resins.

Exceptions to 8.4.2.4:

1. Structural panel components such as plywood, ~~particle board,~~ wafer board, and oriented strand board conforming to PS-1 or PS-2 and manufactured with moisture-resistant adhesive for "Exposure 1" or "Exterior" application as indicated on the panel ~~identified as "EXPOSURE 1," "EXTERIOR," or "HUD-APPROVED" are considered acceptable for interior use~~.

2. Office furniture systems and seating.

Revise Section 8.4.2.1 as follows:

8.4.2.1 Adhesives and Sealants. Products in this category include carpet, resilient, and wood flooring adhesives; base cove adhesives; ceramic tile adhesives; drywall and panel adhesives; aerosol adhesives; adhesive primers; acoustical sealants; firestop sealants; HVAC air duct sealants; sealant primers; and caulks. All adhesives and sealants used ~~on the interior of the building (defined as~~ inside of the weatherproofing system and applied on-site~~)~~ shall comply with the requirements of either Section 8.4.2.1.1 or 8.4.2.1.2.

Revise Section 8.4.2.2 as follows:

8.4.2.2 Paints and Coatings. Products in this category include anticorrosive coatings, basement specialty coatings, concrete/masonry sealers, concrete curing compounds, dry fog coatings, faux-finishing coatings, fire-resistive coatings, flat and nonflat topcoats, floor coatings, graphic arts (sign) coatings, high-temperature coatings, industrial maintenance coatings, low-solids coatings, mastic texture coatings, metallic pigmented coatings, multicolor coatings, pretreatment wash primers, primers, reactive penetrating sealers, recycled coatings, shellacs (clear and opaque), specialty primers, stains, stone consolidants, swimming-pool coatings, tub- and tile-refining coatings, undercoaters, waterproofing membranes, wood coatings (clear wood finishes), wood preservatives, and zinc primers. Paints and coatings used ~~on the interior of the building (defined as~~ inside of the weatherproofing system and applied on-site~~)~~ shall comply with either Section 8.4.2.2.1 or 8.4.2.2.2.

Revise Section 8.5.2 as follows:

8.5.2 Materials. The emissions of all the materials listed below and used ~~within the building (defined as~~ inside of the weatherproofing system and applied on-site~~)~~ shall be modeled for individual VOC concentrations. The sum of each individual VOC concentration from the materials listed below shall be shown to be in compliance with the limits as listed in CDPH/EHLB/Standard Method V1.1 (commonly referred to as California Section 01350), Section 4.3, and shall be compared to 100% of its corresponding listed limit. In addition, the modeling for the building shall include, at a minimum, the criteria listed in Normative Appendix D of this standard. Emissions of materials used for modeling VOC concentrations shall be obtained in accordance with the testing procedures of CDPH/EHLB/Standard Method V1.1 unless otherwise noted below.

Modify Chapter 11 Normative References as follows:

California Air Resources Board (CARB)
1001 "I" Street
P.O. Box 2815

Sacramento, CA 95812, United States **1-916-322-2990; www.arb.ca.gov/homepage.htm**		
~~No-Added Formaldehyde-Based Resins~~ California Code of Regulations, Title 17, Sections 93120-93120.12	Airborne Toxic Control Measure to Reduce Formaldehyde Emissions from Composite Wood Products~~. California Code of Regulations, Title 17, Sections 93120-93120.12~~	8.4.2.4
United States Environmental Protection Agency (EPA) **Ariel Rios Building** **1200 Pennsylvania Avenue, NW** **Washington, DC 20460, United States** **1-919-541-0800; www.epa.gov** **ENERGY STAR ® 1-888-782-7937** **WaterSense 1-866-987-7367 and 1-202-564-2660**		
Code of Federal Regulations, Title 40 Part 770 (40 CFR 770), published December 12, 2016	Formaldehyde Emission Standards for Composite Wood Products	8.4.2.4
National Institute of Standards and Technology (NIST) **100 Bureau Drive** **Gaithersburg, MD 20899** **301-975-2000; www.nist.gov/standardsgov/voluntary-product-standards-program**		
PS 1-07	Voluntary Product Standard – Structural Plywood, 2007	8.4.2.4
PS 2-04	Voluntary Product Standard – Performance Standard for Wood-Based Structural-Use Panels, 2004	8.4.2.4

December, 2018 Draft

B31.12-20XX
(proposed revision of ASME B31.12-2014)

Hydrogen Piping and Pipelines

Proposal: This record is for the administrative action to transfer the technical content of Item 13-487, which is already Board Approved, to this Code Revision record.

