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American National Standards

Call for comment on proposals listed

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

Ordering Instructions for "Call-for-Comment" Listings

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

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

* Standard for consumer products

Comment Deadline: March 31, 2019

NSF (NSF International)

Revision

BSR/NSF 50-201x (i152r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF 50-2018)

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: jsnider@nsf.org

BSR/NSF 14159-1-201x (i7r1), Hygiene Requirements for the Design of Meat and Poultry Processing Equipment (revision of ANSI/NSF 3-A 14159-1-2014)

This NSF/ANSI/3-A SSI Standard applies to equipment intended for use in the slaughter, processing, and packaging of meat and poultry products, excluding hand-held tools and mechanical belt conveyors. The requirements are to be applied by designers and manufacturers who in turn are to provide guidance to the users for the intended use of the equipment.

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

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

BSR/NSF 14159-2-201x (i7r1), Hygiene Requirements for the Design of Hand Held Tools Used in Meat and Poultry Processing (revision of ANSI/NSF 3-A 14159-2-014)

This NSF/ANSI/3-A SSI Standard applies to hand-held tools intended for use in the slaughter, processing, and packaging of meat and poultry products.

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

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

BSR/NSF 14159-3-201x (i7r1), Hygiene Requirements for the Design of Mechanical Belt Conveyors Used in Meat and Poultry Processing (revision of ANSI/NSF 3-A 14159-3-2014)

This NSF/ANSI/3-A SSI Standard applies to exposed-product mechanical-belt conveyors, either singularly or as a component of equipment, intended for use in the slaughter, processing, and packaging of meat and poultry products.

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

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

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 98-201x, Standard for Safety for Enclosed and Dead-Front Switches (revision of ANSI/UL 98-2016)

This revision covers revisions for field installed barriers. The initial version of this proposal was published by UL for ballot on September 7, 2018.

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

Send comments (with copy to psa@ansi.org) to: Derrick Martin, (510) 319-4271, Derrick.L.Martin@ul.com

BSR/UL 746B-201x, Standard for Safety for Polymeric Materials - Long Term Property Evaluations (revision of ANSI/UL 746B-2018)

This proposal covers the addition of requirements for handling low correlation times.

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

Send comments (with copy to psa@ansi.org) to: Derrick Martin, (510) 319-4271, Derrick.L.Martin@ul.com

Comment Deadline: April 15, 2019

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

Reaffirmation

BSR/ASHRAE Standard 41.8-2016 (R201x), Standard Methods for Liquid Flow Measurement (reaffirmation of ANSI/ASHRAE Standard 41.8-2016)

This standard applies to laboratory and field liquid flow measurement for testing heating, ventilating, air-conditioning, and refrigerating systems and components.

Single copy price: \$35.00

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

Order from: Send request to standards.section@ashrae.org

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

ASIS (ASIS International)

Revision

BSR/ASIS PSC.2-201X, Conformity Assessment and Auditing Management Systems for Quality of Private Security Company Operations (revision of ANSI ASIS PSC.2-2012)

This Standard provides requirements and guidance for conducting conformity assessment of the ANSI/ASIS PSC.1-2012 (R2017), Management Systems for Quality of Private Security Company Operations - Requirements with Guidance Standard. It provides requirements for bodies providing auditing and third party certification of Private Security Company Operations (PSCs) - private security providers working for any client in conditions where governance and the rule of law have been undermined by conflict or disaster.

Single copy price: \$100.00

Obtain an electronic copy from: standards@asisonline.org

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

ASSP (Safety) (American Society of Safety Professionals)

Revision

BSR/ASSP Z359.3-201x, Safety Requirements for Lanyards and Positioning Lanyards (revision and redesignation of ANSI/ASSE Z359.3-2017)

This standard establishes requirements for the performance, design, marking, qualification, and verification testing and instructions for lanyards and positioning lanyards for users within the capacity range of 130 to 310 pounds (59 to 140 kg).

Single copy price: \$110.00

Obtain an electronic copy from: OMunteanu@ASSP.org

Order from: Ovidiu Munteanu, (847) 699-2929, OMunteanu@ASSP.org

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

CSA (CSA America Standards Inc.)

Revision

BSR/CSA C22.2 No. 339-201x, Hand-held motor operated electric tools - Safety - Particular requirements for chain beam saws (revision of ANSI/CSA C22.2 No. 339-2018)

This Standard applies to chain beam saws for cutting wood or similar material and designed for use by one person. This Standard does not cover chain beam saws that can be installed with more than one guide bar length. This Standard does not cover chain beam saw attachments that convert a circular saw or a chain saw into a chain beam saw. This Standard does not cover (a) chain saws as defined in CAN/CSA-C22.2 No. 60745-2-13/UL 60745-2-13; (b) chain saws for tree service as defined in CSA Z62.1; or (c) pole cutters and pruners as defined in CSA C22.2 No. 147 or UL 82. This standard is being revised to incorporate several proposals from the industry.

Single copy price: Free

Obtain an electronic copy from: david.zimmerman@csagroup.org

Order from: David Zimmerman, (216) 524-4990, david.zimmerman@csagroup.org

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

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

New Standard

BSR/IAPMO Z1115-201x, Automatic Water Leak Detection Devices (new standard)

This Standard covers automatic water leak detection and control devices and automatic water leak detection and shutoff devices in sizes NPS1/4 to NPS10 and specifies requirements for materials, physical characteristics, performance testing, and markings.

Single copy price: \$10.00

Obtain an electronic copy from: standards@iapmostandards.org

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

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

IIAR (International Institute of Ammonia Refrigeration)

New Standard

BSR/IIAR CO2-201x, Safety Standard for Closed-Circuit Carbon Dioxide Refrigeration Systems (new standard)

This standard specifies minimum requirements for the safe design, safe installation, startup, and inspection, testing, and maintenance (ITM) of closed-circuit carbon dioxide refrigeration systems and any modifications or additions to an existing system.

Single copy price: Free until public review period is over

Obtain an electronic copy from: tony_lundell@iiar.org

Order from: Tony Lundell, (703) 312-4200, tony_lundell@iiar.org

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

NECA (National Electrical Contractors Association)

New Standard

BSR/NECA 303-201X, Standard for Installing and Maintaining Closed-Circuit Television (CCTV) (new standard)

This standard describes installation procedures for closed-circuit television system equipment installed for video surveillance and for protection of building interiors, building perimeter, and surrounding property. This publication applies to closed-circuit television (CCTV) systems and accessories as required for a complete and functional closed circuit television system for security and monitoring activities in non-hazardous locations both indoors and outdoors. It also covers periodic routine maintenance procedures for closed-circuit television systems.

Single copy price: \$25.00 (NECA members); \$55.00 (non-members)

Obtain an electronic copy from: neis@necanet.org

Order from: neis@necanet.org

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

NFPA (National Fire Protection Association)

The National Fire Protection Association announces the availability of NFPA First Draft Reports for concurrent review and comment by NFPA and ANSI in the next issue of Standards Action. The First Draft Report for documents in the 2020 Annual Revision Cycle have been posted on the document's specific URL site. The First Draft Reports contain the disposition of public input received for those proposed documents. Anyone wishing to review the First Draft Report for documents in the 2020 Annual Revision Cycle may do so on each document's information page under the next edition tab. The document's specific URL, for example www.nfpa.org/doc#next (www.nfpa.org/101next), can easily access the document's information page.

All comments on the 2020 Annual Revision Cycle First Draft Report must be received by May 8, 2019.

The disposition of all comments received on the First Draft Reports will be published in the Second Draft Report, which will also be located on the document's information page under the next edition tab. For more information on the rules and for up-to-date information on schedules and deadlines for processing NFPA Documents, check the NFPA website (<http://www.nfpa.org>) or contact NFPA's Codes and Standards Administration. Those who sent comments to NFPA (Contact Codes and Standards Administration, NFPA, One Batterymarch Park, Quincy, MA 02269-7471) on the related standards are invited to copy ANSI's Board of Standards Review.

New Standard

BSR/NFPA 770-201x, Standard on Hybrid (Water and Inert Gas) Fire Extinguishing Systems (new standard)

This Standard contains the minimum requirements for the design, installation, acceptance, maintenance, and testing of hybrid fire-extinguishing systems that use a combination of atomized water and inert gas to extinguish fire.

Obtain an electronic copy from: www.nfpa.org/770next

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

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 3-201x, Standard for Commissioning of Fire Protection and Life Safety Systems (revision of ANSI/NFPA 3-2018)

This standard shall provide the required procedures, methods, and documentation for the commissioning of active and passive fire protection and life safety systems and their interconnections with other building systems.

Obtain an electronic copy from: www.nfpa.org/3next

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

BSR/NFPA 4-201x, Standard for Integrated Fire Protection and Life Safety System Testing (revision of ANSI/NFPA 4-2018)

The standard shall provide the minimum requirements for testing of integrated fire protection and life safety systems.

Obtain an electronic copy from: www.nfpa.org/4next

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

BSR/NFPA 30A-201x, Code for Motor Fuel Dispensing Facilities and Repair Garages (revision of ANSI/NFPA 30A-2018)

This code shall apply to motor-fuel dispensing facilities, motor-fuel dispensing at farms and isolated construction sites, and on-demand mobile fueling. This code shall apply to motor vehicle repair garages.

Obtain an electronic copy from: www.nfpa.org/30Anext

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

BSR/NFPA 70E-201x, Standard for Electrical Safety in the Workplace® (revision of ANSI/NFPA 70E-2018)

This article contains only those definitions essential to the proper application of this standard. It is not intended to include commonly defined general terms or commonly defined technical terms from related codes and standards. In general, only those terms that are used in two or more articles are defined in Article 100. Other definitions are included in the article in which they are used but may be referenced in Article 100. The definitions in this article shall apply wherever the terms are used throughout this standard.

Obtain an electronic copy from: www.nfpa.org/70Enext

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

BSR/NFPA 73-201x, Standard for Electrical Inspections for Existing Dwellings (revision of ANSI/NFPA 73-2016)

This standard provides criteria for identification of hazardous conditions of electrical systems in existing one-family, two-family, and multifamily dwellings, including mobile homes and manufactured homes.

Obtain an electronic copy from: www.nfpa.org/73 next

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

BSR/NFPA 90A-201x, Standard for the Installation of Air-Conditioning and Ventilating Systems (revision of ANSI/NFPA 90A-2018)

This standard shall cover construction, installation, operation, and maintenance of systems for air conditioning and ventilating, including filters, ducts, and related equipment, to protect life and property from fire, smoke, and gases resulting from fire or from conditions having manifestations similar to fire.

Obtain an electronic copy from: www.nfpa.org/90Anext

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

BSR/NFPA 90B-201x, Standard for Hypobaric Facilities (revision of ANSI/NFPA 90B-2018)

This standard shall apply to all hypobaric facilities in which humans will be occupants or are intended to be occupants of the hypobaric chamber.

Obtain an electronic copy from: www.nfpa.org/90Anext

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

BSR/NFPA 99-201x, Health Care Facilities Code (revision of ANSI/NFPA 99-2018)

The scope of this code is to establish minimum criteria for levels of health care services or systems based on risk to the patients, staff, or visitors in health care facilities, such as: gas and vacuum systems; portable compressed gas systems; electrical systems; information technology and communications systems; plumbing; HVAC systems; electrical equipment; gas equipment; emergency management; security management; hyperbaric facilities; dental gas and vacuum system; fire protection.

Obtain an electronic copy from: www.nfpa.org/99next

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

BSR/NFPA 99B-201x, Standard for the Installation of Warm Air Heating and Air-Conditioning Systems (revision of ANSI/NFPA 99B-2018)

This standard shall cover construction, installation, operation, and maintenance of systems for warm air heating and air conditioning, including filters, ducts, and related equipment to protect life and property from fire, smoke, and gases resulting from fire or from conditions having manifestations similar to fire.

