ANSI STANDARDS ACTION

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Contents

American National Standards

Call for comment on proposals listed

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

Ordering Instructions for "Call-for-Comment" Listings

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

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

* Standard for consumer products

ISSN 0038-9633

Comment Deadline: March 3, 2019

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

Addenda

BSR/ASHRAE/IES Addendum 90.1bx-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2016)

Appendix A contains F-factors for heated slabs, but does not include combinations of perimeter insulation that has a different R-Value than the under-slab insulation. This addenda adds heated slab F-factors for multiple combinations of under-slab and perimeter insulation. These values were derived from a regression of the current heated slab F-factors for fully insulated, uninsulated, and 12" vertical perimeter insulation taken from Table A6.3.1, Assembly F-Factors for Slab-on-Grade Floors.

Click here to view these changes in full

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

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

This ISC would limit the use of the "Section 7.4.1.1.2, Alternate Renewables Approach: Reduced On-Site Renewable Energy Systems and Higher-Efficiency Equipment" to building projects that are less than 25,000 square feet. This threshold is the same as that for the simplified mechanical system approach for compliance with ASHRAE 90.1, which is also 25,000 square feet. Larger buildings will be able to comply with the standard by either complying prescriptively to the onsite renewables requirements in Section 7.4.1.1.1 or calculating trade-offs between energy efficiency and on-site renewables by using the performance approach in Section 7.5.

Click here to view these changes in full

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

ASME (American Society of Mechanical Engineers)

Revision

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

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

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Erika Lawson, (212) 591-8094, lawsone@asme.org

NSF (NSF International)

Revision

BSR/NSF 50-201x (i151r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF 50-2017)

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

Click here to view these changes in full

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

BSR/NSF 51-201x (i16r2), Food Equipment Materials (revision of ANSI/NSF 51-2017)

This Standard is applicable to the materials and finishes used in the manufacture of food equipment (e.g., broiler, beverage dispenser, cutting board, stock pot). The Standard is also applicable to components such as tubing, sealants, gaskets, valves, and other items intended for various food equipment applications.

Click here to view these changes in full

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

BSR/NSF 170-201x (i21r6), Glossary of Food Equipment Terminology (revision of ANSI/NSF 170-2017)

Definitions covered by this Standard consist of terminology related to food equipment, including terms describing equipment, materials, design, construction, and performance testing. This Standard includes common definitions of terms used throughout NSF Food Equipment and Sanitation Standards.

Click here to view these changes in full

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

RVIA (Recreational Vehicle Industry Association)

Revision

BSR/RVIA UPA-1-201x, Uniform Plan Approval Recreational Vehicles (revision of ANSI/RVIA UPA-1-2014)

This standard covers minimum plan approval requirements to ensure a reasonable degree of safety and health for occupants using recreational vehicles, and covers what must be submitted to the respective Authorities Having Jurisdiction (AHJs), that have standards oversight compliance responsibilities in the approval process on the construction of recreational vehicles.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Kent Perkins, kperkins@rvia.org

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 746E-201x, Standard for Safety for Polymeric Materials - Industrial Laminates, Filament Wound Tubing, Vulcanized Fibre, and Materials Used In Printed-Wiring Boards (revision of ANSI/UL 746E-2017)

This proposal for UL 746E covers changes to the following topics based on comments received: Clarification of the term “Industrial Laminate”; and Addition of requirement for sample stabilization period.

Click here to view these changes in full

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

BSR/UL 796-201x, Standard for Safety for Printed-Wiring Boards (revision of ANSI/UL 796-2016)

This proposal for UL 796 covers changes to the following topics based on comments received: Addition of a definition for Hybrid Printed Wiring Board; Clarification of the term “Industrial Laminate”; Clarification of the term “Sample”; Clarification of metal clad bond/delamination requirement; Clarification of direct support requirement; Reorganization of Sections 28 and 30; and Clarification of Delamination test.

Click here to view these changes in full

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

BSR/UL 844-201X, Standard for Safety for Luminaires for Use in Hazardous (Classified) Locations (revision of ANSI/UL 844-2017)

This proposal includes revisions to add new 20.2A for Non-Drying Thickened Mineral-Oil-Based Thread Sealant.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Vickie Hinton, (919) 549-1851, Vickie.T.Hinton@ul.com

BSR/UL 1240-201x, Standard for Safety for Electric Commercial Clothes-Drying Equipment (proposal dated 2/1/19) (revision of ANSI/UL 1240-2019)

(1) Direct Current (DC) Electric Strength Test potentials.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Ross Wilson, (919) 549-1511, Ross.Wilson@ul.com

BSR/UL 2225-201X, Standard for Safety for Cables and Cable-Fittings for Use in Hazardous (Classified) Locations (revision of ANSI/UL 2225-2018)

This proposal includes revisions to add new 19.2A for Non-Drying Thickened Mineral Oil-Based Thread Sealant.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Vickie Hinton, (919) 549-1851, Vickie.T.Hinton@ul.com

Comment Deadline: March 18, 2019

AAMI (Association for the Advancement of Medical Instrumentation)

Revision

BSR/AAMI ST72-201x, Bacterial endotoxins - Test methods, routine monitoring, and alternatives to batch testing (revision of ANSI/AAMI ST72-2011 (R2016))

Specifies general criteria to be applied in the determination of bacterial endotoxins (pyrogens) on sterilized or sterilizable healthcare products, components, or raw materials. Endotoxin methodologies covered include both qualitative (limit) methods and quantitative (end-point) methods. Excludes determination of pyrogens other than bacterial endotoxins.

Single copy price: Free

Obtain an electronic copy from: https://standards.aami.org/higherlogic/ws/public/document?document_id=16024&wg_id=PUBLIC_REV

Send comments (with copy to psa@ansi.org) to: Jennifer Moyer; jmoyer@aami.org

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

Addenda

BSR/ASHRAE/IES Addendum 90.1bw-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2016)

This addendum revises LPD values for the building area method. The building area method is an alternate method in addition to the space-by-space method. It does not save energy because the energy savings have already been accounted for in the space-by-space method. This addendum does not have cost implications because costs of updating lighting power density allowances were addressed in Addendum BB.

Single copy price: $35.00

Obtain an electronic copy from: standards.section@ashrae.org

Order from: 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

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

Addendum bm adds the option under the energy performance path in Standard 189.1 of modeling district energy systems that are not wholly contained within the project site boundary. This independent substantive change to the addendum makes changes to the language intended to improve clarity and correct some errors contained in the 2nd public review ISC version.

Single copy price: $35.00

Obtain an electronic copy from: standards.section@ashrae.org

Order from: 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

ASME (American Society of Mechanical Engineers)

Revision

BSR/ASME B30.3-201x, Tower Cranes (revision of ANSI/ASME B30.3-2016)

Within the general scope of the B30 Standard, as defined in Section I of the B30 Standard Introduction, the B30.3 Volume applies to "construction tower cranes" and "permanently mounted tower cranes" that are powered by electric motors or internal combustion engines and that adjust their operating radius by means of a luffing boom mechanism, a trolley traversing a horizontal jib, or a combination of the two.

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: Kathleen Peterson, (800) 843-2763, petersonk@asme.org

ASSP (Safety) (American Society of Safety Professionals)

New Standard

BSR/ASSP Z490.2-201X, Accepted Practices for E-learning in Safety, Health and Environmental Training (new standard)

This standard establishes criteria for safety, health and environmental virtual training programs, including program management, development, delivery, evaluation, and documentation. The purpose of this standard is to provide criteria for accepted practices for safety, health, and environmental training programs including development, delivery, evaluation, and program management, which are delivered via virtual means. This standard is recommended for application by virtual training providers of safety, health, and environmental training. If any of the provisions of this standard are not applicable, the other requirements of the standard shall still apply. This standard applies to all occupational safety, health, or environmental training, whether separate or a part of other training being given on a virtual basis.

Single copy price: $110.00

Obtain an electronic copy from: ASSP

Order from: LBauerschmidt@assp.org

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

ATIS (Alliance for Telecommunications Industry Solutions)

Revision

BSR/ATIS 0100012-201x, Standard Outage Classification (revision of ANSI ATIS 0100012-2013)

This Standard provides a standard on the classification of outages for use by the telecommunications industry.

Single copy price: $110.00 for electronic download; 0 for members

Obtain an electronic copy from: https://www.atis.org/docstore/product.aspx?id=22781

Order from: https://www.atis.org/docstore/product.aspx?id=22781

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

AWS (American Welding Society)

New Standard

BSR/AWS D16.2M/D16.2-201X, Guide for Components of Robotic and Automatic Arc Welding Installations (new standard)

This document applies to the recommended design, integration, installation, and use of industrial welding robotic and automatic systems. This document is intended for the gas metal arc welding (GMAW), gas tungsten arc welding (GTAW), plasma arc welding (PAW), and flux-cored arc welding (FCAW) processes. Pertinent parts may address additional welding processes. Robotic and automatic arc welding systems consist of a manipulator, power source, arc welding torch and accessories, electrode feed system, wire delivery system, shielding gas delivery system, welding circuit, shielding and communication control, and grounding system. There may be other accessories that are outside the scope of this document, such as safety devices and monitoring, joint-tracking, and vision systems. A typical system is illustrated in Figure 1 in the standard.

Single copy price: $68.00

Obtain an electronic copy from: pportela@aws.org

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

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

AWS (American Welding Society)

Revision

BSR/AWS D14.4/D14.4M-201X, Specification for the Design of Welded Joints in Machinery and Equipment (revision of ANSI/AWS D14.4/D14.4M-2012)

This specification establishes common acceptance criteria for classifying and applying carbon and low-alloy steel welded joints used in the manufacture of machines and equipment. It also covers weld joint design, workmanship, quality control requirements and procedures, weld joint inspection nondestructive testing, repair of weld defects, and postweld treatment.

Single copy price: $40.50

Obtain an electronic copy from: kbulger@aws.org

Send comments (with copy to psa@ansi.org) to: Kevin Bulger; kbulger@aws.org

BHMA (Builders Hardware Manufacturers Association)

Revision

BSR/BHMA A156.27-201x, Standard for Power and Manual Operated Revolving Pedestrian Doors (revision of ANSI/BHMA A156.27 -2010)

Requirements in this standard apply to power-operated revolving-type doors which rotate automatically when approached by pedestrians, some small vehicular use, and manual revolving-type doors for pedestrians. Included are provisions to reduce the chance of user injury and entrapment.