Explanation:This record was created to correct administrative issues with Record 13-487 so that it may be published in the upcoming edition. The previous record creator improperly opened Record 13-487 as a Code Case record instead of a Revision record. Due to this error, record 13-487 was not able to be processed appropriately. The proposal of 13-487 has already been approved to be included into the next ASME B31.12 edition via board ballot 16-764. Therefore, the technical aspect of the proposal does not need to be reviewed and should not be taken into consideration when placing your vote.

***Shown below is the proposal file for Record 13-487 that is being transferred over to this file.

13-487

2/28/14

REVISED ON 3/24/15 TO CORRECT " CUSTOMARY"

Charpy specimens, or 40% for drop-weight tear testing specimens.

(b) Ductile Fracture Arrest. To ensure that the pipeline has adequate toughness to arrest a ductile fracture, the pipe shall be tested in accordance with the procedures of supplementary requirement SR5 of API 5L. This can be applied providing test specimens meet the minimum sizes given in SR5. Toughness testing for ductile fracture control is not required for pipe sizes under 4.5 in. (114.3 mm). The test temperature shall be the colder of 32°F (0°C) or the lowest expected metal temperature during service. The average of the Charpy energy values from each heat shall meet or exceed the requirements specified by the following equation:

$$CVN = 0.008(RT)^{0.39}\ \sigma_h^2$$

where

CVN = full-size specimen CVN energy, ft-lb
R = radius of pipe, in.
T = nominal pipe wall thickness, in.
σ_h = hoop stress due to design pressure, ksi

(c) Pipe Strength. Maximum ultimate tensile strength of the pipe shall not exceed 100 ksi.

(d) Weld Metal Strength. Maximum ultimate tensile strength of the weld metal shall not exceed 100 ksi.

(e) Yield Strength. Minimum specified yield strength shall not exceed 70 ksi.

(f) Charpy Tests. Weld procedure shall be qualified by Charpy tests. T[illegible] metal and three specimens [illegible]hall be tested at test tempera[illegible] above. Minimum Charpy ene[illegible] area of each specimen shall meet the following criteria:

Insert "A" at the end of thickness as a continuous para.

(1) 20 ft-lb for full-size CVN specimens or 161 ft-lb/in.^{2} for subsize CVN specimens for pipe not exceeding 56 in. outside diameter

(2) 30 ft-lb for full-size CVN specimens or 242 ft-lb/in.^{2} for subsize CVN specimens for pipe outside diameter > 56 in.

(2) Option B (Performance-Based Design Method). The following requirements apply:

(a) The pipe and weld material shall be qualified for adequate resistance to fracture in hydrogen gas at or above the design pressure and at ambient temperature using the applicable rules provided in Article KD-10 of ASME BPV Code Section VIII, Division 3, except as shown below.

(1) The purpose of this test is to qualify the construction material by testing three heats of the material. The threshold stress intensity values, K_{IH}, shall be obtained from the thickest section from each heat of the material and heat treatment. The test specimens shall be in the final heat-treated condition (if applicable) to be used in pipe manufacturing. A set of three specimens shall be tested from each of the following locations: the base metal, the weld metal, and the heat affected zone (HAZ) of welded joints, welded with the same qualified welding procedure specification (WPS) as intended for the piping manufacturing. A change in the welding procedure requires retesting of welded joints (weld metal and HAZ). The test specimens shall be in the TL direction. If TL specimens cannot be obtained from the weld metal and the HAZ, then LT specimens may be used. The values of K_{IH} shall be obtained by use of the test method described in KD-1040. The lowest measured value of K_{IH} shall be used in the pipeline design analysis.

(2) When using Option B, the material performance factor, H_f, used in para. PL-3.7.1(a) shall be 1.0.

(3) The values obtained in (a) above may be used for other pipes manufactured from the same material specification/grade or similar specification/grade having the same nominal chemical composition as defined in Table PL-3.7.1-4 and same heat treatment condition, providing its tensile and yield strengths do not exceed the values of the material used in the qualification tests by more than 5%. The welded joints shall meet the requirements of the welding procedure specification (WPS) used for qualifying the construction material.