Obtain an electronic copy from: www.nfpa.org/99Bnext

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

BSR/NFPA 220-201x, Standard on Types of Building Construction (revision of ANSI/NFPA 220-2018)

This standard defines types of building construction based on the combustibility and the fire resistance rating of a building's structural elements. Fire walls; nonbearing exterior walls; nonbearing interior partitions; fire barrier walls; shaft enclosures; and openings in walls, partitions, floors, and roofs are not related to the types of building construction and are regulated by other standards and codes, where appropriate.

Obtain an electronic copy from: www.nfpa.org/220next

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

BSR/NFPA 221-201x, Standard for High Challenge Fire Walls, Fire Walls, and Fire Barrier Walls (revision of ANSI/NFPA 221-2018)

This standard specifies requirements for the design and construction of high-challenge fire walls, fire walls, and fire barrier walls, including protection of openings and penetrations.

Obtain an electronic copy from: www.nfpa.org/221next

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

BSR/NFPA 307-201x, Standard for the Construction and Fire Protection of Marine Terminals, Piers, and Wharves (revision of ANSI/NFPA 307-2016)

This standard shall provide general principles for the construction and fire protection of marine terminals, piers, and wharves. Nothing in this standard shall supersede any of the regulations of governmental or other regulatory authority. The provisions of this standard shall reflect situations and state-of-the-art techniques at the time the standard was issued.

Obtain an electronic copy from: www.nfpa.org/307next

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

BSR/NFPA 312-201x, Standard for Fire Protection of Vessels During Construction, Conversion, Repair, and Lay-Up (revision of ANSI/NFPA 312-2016)

This standard shall apply to vessels during the course of construction, conversion, repairs, or while laid up.

Obtain an electronic copy from: www.nfpa.org/312next

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

BSR/NFPA 703-201x, Standard for Fire-Retardant-Treated Wood and Fire-Retardant Coatings for Building Materials (revision of ANSI/NFPA 703-2018)

This standard provides criteria for defining and identifying fire-retardant-treated wood and fire-retardant-coated building materials.

Obtain an electronic copy from: www.NFPA.org/703next

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

BSR/NFPA 790-201x, Standard for Competency of Third-Party Field Evaluation Bodies (revision of ANSI/NFPA 790-2018)

The provisions of this standard shall address requirements for the qualification and competency of a body performing field evaluations on electrical products and assemblies with electrical components. These requirements are based on ISO/IEC Guide 65 and ISO/IEC 17020 with adaptation for the unique characteristics of field evaluations. Competent FEBs - A field evaluation body (FEB) meeting the requirements of this standard shall be considered competent to perform field evaluations. These requirements shall apply to both the initial and continued competency of FEBs.

Obtain an electronic copy from: www.nfpa.org/770next

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

BSR/NFPA 791-201x, Recommended Practice and Procedures for Unlabeled Electrical Equipment Evaluation (revision of ANSI/NFPA 791-2018)

This document covers recommended procedures for evaluating unlabeled electrical equipment in conjunction with the applicable nationally recognized standard(s) and any requirements of the authority having jurisdiction (AHJ).

Obtain an electronic copy from: www.nfpa.org/791next

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

BSR/NFPA 1006-201x, Standard for Technical Rescue Personnel Professional Qualifications (revision of ANSI/NFPA 1006-2017)

This standard identifies the minimum job performance requirements (JPRs) for technical rescue personnel.

Obtain an electronic copy from: www.nfpa.org/1006next

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

BSR/NFPA 1126-201x, Standard for the Use of Pyrotechnics before a Proximate Audience (revision of ANSI/NFPA 1126-2016)

This standard shall provide requirements for the protection of property, operators, performers, support personnel, and the viewing audiences where pyrotechnic effects are used indoors or outdoors with a proximate audience.

Obtain an electronic copy from: www.nfpa.org/1126next

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

BSR/NFPA 1194-201x, Standard for Recreational Vehicle Parks and Campgrounds (revision of ANSI/NFPA 1194-2017)

This standard shall provide minimum construction requirements for safety and health for occupants using facilities supplied by recreational vehicle parks and campgrounds offering temporary living sites for use by recreational vehicles, park model recreational vehicles, and other camping units.

Obtain an electronic copy from: www.nfpa.org/1194next

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

BSR/NFPA 1801-201x, Standard on Thermal Imagers for the Fire Service (revision of ANSI/NFPA 1801-2018)

This standard shall specify the design, performance, testing, and certification requirements for thermal imagers used by fire service personnel during emergency incident operations. This standard shall specify requirements for new thermal imagers for the fire service. This standard shall also specify the minimum requirements for the design, performance, testing, and certification of thermal imagers certified to an earlier edition of this standard that incorporate parts, components, and/or software to meet this edition of the standard.

Obtain an electronic copy from: www.nfpa.org/1801next

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

BSR/NFPA 1952-201x, Standard on Surface Water Operations Protective Clothing and Equipment (revision of ANSI/NFPA 1952-2015)

This standard shall specify the minimum design, performance, testing, and certification requirements for protective clothing and equipment items, including full body suits, helmets, gloves, footwear, and personal flotation devices designed to provide limited protection from physical, environmental, thermal, and certain common chemical and biological hazards for emergency services personnel during surface water operations. This standard shall specify requirements for protective clothing and protective equipment used during operations in surface water, swift water, tidal water, surf, and ice.

Obtain an electronic copy from: www.nfpa.org/1952next

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

BSR/NFPA 1953-201x, Standard on Protective Ensembles for Contaminated Water Diving (revision of ANSI/NFPA 1953-2016)

This standard shall specify the minimum design, performance, testing, and certification requirements for protective clothing and equipment items, including dry suit, dry suit gloves and dry suit footwear designed to provide limited protection from physical, environmental, and certain chemical and biological hazards that are listed in this standard for emergency services personnel during contaminated water dive operations. This standard shall specify requirements for protective clothing and protective equipment used during operations in contaminated water dive operations.

Obtain an electronic copy from: www.nfpa.org/1953next

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

SCTE (Society of Cable Telecommunications Engineers)

Revision

BSR/SCTE 178-201x, Test Method for Cable Weld Integrity (revision of ANSI/SCTE 178-2011)

This test procedure provides methods for evaluating and determining defects along the welded seam of coaxial cables whose outer conductor shield is constructed of a welded aluminum or copper strip. This procedure may be used to inspect finished coaxial cable's outer conductor; either smooth or corrugated.

Single copy price: \$50.00

Obtain an electronic copy from: Global Engineering Documents

Order from: Rebecca Yaletchko, (484) 252-2330, ryaletchko@scte.org

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

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 8800-201x, Standard for Horticultural Lighting Equipment and Systems (new standard)

This proposal for UL 8800 covers: (1) Proposed adoption of the first edition of the Standard for Horticultural Lighting Equipment and Systems, UL 8800, as a UL Standard for the U.S. and Canada.

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

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 174-201x, Standard for Safety for Household Electric Storage Tank Water Heaters (revision of ANSI/UL 174-2012 (R2016))

The following topics are being proposed: (1) Addition of outdoor-use equipment requirements and (2) Revision to temperature control requirements.

Single copy price: Free

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

Send comments (with copy to psa@ansi.org) to: Marcia Kawate, (510) 319-4259, Marcia.M.Kawate@ul.com

BSR/UL 987-201x, Standard for Safety for Stationary and Fixed Electric Tools (revision of ANSI/UL 987-2013)

This proposal for UL 987 covers: (1) Proposed deletion of requirements specific to miter saws.

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

VITA (VMEbus International Trade Association (VITA))

Revision

BSR/VITA 48.0-201x, Mechanical Specification for Microcomputers using Ruggedized Enhanced Design Implementation (REDI) (revision of ANSI/VITA 48.0-2010)

This standard defines a general mechanical design implementation for plug-in units. Two types of plug-in units are defined in this standard. Both Type-1 and Type-2 plug-in units will take advantage of the increased slot pitch and utilization of the secondary side, as well as enhanced thermal performance and increased structural durability afforded by this standard.

Single copy price: \$25.00

Obtain an electronic copy from: admin@vita.com

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

BSR/VITA 48.1-201x, Mechanical Specification for Microcomputers Using REDI Air Cooling (revision of ANSI/VITA 48.1-2010)

VITA 48.1 defines a detailed mechanical implementation for air-cooling (i.e., cooling air flowing over the components) applications applied to PCBs/plug-in units defined in VITA 46.

Single copy price: \$25.00

Obtain an electronic copy from: admin@vita.com

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

BSR/VITA 48.2-201x, Mechanical Specification for Microcomputers using REDI Conduction Cooling Applied to VITA 46 (revision of ANSI/VITA 48.2-2010)

VITA 48.2 defines a detailed mechanical implementation for conduction cooling applications applied to PCBs/plug-in units defined in VITA 46.

Single copy price: \$25.00

Obtain an electronic copy from: admin@vita.com

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

Comment Deadline: April 30, 2019

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

ASME (American Society of Mechanical Engineers)

New Standard

BSR/ASME NML-1-201x, Rules for Operation and Maintenance of Cranes and Other Lifting Devices at Nuclear Facilities (new standard)

This Standard covers the movement of loads using overhead handling systems at commercial nuclear facilities.

(a) Overhead handling systems are limited to those meeting the definition of an Engineered Temporary Lift Assembly, Special Designed Lifting Systems which meet the requirements of HRT-1, or covered by the standards listed below:

- (1) ASME B30.1 (Strand Jacks Only);
- (2) ASME B30.2;
- (3) ASME B30.5;
- (4) ASME B30.16;
- (5) ASME B30.17;
- (6) ASME B30.21.

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

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: March 31, 2019

APTech (ASC CGATS) (Association for Print Technologies)

Reaffirmation

CGATS TR 012-2003 (R2019), Graphic Technology - Color Reproduction and Process Control for Packaging Printing (reaffirm technical report)

Outlines the steps necessary to understand and objectively define the color and tone reproduction capabilities (and limitations) of a printing process. These steps include optimization, fingerprinting, process control, and characterization, which provide the information required in the package development workflow defined in ANSI CGATS TR 011. This report also suggests steps that may be taken to control the printing processes to achieve consistent and predictable color.

Single copy price: \$20.00

Order from: jlinder@aptech.org

Send comments (with copy to psa@ansi.org) to: Jeff Linder, (703) 264-7200, jlinder@aptech.org

Projects Withdrawn from Consideration

In accordance with clause 4.2.1.3.3 Discontinuance of a standards project of the ANSI Essential Requirements, an accredited standards developer may abandon the processing of a proposed new or revised American National Standard or portion thereof if it has followed its accredited procedures. The following projects have been withdrawn accordingly:

ASTM (ASTM International)

BSR/ASTM WK60844-201x, New Guide for Determining the Maximum, Consumer Acceptable, Push & Pull Forces to Operate a Vacuum Cleaner on Carpeted Surfaces. (new standard)

Inquiries may be directed to Laura Klineburger, (610) 832-9696, accreditation@astm.org

Call for Members (ANS Consensus Bodies)

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

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 NML-1-201x, Rules for Operation and Maintenance of Cranes and Other Lifting Devices at Nuclear Facilities (new standard)

BSR/ASME RAM-2-201x, Reliability, Availability, and Maintainability Program Development Process for Existing Power Plants (revision of ANSI/ASME RAM-2-2016)

The PINS notice for this proposal appeared in the February 8, 2019 issue of Standards Action.

ASNT (American Society for Nondestructive Testing)

Office: 1711 Arlingate Lane
P.O. Box 28518
Columbus, OH 43228-0518
Contact: Charles Longo
Phone: (800) 222-2768 241
E-mail: clongo@asnt.org

BSR/ASNT CP-105-201x, Standard Topical Outlines for Qualifications of Nondestructive Testing Personnel (revision of ANSI/ASNT CP-105-2015)

BSR/ASNT CP-189-201x, For Qualification and Certification of Nondestructive Testing Personnel. (revision of ANSI/ASNT CP-189-2016, Addenda 2018)

BSR/ASNT ILI-PQ-201x, In-Line Inspection Personnel Qualification and Certification Standard (revision of ANSI/ASNT ILI-PQ-2017)

EOS/ESD (ESD Association, Inc.)