Single copy price: $36.00

Obtain an electronic copy from: mtierney@kellencompany.com

Order from: Michael Tierney, (860) 944-4264□, mtierney@kellencompany.com

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

BSR/BHMA A156.31-201x, Standard for Electric Strikes and Frame Mounted Actuators (revision of ANSI/BHMA A156.31-2013)

ANSI/BHMA A156.31 establishes requirements for Electric Strikes and Frame Mounted Actuators, and includes operational and finish tests.

Single copy price: $36.00

Obtain an electronic copy from: mtierney@kellencompany.com

Order from: Michael Tierney, (860) 944-4264□, mtierney@kellencompany.com

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

BICSI (Building Industry Consulting Service International)

New Standard

BSR/BICSI 009-201x, Data Center Operations and Maintenance Best Practices (new standard)

This standard provides requirements, recommendations, and best practices for the operation and maintenance of data centers including but not limited to standard operating procedures, emergency operating procedures, maintenance, governance, and management.

Single copy price: Free

Obtain an electronic copy from: jsilveira@bicsi.org

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

CSA (CSA Group)

Revision

BSR Z21.21-201x, Automatic Valves for Gas Appliances (same as CSA 6.5-201x) (revision of ANSI Z21.21-2015)

Details test and examination criteria for automatic valves, which may be individual automatic valves, or valves utilized as part of automatic gas ignition systems. It also applies to commercial/industrial safety shutoff valves. This standard applies to automatic valves having maximum operating gas pressure ratings from 1/2 to 60 psi (3.5 to 413.7kPa); and C/I valves with ratings of 1/2 psi (3.5 kPa) or greater.

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

ECIA (Electronic Components Industry Association)

Revision

BSR/EIA 364-29D-201x, Contact Retention Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364 -29C-2006 (R2013))

This standard establishes a test method to impose axial forces on the connector contacts to determine the ability of the connector to withstand forces that tend to displace contacts from their proper location within the connector insert and resist contact pullout. These forces may be the result of:

- loads on wire connected to the contacts;
- forces required to restrict contact push-through during assembly of removable-type contacts into connector inserts;
- forces produced by mating contacts during connector mating;
- dynamic forces produced by vibration and shock during normal use of the connectors; and
- forces relating to bundling strains on the wire.

Single copy price: $78.00

Obtain an electronic copy from: https://global.ihs.com/

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

Send comments (with copy to psa@ansi.org) to: Ed Mikoski, emikoski@ecianow.org

NFPA (National Fire Protection Association)

The National Fire Protection Association announces the availability of NFPA Annual 2019 Second Draft Report for concurrent review and comment by NFPA and ANSI. The disposition of all comments received are published in the Second Draft Report, located on the document's information page under the next edition tab. The document's specific URL, www.nfpa.org/doc#next (for example ww.nfpa.org/101next), can easily access the document's information page. All Notices of Intent to Make A Motion on the 2019 Annual Revision Cycle Second Draft Report must be received by February 21, 2019.
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 1082-201x, Standard for Building Fire and Life Safety Director Professional Qualifications (new standard)

This standard identifies the minimum job performance requirements (JPRs) for Building Fire and Life Safety Directors.

Obtain an electronic copy from: www.nfpa.org/1082next

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

NFPA (National Fire Protection Association)

New Standard

BSR/NFPA 1300-201x, Standard on Community Risk Assessment and Community Risk Reduction Plan Development (new standard)

This standard shall have primary responsibility for requirements on the process to conduct a community risk assessment (CRA) and to develop, implement, and evaluate a CRR plan. Conducting a CRA and developing a CRR plan involve a community as defined by the AHJ. This standard contains minimum requirements for conducting a CRA, developing and implementing a CRR plan, and the ongoing evaluation of the CRR plan. This standard identifies strategic and policy issues involving the organization and deployment of a CRR program.

Obtain an electronic copy from: www.nfpa.org/1300next

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

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 55-201x, Compressed Gases and Cryogenic Fluids Code (revision of ANSI/NFPA 55-2016)

This code shall apply to the installation, storage, use, and handling of compressed gases and cryogenic fluids in portable and stationary cylinders, containers, equipment, and tanks in all occupancies.

Obtain an electronic copy from: www.nfpa.org/55next

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

BSR/NFPA 302-201x, Fire Protection Standard for Pleasure and Commercial Motor Craft (revision of ANSI/NFPA 302-2015)

Establishes minimum requirements for prevention of fire and explosion, mitigation of carbon monoxide hazards, and life safety in case of fire, on boats in Section 1.3. Establishes minimum requirements for: (1) Elimination of ignition sources; (2) Ventilation of accommodation spaces, fuel tank compartments (if separate from machinery spaces), and machinery spaces; (3) Use of combustible materials; (4) Fire-extinguishing equipment and fire exits; (5) Control of fire-extinguishing agents in machinery spaces; and (6) Mitigation of carbon monoxide hazards from all sources.

Obtain an electronic copy from: www.nfpa.org/302next

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

BSR/NFPA 405-201x, Standard for the Recurring Proficiency of Airport Fire Fighters (revision of ANSI/NFPA 405-2015)

This standard contains the required performance criteria by which an authority having jurisdiction over aircraft rescue and fire fighting (ARFF) maintains proficiency and effective ARFF at airports.

Obtain an electronic copy from: www.nfpa.org/405next

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

BSR/NFPA 412-201x, Standard for Evaluating Aircraft Rescue and Fire-Fighting Foam Equipment (revision of ANSI/NFPA 412-2014)

This standard establishes test procedures for evaluating the foam fire-fighting equipment installed on aircraft rescue and fire-fighting vehicles designed in accordance with NFPA 414.

Obtain an electronic copy from: www.nfpa.org/412next

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

BSR/NFPA 414-201x, Standard for Aircraft Rescue and Fire-Fighting Vehicles (revision of ANSI/NFPA 414-2017)

This standard specifies the minimum design, performance, and acceptance criteria for aircraft rescue and firefighting (ARFF) vehicles intended to transport personnel and equipment to the scene of an aircraft emergency for the purpose of rescuing occupants and conducting rescue and fire-fighting operations.

Obtain an electronic copy from: www.nfpa.org/414next

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

BSR/NFPA 820-201x, Standard for Fire Protection in Wastewater Treatment and Collection Facilities (revision of ANSI/NFPA 820 -2016)

This standard shall establish minimum requirements for protection against fire and explosion hazards in wastewater treatment plants and associated collection systems, including the hazard classification of specific areas and processes.

Obtain an electronic copy from: www.nfpa.org/820next

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

BSR/NFPA 1452-201x, Guide for Training Fire Service Personnel to Conduct Community Risk Reduction (revision of ANSI/NFPA 1452-2015)

Provides fire-department training officers or other fire service personnel with a guide for the establishment of a community fire safety program for dwellings. To be effective and to adequately deal with local fire problems, the solution to a particular fire safety problem should be developed locally. This document is intended to be a basic guide to possible elements for inclusion in a locally developed program.

Obtain an electronic copy from: www.nfpa.org/1452next

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

BSR/NFPA 1720-201x, Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations and Special Operations to the Public by Volunteer Fire Departments (revision of ANSI/NFPA 1720-2014)

This standard contains minimum requirements relating to the organization and deployment of fire suppression operations, emergency medical operations, and special operations to the public by volume and combination fire department. These requirements address functions and outcomes of fire-department emergency service delivery, response capabilities, and resources. Also contains minimum requirements for managing resources and systems, such as health and safety, incident management, training, communications, and preincident planning. Addresses the strategic and system issues involving the organization, operation, and deployment of a fire department and does not address tactical operations at a specific emergency incident.

Obtain an electronic copy from: www.nfpa.org/1720next

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

BSR/NFPA 1961-201x, Standard on Fire Hose (revision of ANSI/NFPA 1961-2013)

This standard shall define the design and construction requirements for new fire hose, the testing required to verify the design and construction, and the inspection and testing required of all new fire hose.

Obtain an electronic copy from: www,nfpa.org/1961next

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

NSF (NSF International)

New Standard

BSR/NSF 385-201x (i1r8), Disinfection Mechanics (new standard)

This Standard is intended for use with devices intended to disinfect wastewater after secondary treatment and prior to discharge from residential wastewater treatment systems having rated treatment capacities between 757 L/day (200 gal/day) and 5678 L/day (1500 gal/day) or commercial wastewater treatment systems having a rated treatment capacity exceeding 5678 L/day (1500 gal/day). This also applies to devices intended to be used in water reclamation and reuse. Specific requirements exist for construction and testing of individual disinfection devices based on the specific technology used by the device. All devices are required to be tested against the same influent challenge water and to produce the same effluent quality in accordance with 1.5. Devices shall be tested against the effluent requirements of this Standard unless the manufacturer requests certification under an effluent standard in NSF/ANSI 350 which is more stringent than this Standard.

Single copy price: Free

Obtain an electronic copy from: https://standards.nsf.org/apps/group_public/download.php/46358/385i1r8%20JC%20Memo%20and%20Ballot.pdf

Order from: Jason Snider, (734) 418-6660, jsnider@nsf.org

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

SCTE (Society of Cable Telecommunications Engineers)

New Standard

BSR/SCTE 214-04-201x, MPEG DASH for IP-Based Cable Services - Part 4: CIF (Common Interface Format) (new standard)

The purpose of this document is to describe the Common Intermediate Format MPD including its elements, attributes, and values. The CIF MPD or CIF manifest is created from the parsing of an MPEG Transport Stream that is marked up and conditioned for virtual segmentation. A downstream device such as a packager can then use the CIF MPD to request and extract segments that can be modified to support various types of adaptive streaming technologies in the client.

Single copy price: $50.00

Obtain an electronic copy from: admin@standards.scte.org

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

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

BSR/SCTE 215-1-1-201x, HEVC Video Constraints for Cable Television - Part 1-1: HDR10 Coding (new standard)

This document defines the additional coding constraints on SCTE 215-1 HDR video streams using an HDR10 format.