(4) Calculate maximum K_{IA} required at design pressure for the following elliptical surface crack. Where K_{IA} is the applied stress intensity factor, the critical crack size is developed by applicable fatigue loading. Fatigue design rules specified in Article KD-10 shall be used, or depth = $t/4$, length = $1.5t$, where t is the pipe wall thickness.

(5) Measure K_{IH} in H_2 gas as specified in KD-1040. K_{IH} is the threshold stress intensity factor.

(6) K_{IH} shall be equal to or higher than the calculated value of K_{IA}. In any case, K_{IH} shall not be less than 50 ksi$\cdot\sqrt{\text{in.}}$

(b) Phosphorus content of pipe material shall not exceed 0.015% by weight. The pipe material shall be manufactured with inclusion shape controlled practices.

(c) Pipe material shall meet all applicable rules of API PSL2.

(d) Brittle fracture control: All rules specified in (2)(a)(1) above shall be met.

(e) Ductile fracture arrest: All rules specified in (2)(a)(2) shall be met.

(f) Maximum ultimate tensile strength of the pipe shall not exceed 110 ksi.

(g) Maximum ultimate tensile strength of the weld metal shall not exceed 110 ksi.

(h) Minimum specified yield strength shall not exceed 80 ksi.

(3) Limitations on Design Pressure, P, in Para. PL-3.7.1(a). The design pressure obtained by the formula in para. PL-3.7.1(a) shall be reduced to conform to the following: P shall not exceed 85% of the mill test pressure for all pipes in the pipeline, provided, however,

INSERT A

2/27/14

Revised 0n 11/6 14.

Item 13-487 FCGR EQUATION IN PARA PL3.7.1(b)(2)(a)(4)

In lieu of measuring fatigue crack growth rate (FCGR) properties as required in Article KD-10,the following properties may be used for fatigue analysis per Article KD-10, Paragraph KD-1010. The following FCGR properties are only applicable for carbon steels in gaseous hydrogen service up to 3000 psi (20 MPa)

(1) The following Equation 1 shall be used for FCGR properties.

$$\frac{da}{dN} = a1\Delta K^{b1} + [(a2\Delta K^{b2})^{-1} + (a3\Delta K^{b3})^{-1}]^{-1} \quad \text{.....1}$$

(2) Equation 1 is applicable for carbon steel materials
(3) Equation 1 is applicable for design pressure not to exceed 3000 psi
(4) Equation 1 is applicable for R Ratio less than 0.5. R ratio is defined in Equation 2 below.

$R = K_{min} / K_{max}$ 2

Nomenclature:
da/dN = crack growth rate, in. /cycle (mm/ cycle)
ΔK = range of stress intensity factor, ksi√ in (MPa-√m)
a1, b1, a2, b2, a3, b3 = constants. Values are given in Table PL-3.7.1-7
K_{min} = Minimum applied stress intensity factor. ksi√ in (MPa-√m)
K_{max} = Maximum applied stress intensity factor. ksi√ in (MPa-√m)

Table PL-3.7.1-7 Material constants for fatigue crack growth rate

CUSTOMARY

CUTOMARY UNITS, ΔK , ksi√ in and da/dN , in. /cycle					
a1	b1	a2	b2	a3	b3
2.1746E-10	3.2106	2.9637E-12	6.4822	2.7018E-09	3.6147

METRIC UNITS, ΔK , MPa-√m and da/dN , mm/cycle					
a1	b1	a2	b2	a3	b3
4.0812E-09	3.2106	4.0862E-11	6.4822	4.8810E-08	3.6147

[Note – the recommended changes to the standard which include the current text of the relevant section(s) indicate deletions by use of ~~strikeout~~ and additions by grey highlighting. Rationale Statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF International Standard/
American National Standard –

Commercial Refrigerators and Freezers

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5 Design and construction

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5.4 Joints and seams

5.4.1 Permanent joints and seams in a food or splash zone shall be sealed and smooth. Seams formed by the attachment of breaker strips shall be exempt from this requirement.

5.4.2 In addition to conforming to 5.4.1, permanent seams located below the liquid overflow level of a food storage compartment shall be filled and made flush with the adjoining surfaces.

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6 Storage refrigerators and freezers and refrigerated food transport cabinets

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6.3 Joints and seams

The following modifies ~~In addition to~~ the applicable requirements specified in 5.4:

6.3.1 Seams within 3.0 in (75 mm) of the interior bottoms of dry, chest-type refrigerators and freezers shall be filled and made flush with the adjoining surfaces.