Office: 7900 Turin Rd., Bldg. 3
Rome, NY 13440
Contact: Christina Earl
Phone: (315) 339-6937
E-mail: cearl@esda.org

BSR/ESD STM12.1-201x, ESD Association Standard Test Method for the Protection of Electrostatic Discharge Susceptible Items - Seating - Resistance Measurement (revision of ANSI/ESD STM12.1-2014)

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

Office: 5001 East Philadelphia Street
Ontario, CA 91761
Contact: Kyle Thompson
Phone: (909) 230-5534
E-mail: standards@iapmostandards.org

BSR/IAPMO Z1115-201x, Automatic Water Leak Detection Devices (new standard)

ICC (International Code Council)

Office: 4051 Flossmoor Road
Country Club Hills, IL 60478
Contact: Karl Aittaniemi
Phone: (888) 422-7233 Ext.-4205
E-mail: kaittaniemi@iccsafe.org

BSR/ICC 1200-201x, Standard for Off-Site Construction: Planning, Design, Fabrication and Assembly (new standard)

BSR/ICC 1205-201x, Standard for Off-Site Construction: Inspection and Regulatory Compliance (new standard)

IES (Illuminating Engineering Society)

Office: 120 Wall Street, Floor 17
New York, NY 10005
Contact: Patricia McGillicuddy
Phone: (917) 913-0027
E-mail: pmcgillicuddy@ies.org

BSR/IES LS-2-20-201x, Lighting Science: Concepts and Language of Lighting (new standard)

IIAR (International Institute of Ammonia Refrigeration)

Office: 1001 North Fairfax Street
Alexandria, VA 22314
Contact: Tony Lundell
Phone: (703) 312-4200
E-mail: tony_lundell@iiar.org

BSR/IIAR CO2-201x, Safety Standard for Closed-Circuit Carbon Dioxide Refrigeration Systems (new standard)

BSR/IIAR HC-201x, Design, Installation, Startup, Inspection, Testing, and Maintenance of Closed-Circuit Natural Hydrocarbon Refrigeration Systems (new standard)

NECA (National Electrical Contractors Association)

Office: 3 Bethesda Metro Center
Suite 1100
Bethesda, MD 20814
Contact: Aga Golriz
Phone: (301) 215-4549
E-mail: Aga.golriz@necanet.org

BSR/NECA 303-201X, Standard for Installing and Maintaining Closed-Circuit Television (CCTV) (new standard)

NEMA (ASC C137) (National Electrical Manufacturers Association)

Office: 1300 N 17th St Suite 900
Rosslyn, VA 22209
Contact: Michael Erbesfeld
Phone: (703) 841-3262
E-mail: Michael.Erbesfeld@nema.org

BSR/C137.5-201X, Energy Reporting Requirements for Lighting Devices (new standard)

NSF (NSF International)

Office: 789 N. Dixboro Road
Ann Arbor, MI 48105-9723
Contact: Jason Snider
Phone: (734) 418-6660
E-mail: jsnider@nsf.org

BSR/NSF 50-201x (i152r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF 50-2018)

BSR/NSF 14159-1-201x (i7r1), NSF 14159-1: Hygiene Requirements for the Design of Meat and Poultry Processing Equipment (revision of ANSI/NSF 3-A 14159-1-2014)

BSR/NSF 14159-2-201x (i7r1), NSF 14159-2: Hygiene Requirements for the Design of Hand Held Tools Used in Meat and Poultry Processing (revision of ANSI/NSF 3-A 14159-2-014)

BSR/NSF 14159-3-201x (i7r1), NSF 14159-3: Hygiene Requirements for the Design of Mechanical Belt Conveyors Used in Meat and Poultry Processing (revision of ANSI/NSF 3-A 14159-3-2014)

VITA (VMEbus International Trade Association (VITA))

Office: 929 W. Portobello Avenue
Mesa, AZ 85210
Contact: Jing Kwok
Phone: (602) 281-4497
E-mail: jing.kwok@vita.com

BSR/VITA 48.0-201x, Mechanical Specification for Microcomputers using Ruggedized Enhanced Design Implementation (REDI) (revision of ANSI/VITA 48.0-2010)

BSR/VITA 48.1-201x, Mechanical Specification for Microcomputers Using REDI Air Cooling (revision of ANSI/VITA 48.1-2010)

BSR/VITA 48.2-201x, Mechanical Specification for Microcomputers using REDI Conduction Cooling Applied to VITA 46 (revision of ANSI/VITA 48.2-2010)

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.

ANS (American Nuclear Society)

Revision

ANSI/ANS 16.1-2019, Measurement of the Leachability of Solidified Low-Level Radioactive Wastes by a Short-Term Test Procedure (revision of ANSI/ANS 16.1-2003 (R2017)): 2/22/2019

Withdrawal

ANSI/ANS 58.3-1992 (R2018), Physical Protection for Nuclear Safety-Related Systems and Components (withdrawal of ANSI/ANS 58.3-1992 (R2018)): 2/21/2019

ASA (ASC S3) (Acoustical Society of America)

Reaffirmation

ANSI/ASA S3.55-2014/Part 1/IEC 60318-1:2009 (R2019), Electroacoustics - Simulators of Human Head and Ear - Part 1: Ear Simulator for the Measurement of Supra-aural and Circumaural Earphones (a nationally adopted international standard) (reaffirmation of ANSI/ASA S3.55-2014/Part 1/IEC 60318-1:2009): 2/22/2019

ASPE (American Society of Plumbing Engineers)

Revision

ANSI/ASPE 45-2018, Siphonic Roof Drainage (revision of ANSI/ASPE 45-2013): 2/22/2019

AWWA (American Water Works Association)

Revision

ANSI/AWWA C500-2019, Metal-Seated Gate Valves for Water Supply Service (revision of ANSI/AWWA C500-2009): 2/22/2019

ANSI/AWWA F101-2019, Contact-Molded, Fiberglass-Reinforced Plastic Wash-Water Troughs and Launderers (revision of ANSI/AWWA F101-2013): 2/22/2019

CSA (CSA America Standards Inc.)

Reaffirmation

ANSI/CSA HGV 2-2014 (R2019), Compressed hydrogen gas vehicle fuel containers (reaffirmation of ANSI/CSA HGV 2-2014): 2/21/2019

EOS/ESD (ESD Association, Inc.)

New Standard

ANSI/ESD SP5.0-2018, ESD Association Standard Practice for Electrostatic Discharge Sensitivity Testing - Reporting ESD Withstand Levels on Datasheets (new standard): 2/22/2019

ANSI/ESD SP5.3.3-2018, ESD Association Standard Practice for Electrostatic Discharge Sensitivity Testing - Charged Device Model (CDM) Testing - Component Level - Low-Impedance Contact CDM as an Alternative CDM Characterization Method (new standard): 2/22/2019

HL7 (Health Level Seven)

New Standard

ANSI/HL7 IG UDI, R1-2019, HL7 Cross Paradigm Implementation Guide: UDI Pattern, Release 1 (new standard): 2/22/2019

ANSI/HL7 VSD, R1-2019, HL7 Specification: Characteristics of a Value Set Definition, Release 1 (new standard): 2/22/2019

NSF (NSF International)

Revision

ANSI/NSF 3-2019 (i14r3), Commercial Warewashing Equipment (revision of ANSI/NSF 3-2017): 2/19/2019

ANSI/NSF 350-2019 (i35r2), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2017a): 2/20/2019

ANSI/NSF 350-2019 (i36r2), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2017a): 2/20/2019

SCTE (Society of Cable Telecommunications Engineers)

Revision

ANSI/SCTE 174-2018, Radio Frequency over Glass Fiber-to-the-Home (RFoG) Specification Extension (revision of ANSI/SCTE 174-2010): 2/22/2019

UL (Underwriters Laboratories, Inc.)

New National Adoption

ANSI/UL 60320-1-2019, Standard for Safety for Appliance Couplers for Household and Similar General Purposes - Part 1: General Requirements (national adoption of IEC 60320-1 with modifications and revision of ANSI/UL 60320-1-2011 (R2015)): 2/15/2019

ANSI/UL 60320-3-2019, Standard for Safety for Appliance Couplers for Household and Similar General Purposes - Part 3: Standard Sheets and Gauges (national adoption with modifications of IEC 60320-3): 2/15/2019

ANSI/UL 60730-2-13-2019, Standard for Automatic Electrical Controls - Part 2 -13: Particular Requirements for Humidity Sensing Controls (national adoption of IEC 60730-2-13 with modifications and revision of ANSI/UL 60730-2-13-2014): 2/15/2019

Revision

ANSI/UL 330-2019, Standard for Safety for Hose and Hose Assemblies for Dispensing Flammable Liquids (revision of ANSI/UL 330-2018): 2/22/2019

Notice of Disapproval

The requested standards actions listed below have not been approved by the ANSI Board of Standards Review (BSR).

IEEE (Institute of Electrical and Electronics Engineers)

New Standard

BSR/IEEE 802.11ah-201x, Standard for Information technology--

Telecommunications and information exchange between systems - Local and metropolitan area networks--Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications Amendment 2: Sub 1 GHz License Exempt Operation (new standard):
2/19/2019

BSR/IEEE 802.11ai-201x, Standard for Information technology -

Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications - Amendment 1: Fast Initial Link Setup (new standard):
2/19/2019

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.

ASNT (American Society for Nondestructive Testing)

Contact: Charles Longo, (800) 222-2768 241, clongo@asnt.org
1711 Arlingate Lane, P.O. Box 28518, Columbus, OH 43228-0518

Revision

BSR/ASNT CP-105-201x, Standard Topical Outlines for Qualifications of Nondestructive Testing Personnel (revision of ANSI/ASNT CP-105-2015)

Stakeholders: All industries using NDT.

Project Need: Revise and re-designate the current American National Standard.

This Standard establishes the minimum topical outline requirements for the qualification of NDT personnel.

BSR/ASNT CP-189-201x, Qualification and Certification of Nondestructive Testing Personnel (revision of ANSI/ASNT CP-189-2016, Addenda 2018)

Stakeholders: All industries using NDT.

Project Need: Revise and re-designate the current American National Standard.

This Standard establishes minimum requirements for the qualification and certifying of NDT personnel.

BSR/ASNT ILI-PQ-201x, In-Line Inspection Personnel Qualification and Certification Standard (revision of ANSI/ASNT ILI-PQ-2017)

Stakeholders: Industries performing in-line inspections using NDT.

Project Need: Revise and re-designate the current American National Standard.

Provides a standard means for employers to qualify and certify NDT personnel using in-line inspection technologies on oil and gas pipelines to include levels of qualification, education, training, experience requirements, examinations, certifications, and re-certifications.

ATIS (Alliance for Telecommunications Industry Solutions)

Contact: Steve Barclay, (202) 628-6380, sbarclay@atis.org
1200 G Street NW, Suite 500, Washington, DC 20005

Revision

BSR/ATIS 0300213-201x, Structure for the Identification of Equipment Entities for Information Exchange (revision of ANSI ATIS 0300213-2014)

Stakeholders: Communications industry.

Project Need: There is a need to update this Standard.

This standard addresses the code and its format structure providing for uniform data representation necessary to provide a standard form of coded identification of equipment entities for the purpose of efficient information exchange related to the interconnection and interoperability of communications networks.

BSR/ATIS 0300251-201x, Structure for the Representation of Service Providers for Information Exchange (revision of ANSI/ATIS 0300251-2017)

Stakeholders: Communications industry.