Single copy price: $50.00

Obtain an electronic copy from: admin@standards.scte.org

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

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

SCTE (Society of Cable Telecommunications Engineers)

Revision

BSR/SCTE 215-01-201x, HEVC Video Constraints for Cable Television - Part 1: Coding (revision and redesignation of ANSI/SCTE 215-1-2015)

This document defines the coding constraints on ITU-T Rec. H.265 | ISO/IEC 23008-2 video compression (hereafter called "HEVC") for Cable Television. In particular, this document describes the coding of a single HEVC coded video elementary stream carried in MPEG-2 transport (ISO/IEC 13818-1) for linear delivery systems supporting ad insertion services. Beyond linear delivery with DPI, signaling is provided for segmentation of content for xDVR applications.

Single copy price: $50.00

Obtain an electronic copy from: admin@standards.scte.org

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

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

BSR/SCTE 215-2-201x, HEVC Video Constraints for Cable Television - Part 2: Transport (revision of ANSI/SCTE 215-2-2015)

This document defines the transport constraints on ITU-T Rec. H.265 | ISO/IEC 23008-2 video compression (hereafter called "HEVC") for Cable Television. In particular, this document describes the transmission of a single HEVC-coded video elementary stream constrained per SCTE 215-1 over MPEG-2 transport (ISO/IEC 13818-1) for linear delivery systems supporting ad insertion services. Beyond linear delivery with DPI, signaling is provided for segmentation of contents for xDVR applications.

Single copy price: $50.00

Obtain an electronic copy from: admin@standards.scte.org

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

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

BSR/SCTE 223-201x, Adaptive Transport Stream (revision of ANSI/SCTE 223-2017)

There are a variety of Adaptive Streaming wire formats. Some are based on an MPEG-2 Transport Stream container such as HLS (HTTP Live Streaming: Apple) and others on a fragmented MP4 container such as HSS (HTTP Smooth Streaming: Microsoft), and HDS (HTTP Dynamic Streaming: Adobe); whereas DASH (Dynamic Adaptive Streaming over HTTP: MPEG) supports both containers. While different, they utilize common video and audio compression formats; namely: ISO/IEC 14496-10 (AVC) and ISO/IEC 14496-3 (AAC). Additional audio formats, such as Dolby Digital Plus and DTS-HD, may also be supported by these or a subset of these Adaptive Bit Rate (ABR) formats.

Single copy price: $50.00

Obtain an electronic copy from: admin@standards.scte.org

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

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

UAMA (ASC B7) (Unified Abrasives Manufacturers' Association)

Reaffirmation

BSR B7.7-2003 (R201x), Safety Requirements for Abrading Materials with Coated Abrasive Systems (reaffirmation of ANSI B7.7-2003 (R2011))

This standard establishes the minimum safety requirements related to the usage of coated abrasive forms. The requirements apply to all hand-held and fixed mounted machine operations that use some form of coated abrasive product, and to safety-related maintenance precautions for the machines and machine parts. This standard also contains safety requirements pertinent to operator and bystander protection, dust collection, and potentially hazardous environmental conditions.

Single copy price: $10.00

Obtain an electronic copy from: sab@wherryassoc.com

Order from: sab@wherryassoc.com

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

UL (Underwriters Laboratories, Inc.)

New National Adoption

BSR/UL 60079-13-201X, Standard for Safety for Explosive Atmospheres - Part 13: Equipment protection by pressurized room “p” and artificially ventilated room “v” (national adoption with modifications of IEC 60079-13)

Adoption of IEC 60079-13, Explosive Atmospheres - Part 13: Equipment protection by pressurized room “p” and artificially ventilated room “v”, (second edition, issued by IEC May 2017) as a new IEC-based UL standard, UL 60079-13 with US Differences.

Single copy price: Free

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

Send comments (with copy to psa@ansi.org) to: Vickie Hinton, (919) 549-1851, Vickie.T.Hinton@ul.com

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 1777-2009a (R201x), Standard for Safety for Chimney Liners (reaffirmation of ANSI/UL 1777-2009a (R2014))

These requirements cover metallic and nonmetallic chimney liners intended for field-installation into new or existing masonry chimneys that are used for the natural draft venting of Category I gas-fired, Type L vented oil-fired, and solid-fuel-fired residential-type appliances in which the maximum continuous flue-gas outlet temperatures do not exceed 1000°F (538°C). Chimney liners are intended to be installed in existing masonry chimneys with or without a liner of fire-clay tile, or to be used as a substitute for masonry fire-clay tile flue liners in new chimneys. Chimney liners are intended to be installed in accordance with the Standard for Chimneys, Fireplaces, Vents, and Solid Fuel Burning Appliances, NFPA 211; National Fuel Gas Code, NFPA 54; and codes such as the International Building Code, International Gas Code, International Mechanical Code, International Residential Code, and the Uniform Mechanical Code. Chimney liners as covered by these requirements are not intended for use with Category II, III, or IV gas burning appliances as defined by the National Fuel Gas Code, NFPA 54, or other appliances that result in condensation of corrosive acids on the liner of the chimney, or that create positive pressures in the chimney system. Chimney liners with cementitious or refractory flue gas conveying conduits shall be evaluated and marked in accordance with the solid-fuel-fired-appliance sections of the requirements.

Single copy price: Free

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

Send comments (with copy to psa@ansi.org) to: Gillian Wintonic, (613) 368-4427, Gillian.Wintonic@ul.com

VITA (VMEbus International Trade Association (VITA))

New Standard

BSR/VITA 47.0-201x, Construction, Safety, and Quality for Plug-In Modules Standard (new standard)

The VITA 47 group of standards defines environmental, design and construction, safety, and quality requirements for commercial-off-the-shelf (COTS) plug-in modules intended for ground and aerospace applications.

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

VITA (VMEbus International Trade Association (VITA))

Reaffirmation

BSR/VITA 42.3-2014 (R201x), XMC PCI Express Protocol Layer Standard (reaffirmation of ANSI/VITA 42.3-2014)

This standard describes a method for implementing PCI Express on the VITA 42.0, XMC mezzanine form factor.

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

Projects Withdrawn from Consideration

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

APTech (ASC CGATS) (Association for Print Technologies)

BSR CGATS.7-2003 (R201x), Graphic technology - Pallet loading for printed materials (reaffirmation of ANSI CGATS.7-2003 (R2013))

Inquiries may be directed to Debra Orf, (703) 264-7200, dorf@aptech.org

ASME (American Society of Mechanical Engineers)

BSR/ASME Y14.26-201x, The Initial Graphics Exchange Specification (IGES) (Version 6.0) (new standard)
Inquiries may be directed to Mayra Santiago, ASME; ANSIBOX@asme.org

NSF (NSF International)

ANSI/NSF 418-2014 (i2r1), Residential Wastewater - Effluent Filters Longevity Testing (withdrawal of ANSI/NSF 418-2014 (i1r1))
Inquiries may be directed to Jason Snider, (734) 418-6660, jsnider@nsf.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.

AAMI (Association for the Advancement of Medical Instrumentation)

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

Contact: *Jennifer Moyer*

Phone: (703) 253-8274

E-mail: jmoyer@aami.org

BSR/AAMI ST72-201x, Bacterial endotoxins - Test methods, routine monitoring, and alternatives to batch testing (revision of ANSI/AAMI ST72-2011 (R2016))

BSR/AAMI/ISO 15223-01/Ed.4-201x, Medical devices - Symbols to be used with medical device labels, labeling, and information to be supplied - Part 1: General requirements (identical national adoption of ISO 15223-01/Ed.4 and revision of ANSI/AAMI/ISO 15223-01/Ed.3 -201x and ANSI/AAMI/ISO 15223-1:2016)

ASSP (Safety) (American Society of Safety Professionals)

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

Contact: *Lauren Bauerschmidt*

Phone: (847) 768-3475

E-mail: LBauerschmidt@assp.org

BSR/ASSP Z490.2-201X, Accepted Practices for E-learning in Safety, Health and Environmental Training (new standard)

AWS (American Welding Society)

Office: 8669 Doral Blvd
Suite 130
Doral, FL 33166

Contact: *Kevin Bulger*

Phone: (800) 443-9353 xt306

E-mail: kbulger@aws.org

BSR/AWS D14.4/D14.4M-201X, Specification for the Design of Welded Joints in Machinery and Equipment (revision of ANSI/AWS D14.4/D14.4M-2012)

BSR/AWS D16.2M/D16.2-201X, Guide for Components of Robotic and Automatic Arc Welding Installations (new standard)

BHMA (Builders Hardware Manufacturers Association)

Office: 355 Lexington Avenue, 15th Floor
15th Floor
New York, NY 10017-6603

Contact: *Michael Tierney*

Phone: (860) 944-4264

E-mail: mtierney@kellencompany.com

BSR/BHMA A156.27-201x, Standard for Power and Manual Operated Revolving Pedestrian Doors (revision of ANSI/BHMA A156.27-2010)

BSR/BHMA A156.31-201x, Standard for Electric Strikes and Frame-Mounted Actuators (revision of ANSI/BHMA A156.31-2013)

CTA (Consumer Technology Association)

Office: 1919 South Eads Street
Arlington, VA 22202

Contact: *Veronica Lancaster*

Phone: (703) 907-7697

E-mail: vlancaster@cta.tech

BSR/CTA 766-D-2013 (R201x), U.S. and Canadian Rating Region Tables (RRT) and Content Advisory Descriptors for Transport of Content Advisory Information Using ATSC Program and System Information Protocol (PSIP) (reaffirmation of ANSI/CTA 766-D-2013)

ECIA (Electronic Components Industry Association)

Office: 13873 Park Center Road
Suite 315
Herndon, VA 20171

Contact: *Laura Donohoe*

Phone: (571) 323-0294

E-mail: ldonohoe@ecianow.org

BSR/EIA 364-29D-201x, Contact Retention Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364-29C-2006 (R2013))

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 (i151r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF 50-2017)

BSR/NSF 51-201x (i16r2), Food Equipment Materials (revision of ANSI/NSF 51-2017)

BSR/NSF 170-201x (i21r6), Glossary of Food Equipment Terminology (revision of ANSI/NSF 170-2017)

BSR/NSF 385-201x (i1r8), Disinfection Mechanics (new standard)

TAPPI (Technical Association of the Pulp and Paper Industry)