6.3.2 The joints and seams of a refrigerated food transport cabinet need not be sealed if:

— the unit is intended to be cleaned using high pressure cleaning methods as described in written cleaning instructions provided by the manufacturer; or
— the joints and seams are readily accessible for high-pressure cleaning methods; or
— the unit is capable of being completely drained in an upright position.

***Rationale**: Section 6.3.1 is intended to be applied instead of (and not in addition to) the requirements in Section 5.4.2.*

Tracking #50i146r1 **Revision to NSF/ANSI 50-2017**
 Draft 1, Issue 146 (December 2018)

[Note – the recommended changes to the standard which include the current text of the relevant section(s) indicate deletions by use of ~~strikeout~~ and additions by grey highlighting. Rationale Statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI Standard

Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and other Recreational Water Facilities

Evaluation criteria for materials, components, products, equipment, and systems for use at recreational water facilities

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Annex O
(normative)

Water quality testing devices

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~~O.14 Shelf life testing~~

~~To verify shelf life, open or use product as required for the above testing. Upon completion of use of product close/seal/turn off, and store in accordance with manufacturer's instructions or store at 50% relative humidity at 73 ± 8 °F (23 ± 4 °C) for the duration of the shelf life. Within a range of ± 2 wk of the expiration date/shelf life claim, open/turn on etc. and conduct testing with the product for the appropriate product types or parameters. If product does not comply, the manufacturer shall revise shelf life claims, storage conditions, etc. as appropriate.~~

O.14 For shelf-life claims based on closed package studies

Approximately one month before the shelf life time has elapsed, follow the manufacturer's instructions to conduct testing with the WTD or test kit for the appropriate product types or parameters. If the WTD or test kit includes reagents (e.g. liquid, powders, dry-phase chemistry) use reagents from an unopened package of the same lot used during the initial testing phase. If the product does not meet the shelf life claims, the manufacturer shall revise shelf life claims or other pertinent storage and handling information as appropriate. For shelf life claims based on open package studies use the same package(s) used in the original testing phase.

[Note – the recommended changes to the standard which include the current text of the relevant section(s) indicate deletions by use of ~~strikeout~~ and additions by grey highlighting. Rationale Statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI Standard
For Wastewater Technology –

Onsite residential and commercial water reuse treatment systems

Onsite residential and commercial water reuse treatment systems

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8 Performance testing and evaluation

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8.1.2.2.2.3 Vacation stress

On the day that the non-loading stress is initiated, a sytem~~s~~ treating combined greywater shall be dosed at 40% of its daily hydraulic capacity between 7:00 a.m. and 10:00 a.m. and at 35% between 11:00 a.m. and 2:00 p.m. A system ~~Systems~~ treating bathing water shall be dosed at 50% of its daily hydraulic~~,~~ capacity between 7:00 a.m. and 10:~~:~~00 a.m. and at 25% between 11:00 a.m. and 2:00 p.m. A system ~~Systems~~ treating laundry water shall be dosed at 100% of its daily hydraulic capacity between 7:00 a.m. and 10:00 a.m. Dosing shall be discontinued for 8 consecutive days, beginning the day after initiating the stress (power shall continue to be supplied to the system). Between 6:00 p.m. and 9:00 p.m. of the ninth day, the system shall be dosed with 60% of its daily hydraulic capacity. This shall include 3 wash loads (each wash load equal to 114 L [30 gal]) of the laundry challenge water (described in 8.1.2.1.2) for systems designed to treat more than 100 gpd combined greywater. This shall include 2 wash loads (each wash load equal to 114 L [30 gal]) of the laundry challenge water (described in 8.1.2.1.2) for systems designed to treat more than 50 gpd combined greywater. This shall include 1 wash load (each wash load equal to 114 L [30 gal]) of the laundry challenge water (described in 8.1.2.1.2) for systems designed to treat 50 gpd or less combined greywater.

	7:00 a.m. - 10:00 a.m.	11:00 a.m. - 2:00 pm	Following 8 days	Ninth day
combined >100 gpd	40% of daily capacity	35% of daily capacity	No dosing	60% from 6:00 a.m. to 9:00 p.m., including 3 wash loads
combined >50 gpd	40% of daily capacity	35% of daily capacity	No dosing	60% from 6:00 a.m. to 9:00 p.m., including 2 wash loads

combined ≤50 gpd	40% of daily capacity	35% of daily capacity	No dosing	60% from 6:00 a.m. to 9:00 p.m., including 1 wash load
bathing	50% of daily capacity	25% of daily capacity	No dosing	60% from 6:00 a.m. to 9:00 p.m.
laundry	100% of daily capacity	No dosing	No dosing	60% from 6:00 a.m. to 9:00 p.m.