Project Need: There is a need to update this Standard.

This standard defines the format and structure of data elements necessary to provide a structure for the representation of service providers for information exchange.

BSR/ATIS 0300253-201x, Structure for the Representation of Location Entities for Information Exchange (revision of ANSI/ATIS 0300253-2016)

Stakeholders: Communications industry.

Project Need: There is a need to update this Standard.

This standard defines the format and structure of data elements and the overall code necessary to provide a structure for the representations of location entities for the purpose of efficient information exchange.

BSR/ATIS 0600017-201x, Non-Halogenated DC Power Wire and Cable for Telecommunications Power Systems (revision of ANSI ATIS 0600017-2014)

Stakeholders: Communications industry.

Project Need: There is a need to revise ATIS 0600017.2014, Non-Halogenated DC Power Wire and Cable for Telecommunications Power Systems, due to evolution of requirements and testing procedures in the industry.

This standard establishes a minimum requirement for non-halogenated DC power cable used to connect telecommunications DC power systems to telecommunications load equipment. It will also be used to interconnect elements of the DC power system.

CSA (CSA America Standards Inc.)

Contact: David Zimmerman, (216) 524-4990, david.zimmerman@csagroup.org
8501 E. Pleasant Valley Road, Cleveland, OH 44131

New Standard

BSR/CSA C22.2 No. 298-201x, High Voltage Couplers (new standard)

Stakeholders: Manufacturers, users, certification agencies, regulators.

Project Need: To provide safety requirements for high voltage couplers; currently, there are no standards to cover those products.

This Standard applies to locking-type, pin-and-sleeve-type plugs, receptacles, power inlets, and connectors and associated integrated accessories (i.e., junction box), rated up to 1,200 amperes (for single- and multi-pole) and above 750 V to 35 kV volts ac, 50/60 Hz, and which shall have one or more pilot contacts for multi-pole configuration and above 750 V to 1000 V ac or dc for single-pole configuration. These devices are intended to provide portable power from branch circuits, or are for direct connection to the branch circuit in accordance with the Canadian Electrical Code, Part I, and National Electrical Code using portable power cables with copper conductors, for use in either indoor or outdoor, nonhazardous locations. The products covered in this Standard are commonly, but not exclusively, used in the following applications: (a) open-pit mining; (b) underground mining; (c) tunneling; (d) shore-to-ship power; (e) portable power equipment; (f) general industrial use; and (g) drilling.

EOS/ESD (ESD Association, Inc.)

Contact: Christina Earl, (315) 339-6937, cearl@esda.org
7900 Turin Rd., Bldg. 3, Rome, NY 13440

Revision

BSR/ESD STM12.1-201x, ESD Association Standard Test Method for the Protection of Electrostatic Discharge Susceptible Items - Seating - Resistance Measurement (revision of ANSI/ESD STM12.1-2014)

Stakeholders: Electronics Industry including telecom, consumer, medical, and industrial.

Project Need: This document provides test methods for measuring the electrical resistance of seating used for the control of electrostatic charge. This standard test method provides test methods for the qualification of seating prior to installation or application.

The test methods established here are designed to measure the resistance of seating. The resistances considered here are measured from various components of the seating to a groundable point such as a conductive caster or a drag chain. Resistivity measurements are not within the scope or purpose of this standard test method.

ICC (International Code Council)

Contact: Karl Aittaniemi, (888) 422-7233 Ext.-4205, kaittaniemi@iccsafe.org
4051 Flossmoor Road, Country Club Hills, IL 60478

New Standard

BSR/ICC 1200-201x, Standard for Off-Site Construction: Planning, Design, Fabrication, and Assembly (new standard)

Stakeholders: Code officials, builders, manufacturers, design professionals, certification agencies.

Project Need: The lack of uniformity on how off-site construction is handled, the confusion across participants in the building process, and the hesitancy within the code official community reinforces the need for development of common criteria in the form of a standard to offer a path to compliance necessary to support the off-site construction industry.

Development of a comprehensive standard to address all facets of the off-site construction process including: planning; designing; fabricating; transporting; and assembling commercial and residential building elements. This includes componentized, panelized, and modularized elements. This standard will not apply to HUD Manufactured Housing or “tiny homes”.

BSR/ICC 1205-201x, Standard for Off-Site Construction: Inspection and Regulatory Compliance (new standard)

Stakeholders: Code officials, builders, manufacturers, design professionals, certification agencies.

Project Need: The lack of uniformity on how off-site construction is handled, the confusion across participants in the building process, and the hesitancy within the code official community reinforces the need for development of common criteria in the form of a standard to provide a model regulatory program and offer a path to compliance necessary to support the off-site construction industry.

Development of a comprehensive standard to address the inspection, approval, and regulatory compliance of off-site residential and commercial construction components and their assembly and completion at the final building site. This includes: permitting; in-plant and on-site final inspections; third-party inspections; the role of Industrialized Building Departments, state modular programs, and the Authority Having Jurisdiction. Off-site construction includes componentized, panelized, and modularized elements. This standard will not apply to HUD Manufactured Housing or “tiny homes”.

IES (Illuminating Engineering Society)

Contact: Patricia McGillicuddy, (917) 913-0027, pmcgillicuddy@ies.org
120 Wall Street, Floor 17, New York, NY 10005

New Standard

BSR/IES LS-2-20-201x, Lighting Science: Concepts and Language of Lighting (new standard)

Stakeholders: Lighting practitioners, light source and luminaire manufacturers, engineers, regulatory, sustainable, architectural, interior design, energy efficiency, test labs, educators.

Project Need: Lighting’s language fulfills the need to describe, specify, and evaluate luminous environments. Like any language, it is based on concepts and vocabulary. The concepts result from a consideration of the nature of light, vision, and architecture. The vocabulary results from the need for clarity, specificity, and precision. The structure of lighting’s concepts is an inverted pyramid: a very few fundamental ideas are identified and described, and from these, more complex concepts are constructed. Simpler concepts form the constituents of the more complex ones required to unambiguously specify luminous quantities or the photometric behavior of materials.

Only the most important quantities and units used in lighting design and illuminating engineering that relate directly to optical radiation, light, and vision are described and defined in this TM. The technical words associated with lighting equipment, photometry, lighting calculations, color, and daylighting are defined in other documents in the IES Library, and they rely on an understanding of the material presented in this document.

IIAR (International Institute of Ammonia Refrigeration)

Contact: Eric Smith, (703) 312-4200, eric.smith@iiar.org
1001 N. Fairfax Street, Suite 503, Alexandria, VA 22314-1797

New Standard

BSR/IIAR HC-201x, Design, Installation, Startup, Inspection, Testing, and Maintenance of Closed-Circuit Natural Hydrocarbon Refrigeration Systems (new standard)

Stakeholders: Commercial and industrial refrigeration end-users, manufacturers, contractors, designers, and service providers for natural-hydrocarbon-based refrigeration systems

Project Need: Presently, refrigeration design standards provide only general design guidance for such systems. This standard will reflect the current guidance, but also include minimum requirements for installation, startup, testing, maintenance, and inspection for these systems which incorporate highly flammable natural refrigerants.

This standard shall provide minimum safety requirements for design, installation, startup, inspection, testing, and maintenance of refrigeration systems that use naturally occurring hydrocarbons such as propane and isobutene. The standard shall apply to refrigeration systems that are not regulated by listing agencies.

NEMA (ASC C137) (National Electrical Manufacturers Association)

Contact: *Michael Erbesfeld, (703) 841-3262, Michael.Erbesfeld@nema.org*
 1300 N 17th St Suite 900, Rosslyn, VA 22209

New Standard

BSR/C137.5-201X, Energy Reporting Requirements for Lighting Devices (new standard)

Stakeholders: Users, producers.

Project Need: This standard is needed to specify the performance requirements to which lighting manufacturers design to meet the expectations of utilities, energy efficiency program administrators, and building managers.

This standard will define the minimum performance requirements for lighting devices that report energy data. A set of requirements will be defined for one or more performance classes that meet the needs of stakeholders who use energy data to monitor and/or verify energy efficiency performance. Requirements that will be defined include the specific energy data types to be reported, the nominal and statistical accuracy performance for all reported data types, and references to other standards that define the information model for all data types. Devices such as AC- and DC-powered light sources (including both integral replacement lamps and luminaires); LED drivers and other integral or remote power sources; lighting system or device controllers; and associated user interface devices are included in the scope of this standard. Devices that solely measure and/or aggregate energy data are excluded from the scope of this standard. Test methods to verify that devices meet minimum performance requirements are excluded from the scope of this standard.

NW&RA (ASC Z245) (National Waste & Recycling Association)

Contact: *Kirk Sander, (202) 364-3750, ksander@wasterecycling.org*
 1550 Crystal Drive, Suite #804, Arlington, VA 22202

New Standard

BSR Z245.9-201x, Sustainability Standards for the Waste and Recycling Industry (new standard)

Stakeholders: Consumers, environmental, waste and recycling industry members, safety professionals, municipalities, solid waste equipment manufacturers.

Project Need: The waste and recycling industry is responding to the need for a consistent and neutral measurement for evaluating the effectiveness of waste and recycling programs. The Z245 standard provides a foundation to fairly evaluate the industry from construction to operations. This new standard would provide a way to evaluate and assess the effectiveness of a waste and recycling program.

This standard would set the guidelines to evaluate and rate the sustainability of a company's or municipality's waste and recycling process. Municipalities and Companies would be evaluated based on waste generation, collection systems, waste diversion, material recovery, disposal, and innovation. Based on those key program indicators, companies and municipalities could compare the effectiveness of their waste and recycling programs with a consistent measurement.

UL (Underwriters Laboratories, Inc.)

Contact: *Nicolette Weeks, (919) 549-0973, Nicolette.A.Weeks@ul.com*
 12 Laboratory Dr., Research Triangle Park, NC 27709

New Standard

BSR/UL 2901-201X, Standard for Antifreeze Solutions for Use in Fire Sprinkler Systems (new standard)

Stakeholders: Manufacturers and users of antifreeze solutions for use in fire sprinkler systems.

Project Need: To obtain national recognition of a standard covering antifreeze solutions for use in fire sprinkler systems.

This Standard covers requirements for the performance of antifreeze solutions for fire sprinkler systems. These solutions are intended for use in wet pipe sprinkler systems subject to freezing for installation in accordance with the manufacturer's design and installation instructions (Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes, NFPA 13D; Standard for the Installation of Sprinkler Systems in Low-Rise Residential Occupancies, NFPA 13R; and the Standard for Installation of Automatic Sprinkler Systems, NFPA 13) and inspected, tested, and maintained in accordance with the Standard for Inspection, Testing and Maintenance of Water Based Fire Protection Systems, NFPA 25. This Standard does not contain requirements to evaluate the risk associated with products of combustion of antifreeze solutions.

UL (Underwriters Laboratories, Inc.)

Contact: Susan Malohn, (847) 664-1725, Susan.P.Malohn@ul.com
333 Pfingsten Road, Northbrook, IL 60062-2096

New National Adoption

BSR/UL 62915-201x, Photovoltaic (PV) modules - Type approval, design and safety qualification - Retesting (national adoption with modifications of IEC TS 62915)

Stakeholders: Photovoltaic industry, producers, installers, and certification bodies.

Project Need: Adoption of an International Technical Specification covering the retesting guidelines for photovoltaic (PV) modules

A uniform approach to maintain type approval, design, and safety qualification of terrestrial PV modules that have undergone, or will undergo modification from their originally assessed design. The document lists typical modifications and the resulting requirements for retesting based on the different test standards. It provides assistance; at some level, engineering judgment may be needed.

BSR/UL 62941-201x, Terrestrial photovoltaic (PV) modules - Guidelines for increased confidence in PV module design qualification and type approval (national adoption with modifications of IEC TS 62941)

Stakeholders: Photovoltaic industry, producers, installers, and certification bodies.