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

Contact: *Priscila Briggs*

Phone: (770) 209-7249

E-mail: standards@tappi.org

BSR/TAPPI T 455 sp-2014 (R201x), Identification of wire side of paper (reaffirmation of ANSI/TAPPI T 455 sp-2014)

BSR/TAPPI T 511 om-2013 (R201x), Folding endurance of paper (MIT tester) (reaffirmation of ANSI/TAPPI T 511 om-2013)

BSR/TAPPI T 569 om-2014 (R201x), Internal bond strength (Scott type) (reaffirmation of ANSI/TAPPI T 569 om-2014)

UAMA (ASC B7) (Unified Abrasives Manufacturers' Association)

Office: 30200 Detroit Road
Cleveland, OH 44145-1967

Contact: *Donna Haders*

Phone: (440) 899-0010

E-mail: djh@wherryassoc.com

BSR B7.7-2003 (R201x), Safety Requirements for Abrading Materials with Coated Abrasive Systems (reaffirmation of ANSI B7.7-2003 (R2011))

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 42.3-2014 (R201x), XMC PCI Express Protocol Layer Standard (reaffirmation of ANSI/VITA 42.3-2014)

BSR/VITA 47.0-201x, Construction, Safety, and Quality for Plug-In Modules Standard (new standard)

BSR/VITA 62.2-201x, Modular Power Supply Standard for 270v Applications (new standard)

BSR/VITA 74.4-201x, SpaceVNX (new standard)

Call for Members (ANS Consensus Bodies)

Call for Committee Members

ASC O1 – Safety Requirements for Woodworking Machinery

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

- General Interest
- Government
- Producer
- User

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

Final Actions on American National Standards

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

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

Addenda

ANSI/ASHRAE Addendum a to ANSI/ASHRAE Standard 161-2018, Air Quality within Commercial Aircraft (addenda to ANSI/ASHRAE Standard 161-2018): 1/17/2019

ANSI/ASHRAE Addendum a to ANSI/ASHRAE Standard 188-2018, Legionellosis: Risk Management for Building Water Systems (addenda to ANSI/ASHRAE Standard 188-2015): 1/17/2019

ANSI/ASHRAE Addendum b to ANSI/ASHRAE Standard 161-2018, Air Quality within Commercial Aircraft (addenda to ANSI/ASHRAE Standard 161-2018): 1/17/2019

ANSI/ASHRAE Addendum c to ANSI/ASHRAE Standard 161-2018, Air Quality within Commercial Aircraft (addenda to ANSI/ASHRAE Standard 161-2018): 1/17/2019

ANSI/ASHRAE Addendum q to ANSI/ASHRAE Standard 34-2016, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2016): 1/17/2019

ANSI/ASHRAE Addendum r to ANSI/ASHRAE Standard 34-2016, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2016): 1/17/2019

ANSI/ASHRAE Addendum s to ANSI/ASHRAE Standard 34-2016, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2016): 1/17/2019

ANSI/ASHRAE Addendum t to ANSI/ASHRAE Standard 62.1-2016, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2016): 1/17/2019

ANSI/ASHRAE Addendum v to ANSI/ASHRAE Standard 34-2016, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2016): 1/17/2019

ANSI/ASHRAE/IES Addendum au to ANSI/ASHRAE/IES Standard 90.1-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 1/17/2019

ANSI/ASHRAE/IES Addendum az to ANSI/ASHRAE/IES Standard 90.1-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 1/17/2019

ANSI/ASHRAE/IES Addendum dn to ANSI/ASHRAE/IES Standard 90.1-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 1/17/2019

Revision

ANSI/ASHRAE Standard 139-2019, Method of Testing for Rating Desiccant Dehumidifiers Utilizing Heat for the Regeneration Process (revision of ANSI/ASHRAE Standard 139-2015): 1/22/2019

CSA (CSA Group)

Revision

ANSI/CSA NGV2-2019, Compressed Natural Gas Vehicle Fuel Containers (revision of ANSI/CSA NGV2-2016): 1/28/2019

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

Reaffirmation

INCITS/ISO/IEC 7501-2:1997 [R2018], Identification Cards - Machine Readable Travel Documents - Part 2: Machine Readable Visa (reaffirm a national adoption INCITS/ISO/IEC 7501-2:1997 [R2013]): 12/31/2018

INCITS/ISO/IEC 7816-2:2007 [R2018], Identification cards - Integrated circuit cards - Part 2: Cards with contacts - Dimensions and location of the contacts (reaffirm a national adoption INCITS/ISO/IEC 7816 -2:2007 [R2013]): 12/31/2018

INCITS/ISO/IEC 7816-13:2007 [R2018], Identification cards - Integrated circuit cards - Part 13: Commands for application management in multi application environment (reaffirm a national adoption INCITS/ISO/IEC 7816-13:2007 [R2013]): 12/31/2018

INCITS/ISO/IEC 8859-1:1998 [R2018], Information technology - 8-bit single-byte coded graphic character sets - Part 1: Latin alphabet No. 1 (reaffirm a national adoption INCITS/ISO/IEC 8859-1:1998 [R2013]): 12/31/2018

INCITS/ISO/IEC 8859-4:1998 [R2018], Information technology - 8-bit single-byte coded graphic character sets - Part 4: Latin alphabet No. 4 (reaffirm a national adoption INCITS/ISO/IEC 8859-4:1998 [R2013]): 12/31/2018

INCITS/ISO/IEC 8859-7:2003 [R2018], Information technology - 8-bit single-byte coded graphic character sets - Part 7: Latin/Greek alphabet (reaffirm a national adoption INCITS/ISO/IEC 8859-7:2003 [R2013]): 12/31/2018

INCITS/ISO/IEC 8859-9:1999 [R2018], Information technology - 8-bit single-byte coded graphic character sets - Part 9: Latin alphabet No. 5 (reaffirm a national adoption INCITS/ISO/IEC 8859-9:1999 [R2013]): 12/31/2018

INCITS/ISO/IEC 8859-10:1998 [R2018], Information technology - 8-bit single-byte coded graphic character sets - Part 10: Latin alphabet No. 6 (reaffirm a national adoption INCITS/ISO/IEC 8859-10:1998 [R2013]): 12/31/2018

INCITS/ISO/IEC 8859-11:2001 [R2018], Information technology - 8-bit single-byte coded graphic character sets - Part 11: Latin/Thai alphabet (reaffirm a national adoption INCITS/ISO/IEC 8859 -11:2001 [R2013]): 12/31/2018

INCITS/ISO/IEC 8859-13:1998 [R2018], Information technology - 8-bit single-byte coded graphic character sets - Part 13: Latin alphabet No. 7 (reaffirm a national adoption INCITS/ISO/IEC 8859-13:1998 [R2013]): 12/31/2018

INCITS/ISO/IEC 8859-14:1998 [R2018], Information technology - 8-bit single-byte coded graphic character sets - Part 14: Latin alphabet No. 8 (Celtic) (reaffirm a national adoption INCITS/ISO/IEC 8859 -14:1998 [R2013]): 12/31/2018

INCITS/ISO/IEC 8859-15:1999 [R2018], Information technology - 8-bit single-byte coded graphic character sets - Part 15: Latin alphabet No. 9 (reaffirm a national adoption INCITS/ISO/IEC 8859-15:1999 [R2013]): 12/31/2018

INCITS/ISO/IEC 9281-1:1990 [R2018], Information technology - Picture coding methods - Part 1: Identification (reaffirm a national adoption INCITS/ISO/IEC 9281-1:1990 [R2013]): 12/31/2018

INCITS/ISO/IEC 9281-2:1990 [R2018], Information technology - Picture coding methods - Part 2: Procedure for registration (reaffirm a national adoption INCITS/ISO/IEC 9281-2:1990 [R2013]): 12/31/2018

INCITS/ISO/IEC 9282-1:1988 [R2018], Information processing - Coded representation of pictures - Part 1: Encoding principles for picture representation in a 7-bit or 8-bit environment (reaffirm a national adoption INCITS/ISO/IEC 9282-1:1988 [R2013]): 12/31/2018

INCITS/ISO/IEC 9541-1:2012 [R2018], Information technology - Font information interchange - Part 1: Architecture (reaffirm a national adoption INCITS/ISO/IEC 9541-1:2012 [2013]): 12/31/2018

INCITS/ISO/IEC 9541-2:2012 [R2018], Information technology - Font information interchange - Part 2: Interchange format (reaffirm a national adoption INCITS/ISO/IEC 9541-2:2012 [2013]): 12/31/2018

INCITS/ISO/IEC 9541-3:2012 [R2018], Information technology - Font information interchange - Part 3: Glyph shape representation (reaffirm a national adoption INCITS/ISO/IEC 9541-3:2012 [2013]): 12/31/2018

INCITS/ISO/IEC 9541-4:2009/COR 1:2009 [R2018], Information technology - Font informationinterchange - Part 4: Harmonization to Open Font Format - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 9541-4:2009/COR 1:2009 [2013]): 12/31/2018

INCITS/ISO/IEC 9796-3:2006 [R2018], Information Technology - Security Techniques - Digital Signature Schemes Giving Message Recovery - Part 3: Discrete Logarithm Based Mechanisms (reaffirm a national adoption INCITS/ISO/IEC 9796-3:2006 [R2013]): 12/31/2018

INCITS/ISO/IEC 18033-2:2006 [R2018], Information technology - Security techniques - Encryption algorithms - Part 2: Asymmetric ciphers (reaffirm a national adoption INCITS/ISO/IEC 18033-2:2006 [R2013]): 12/31/2018

INCITS/ISO/IEC 19757-5:2011 [2018], Information Technology - Document Schema Definition Languages (DSDL) - Part 5: Extensible Datatypes (reaffirm a national adoption INCITS/ISO/IEC 19757-5:2011 [2013]): 12/31/2018

INCITS/ISO/IEC 19757-7:2009 [R2018], Information Technology - Document Schema Definition Languages (DSDL) - Part 7: Character Repertoire Description Language (CREPDL) (reaffirm a national adoption INCITS/ISO/IEC 19757-7:2009 [2013): 12/31/2018

INCITS/ISO/IEC 19757-11:2011 [R2018], Information technology - Document Schema Definition Languages (DSDL) - Part 11: Schema association (reaffirm a national adoption INCITS/ISO/IEC 19757 -11:2011 [2013]): 12/31/2018