Rationale: This would mean some systems would receive more than 60% of design flow at the end of vacation stress. For example a 110 gpd system would still receive three washloads or 82% of design flow. This still seems fair and it keeps us from adding partial washloads to hit exactly 60%.

8.1.2.2.2.4 Water efficiency stress

The water efficiency stress test shall consist of 1 week (7 days) of loading with challenge water at 1.4 times the normal strength (see 8.1.2.1.1, 8.1.2.1.2, and 8.1.2.1.3 for normal strength challenge water, as applicable), and a 40% reduction in the rated daily hydraulic capacity of the design loading (see 8.1.2.2.1.1, 8.1.2.2.1.2, and 8.1.2.2.1.3, as applicable.

Individual doses shall be 6 – 15 gal. Individual doses shall be uniformly applied over the dosing periods. For systems with a rated capacity less than 400 gpd, individual doses may be adjusted to less than 6 gallons as needed to meet the dosing schedule requirements.

Rationale: When total flow to the system is reduced by 40%, the individual dose volume may also need to be reduced in order to meet requirements to spread the dosing through the day.

Tracking #350i36r2
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Revision to NSF/ANSI 350-2017a
Draft 2, Issue 36 (December 2018)

[Note – the recommended changes to the standard which include the current text of the relevant section(s) indicate deletions by use of ~~strikeout~~ and additions by grey highlighting. Rationale Statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI Standard
For Wastewater Technology –

Onsite residential and commercial water reuse treatment systems

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8.1.2.2.1.1 Systems treating combined greywater

Time frame	% rated daily hydraulic capacity
7:00 a.m. to 10:00 a.m.	approximately 40
11:00 a.m. to 2:00 p.m.	approximately 35
6:00 p.m. to 9:00 p.m.	approximately 25

~~NOTE — The individual dosage~~ Individual doses shall be 10 - 15 gal ~~per dose, unless the dosage system that is based on a continuous flow,~~ and be uniformly applied over the dosing periods. For systems with a rated capacity less than 400 gpd, individual doses may be adjusted to less than 10 gallons as needed to meet the dosing schedule requirements.

Rationale: When testing sytems with daily hydraulic capacity less than 200 gallons, it is not possible to meet the 40-35-25 percent requirement to distribute the dosing through the day with a dose volume of 10 – 15 gallons. Consider a 100 gpd system as an example. The closest you can come is 40%/40%/20% or 40%/30%/30%. Individual doses of 5 gallons would allow you to meet the requirements to distrubute the dosing 40-35-25.

The term "NOTE" makes this language informative, meaning it is not a requirement. Removing it makes this normative, which appears to be the intent of the JC. The 350 TG believes it is not appropriate to allow continuous dosing because this does not do a good job of simulating real world peak and valley flow. If allowing continuous dosing, there is no justification to require specific dose volume.

Class C systems shall be dosed 7 days a week according to the following schedule for the final 4.5 wk (31 d):

Time frame	% rated daily hydraulic capacity
7:00 a.m. to 5:00 p.m.	approximately 90
9:00 p.m. to 10:00 p.m.	approximately 10

~~NOTE — The individual dosage~~ Individual doses shall be 10 - 15 gal ~~per dose, unless the dosage system that is based on a continuous flow,~~ and be uniformly applied over the dosing periods. For systems with a rated capacity less than 400 gpd, individual doses may be adjusted to less than 10 gallons as needed to meet the dosing schedule requirements.

Systems evaluated in accordance with the design loading for Class C shall have met the design loading for Class R.

8.1.2.2.1.2 Systems treating bathing water

Time frame	% rated daily hydraulic capacity
7:00 a.m. to 10:00 a.m.	approximately 50
11:00 a.m. to 2:00 p.m.	approximately 25
6:00 p.m. to 9:00 p.m.	approximately 25

~~NOTE — The individual dosage~~ Individual doses shall be 10 - 15 gal ~~per dose, unless the dosage system that is based on a continuous flow,~~ and be uniformly applied over the dosing periods. For systems with a rated capacity less than 400 gpd, individual doses may be adjusted to less than 10 gallons as needed to meet the dosing schedule requirements.