Project Need: Adoption of an International Technical Specification covering the guidelines for increased confidence in PV module design qualification, and type approval.

The object is to provide more confidence in the ongoing consistency of performance and reliability of certified PV modules. The requirements are defined with the assumption that the quality management system of the organization has already fulfilled the requirements of ISO 9001 or equivalent quality management system. By maintaining a manufacturing system in accordance with this guideline, PV modules are expected to maintain their performance as determined from the test sequences in IEC 61215, IEC 61646, or IEC 62108.

BSR/UL 63049-201x, Terrestrial photovoltaic (PV) systems - Guidelines for effective quality assurance in PV systems installation, operation, and maintenance (national adoption with modifications of IEC TS 63049)

Stakeholders: Photovoltaic industry, producers, installers, and certification bodies.

Project Need: Adoption of an International Technical Specification covering the guidelines for effective quality assurance in PV systems installation, operation, and maintenance.

The minimum activities deemed necessary to implement an effective Quality Assurance program for the managing and reducing of risk in the installation and operation of photovoltaic (PV) systems. This document defines requirements for certifying that an entity has and uses a Quality Assurance program to prevent or reduce errors and learns from any new errors in: (a) installation and (b) operation and maintenance of a PV system.

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.

<p>ANS American Nuclear Society 555 North Kensington Avenue La Grange Park, IL 60526 Phone: (708) 579-8268 Web: www.ans.org</p>	<p>ASPE American Society of Plumbing Engineers 6400 Shafer Court Suite 350 Rosemont, IL 60018 Phone: (847) 296-0002 Web: www.aspe.org</p>	<p>IAPMO (Z) International Association of Plumbing & Mechanical Officials 5001 East Philadelphia Street Ontario, CA 91761 Phone: (909) 230-5534 Web: www.iapmort.org</p>	<p>NFPA National Fire Protection Association One Batterymarch Park Quincy, MA 02269-9101 Phone: (617) 984-7248 Web: www.nfpa.org</p>
<p>APTech (ASC CGATS) Association for Print Technologies 1899 Preston White Drive Reston, VA 20191 Phone: (703) 264-7200 Web: www.printtechnologies.org</p>	<p>ASSP (Safety) American Society of Safety Professionals 520 N. Northwest Highway Park Ridge, IL 60068 Phone: (847) 699-2929 Web: www.assp.org</p>	<p>ICC International Code Council 4051 Flossmoor Road Country Club Hills, IL 60478 Phone: (888) 422-7233 Ext.-4205 Web: www.iccsafe.org</p>	<p>NSF NSF International 789 N. Dixboro Road Ann Arbor, MI 48105-9723 Phone: (734) 827-3817 Web: www.nsf.org</p>
<p>ASA (ASC S3) Acoustical Society of America 1305 Walt Whitman Road Suite 300 Melville, NY 11747 Phone: (631) 390-0215 Web: www.acousticalsociety.org</p>	<p>ATIS Alliance for Telecommunications Industry Solutions 1200 G Street NW Suite 500 Washington, DC 20005 Phone: (202) 628-6380 Web: www.atis.org</p>	<p>IEEE Institute of Electrical and Electronics Engineers 445 Hoes Lane Piscataway, NJ 08854 Phone: (732) 562-3854 Web: www.ieee.org</p>	<p>NW&RA (ASC Z245) National Waste & Recycling Association 1550 Crystal Drive, Suite #804 Arlington, VA 22202 Phone: (202) 364-3750 Web: www.wasterecycling.org</p>
<p>ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. 1791 Tullie Circle NE Atlanta, GA 30329 Phone: (678) 539-1111 Web: www.ashrae.org</p>	<p>AWWA American Water Works Association 6666 W. Quincy Ave. Denver, CO 80235 Phone: (303) 347-6178 Web: www.awwa.org</p>	<p>IES Illuminating Engineering Society 120 Wall Street, Floor 17 New York, NY 10005 Phone: (917) 913-0027 Web: www.ies.org</p>	<p>SCTE Society of Cable Telecommunications Engineers 140 Philips Road Exton, PA 19341-1318 Phone: (484) 252-2330 Web: www.scte.org</p>
<p>ASIS ASIS International 1625 Prince Street Alexandria, VA 22314-2818 Phone: (703) 518-1439 Web: www.asisonline.org</p>	<p>CSA CSA America Standards Inc. 8501 E. Pleasant Valley Road Cleveland, OH 44131 Phone: (216) 524-4990 Web: www.csagroup.org</p>	<p>IIAR International Institute of Ammonia Refrigeration 1001 N. Fairfax Street Suite 503 Alexandria, VA 22314-1797 Phone: (703) 312-4200 Web: www.iiar.org</p>	<p>UL Underwriters Laboratories, Inc. 333 Pfingsten Road Northbrook, IL 60062-2096 Phone: (847) 664-1725 Web: www.ul.com</p>
<p>ASME American Society of Mechanical Engineers Two Park Avenue New York, NY 10016-5990 Phone: (212) 591-8521 Web: www.asme.org</p>	<p>EOS/ESD ESD Association, Inc. 7900 Turin Rd., Bldg. 3 Rome, NY 13440 Phone: (315) 339-6937 Web: www.esda.org</p>	<p>NECA National Electrical Contractors Association 3 Bethesda Metro Center Suite 1100 Bethesda, MD 20814 Phone: (301) 215-4549 Web: www.neca-neis.org</p>	<p>VITA VMEbus International Trade Association (VITA) 929 W. Portobello Avenue Mesa, AZ 85210 Phone: (602) 281-4497 Web: www.vita.com</p>
<p>ASNT American Society for Nondestructive Testing 1711 Arlingate Lane P.O. Box 28518 Columbus, OH 43228-0518 Phone: (800) 222-2768 241 Web: www.asnt.org</p>	<p>HL7 Health Level Seven 3300 Washtenaw Avenue Suite 227 Ann Arbor, MI 48104 Phone: (734) 677-7777 Web: www.hl7.org</p>	<p>NEMA (ASC C137) National Electrical Manufacturers Association 1300 N 17th St Suite 900 Rosslyn, VA 22209 Phone: (703) 841-3262 Web: www.nema.org</p>	

ExSC_033_2019
March 1, 2019 ANSI Standards Action

Proposed Revision to the *ANSI Essential Requirements* (www.ansi.org/essentialrequirements)

The proposed revision below to **3.2 Commercial terms and conditions** within the *ANSI Essential Requirements* (www.ansi.org/essentialrequirements) is intended to clarify what is and is not allowable within the context of commercial terms and conditions, within an American National Standard (ANS). Presented below is the proposed text, which is intended to replace the current text; a comparison of the current text versus the proposed revision follows in strike-through-underline.

Public comments received in connection with this proposed revision will be made available to the public, with attribution, in the [ANSI Online public library](#) one week after the close of the public comment deadline. The ANSI ExSC will consider the comments received and provide a written response to commenters.

Public Comments are due to psa@ansi.org by April 1, 2019.

Text with proposed revisions incorporated:

3.2 Commercial terms and conditions

Except as otherwise permitted by these Essential Requirements, ANS shall not include terms or conditions that are purely commercial in nature, such as contractual requirements (3.2.1); endorsements of brand-name or proprietary products or services (3.2.2); or use of particular conformity-assessment bodies, testing facilities or training organizations (3.2.3).

3.2.1 Contractual Requirements

Except as provided below, ANS shall not contain contract terms relating to the use of particular products or services such as guarantees warranties, indemnities, buybacks, and the like.

3.2.2 Endorsements of Products or Services

ANS shall not endorse, or require the purchase or use of, brand-name or proprietary products or service providers as a condition of implementing the standard. For example, an ANS may not endorse or require the purchase or use of brand-name tools or components, copyrighted user manuals, labels or licenses. Nor may an ANS include manufacturer lists, service provider lists, and the like.

However, where a sole source exists for products or services necessary to comply with the standard, it is permissible to supply the name and address of the source in a footnote as long as the source is reasonably available and the words “or the equivalent” are added to the reference.

3.2.3 Conformity Assessment, Testing and Training

In connection with ANS that relate to the determination of whether products or services conform to one or more standards, the process or criteria for determining conformity can be standardized as long as the description of the process or criteria is limited to technical and engineering concerns and does not include what would otherwise be a commercial term.

Where a sole source exists for products or services necessary to determine compliance with the standard, it is permissible to supply the name and address of the source in a footnote as long as the source is reasonably available and the words “or the equivalent” are added to the reference.

It is permissible for health, safety or environmental protection reasons to include a generic requirement for third-party, *i.e.*, independent, conformity assessment, testing or training. It is also permissible to provide a reference to a website listing third-party conformity-assessment bodies, testing facilities or training organizations as long as the words "or the equivalent" are added to the reference and any such reference does not appear as an endorsement. ANS shall not dictate the use or non-use of a particular conformity-assessment body, testing facility or training organization.

Proposed revision to 3.2 *Commercial terms and conditions*

3.2 3.2 Commercial terms and conditions

~~Provisions involving business relations between buyer and seller~~ Except as otherwise permitted by these Essential Requirements, ANS shall not include terms or conditions that are purely commercial in nature, such as contractual requirements (3.2.1); endorsements of brand-name or proprietary products or services (3.2.2); or use of particular conformity-assessment bodies, testing facilities or training organizations (3.2.3).

3.2.1 Contractual Requirements

Except as provided below, ANS shall not contain contract terms relating to the use of particular products or services such as guarantees, warranties, ~~and other commercial terms and conditions shall not be included in an American National Standard.~~ The appearance that indemnities, buybacks, and the like.

3.2.2 Endorsements of Products or Services

ANS shall not endorse, or require the purchase or use of, brand-name or proprietary products or service providers as a condition of implementing the standard ~~endorses any particular products, services or companies must be avoided. Therefore, it generally is not acceptable to.~~ For example, an ANS may not endorse or require the purchase or use of brand-name tools or components, copyrighted user manuals, labels or licenses. Nor may an ANS include manufacturer lists, service provider lists, ~~or similar material in the text of a standard or in an annex (or the equivalent).~~ Where and the like.

However, where a sole source exists for ~~essential equipment, materials~~ products or services necessary to comply with ~~or to determine compliance with~~ the standard, it is permissible to supply the name and address of the source in a footnote ~~or informative annex~~ as long as the source is reasonably available and the words "or the equivalent" are added to the reference.

3.2.3 Conformity Assessment, Testing and Training

In connection with ~~standards~~ ANS that relate to the determination of whether products or services conform to one or more standards, the process or criteria for determining conformity can be standardized as long as the description of the process or criteria is limited to technical and engineering concerns and does not include what would otherwise be a commercial term.

Where a sole source exists for products or services necessary to determine compliance with the standard, it is permissible to supply the name and address of the source in a footnote as long as the source is reasonably available and the words "or the equivalent" are added to the reference.

It is permissible for health, safety or environmental protection reasons to include a generic requirement for third-party, i.e., independent, conformity assessment, testing or training. It is also permissible to provide a reference to a website listing third-party conformity-assessment bodies, testing facilities or training organizations as long as the words "or the equivalent" are added to the reference and any such reference does not appear as an endorsement. ANS shall not dictate the use or non-use of a particular conformity-assessment body, testing facility or training organization.