INCITS/ISO/IEC 19757-8:2008/COR 1:2011 [R2018], Information Technology - Document Schema Definition Languages (DSDL) - Part 8: Document Semantics Renaming Language (DSRL) - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 19757-8:2008/COR 1:2011 [2013]): 12/31/2018

INCITS/ISO/IEC 19784-2:2007 [R2018], Information technology - Biometric application programming interface - Part 2: Biometric archive function provider interface (reaffirm a national adoption INCITS/ISO/IEC 19784-2:2007 [R2013]): 12/31/2018

INCITS/ISO/IEC 19784-2:2007/COR 1:2011 [2018], Information technology - Biometric application programming interface - Part 2: Biometric archive function provider interface - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 19784 -2:2007/COR 1:2013): 12/31/2018

INCITS/ISO/IEC 19784-4:2011/COR1:2013 [R2018], Information technology - Biometric application programming interface - Part 4: Biometric sensor function provider interface - Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 19784-4:2011/Cor 1:2013): 12/31/2018

INCITS/ISO/IEC 19785-2:2006 [R2018], Information technology - Common Biometric Exchange Formats Framework - Part 2: Procedures for the operation of the Biometric Registration Authority (reaffirm a national adoption INCITS/ISO/IEC 19785-2:2006 [R2013]): 12/31/2018

INCITS/ISO/IEC 19794-1:2011 [R2018], Information technology - Biometric data interchange formats - Part 1: Framework (reaffirm a national adoption INCITS/ISO/IEC 19794-1:2011 [2013]): 12/31/2018

INCITS/ISO/IEC 19794-2:2011 [R2018], Information technology - Biometric data interchange formats - Part 2: Finger minutiae data (reaffirm a national adoption INCITS/ISO/IEC 19794-2:2011 [2013]): 12/31/2018

INCITS/ISO/IEC 19794-4:2011 [R2018], Information technology - Biometric data interchange formats - Part 4: Finger image data (reaffirm a national adoption INCITS/ISO/IEC 19794-4:2011 [2013]): 12/31/2018

INCITS/ISO/IEC 19794-5:2011 [R2018], Information technology - Biometric data interchange formats - Part 5: Face image data (reaffirm a national adoption INCITS/ISO/IEC 19794-5:2011 [2013]): 12/31/2018

INCITS/ISO/IEC 19794-6:2011 [R2018], Information technology - Biometric data interchange formats - Part 6: Iris image data (reaffirm a national adoption INCITS/ISO/IEC 19794-6:2011 [2013]): 12/31/2018

INCITS/ISO/IEC 19794-11:2013 [R2018], Information technology - Biometric data interchange formats - Part 11: Signature/sign processed dynamic data (reaffirm a national adoption INCITS/ISO/IEC 19794-11:2013 [2013]): 12/31/2018

INCITS/ISO/IEC 19794-14:2013 [R2018], Information technology - Biometric data interchange formats - Part 14: DNA data (reaffirm a national adoption INCITS/ISO/IEC 19794-14:2013 [2013]): 12/31/2018

INCITS/ISO/IEC 19794-4:2005/COR1:2011 [R2018], Information technology - Biometric data interchange formats - Part 4: Finger image data - Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 19794-4:2011/Cor 1:2014): 12/31/2018

INCITS/ISO/IEC 19794-5:2005/COR 3:2013 [R2018], Information technology - Biometric data interchange formats - Part 5: Face image data - Technical Corrigendum 3 (reaffirm a national adoption INCITS/ISO/IEC 19794-5:2005/COR 3:2013 [R201x]): 12/31/2018

INCITS/ISO/IEC 19794-8:2006/COR1:2011 [R2018], Information technology - Biometric data interchange formats - Part 8: Finger pattern skeletal data - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 19794-8:2006/Cor 1:2013): 12/31/2018

INCITS/ISO/IEC 19794-9:2011/COR1:2012 [R2018], Information technology - Biometric data interchange formats - Part 9: Vascular biometric image data - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 19794-9:2011/Cor 1:2012): 12/31/2018

INCITS/ISO/IEC 19794-9:2011/AM 1:2013 [R2018], Information technology - Biometric data interchange formats - Part 9: Vascular biometric image data - Amendment 1 (reaffirm a national adoption INCITS/ISO/IEC 19794-9:2011/Amd 1:2013): 12/31/2018

INCITS/ISO/IEC 19795-6:2012 [R2018], Information technology - Biometric performance testing and reporting - Part 6: Testing methodologies for operational evaluation (reaffirm a national adoption INCITS/ISO/IEC 19795-6:2012 [2013]): 12/31/2018

INCITS/ISO/IEC 20944-1:2013 [2018], Information technology - Metadata Registries Interoperability and Bindings (MDR-IB) - Part 1: Framework, common vocabulary, and common provisions for conformance (reaffirm a national adoption INCITS/ISO/IEC 20944 -1:2013 [2013]): 12/31/2018

INCITS/ISO/IEC 20944-2:2013 [2018], Information technology - Metadata Registries Interoperability and Bindings (MDR-IB) - Part 2: Coding bindings (reaffirm a national adoption INCITS/ISO/IEC 20944-2:2013 [2013]): 12/31/2018

INCITS/ISO/IEC 20944-3:2013 [2018], Information technology - Metadata Registries Interoperability and Bindings (MDR-IB) - Part 3: API bindings (reaffirm a national adoption INCITS/ISO/IEC 20944 -3:2013 [2013]): 12/31/2018

INCITS/ISO/IEC 20944-4:2013 [2018], Information technology - Metadata Registries Interoperability and Bindings (MDR-IB) - Part 4: Protocol bindings (reaffirm a national adoption INCITS/ISO/IEC 20944-4:2013 [2013]): 12/31/2018

INCITS/ISO/IEC 20944-5:2013 [2018], Information technology - Metadata Registries Interoperability and Bindings (MDR-IB) - Part 5: Profiles (reaffirm a national adoption INCITS/ISO/IEC 20944-5:2013 [2013]): 12/31/2018

INCITS/ISO/IEC 21000-2:2005 [R2018], Information technology - Multimedia framework (MPEG-21) - Part 2: Digital Item Declaration (reaffirm a national adoption INCITS/ISO/IEC 21000-2:2005 [R2013]): 12/31/2018

INCITS/ISO/IEC 21000-3:2003 [R2018], Information technology - Coding of audio-visual objects - Part 5: Reference software (reaffirm a national adoption INCITS/ISO/IEC 21000-3:2003 [R2013]): 12/31/2018

INCITS/ISO/IEC 24754-1:2008 [R2018], Information technology - Document description and processing languages - Minimum requirements for specifying document rendering systems - Part 1: Feature specifications for document rendering systems (reaffirm a national adoption INCITS/ISO/IEC 24754-1:2008 [2013]): 12/31/2018

INCITS/ISO/IEC 24754-1:2008/COR 1:2011 [R2018], Information technology - Document description and processing languages - Minimum requirements for specifying document rendering systems - Part 1: Feature specifications for document rendering systems - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 24754-1:2008/COR 1:2011 [2013]): 12/31/2018

INCITS/ISO/IEC 29109-6:2011 [R2018], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 6: Iris image data (reaffirm a national adoption INCITS/ISO/IEC 29109-6:2011 [2013]): 12/31/2018

INCITS/ISO/IEC 29109-7:2011 [R2018], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 7: Signature/sign time series data (reaffirm a national adoption INCITS/ISO/IEC 29109 -7:2011 [2013]): 12/3/2018

INCITS/ISO/IEC 29109-8:2011 [R2018], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 8: Finger pattern skeletal data (reaffirm a national adoption INCITS/ISO/IEC 29109-8:2011 [2013]): 12/31/2018

INCITS/ISO/IEC 29109-9:2011 [R2018], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 9: Vascular image data (reaffirm a national adoption INCITS/ISO/IEC 29109-9:2011 [2013]): 12/31/2018

INCITS/ISO/IEC 29109-4:2010/COR 1:2011 [R2018], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 4: Finger image data - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 29109-4:2010/COR 1:2011 [2013]): 12/31/2018

INCITS/ISO/IEC 29142-1:2013 [2018], Information technology - Print cartridge characterization - Part 1: General: terms, symbols, notations and cartridge characterization framework (reaffirm a national adoption INCITS/ISO/IEC 29142-1:2013 [2013]): 12/31/2018

INCITS/ISO/IEC 29142-2:2013 [2018], Information technology - Print cartridge characterization - Part 2: Cartridge characterization data reporting (reaffirm a national adoption INCITS/ISO/IEC 29142 -2:2013 [2013]): 12/31/2018

INCITS/ISO/IEC 29142-3:2013 [2018], Information technology - Print cartridge characterization - Part 3: Environment (reaffirm a national adoption INCITS/ISO/IEC 29142-3:2013 [2013]): 12/31/2018

INCITS/ISO/IEC 29500-2:2012 [R2018], Information technology - Document description and processing languages - Office Open XML File Formats - Part 2: Open Packaging Conventions (reaffirm a national adoption INCITS/ISO/IEC 29500-2:2012 [2013]): 12/31/2018

INCITS/ISO/IEC 646:1991 [R2018], Information technology - ISO 7-bit coded character set for information interchange (reaffirm a national adoption INCITS/ISO/IEC 646:1991 [R2013]): 12/31/2018

INCITS/ISO/IEC 2375:2003 [R2018], Information technology - Procedure for registration of escape sequences and coded character sets (reaffirm a national adoption INCITS/ISO/IEC 2375:2003 [R2013]): 12/31/2018

INCITS/ISO/IEC 4873:1991 [R2018], Information technology - ISO 8-bit code for information interchange - Structure and rules for implementation (reaffirm a national adoption INCITS/ISO/IEC 4873:1991 [R2013]): 12/31/2018

INCITS/ISO/IEC 7350:1991 [R2018], Information technology - Registration of repertoires of graphic characters from ISO/IEC 10367 (reaffirm a national adoption INCITS/ISO/IEC 7350:1991 [R2013]): 12/31/2018

INCITS/ISO/IEC 7810:2003 [R2018], Identification Cards - Physical Characteristics (reaffirm a national adoption INCITS/ISO/IEC 7810:2003 [R2013]): 12/31/2018