8.1.2.2.1.3 Systems treating laundry water

Time frame	% rated daily hydraulic capacity
7:00 a.m. to 10:00 a.m.	approximately 100; Monday, Tuesday
11:00 a.m. to 2:00 p.m.	approximately 100; Friday, Saturday, Sunday
6:00 p.m. to 9:00 p.m.	approximately 100; Wednesday, Thursday

Individual doses shall be 10 - 15 gal and be uniformly applied over the dosing periods. For systems with a rated capacity less than 400 gpd, individual doses may be adjusted to less than 10 gallons as needed to meet the dosing schedule requirements.

Rationale: The individual dose volume requirement does not appear at the end of the laundry water table. This appears to be an oversight in the standard. It is added here for consistency.

BSR/UL 489, *Standard for Safety for Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures, UL 489*

Table 7.1.7.1

Interrupting test operations[a]

Poles	Frame rating	Circuit breaker AC voltage rating	Letters indicate diagram in Figure 7.1.7.1						Total number of operations
			Operations on each pole			Common operations			
			O	CO	O	O	CO	O	
1	All	120, 127, 208, 240, 277, 347, 480, 600, 650, 690, or 700 ~~or~~ to1000 in 50V increments	A	A	A	-	-	-	3
1	All	120/240 (tested in pairs)	-	-	-	B	B	B	3
2	All	240, 480, 600, 1000 or any delta connected ~~(wye connected)~~ system rating between 600V and 1000V.	E	E	-	D	-	-	5
2	All	120/240	-	-	-	C	C	C	3
2	0 - 1200 A	208Y/120, 480Y/277, 600Y/347 or any ~~delta connected~~ ~~(~~wye connected~~)~~ system rating between 600V and 1000V.	L	L	-	C	-	-	5
2	All	1ø - 3ø	E	E	-	H	-	-	5

3	0 - 1200 A	240, 480, 600, 1000 or any delta connected ~~(wye connected)~~ system rating between 600V and 1000V.	G	G	-	F	-	-	7
3	1200 - Up	240, 480, 600, 1000 or any delta connected ~~(wye connected)~~ system rating between 600V and 1000V.	G	G	-	F	-	-	7
3	All	120/240	-	-	-	J	J	J	3
3	All	208Y/120, 480Y/277, 600Y/347 or any ~~delta connected~~ ~~(~~wye connected~~)~~ system rating between 600V and 1000V.	K	K	-	I	-	-	7
4	All	208Y/120, 480Y/277, 600Y/347, or any ~~delta connected~~ ~~(~~wye connected~~)~~ system rating between 600V and 1000V.	K	K	-	M	-	-	7

[a] For the 125/250 V dc rating, the number of operations is the same as for the 120/240 V ac rating. For the 250 V dc rating, the number of operations is the same as for the 240 V ac rating.

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The last three columns display the 30, 45 & 60-DAY PR (Public Review) END dates