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 IEC 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

AIR QUALITY (TC 146)

ISO/DIS 12039, Stationary source emissions - Determination of the mass concentration of carbon monoxide, carbon dioxide and oxygen in flue gas - Performance characteristics of automated measuring systems - 3/14/2019, \$119.00

ISO/DIS 21741, Stationary source emissions - Sampling and determination of mercury compounds in flue gas using gold amalgamation trap - 5/13/2019, \$93.00

CYCLES (TC 149)

ISO/DIS 8090, Cycles - Terminology - 3/15/2019, \$185.00

ISO/DIS 4210-10, Cycles - Safety requirements for bicycles - Part 10: Safety requirements for electrically power assisted cycles (EPACs) - 3/14/2019, \$175.00

DENTISTRY (TC 106)

ISO/DIS 10271, Dentistry - Corrosion test methods for metallic materials - 5/18/2019, FREE

GEARS (TC 60)

ISO/DIS 4468, Gear hobs - Accuracy requirements - 5/13/2019, \$107.00

GEOSYNTHETICS (TC 221)

ISO/DIS 12958-1, Geotextiles and geotextile-related products - Determination of water flow capacity in their plane - Part 1: Index test - 5/10/2019, \$58.00

ISO/DIS 12958-2, Geotextiles and geotextile-related products - Determination of water flow capacity in their plane - Part 2: Performance test - 5/10/2019, \$62.00

HEALTHCARE ORGANIZATION MANAGEMENT (TC 304)

ISO/DIS 22886, Healthcare organization management - Vocabulary - 3/14/2019, \$58.00

HYDROMETRIC DETERMINATIONS (TC 113)

ISO/DIS 4360, Hydrometry - Open channel flow measurement using triangular profile weirs - 5/16/2019, \$98.00

INFORMATION AND DOCUMENTATION (TC 46)

ISO/DIS 15836-2, Information and documentation - The Dublin Core metadata element set - Part 2: DCMI Properties and classes - 3/15/2019, \$88.00

INTERNAL COMBUSTION ENGINES (TC 70)

ISO 8178-1/DAmD1, Reciprocating internal combustion engines - Exhaust emission measurement - Part 1: Test-bed measurement systems of gaseous and particulate emissions - Amendment 1: Update of certain instrument and measurement provisions and of the carbon flow check - 5/17/2019, \$46.00

ISO 8178-4/DAmD1, Reciprocating internal combustion engines - Exhaust emission measurement - Part 4: Steady-state and transient test cycles for different engine applications - Amendment 1: Update of data evaluation and calculation provisions, the molar based emission calculations and of the engine control area for E3 and E5 test cycle - 5/18/2019, FREE

MATERIALS, EQUIPMENT AND OFFSHORE STRUCTURES FOR PETROLEUM AND NATURAL GAS INDUSTRIES (TC 67)

ISO 21809-3/DAmD1, Petroleum and natural gas industries - External coatings for buried or submerged pipelines used in pipeline transportation systems - Part 3: Field joint coatings - Amendment 1: Introduction of mesh-backed coating systems - 5/16/2019, \$40.00

PAINTS AND VARNISHES (TC 35)

ISO/DIS 13076, Paints and varnishes - Lighting and procedure for visual assessments of coatings - 5/13/2019, \$40.00

ISO/DIS 23169, Paints and varnishes - On-site test methods on quality assessment for interior wall coatings - 5/9/2019, \$77.00

ISO/DIS 11890-2, Paints and varnishes - Determination of volatile organic compound (VOC) and semi volatile organic compound (SVOC) content - Part 2: Gas-chromatographic method - 5/17/2019, FREE

PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)

ISO/DIS 16073-5, Wildland firefighting personal protective equipment - Requirements and test methods - Part 5: Helmets - 3/15/2019, \$82.00

PLASTICS (TC 61)

- ISO/DIS 19063-2, Plastics - Impact-resistant polystyrene (PS-I) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties - 3/15/2019, \$46.00
- ISO/DIS 19095-5, Plastics - Evaluation of the adhesion interface performance in plastic-metal assemblies - Part 5: Fracture energy - 5/18/2019, FREE

ROAD VEHICLES (TC 22)

- ISO/DIS 8820-8, Road vehicles - Fuse-links - Part 8: Fuse-links with bolt-in contacts (Type H and J) with rated voltage of 450 V - 3/14/2019, \$53.00

RUBBER AND RUBBER PRODUCTS (TC 45)

- ISO/DIS 3862, Rubber hoses and hose assemblies - Rubber-covered spiral-wire-reinforced hydraulic types for oil-based or water-based fluids - Specification - 5/11/2019, \$58.00
- ISO/DIS 4079, Rubber hoses and hose assemblies - Textile-reinforced hydraulic types for oil-based or water-based fluids - Specification - 5/10/2019, \$58.00
- ISO/DIS 17278, Rubber, raw natural - Determination of the gel content of technically specified rubber (TSR) - 5/13/2019, \$46.00

SAFETY OF TOYS (TC 181)

- ISO 8124-1/DAMd2, Safety of toys - Part 1: Safety aspects related to mechanical and physical properties - Amendment 2: Various 2 - 5/11/2019, \$53.00

SECURITY (TC 292)

- ISO/DIS 22313, Security and resilience - Business continuity management systems - Guidance - 5/11/2019, \$125.00

SHIPS AND MARINE TECHNOLOGY (TC 8)

- ISO/DIS 23121-1, Ships and marine technology - Inflatable buoyancy support system against flooding of ships - Part 1: Gas supply system - 5/18/2019, FREE
- ISO/DIS 23121-2, Ships and marine technology - Inflatable buoyancy support system against flooding of ships - Part 2: Buoyancy chamber - 5/18/2019, FREE

SOLID MINERAL FUELS (TC 27)

- ISO/DIS 556, Coke (greater than 20 mm in size) - Determination of mechanical strength - 5/17/2019, \$58.00

STERILIZATION OF HEALTH CARE PRODUCTS (TC 198)

- ISO/DIS 13408-6, Aseptic processing of health care products - Part 6: Isolator systems - 4/27/2019, \$107.00

TEXTILES (TC 38)

- ISO/DIS 20852, Textiles - Determination of the total heat transfer through textiles in simulated environments - 5/12/2019, \$40.00

ISO/IEC JTC 1, Information Technology

- ISO/IEC DIS 21118, Information technology - Office equipment - Information to be included in specification sheets - Data projectors - 5/18/2019, FREE
- ISO/IEC DIS 22624, Information technology - Cloud Computing - Taxonomy based data handling for cloud services - 3/14/2019, \$107.00
- ISO/IEC DIS 39794-4, Information technology - Extensible biometric data interchange formats - Part 4: Finger image data - 3/16/2019, \$155.00

IEC Standards

- 13/1783(F)/CDV, IEC 62056-8-8 ED1: Electricity metering data exchange - The DLMS/COSEM suite- Part 8-8: Communication profile for ISO/IEC 14908 series networks, 019/5/3/
- 14/1001/CD, IEC 60076-22-6 ED1: Power transformers - Part 22-6: Power transformer and reactor cooling equipment - Fans, 2019/5/17
- 17C/704/DTR, IEC TR 62271-312 ED1: High-voltage switchgear and controlgear - Part 312: Guidance for the transferability of type tests of high-voltage/low-voltage prefabricated substations, 2019/4/19
- 25/656A/FDIS, ISO 80000-11 ED2: Quantities and units - Part 11: Characteristic numbers, 2019/3/22
- 34/592/FDIS, IEC 63128 ED1: Lighting control interface for dimming - Analogue voltage dimming interface for electronic current sourcing controlgear, 019/4/5/
- 34A/2133/FDIS, IEC 63146 ED1: LED packages for general lighting - Specification sheet, 019/4/5/
- 40/2665/FDIS, IEC 62812 ED1: Low resistance measurements - Methods and guidance, 019/4/5/
- 46F/453/CD, IEC 61169-67 ED1: Radio frequency connectors - Part 67: Sectional specification for series TRL threaded triaxial connectors, 2019/5/17
- 47/2547/FDIS, IEC 62951-6 ED1: Semiconductor devices - Flexible and stretchable semiconductor devices - Part 6: Test method for sheet resistance of flexible conducting films, 019/4/5/
- 47/2548/FDIS, IEC 63150-1 ED1: Semiconductor devices - Measurement and evaluation methods of kinetic energy harvesting devices under practical vibration environment - Part 1: Arbitrary and random mechanical vibrations, 019/4/5/
- 47A/1074/CD, IEC 62433-6 ED1: EMC IC modelling - Part 6: Models of integrated circuits for Pulse Immunity behavioural simulation - Conducted Pulse Immunity modelling (ICIM-CPI), 2019/4/19
- 47E/643A/FDIS, IEC 60747-18-1 ED1: Semiconductor devices - Part 18-1: Semiconductor bio sensors - Test method and data analysis for calibration of lens-free CMOS photonic array sensors, 019/4/5/
- 51/1278/CD, IEC 61007 ED3: Transformers and inductors for use in electronic and telecommunication equipment - Measuring methods and test procedures, 2019/5/17
- 57/2080/DC, IEC 61850-90-20: Communication networks and systems for power utility automation - Part 90-20: Guideline to redundancy systems, 2019/3/22
- 59F/372/FDIS, IEC 62885-2 ED2: Surface cleaning appliances - Part 2: Dry vacuum cleaners for household or similar use - Methods for measuring the performance, 019/4/5/
- 61/5790/FDIS, IEC 60335-2-2 ED7: Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances, 019/4/5/
- 61/5789/FDIS, IEC 60335-2-96 ED2: Household and similar electrical appliances - Safety - Part 2-96: Particular requirements for flexible sheet heating elements for room heating, 019/4/5/
- 62B/1124/CD, IEC 61223-3-7 ED1: Evaluation and routine testing in medical imaging departments - Acceptance testing and quality control of dental extra-oral X-ray equipment used with dental cone beam computed tomography, 2019/5/17
- 62B/1123/NP, PNW 62B-1123: Evaluation and routine testing in medical imaging departments - Acceptance and constancy tests - Radiography and radioscopy, 2019/5/17
- 62B/1125/CD, IEC 60601-2-63/AMD2 ED1: Medical electrical equipment - Part 2-63: Particular requirements for the basic safety and essential performance of dental extra-oral X-ray equipment, 2019/5/17

- 62B/1126/CD, IEC 60601-2-65/AMD2 ED1: Medical electrical equipment - Part 2-65: Particular requirements for the basic safety and essential performance of dental intra-oral X-ray equipment, 2019/5/17
- 86C/1575/FDIS, IEC 61280-4-1 ED3: Fibre-optic communication subsystem test procedures - Part 4-1: Installed cabling plant - Multimode attenuation measurement, 019/4/5/
- 91/1561/FDIS, IEC 61188-6-4 ED1: Printed boards and printed board assemblies - Design and use - Part 6-4: Land pattern design - Generic requirements for dimensional drawings of surface mounted components (SMD) from the viewpoint of land pattern design, 019/4/5/
- 91/1562/FDIS, IEC 60068-2-82 ED2: Environmental testing - Part 2 -82: Tests - Test XW1: Whisker test methods for components and parts used in electronic assemblies, 019/4/5/
- 97/198/FDIS, IEC 61820-1 ED1: Electrical installations for aeronautical ground lighting at aerodromes - Part 1: Fundamental principles, 019/4/5/
- 109/179/CDV, IEC 60664-1 ED3: Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests, 2019/5/17
- 113/458A/NP, PNW TS 113-458: IEC TS 62607-6-20: Nanomanufacturing - Key control characteristics - Part 6-20: Graphene powder - Metallic impurity content: ICP-MS, 2019/5/10
- 113/459A/NP, PNW TS 113-459: IEC TS 62607-6-21: Nanomanufacturing - Key control characteristics - Part 6-21: Graphene Powder - Elemental composition, C/O ratio: XPS, 2019/5/10
- 113/457A/NP, PNW TS 113-457: IEC TS 62607-6-19: Nanomanufacturing - Key control characteristics - Part 6-19: Graphene powder - Elemental composition: CS analyzer, ONH analyzer, 2019/5/10
- 121A/270(F)/CDV, IEC 60947-6-2 ED3: Low-voltage switchgear and controlgear - Part 6-2: Multiple function equipment - Control and protective switching devices (or equipment) (CPS), 2019/4/26
- 121A/280/FDIS, IEC 62026-1 ED3: Low-voltage switchgear and controlgear - Controller-device interfaces (CDIs) - Part 1: General rules, 019/4/5/
- 121B/83/CD, IEC TS 63107 ED1: Integration of arcing fault mitigation devices into power switchgear and controlgear assemblies (PSC-ASSEMBLIES) according to IEC 61439-2, 2019/5/17
- CIS/A/1289/CD, CISPR 16-2-3/AMD2 ED4: Measurement method for radiated disturbance measurements below 30 MHz, 2019/5/17
- JTC1-SC25/2859/NP, PNW JTC1-SC25-2859: Information technology - Physical network security for the accommodation of customer premises cabling infrastructure and information technology equipment, 2019/5/17



Newly Published ISO & IEC Standards

Listed here are new and revised standards recently approved and promulgated by ISO - the International Organization for Standardization – and IEC – the International Electrotechnical Commission. Most are available at the ANSI Electronic Standards Store (ESS) at www.ansi.org. All paper copies are available from Standards resellers (<http://webstore.ansi.org/faq.aspx#resellers>).