INCITS/ISO/IEC 7813:2006 [R2019], Information technology - Identification cards - Financial transaction cards (reaffirm a national adoption INCITS/ISO/IEC 7813:2006 [R2013]): 1/28/2019

INCITS/ISO/IEC 18045:2008 [R2018], Information technology - Security techniques - Methodology for IT security evaluation (reaffirm a national adoption INCITS/ISO/IEC 18045:2008 [2013]): 12/31/2018

INCITS/ISO/IEC 18050:2006 [R2018], Information Technology - Office Equipment - Print Quality Attributes for Machine-Readable Digital Postage Marks (reaffirm a national adoption INCITS/ISO/IEC 18050:2006 [R2013]): 12/31/2018

INCITS/ISO/IEC 19756:2011 [R2018], Information Technology - Topic Maps - Constraint Language (TMCL) (reaffirm a national adoption INCITS/ISO/IEC 19756:2011 [2013]): 12/31/2018

INCITS/ISO/IEC 19799:2007 [R2018], Information technology - Method of measuring gloss uniformity on printed pages (reaffirm a national adoption INCITS/ISO/IEC 19799:2007 [R2013]): 12/31/2018

INCITS/ISO/IEC 20060:2010 [R2018], Information technology - Open Terminal Architecture (OTA) specification - Virtual machine specification (reaffirm a national adoption INCITS/ISO/IEC 20060:2010 [2013]): 12/31/2018

INCITS/ISO/IEC 21117:2012 [2018], Information technology - Office equipment - Copying machines and multi-function devices - Information to be included in specification sheets and related test methods (reaffirm a national adoption INCITS/ISO/IEC 21117:2012 [2013]): 12/31/2018

INCITS/ISO/IEC 21118:2012 [2018], Information technology - Office equipment - Information to be included in specification sheets - Data projectors (reaffirm a national adoption INCITS/ISO/IEC 21118:2012 [2013]): 12/31/2018

INCITS/ISO/IEC 23270:2006 [R2018], Information technology - Programming languages - C (reaffirm a national adoption INCITS/ISO/IEC 23270:2006 [R2013]): 12/31/2018

INCITS/ISO/IEC 23271:2012 [R2018], Information technology - Common Language Infrastructure (CLI) Partition 1 to VI (reaffirm a national adoption INCITS/ISO/IEC 23271:2012 [2013]): 12/31/2018

INCITS/ISO/IEC 24700:2005 [R2018], Quality and performance of office equipment that contains reused components (reaffirm a national adoption INCITS/ISO/IEC 24700:2005 [R2013]): 12/31/2018

INCITS/ISO/IEC 24707:2007 [R2018], Information technology - Common Logic (CL): A framework for a family of logic-based languages (reaffirm a national adoption INCITS/ISO/IEC 24707:2007 [R2013]): 12/31/2018

INCITS/ISO/IEC 24712:2007 [R2018], Colour test pages for measurement of office equipment consumable yield (reaffirm a national adoption INCITS/ISO/IEC 24712:2007 [R2013]): 12/31/2018

INCITS/ISO/IEC 24735:2012 [2018], Information technology - Office equipment - Method for measuring digital copying productivity (reaffirm a national adoption INCITS/ISO/IEC 24735:2012 [2013]): 12/31/2018

INCITS/ISO/IEC 29164:2011 [R2018], Information technology - Biometrics - Embedded BioAPI (reaffirm a national adoption INCITS/ISO/IEC 29164:2011 [2013]): 12/31/2018

INCITS/ISO/IEC 26300:2006/COR 1:2010 [R2018], Information technology - Open Document Format for Office Applications (Open Document) v1.0 - Technical Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 26300:2006/COR 1:2010 [2013]): 12/31/2018

INCITS/ISO/IEC 26300:2006/AM 1:2012 [R2018], Information technology - Open Document Format for Office Applications (Open Document) v1.0 - Amendment 1 (reaffirm a national adoption INCITS/ISO/IEC 26300:2006/Amd 1:2012): 12/31/2018

Withdrawal

INCITS 320-1998 [R2013], Information technology - Spatial Data Transfer (withdrawal of INCITS 320-1998 [R2013]): 12/31/2018

INCITS 441-2008 [R2013], Information technology - Automation/Drive Interface - Commands-2 (ADC-2) (withdrawal of INCITS 441-2008 [R2013]): 12/31/2018

INCITS 447-2008 [R2013], Information technology - SCSI Architecture Model - 4 (SAM-4) (withdrawal of INCITS 447-2008 [R2013]): 12/31/2018

INCITS/ISO 19119:2005, AM 1:2008 [R2013], Geographic information - Services - Amendment 1: Extensions of the service metadata model (withdrawal of INCITS/ISO 19119:2005, AM 1:2008 [R2013]): 12/31/2018

INCITS/ISO/IEC 15944-1:2002 [R2013], Information technology - Business agreement semantic descriptive techniques - Part 1: Operational aspects of Open-edi for implementation (withdrawal of INCITS/ISO/IEC 15944-1:2002 [R2013]): 12/31/2018

INCITS/ISO/IEC 15944-2:2006 [R2013], Information technology - Business Operational View - Part 2: Registration of scenarios and their components as business objects (withdrawal of INCITS/ISO/IEC 15944-2:2006 [R2013]): 12/31/2018

INCITS/ISO/IEC 15944-4:2007 [R2013], Information technology - Business Operational View - Part 4: Business transaction scenarios - Accounting and economic ontology (withdrawal of INCITS/ISO/IEC 15944-4:2007 [R2013]): 12/31/2018

INCITS/ISO/IEC 15944-5:2008 [R2013], Information technology - Business Operational View - Part 5: Identification and referencing of requirements of jurisdictional domains as sources of external constraints (withdrawal of INCITS/ISO/IEC 15944-5:2008 [R2013]): 12/31/2018

INCITS/ISO/IEC 18028-4:2005 [R2014], Information technology - Security techniques - IT network security - Part 4: Securing remote access (withdrawal of INCITS/ISO/IEC 18028-4:2005 [R2014]): 12/31/2018

INCITS/ISO/IEC 18028-5:2006 [R2013], Information technology - Security techniques - IT network security - Part 5: Securing communications across networks using virtual private networks (withdrawal of INCITS/ISO/IEC 18028-5:2006 [R2013]): 12/31/2018

INCITS/ISO/IEC 19785-3:2007 [R2013], Information Technology - Common Biometric Exchange Formats Framework - Part 3: Patron Format Specifications (withdrawal of INCITS/ISO/IEC 19785-3:2007 [R2013]): 12/31/2018

INCITS/ISO/IEC 19785-3:2007/AM 1:2010 [R2015], Information Technology - Common Biometric Exchange Formats Framework - Part 3: Patron Format Specifications - Amendment 1 (withdrawal of INCITS/ISO/IEC 19785-3:2007/AM 1:2010 [R2015]): 12/31/2018

INCITS/ISO/IEC 8484:2007 [R2013], Information technology - Magnetic stripes on savings books (withdrawal of INCITS/ISO/IEC 8484:2007 [R2013]): 12/31/2018

INCITS/ISO/IEC 13250:2003 [R2013], Information technology - SGML applications - Topic maps (withdrawal of INCITS/ISO/IEC 13250:2003 [R2013]): 12/31/2018

INCITS/ISO/IEC 15775:1999 [R2013], Information technology - Office machines - Method of specifying image reproduction of colour copying machines by analog test charts - Realisation and application (withdrawal of INCITS/ISO/IEC 15775:1999 [R2013]): 12/31/2018

INCITS/ISO/IEC 17799:2005 [2009], Information technology - Security techniques - Code of practice for information security management (withdrawal of INCITS/ISO/IEC 17799:2005 [2009]): 12/31/2018

INCITS/ISO/IEC 18043:2006 [R2013], Information technology - Security techniques - Selection, deployment and operations of intrusion detection systems (withdrawal of INCITS/ISO/IEC 18043:2006 [R2013]): 12/31/2018

INCITS/ISO/IEC 15775/AM1:2005 [R2013], Information technology - Office machines - Method of specifying image reproduction of colour copying machines by analog test charts - Realisation and application - Amendment 1 (withdrawal of INCITS/ISO/IEC 15775/AM1:2005 [R2013]): 12/31/2018

INCITS/ISO/IEC 17799:2005/COR 1:2007 [2009], Information technology - Security techniques - Code of practice for information security management - Technical Corrigendum 1 (withdrawal of INCITS/ISO/IEC 17799:2005/COR 1:2007 [2009]): 12/31/2018

UL (Underwriters Laboratories, Inc.)

Reaffirmation

ANSI/UL 62841-1-2018 (R2019), Standard for Safety for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 1: General Requirements (reaffirmation of ANSI/UL 62841-1-2018): 1/11/2019

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.

AAFS (American Academy of Forensic Sciences)

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

New Standard

BSR/ASB Std 055-201x, Standard for Breath Alcohol Measuring Instrument Calibration (new standard)

Stakeholders: Forensic toxicology/breath alcohol professionals.

Project Need: There is currently no existing standard for the calibration of evidential breath alcohol instruments. Large variability exists across the U.S. in approaches to calibration, which creates difficulty for the legal system, law enforcement, and citizens when comparing results and expectations across state lines.

This standard is applicable to the calibration of breath alcohol measuring instruments for evidentiary purposes. These minimum requirements are included for (1) the development and validation of calibration methods on these instruments; (2) the evaluation of performance following adjustments and calibrations; and (3) monitoring the validity of the calibrations performed. This standard is not intended to cover preliminary (non-evidentiary) testing, ignition interlock, or federally regulated testing.

AAMI (Association for the Advancement of Medical Instrumentation)

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

New National Adoption

BSR/AAMI/ISO 15223-01/Ed.4-201x, Medical devices - Symbols to be used with medical device labels, labeling, and information to be supplied - Part 1: General requirements (identical national adoption of ISO 15223-01/Ed.4 and revision of BSR/AAMI/ISO 15223-01/Ed.3-201x and ANSI/AAMI/ISO 15223-1:2016)

Stakeholders: Medical device manufacturers, regulatory agencies, users.

Project Need: Identifies requirements for symbols used in medical device labeling that convey information on the safe and effective use of medical devices.