ISSUE	SUBMIT START	*SUBMIT END 5 PM	SA PUBLISHED	30-DAY PR END	45-DAY PR END	60-DAY PR END
1	12/18/2018	12/24/2018	Jan-4	2/3/2019	2/18/2019	3/5/2019
2	12/25/2018	12/31/2018	Jan-11	2/10/2019	2/25/2019	3/12/2019
3	1/1/2019	1/7/2019	Jan-18	2/17/2019	3/4/2019	3/19/2019
4	1/8/2019	1/14/2019	Jan-25	2/24/2019	3/11/2019	3/26/2019
5	1/15/2019	1/21/2019	Feb-1	3/3/2019	3/18/2019	4/2/2019
6	1/22/2019	1/28/2019	Feb-8	3/10/2019	3/25/2019	4/9/2019
7	1/29/2019	2/4/2019	Feb-15	3/17/2019	4/1/2019	4/16/2019
8	2/5/2019	2/11/2019	Feb-22	3/24/2019	4/8/2019	4/23/2019
9	2/12/2019	2/18/2019	Mar-1	3/31/2019	4/15/2019	4/30/2019
10	2/19/2019	2/25/2019	Mar-8	4/7/2019	4/22/2019	5/7/2019
11	2/26/2019	3/4/2019	Mar-15	4/14/2019	4/29/2019	5/14/2019
12	3/5/2019	3/11/2019	Mar-22	4/21/2019	5/6/2019	5/21/2019
13	3/12/2019	3/18/2019	Mar-29	4/28/2019	5/13/2019	5/28/2019
14	3/19/2019	3/25/2019	Apr-5	5/5/2019	5/20/2019	6/4/2019
15	3/26/2019	4/1/2019	Apr-12	5/12/2019	5/27/2019	6/11/2019
16	4/2/2019	4/8/2019	Apr-19	5/19/2019	6/3/2019	6/18/2019
17	4/9/2019	4/15/2019	Apr-26	5/26/2019	6/10/2019	6/25/2019
18	4/16/2019	4/22/2019	May-3	6/2/2019	6/17/2019	7/2/2019
19	4/23/2019	4/29/2019	May-10	6/9/2019	6/24/2019	7/9/2019
20	4/30/2019	5/6/2019	May-17	6/16/2019	7/1/2019	7/16/2019
21	5/7/2019	5/13/2019	May-24	6/23/2019	7/8/2019	7/23/2019
22	5/14/2019	5/20/2019	May-31	6/30/2019	7/15/2019	7/30/2019
23	5/21/2019	5/27/2019	Jun-7	7/7/2019	7/22/2019	8/6/2019
24	5/28/2019	6/3/2019	Jun-14	7/14/2019	7/29/2019	8/13/2019
25	6/4/2019	6/10/2019	Jun-21	7/21/2019	8/5/2019	8/20/2019
26	6/11/2019	6/17/2019	Jun-28	7/28/2019	8/12/2019	8/27/2019
27	6/18/2019	6/24/2019	Jul-5	8/4/2019	8/19/2019	9/3/2019
28	6/25/2019	7/1/2019	Jul-12	8/11/2019	8/26/2019	9/10/2019
29	7/2/2019	7/8/2019	Jul-19	8/18/2019	9/2/2019	9/17/2019

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30	7/9/2019	7/15/2019	Jul-26	8/25/2019	9/9/2019	9/24/2019
31	7/16/2019	7/22/2019	Aug-2	9/1/2019	9/16/2019	10/1/2019
32	7/23/2019	7/29/2019	Aug-9	9/8/2019	9/23/2019	10/8/2019
33	7/30/2019	8/5/2019	Aug-16	9/15/2019	9/30/2019	10/15/2019
34	8/6/2019	8/12/2019	Aug-23	9/22/2019	10/7/2019	10/22/2019
35	8/13/2019	8/19/2019	Aug-30	9/29/2019	10/14/2019	10/29/2019
36	8/20/2019	8/26/2019	Sep-6	10/6/2019	10/21/2019	11/5/2019
37	8/27/2019	9/2/2019	Sep-13	10/13/2019	10/28/2019	11/12/2019
38	9/3/2019	9/9/2019	Sep-20	10/20/2019	11/4/2019	11/19/2019
39	9/10/2019	9/16/2019	Sep-27	10/27/2019	11/11/2019	11/26/2019
40	9/17/2019	9/23/2019	Oct-4	11/3/2019	11/18/2019	12/3/2019
41	9/24/2019	9/30/2019	Oct-11	11/10/2019	11/25/2019	12/10/2019
42	10/1/2019	10/7/2019	Oct-18	11/17/2019	12/2/2019	12/17/2019
43	10/8/2019	10/14/2019	Oct-25	11/24/2019	12/9/2019	12/24/2019
44	10/15/2019	10/21/2019	Nov-1	12/1/2019	12/16/2019	12/31/2019
45	10/22/2019	10/28/2019	Nov-8	12/8/2019	12/23/2019	1/7/2020
46	10/29/2019	11/4/2019	Nov-15	12/15/2019	12/30/2019	1/14/2020
47	11/5/2019	11/11/2019	Nov-22	12/22/2019	1/6/2020	1/21/2020
48	11/12/2019	11/18/2019	Nov-29	12/29/2019	1/13/2020	1/28/2020
49	11/19/2019	11/25/2019	Dec-6	1/5/2020	1/20/2020	2/4/2020
50	11/26/2019	12/2/2019	Dec-13	1/12/2020	1/27/2020	2/11/2020
51	12/3/2019	12/9/2019	Dec-20	1/19/2020	2/3/2020	2/18/2020
52	12/10/2019	12/16/2019	Dec-27	1/26/2020	2/10/2020	2/25/2020