ISO Standards

ACOUSTICS (TC 43)

[ISO 3740:2019](#), Acoustics - Determination of sound power levels of noise sources - Guidelines for the use of basic standards, \$162.00

AIR QUALITY (TC 146)

[ISO 19926-1:2019](#), Meteorology - Weather radar - Part 1: System performance and operation, \$232.00

AIRCRAFT AND SPACE VEHICLES (TC 20)

[ISO 21494:2019](#), Space systems - Magnetic testing, \$162.00

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

[ISO 20186-1:2019](#), Molecular in vitro diagnostic examinations - Specifications for pre-examination processes for venous whole blood - Part 1: Isolated cellular RNA, \$138.00

[ISO 20186-2:2019](#), Molecular in vitro diagnostic examinations - Specifications for pre-examination processes for venous whole blood - Part 2: Isolated genomic DNA, \$138.00

COMPRESSORS, PNEUMATIC TOOLS AND PNEUMATIC MACHINES (TC 118)

[ISO 8573-4:2019](#), Compressed air - Contaminant measurement - Part 4: Particle content, \$138.00

ENERGY MANAGEMENT AND ENERGY SAVINGS (TC 301)

[ISO 50021:2019](#), Energy management and energy savings - General guidelines for selecting energy savings evaluators, \$103.00

FINE CERAMICS (TC 206)

[ISO 21813:2019](#), Fine ceramics (advanced ceramics, advanced technical ceramics) - Methods for chemical analysis of high purity barium titanate powders, \$138.00

MECHANICAL VIBRATION AND SHOCK (TC 108)

[ISO 21940-1:2019](#), Mechanical vibration - Rotor balancing - Part 1: Introduction, \$162.00

PAINTS AND VARNISHES (TC 35)

[ISO 21546:2019](#), Paints and varnishes - Determination of the resistance to rubbing using a linear abrasion tester (crockmeter), \$103.00

SHIPS AND MARINE TECHNOLOGY (TC 8)

[ISO 799-1:2019](#), Ships and marine technology - Pilot ladders - Part 1: Design and specification, \$103.00

TECHNICAL DRAWINGS, PRODUCT DEFINITION AND RELATED DOCUMENTATION (TC 10)

[ISO 21600:2019](#), Technical product documentation (TPD) - General requirements of mechanical product digital manuals, \$138.00

TRADITIONAL CHINESE MEDICINE (TC 249)

[ISO 21314:2019](#), Traditional Chinese medicine - Salvia miltiorrhiza root and rhizome, \$103.00

WATER QUALITY (TC 147)

[ISO 10704:2019](#), Water quality - Gross alpha and gross beta activity - Test method using thin source deposit, \$138.00

ISO Technical Reports

SERVICE ACTIVITIES RELATING TO DRINKING WATER SUPPLY SYSTEMS AND WASTEWATER SYSTEMS - QUALITY CRITERIA OF THE SERVICE AND PERFORMANCE INDICATORS (TC 224)

[ISO/TR 24524:2019](#), Service activities relating to drinking water supply, wastewater and stormwater systems - Hydraulic, mechanical and environmental conditions in wastewater transport systems, \$68.00

ISO/IEC JTC 1, Information Technology

[ISO/IEC 21823-1:2019](#), Internet of things (IoT) - Interoperability for internet of things systems - Part 1: Framework, \$138.00

IEC Standards

ELECTRICAL INSTALLATIONS OF BUILDINGS (TC 64)

[IEC 60364-5-53 Ed. 4.0 en:2019](#), Low-voltage electrical installations - Part 5-53: Selection and erection of electrical equipment - Devices for protection for safety, isolation, switching, control and monitoring, \$352.00

INDUSTRIAL-PROCESS MEASUREMENT AND CONTROL (TC 65)

[IEC 62443-2-4 Amd.1 Ed. 1.0 b:2017](#), Amendment 1 - Security for industrial automation and control systems - Part 2-4: Security program requirements for IACS service providers, \$117.00

[IEC 62443-2-4 Ed. 1.1 b:2017](#), Security for industrial automation and control systems - Part 2-4: Security program requirements for IACS service providers, \$645.00

[IEC 62443-4-2 Ed. 1.0 b:2019](#), Security for industrial automation and control systems - Part 4-2: Technical security requirements for IACS components, \$375.00

MEASURING RELAYS AND PROTECTION EQUIPMENT (TC 95)

[IEC 60255-181 Ed. 1.0 b:2019](#), Measuring relays and protection equipment - Part 181: Functional requirements for frequency protection, \$375.00

SEMICONDUCTOR DEVICES (TC 47)

[IEC 62830-4 Ed. 1.0 b:2019](#), Semiconductor devices - Semiconductor devices for energy harvesting and generation - Part 4: Test and evaluation methods for flexible piezoelectric energy harvesting devices, \$235.00

[IEC 62951-4 Ed. 1.0 b:2019](#), Semiconductor devices - Flexible and stretchable semiconductor devices - Part 4: Fatigue evaluation for flexible conductive thin film on the substrate for flexible semiconductor devices, \$82.00

[IEC 62951-5 Ed. 1.0 b:2019](#), Semiconductor devices - Flexible and stretchable semiconductor devices - Part 5: Test method for thermal characteristics of flexible materials, \$117.00

[IEC 62951-7 Ed. 1.0 b:2019](#), Semiconductor devices - Flexible and stretchable semiconductor devices - Part 7: Test method for characterizing the barrier performance of thin film encapsulation for flexible organic semiconductor, \$82.00

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

STP 2200A (UL 2200A)

Underwriters Laboratories Inc. (UL) is forming a new Standards Technical Panel, STP 2200A, the Standards Technical Panel for Stationary Engine Generator Enclosures, to cover activity for UL 2200A, Fire Containment Testing of Stationary Engine Generator Enclosures.

To apply for STP membership, complete the online STP Application (<https://csds.ul.com/STPInfo/ApplicationHomePage.aspx>).

Scope for UL 2200A: These requirements provide fire test and performance compliance criteria to evaluate stationary engine generator assemblies for installation less than the offset spacing to combustible building structures required by NFPA 37. The fire condition represented by this test simulates engine failure conditions and ignition of combustible components and assemblies within the generator enclosure including engine lubricating oil.

Categories needed: AHJ, Commercial / Industrial Users, General, Government, Producer, Supply Chain, Testing & Standards Org

Contact: Jonette Herman, Jonette.A.Herman@ul.com

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 Reaccreditation

AAMI – The Association for the Advancement of Medical Instrumentation

ANSI's Executive Standards Council has approved the reaccreditation of AAMI – The Association for the Advancement of Medical Instrumentation, an ANSI Member and Accredited Standards Developer, under its recently revised AAMI Standards Program Policies and Procedures for documenting consensus on AAMI-sponsored American National Standards, effective February 22, 2019. For additional information, please contact: Ms. Jennifer Moyer M.A., Senior Director, Quality Assurance & Standards, AAMI, 901 N. Glebe Road, Suite 300, Arlington, VA 22203; phone: 703.253.8274; e-mail: JMoyer@aami.org.

American Association of Radon Scientists and Technologists (AARST)

The reaccreditation of the American Association of Radon Scientists and Technologists (AARST), an ANSI member and Accredited Standards Developer (ASD), has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on AARST-sponsored American National Standards, effective February 26, 2019. For additional information, please contact: Mr. Gary Hodgden, Secretariat, American Association of Radon Scientists and Technologists, 475 South Church Street, Suite 600, Hendersonville, NC 28792; phone: 202.830.1110; e-mail: StandardsAssist@gmail.com.

Electronic Components Industry Association (ECIA)

The reaccreditation of the Electronic Components Industry Association (ECIA), an ANSI member and Accredited Standards Developer (ASD), has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on ECIA-sponsored American National Standards, effective February 26, 2019. For additional information, please contact: Mr. Edward F. Mikoski, Jr., MBA, CStd, FSES, Vice-President of Standards and Technology, Electronic Components Industry Association, DC Office, 13873 Park Center Road, Suite 315, Herndon, VA 20171; phone: 571.323.0253; e-mail: emikoski@ecianow.org.

Georgia Tech Energy & Sustainability Services (GTESS)

The reaccreditation of Georgia Tech Energy & Sustainability Services (GTESS), an ANSI member and Accredited Standards Developer (ASD), has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on GTESS-sponsored American National Standards, effective February 22, 2019. For additional information, please contact: Ms. Holly Grell-Lawe, GTESS Standards Coordinator, Principal Research Associate, Energy & Sustainability Services, Enterprise Innovation Institute, Georgia Institute of Technology, 75 Fifth Street NW, Suite 300, Atlanta, GA 30332-0640; phone: 404.558.5948; e-mail: holly.lawe@innovate.gatech.edu.

Precast/Prestressed Concrete Institute (PCI)

The reaccreditation of the Precast/Prestressed Concrete Institute (PCI), an ANSI member and Accredited Standards Developer (ASD), has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on PCI-sponsored American National Standards, effective February 27, 2019. For additional information, please contact: Ms. Edith Smith, Manager, Codes and Standards, Precast/Prestressed Concrete Institute, 200 W. Adams Street, Suite 2100, Chicago, IL 60606-5230; phone: 312.360.3219; e-mail: ESmith@pci.org.

International Organization for Standardization (ISO)

ISO/TC 292 – Security and Resilience

ANSI has been informed that ASIS International, the ANSI-accredited U.S. TAG Administrator for ISO/TC 292, wishes to relinquish their role as U.S. TAG Administrator.

ISO/TC 292 operates under the following scope:

Standardization in the field of security to enhance the safety and resilience of society.

Excluded: Sector specific security projects developed in other relevant ISO committees and projects developed in ISO/TC 262 and ISO/PC 278.

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).

International Electrotechnical Commission (IEC)

Members Needed

USNC TAG to IEC/SyC Smart Manufacturing

Individuals who are interested in joining this USNC TAG, are invited to contact Charley Robinson, SyC SM TAG Secretary, at crobinson@ISA.org as soon as possible.

Please see the scope for the SyC on Smart Manufacturing below.

Scope:

To provide coordination and advice in the domain of Smart Manufacturing to harmonize and advance Smart Manufacturing activities in the IEC, other SDOs and Consortia according to clause 2 in AC/22/2017.

U.S. Technical Advisory Groups

Approval of Reaccreditation

AAMI-Sponsored U.S. Technical Advisory Groups to ISO

ANSI's Executive Standards Council has approved the reaccreditations of the following AAMI-sponsored U.S. Technical Advisory Groups to ISO under the recently revised AAMI U.S. TAG Policies and Procedures for ISO Activities, effective February 22, 2019:

TC 76, Transfusion, infusion and injection, and blood processing equipment for medical and pharmaceutical use

TC 84, Devices for administration of medicinal products and catheters

TC 121, Anesthetic and respiratory equipment

TC 150/SC 2, Cardiovascular implants and extracorporeal systems

TC 150/SC 6, Active implants

TC 194, Biological and clinical evaluation of medical devices

TC 198, Sterilization of health care products

TC 210, Quality management and corresponding general aspects for medical devices

For additional information, please contact the TAG Administrator for these U.S. TAGs to ISO: Ms. Jennifer Moyer, M.A., Senior Director, Quality Assurance & Standards, AAMI, 901 N. Glebe Road, Suite 300, Arlington, VA 22203; phone: 703.253.8274; e-mail: JMoyer@aami.org.