This part of ISO 15223 is applicable to symbols used in a broad spectrum of medical devices, which are marketed globally and therefore need to meet different regulatory requirements. These symbols may be used on the medical device itself, on its packaging or in the associated documentation.

ASCA (Accredited Snow Contractors Association)

Contact: Kevin Gilbride, (216) 393-0303, kgilbride@gie.net
4012 Kinross Lakes Parkway, #201, Valley View, OH 44125

Reaffirmation

BSR/ASCA A1000-2014 (R201x), System Requirements for Snow and Ice Management Services (reaffirmation of ANSI/ASCA A1000 -2014)

Stakeholders: Snow and ice management companies, property owners, insurance companies, industry suppliers.

Project Need: To reaffirm the American National Standard “System Requirements for Snow and Ice Management Services”.

The intent of this standard is to provide snow and ice management companies with a set of procedures that will result in documented completion of operations and safer conditions for pedestrians, drivers, and property owners.

ASTM (ASTM International)

Contact: Laura Klineburger, (610) 832-9696, accreditation@astm.org
100 Barr Harbor Drive, West Conshohocken, PA 19428-2959

New Standard

BSR/ASTM WK66532-201x, New Terminology for Treestands (new standard)

Stakeholders: Treestands industry.

Project Need: When locating definitions , users can reference a single standard that is dedicated to terms exclusively used in the treestand industry.

A standard for terms specifically used in the treestand industry.

CTA (Consumer Technology Association)

Contact: Veronica Lancaster, (703) 907-7697, vlancaster@cta.tech
1919 South Eads Street, Arlington, VA 22202

Reaffirmation

BSR/CTA 766-D-2013 (R201x), U.S. and Canadian Rating Region Tables (RRT) and Content Advisory Descriptors for Transport of Content Advisory Information Using ATSC Program and System Information Protocol (PSIP) (reaffirmation of ANSI/CTA 766-D -2013)

Stakeholders: Consumers, manufacturers, retailers.

Project Need: Reaffirm ANSI/CTA 776-D.

This standard augments ATSC A/65 [A65] and designates (a) the RRT which provides the receiver with the definition of the rating system and (b) the Content Advisory Descriptors which provide the receiver with the specific program rating for each program. Specifically, this standard specifies the exact syntax to be used to define the U.S. and Canadian Rating Region Tables (RRT) in accordance with ATSC A/65 [A65] Section 6.4, as well as the exact syntax to be used in the Content Advisory Descriptors.

IIAR (International Institute of Ammonia Refrigeration)

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

Revision

BSR/IIAR 4-201x, Installation of Closed-Circuit Ammonia Refrigeration Systems (revision of ANSI/IIAR 4-2015)

Stakeholders: Designers/installers/servicers, manufacturers, owner/operators, and general interest of the Industrial and Commercial Refrigeration industries. The Stakeholders have not changed.

Project Need: This standard is open for full review and revision as needed by consensus for periodic maintenance essential requirements.

This standard shall provide minimum requirements for the safe installation of closed-circuit ammonia refrigeration systems.

BSR/IIAR 8-201x, Decommissioning of Closed-Circuit Ammonia Refrigeration Systems (revision of ANSI/IIAR 8-2015)

Stakeholders: Designers/installers/servicers, manufacturers, owner/operators, and general interest of the Industrial and Commercial Refrigeration industries. The Stakeholders have not changed.

Project Need: This standard is open for full review and revision as needed by consensus for periodic maintenance essential requirements.

This standard specifies minimum criteria and procedures for decommissioning of closed-circuit ammonia refrigeration systems.

TAPPI (Technical Association of the Pulp and Paper Industry)

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

Reaffirmation

BSR/TAPPI T 455 sp-2014 (R201x), Identification of wire side of paper (reaffirmation of ANSI/TAPPI T 455 sp-2014)

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

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

This method describes procedures for identifying the wire side of paper made on a fourdrinier paper machine with a single wire or forming fabric. The term “wire side” will be used throughout this method and relates to the side of the sheet made in contact to either the machine wire or forming fabric. It is not always possible to identify the difference between sides, particularly with coated and other surface-treated papers, corrugating medium, papers made with certain multi-ply forming fabrics, certain high-grade papers made from well-beaten rag stock, and specialties made with some variation from usual papermaking practices. Nevertheless, if any one of the procedures in this standard gives a clear result, identification is established. These procedures are not applicable to paper made on cylinder, twin-wire, or other special machines.

BSR/TAPPI T 511 om-2013 (R201x), Folding endurance of paper (MIT tester) (reaffirmation of ANSI/TAPPI T 511 om-2013)

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

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

This method describes the use of the MIT-type apparatus for the determination of the folding endurance of paper. An exhaust fan arrangement maintains the folding head at room temperature. The MIT tester is suitable for papers of any thickness; however, if the outer fibrous layers of paper thicker than about 0.25 mm (0.01 in.) rupture during the first few folds, the test loses its significance. The procedure for the Schopper-type apparatus is given in TAPPI T 423 “Folding Endurance of Paper (Schopper-Type Tester)”.

BSR/TAPPI T 569 om-2014 (R201x), Internal bond strength (Scott type) (reaffirmation of ANSI/TAPPI T 569 om-2014)

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

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

This method defines a test that measures the energy required to rapidly delaminate a sheet-type specimen. The “Z” directional rupture is initiated by the impact of a pendulum having both a controlled mass and a controlled velocity that exceeds 6000 times the velocity of tensile strength and other dead-weight testers. The geometry of the apparatus causes the tensile stress to be rotational in nature with negligible shear stress on the specimen. The method is suitable for both single and multi-ply paper and paperboard, including coated sheets and those that are laminated with synthetic polymer films. Because sample preparation entails pressing double-coated tape to both sides of the test specimen under relatively high pressures, this method may not be suitable for testing high-strength handsheets or low basis weight (below 40 g/m2), porous, soft, or low-density materials, such as tissue. Limitations include materials that permit significant migration of the tape’s adhesive into the sample with potential tape-to-tape bonding, or materials that could be structurally damaged or collapse during the press cycle.

UL (Underwriters Laboratories, Inc.)

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

New Standard

BSR/UL 3005-201x, Standard for Safety for Distributed Energy Resource Management Systems (new standard)

Stakeholders: Producers of distributed energy resource management systems (sometimes known as DERMS); producers of distributed energy resources such as fuel cells, wind turbines, photovoltaic equipment, energy storage equipment, etc.; producers of grid interconnection equipment; research and development laboratories; electrical inspection authorities; electric utilities; building officials; and other interested parties.

Project Need: To develop a standard to cover the safety of the distributed energy resource management system design, integration, and operation as it relates to the operation of the distributed energy resources and interface with grid and premises wiring systems.

Safety of distributed energy resource management systems (DERMS) comprised of systems that coordinate operation of individual distributed energy resources (DERs) such as PV arrays or wind turbines in homogenous or hybrid configurations, energy storage systems; grid interfaces; premises wiring systems; and related equipment. DERMS oversee functionality of the distributed energy system in multiple modes of operations (e.g., on grid or off grid), support grid and premises systems operation, and coordinate operation of the integrated energy assets. These requirements cover the safety of DERMS design, integration, and operation as it relates to the operation of the DERs and interfaces with grid and premises wiring systems.

VITA (VMEbus International Trade Association (VITA))

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

New Standard

BSR/VITA 62.2-201x, Modular Power Supply Standard for 270v Applications (new standard)

Stakeholders: Manufacturers, suppliers, and users of modular VPX embedded systems.

Project Need: Standardize 270-volt power supply requirements for modular VPX-embedded systems.

This standard provides requirements for building a 270v class power supply module that can be used to power a VPX chassis in the VITA 62 family of standards. The module will fit within the standard envelope defined for VPX modules in the VITA 48.0 standards.

BSR/VITA 74.4-201x, SpaceVNX (new standard)

Stakeholders: Manufactures and users of VNX modules for critical embedded systems.

Project Need: Provide standard for use of VNX in Space Systems.

This standard provides requirements for highly interoperable and reusable Backplanes and Hardware Modules in the VITA 74, VNX, family of standards that allow a user to assemble a Small Satellite System for a variety of space platform application. Such systems support a wide variety of potential Use Cases across the Small Satellite community.

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.

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Arlington, VA 22203-1633
Phone: (703) 647-2779
Web: www.aami.org

ASCA
Accredited Snow Contractors Association
4012 Kinross Lakes Parkway, #201
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Phone: (216) 393-0303
Web: www.ascaonline.org

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

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

ASSP (Safety)
American Society of Safety Professionals
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Park Ridge, IL 60068
Phone: (847) 768-3475
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ASTM
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AWS
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BHMA
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8501 E. Pleasant Valley Road
Cleveland, OH 44131
Phone: (216) 524-4990
Web: www.csagroup.org

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

ECIA
Electronic Components Industry Association
13873 Park Center Road
Suite 315
Herndon, VA 20171
Phone: (571) 323-0294
Web: www.ecianow.org

IIAR
International Institute of Ammonia Refrigeration
1001 North Fairfax Street
Alexandria, VA 22314
Phone: (703) 312-4200
Web: www.iiar.org

ITI (INCITS)
InterNational Committee for Information Technology Standards
1101 K Street NW
Suite 610
Washington, DC 20005-3922
Phone: (202) 737-8888
Web: www.incits.org

NFPA
National Fire Protection Association
One Batterymarch Park
Quincy, MA 02269-9101
Phone: (617) 984-7248
Web: www.nfpa.org

NSF
NSF International
789 N. Dixboro Road
Ann Arbor, MI 48105-9723
Phone: (734) 418-6660
Web: www.nsf.org

RVIA
Recreational Vehicle Industry Association
1896 Preston White Drive
P.O. Box 2999
Reston, VA 20191-4363
Phone: (703) 620-6003
Web: www.rvia.org

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

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

UAMA (ASC B7)
Unified Abrasives Manufacturers' Association
30200 Detroit Road
Cleveland, OH 44145-1967
Phone: (440) 899-0010
Web: www.uama.org

UL
Underwriters Laboratories, Inc.
333 Pfingsten Road
Northbrook, IL 60062-2096
Phone: (847) 664-1725
Web: www.ul.com

VITA
VMEbus International Trade Association (VITA)
929 W. Portobello Avenue
Mesa, AZ 85210
Phone: (602) 281-4497
Web: www.vita.com

ISO & IEC Draft International Standards

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

Comments

Comments regarding ISO documents should be sent to ANSI's ISO Team (isot@ansi.org); comments on ISO documents must be submitted electronically in the approved ISO template and as a Word document as other formats will not be accepted.