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[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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9 Recessed automatic surface skimmers

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9.4 Equalizer line

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9.4.2 Consult local codes to determine if skimmer installation requires an equalizer line. If an equalizer line is required for skimmer installation, any submerged suction equalizer outlet shall be covered by an appropriately certified and sized suction fitting (cover, sump, and fasteners) that is certified in accordance with ANSI/APSP-16. It is the responsibility of installers, service technicians and facility operators to comply with local codes and regulations. If it is acceptable to disable the equalizer line during installation/service, such work shall be conducted in accordance with the skimmer manufacturer's instructions.

For skimmer designs that incorporate an equalizer line, one of the following shall occur:

- if the skimmer manufacturer does supply a suction fitting (along with the skimmer), the skimmer manufacturer shall specify the minimum flow rating that meets or exceeds the maximum flow rate of the skimmer equalizer. The skimmer manufacturer shall mandate installation of the skimmer with the provided suction fitting which shall be certified to ANSI/APSP-16 with a flow rating that meets or exceeds the maximum flow rate of the skimmer equalizer; or

- if the skimmer manufacturer doesn't supply a suction fitting (along with the skimmer), the skimmer manufacturer shall specify the minimum flow rating that meets or exceeds the maximum flow rate of the skimmer equalizer. The skimmer manufacturer shall mandate the installation of a suction fitting that is certified to ~~ANSI/ASME A112.19.8~~ ANSI/APSP-16 with a flow rating that meets or exceeds the maximum flow rate of the skimmer equalizer.

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9.9 Operation and installation instructions

9.9.1 The manufacturer shall provide written operation and installation instructions with each unit. The instructions shall include drawings, charts, head loss curves, and parts lists necessary for the proper installation, operation, and maintenance of the skimmer.

9.9.2 A skimmer equipped with an equalizer shall have, in its operation and installation instructions:

- a warning that the skimmer is to be installed with an equalizer wall or drain fitting ~~conforming to ANSI/ASME A112.19.8~~ certified to ANSI/APSP-16 to prevent hair or body entrapment at the skimmer equalizer;
- the skimmer manufacturer shall specify the minimum flow rating of the suction fitting (which meets or exceeds the maximum flow rating of the skimmer suction line); and
- to address jurisdictions that do not allow skimmers to be installed with equalizer lines, the skimmer manufacturer shall provide instructions for disabling (i.e., installation of the skimmer without the equalizer line) the equalizer line.

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[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
and 3-A Standard 14159-1

Hygiene Requirements for the Design of Meat and Poultry Processing Equipment

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NSF International Standard /
American National Standard
and 3-A Standard 14159-2

Hygiene Requirements for the Design Of Handheld Tools Used in Meat and Poultry Processing

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NSF International Standard /
American National Standard
and 3-A Standard 14159-3

Hygiene Requirements for the Design of Mechanical Belt Conveyors Used in Meat and Poultry Processing

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5 Design and construction

5.1 Product contact surfaces

5.1.1 Surface texture

Surfaces shall be free of imperfections such as pits, folds, cracks, and crevices, scratches, chips or flakes in the final fabricated form. The 2B mill finish on stainless steel sheet metal is considered as smooth or smoother than a No. 4 finish with no further finishing required.

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~~NOTE — The 2B mill finish on stainless steel sheet is also considered as smooth or smoother than a No. 4 finish. No further finishing is required if the finish is free of defects, such as pits, scratches, chips, or flakes in the final fabricated form.~~

***Rationale:** Under ANSI requirements, a “NOTE” is used to add informative language within the normative sections of the Standard. When the Standard was incorporated into the ANSI format after 2002, the language was formatted in the same manner as the original 2-column format. This “NOTE” carried over and should be removed because it is normative language. This same update is taking place in many of the 100+ Standards in the NSF/ANSI Suite. Additional imperfections are also being proposed to add further clarity.*

BSR/UL 98, Standard for Enclosed and Dead-Front Switches

1. Revisions for Field Installed Barriers

6.1.7 A DC rated multipole switch that requires poles to be wired in series and allows for different series configurations of the poles, barriers and/or jumpers may be field installed if all of the following are met:

- a) Barriers are either supplied with or made available by the manufacturer as part of a kit;
- b) Jumpers, if other than wire, are supplied with the barriers mentioned in a) or made available by the manufacturer as part of the kit;
- c) The kit complies with 6.1.3 c), e), and f);
- d) The kit contains all required hardware; and
- e) Instructions for the use of barriers and/or jumpers are permanently marked on the switch for each of the different configurations. In lieu of applying all markings to the switch, a separate document shall be included with the switch and the switch shall be marked with a permanently affixed label that reads: "For the proper configuration of connections of the terminals, refer to Publication No. _____ provided with this switch. If additional information is necessary, contact _____ (switch manufacturer's name)." The document shall include:
 - a) The switch manufacturer's name and type designation or equivalent;
 - b) Publication number and date or equivalent;
 - c) Switch electrical ratings, number of poles; and
 - d) A schematic of each of the intended wiring configurations for each marked rating.

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BSR/UL 746B, Standard for Polymeric Materials – Long Term Property Evaluations

1. Addition of Requirements for Handling Low Correlation Times

13.1 At least four oven temperatures are to be selected. The lowest oven temperature (T4) selected is to produce an anticipated end point of the material's property at this temperature in not less than 5,000 hours and shall not be lower than the Relative Thermal Index (RTI) ultimately assigned. The highest oven temperature (T1) selected is to produce an anticipated end point of the material's property at this temperature in not less than 500 hours. The minimum aging time criterion is applicable for each primary property evaluated. See Table 13.1.

Table 13.1

Selection of oven temperatures

Test temperature (°C)	t1 (highest)	t2	t3	t4 (lowest)
				<u>Shall not be lower than the expected/assigned RTI of Candidate</u>
End Point (Hours)	500 min.	1,500 approx.	3,000 approx.	5,000 min.
Cycle Period ^a Days	3	7	14	28
^a See 15.2.				

19.13 **Note from the STP Project Manager: This proposal does not specify a revision of this requirement. This paragraph is provided for reference only.** The time-temperature plot of the material under investigation crosses the 60,000-hour line at a temperature of 140°C (284°F). Therefore the material can reasonably be expected to be as useful at a temperature of 140°C (284°F) as the control material is at 100°C (212°F).

19.14 In the absence of comparison data for a control material, it might be difficult to correlate the long-time-endurance program with actual service conditions. Although there is some evidence to show that an arbitrary life of 60,000 hours under this long-time program can be assumed when determining a relative thermal index, until this correlation is more definitely established, a longer value of time is to be assumed. In place of applicable control data, an extrapolated life of 100,000 hours is to be used to assign the relative thermal index Since the correlation time of the Control material at which the RTI of the Candidate material is determined can vary for different material

types and for different properties, the criteria mentioned in Table 19.1 shall be used to assign RTI ratings for the candidate material.

19.15 ~~In considering the usefulness of the relative thermal index in the example given in Figure 19.1, consideration is to be given to the properties that are evaluated in the program. If the properties being stressed in the end-product are also considered in arriving at the general-use thermal index, the relative thermal index resulting from this analysis is valid and can be used in the evaluation of the material in the end product. If the property being stressed in the end product is not evaluated in the long-term-aging program, the relative thermal index might not be applicable to the use of the material in that particular application.~~ In the absence of comparison data for a control material, it might be difficult to correlate the long-time-endurance program with actual service conditions. There is some evidence to show that an arbitrary life of 60,000 hours under this long-time program can be assumed when determining a relative thermal index. Examination of correlation factors from prior RTI determinations indicate 60,000 hours to be a reasonable upper bound on correlation time. In place of applicable control data, an extrapolated life of 60,000 hours or an extrapolated life of 20,000 hours (applicable only to the method for Electrical insulating materials - Thermal endurance properties - Part 3: Instructions for calculating thermal endurance characteristics, IEC 60216-3) is to be used to assign the relative thermal index (RTI) or thermal index (TI) respectively. In cases where the correlation time for the control material is higher than 60,000 hours, an extrapolated life of 60,000 hours is to be used to assign the relative thermal index..

19.16 ~~In considering the example shown in Figure 19.1, it is possible that more than one temperature rating can result from analysis of the data accumulated during the long-time investigation. In the example described in 19.11 the most critical property being investigated is impact strength and the general-use relative thermal index of 140°C (284°F) is applicable to all applications involving all of the properties investigated, including impact strength. However, there can be applications of this material in which impact strength is not a critical property, such as in an application in which the material is shielded from mechanical abuse as is the case for some insulating materials, terminal boards, wire connectors, etc. In that event, a time-temperature plot could be made for the unknown material considering all properties except impact strength. In such an example, it might be possible to have a relative thermal index of, say 155°C (311°F), for applications in which impact strength is not a critical property and 140°C (284°F) for applications in which impact strength is required.~~ In considering the usefulness of the relative thermal index in the example given in Figure 19.1, consideration is to be given to the properties that are evaluated in the program. If the properties being stressed in the end-product are also considered in arriving at the general-use thermal index, the relative thermal index resulting from this analysis is valid and can be used in the evaluation of the material in the end product. If the property being stressed in the end product is not evaluated in the long-term-aging program, the relative thermal index might not be applicable to the use of the material in that particular application.

19.17 ~~Care is to be exercised in the use of any general-use relative thermal index achieved by the method of analysis described in this standard. If it is felt that the end-product application of the material involves unusual service conditions, the acceptability of the material at the relative thermal index is judged by this method is to be reviewed. If~~

service conditions associated with an end-product application are less severe than those considered in arriving at the relative thermal index, higher operating temperatures may be acceptable. In considering the example shown in Figure 19.1, it is possible that more than one temperature rating can result from analysis of the data accumulated during the long-time investigation. In the example described in 19.11 the most critical property being investigated is impact strength and the general-use relative thermal index of 140°C (284°F) is applicable to all applications involving all of the properties investigated, including impact strength. However, there can be applications of this material in which impact strength is not a critical property, such as in an application in which the material is shielded from mechanical abuse as is the case for some insulating materials, terminal boards, wire connectors, etc. In that event, a time-temperature plot could be made for the unknown material considering all properties except impact strength. In such an example, it might be possible to have a relative thermal index of, say 155°C (311°F), for applications in which impact strength is not a critical property and 140°C (284°F) for applications in which impact strength is required.

19.18 Care is to be exercised in the use of any general-use relative thermal index achieved by the method of analysis described in this standard. If it is felt that the end-product application of the material involves unusual service conditions, the acceptability of the material at the relative thermal index is judged by this method is to be reviewed. If service conditions associated with an end-product application are less severe than those considered in arriving at the relative thermal index, higher operating temperatures may be acceptable.

Table 19.1

Criteria for assigning candidate RTIs based on control correlation time

<u>Control correlation time (hours)</u>	<u>Candidate RTI assigned at</u>
<u>< 5000</u>	<u>5000 hours</u>
<u>5000 - 60000</u>	<u>Corresponding Correlation Time</u>
<u>> 60000</u>	<u>60000</u>
<u>No Control (only candidate)</u>	<u>60000 hours (or 20000 hours for TI)^a</u>
<u>^a - Requires data linearity validation according to Electrical insulating materials - Thermal endurance properties - Part 3: Instructions for calculating thermal endurance characteristics, IEC 60216-3.</u>	