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

Ordering Instructions

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

ISO Standards

AGRICULTURAL FOOD PRODUCTS (TC 34)

ISO/DIS 21572, Foodstuffs - Molecular biomarker analysis - Protein-based methods - 2/17/2019, $88.00

APPLICATIONS OF STATISTICAL METHODS (TC 69)

ISO/DIS 5725-2, Accuracy (trueness and precision) of measurement methods and results - Part 2: Basic method for the determination of repeatability and reproducibility of a standard measurement method - 2/14/2019, $134.00

BUILDING CONSTRUCTION (TC 59)

ISO/DIS 23387, Building Information Modelling (BIM) - Data templates for construction objects used in the life cycle of any built asset - Concepts and principles - 4/13/2019, $71.00

COSMETICS (TC 217)

ISO/DIS 24444, Cosmetics - Sun protection test methods - In vivo determination of the sun protection factor (SPF) - 4/13/2019, $125.00

EQUIPMENT FOR FIRE PROTECTION AND FIRE FIGHTING (TC 21)

ISO 7076-6/DAmd1, Fire protection - Foam fire extinguishing systems - Part 6: Vehicle mounted compressed air foam systems - Amendment 1 - 4/13/2019, $29.00

IMPLANTS FOR SURGERY (TC 150)

ISO 7207-2/DAmd2, Implants for surgery - Components for partial and total knee joint prostheses - Part 2: Articulating surfaces made of metal, ceramic and plastics materials - Amendment 2 - 2/17/2019, $33.00

INDUSTRIAL TRUCKS (TC 110)

ISO/DIS 22915-17, Industrial trucks - Verification of stability - Part 17: Towing tractors, burden and personnel carriers - 2/17/2019, $40.00

INFORMATION AND DOCUMENTATION (TC 46)

ISO/DIS 16175-1, Information and documentation - Processes and functional requirements for software for managing records - Part 1: Functional requirements and associated guidance for any applications that manage digital records - 2/14/2019, $107.00

ISO/DIS 16175-2, Information and documentation - Processes and functional requirements for software for managing records - Part 2: Guidance for selecting, designing, implementing and maintaining software for managing records - 2/14/2019, $88.00

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

ISO/DIS 19901-10, Petroleum and natural gas industries - Specific requirements for offshore structures - Part 10: Marine geophysical investigations - 2/14/2019, $155.00

OTHER

ISO/DIS 3376, Leather - Physical and mechanical tests - Determination of tensile strength and percentage extension - 2/16/2019, $33.00

ISO/DIS 14088, Leather - Chemical tests - Quantitative analysis of tanning agents by filter method - 4/11/2019, $53.00

ISO/DIS 13365-1, Leather - Chemical determination of the preservative (TCMTB, PCMC, OPP, OIT) content in leather by liquid chromatography - Part 1: Total content - 4/12/2019, $46.00

ISO/DIS 13365-2, Leather - Chemical determination of the preservative (TCMTB, PCMC, OPP, OIT) content in leather by liquid chromatography - Part 2: Extractable content - 4/12/2019, $46.00

ISO/DIS 17234-1, Leather - Chemical tests for the determination of certain azo colorants in dyed leathers - Part 1: Determination of certain aromatic amines derived from azo colorants - 4/13/2019, $71.00

PAPER, BOARD AND PULPS (TC 6)

ISO/DIS 536, Paper and board - Determination of grammage - 4/14/2019, $46.00

PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)

ISO/DIS 16073-1, Wildland firefighting personal protective equipment - Requirements and test methods - Part 1: General - 2/17/2019, $67.00

ISO/DIS 16073-2, Wildland firefighting personal protective equipment - Requirements and test methods - Part 2: Compatibility - 2/16/2019, $40.00

ISO/DIS 16073-3, Wildland firefighting personal protective equipment - Requirements and test methods - Part 3: Clothing - 2/16/2019, $40.00

ISO/DIS 16073-7, Wildland firefighting personal protective equipment - Requirements and test methods - Part 7: Face and eye protection - 2/17/2019, $82.00

ISO/DIS 16073-8, Wildland firefighting personal protective equipment - Requirements and test methods - Part 8: Hearing - 2/16/2019, $40.00

PETROLEUM PRODUCTS AND LUBRICANTS (TC 28)

ISO/DIS 8222, Petroleum measurement systems - Calibration - Temperature corrections for use when calibrating volumetric proving tanks - 4/12/2019, $134.00

PLASTICS (TC 61)

ISO/DIS 19064-2, Plastics - Styrene-acrylonitrile (SAN) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties - 4/11/2019, $46.00

ISO/DIS 19066-2, Plastics - Methyl methacrylate-acrylonitrile-butadiene-styrene (MABS) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties - 4/11/2019, $46.00

ISO/DIS 23153-1, Plastics - Polyetheretherketone (PEEK) moulding and extrusion materials - Part 1: Designation system and basis for specifications - 2/14/2019, $40.00

ISO/DIS 23153-2, Plastics - Polyetheretherketone (PEEK) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties - 2/14/2019, $40.00

ISO/DIS 24026-1, Plastics - Poly(methyl methacrylate) (PMMA) moulding and extrusion materials - Part 1: Designation system and basis for specifications - 4/18/2019, $46.00

ISO/DIS 24026-2, Plastics - Poly(methyl methacrylate) (PMMA) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties - 4/18/2019, $46.00

QUALITY MANAGEMENT AND CORRESPONDING GENERAL ASPECTS FOR MEDICAL DEVICES (TC 210)

ISO/DIS 20417, Medical devices - Information to be provided by the manufacturer - 4/12/2019, $46.00

ROAD VEHICLES (TC 22)

ISO/DIS 9021, Motorcycles and mopeds - Controls - Types, positions and functions - 4/15/2019, $58.00

ISO/DIS 21111-4, Road vehicles - In-vehicle Ethernet - Part 4: General requirements and test methods of optical Gigabit Ethernet components - 2/14/2019, $125.00

ISO/DIS 20766-18, Road vehicles - Liquefied petroleum gas (LPG) fuel systems components - Part 18: Hose - 2/14/2019, $46.00

SHIPS AND MARINE TECHNOLOGY (TC 8)

ISO/DIS 22098, Ships and marine technology - Full-scale test method for propeller cavitation observation and hull pressure measurement - 4/12/2019, $58.00

SMALL CRAFT (TC 188)

ISO/DIS 8849, Small craft - Electrically operated bilge pumps - 4/15/2019, $33.00

SMALL TOOLS (TC 29)

ISO/DIS 21982, Assembly tools for screws and nuts - Ratcheting wrenches - Technical requirements - 4/14/2019, $58.00

SOLID MINERAL FUELS (TC 27)

ISO/DIS 18806, Solid mineral fuels - Determination of Chlorine content - 2/14/2019, $53.00

SUSTAINABLE DEVELOPMENT IN COMMUNITIES (TC 268)

ISO/DIS 37161, Smart community infrastructures - Guidance on smart transportation for energy saving in transportation services in cities - 4/12/2019, $67.00

ISO/DIS 37162, Smart community infrastructures - Smart transportation for newly- developing areas - 4/12/2019, $53.00

TEXTILES (TC 38)

ISO/DIS 1833-9, Textiles - Quantitative chemical analysis - Part 9: Mixtures of acetate with certain other fibres (method using benzyl alcohol) - 2/14/2019, $33.00

ISO/DIS 1833-13, Textiles - Quantitative chemical analysis - Part 13: Mixtures of certain chlorofibres with certain other fibres (method using carbon disulfide/acetone) - 2/14/2019, $40.00

ISO/DIS 1833-14, Textiles - Quantitative chemical analysis - Part 14: Mixtures of acetate with certain chlorofibres (method using glacial acetic acid) - 2/14/2019, $33.00

THERMAL INSULATION (TC 163)

ISO/DIS 16534, Thermal insulating products for building applications - Determination of compressive creep - 4/12/2019, $67.00

ISO/DIS 16546, Thermal insulating products for building applications - Determination of freeze-thaw resistance - 4/12/2019, $46.00

ISO/DIS 29470, Thermal insulating products for building applications - Determination of the apparent density - 4/12/2019, $33.00

TOBACCO AND TOBACCO PRODUCTS (TC 126)

ISO/DIS 22634-1, Cigarettes - Determination of benzo[a]pyrene in cigarette mainstream smoke using GC/MS - Part 1: Method using methanol as extraction solvent - 4/14/2019, $58.00

ISO/DIS 22634-2, Cigarettes - Determination of benzo[a]pyrene in cigarette mainstream smoke using GC/MS - Part 2: Method using cyclohexane as extraction solvent - 4/14/2019, $58.00

WELDING AND ALLIED PROCESSES (TC 44)

ISO/DIS 21904-4, Health and safety in welding and allied processes - Equipment for capture and separation of welding fume - Part 4: Determination of the minimum air volume flow rate of capture devices - 2/14/2019, $53.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 11179-3/DAmd1, Information technology - Metadata registries (MDR) - Part 3: Registry metamodel and basic attributes - Amendment 1 - 4/13/2019, $93.00

ISO/IEC 14496-12/DAmd3, Information technology - Coding of audio-visual objects - Part 12: ISO base media file format - Amendment 3: Corrected audio handling - 4/14/2019, $33.00

ISO/IEC DIS 14165-226, Information technology - Fibre channel - Part 226: Single-byte command code sets mapping protocol - 6 (FC-SB -6) - 4/14/2019, $215.00

ISO/IEC DIS 14165-246, Information technology - Fibre channel - Part 246: Backbone - 6 (FC-BB-6) - 4/14/2019, $203.00

IEC Standards

2/1941/CD, IEC 60034-33 ED1: Rotating electrical machines - Part 33: Specific technical requirements for synchronous hydrogenerators including motor-generators, 2019/4/19

7/682/NP, PNW 7-682: Conductors for overhead lines - Coated or cladded metallic wire for concentric lay stranded conductors, 2019/4/19

8/1512/DTS, IEC TS 62749 ED2: Assessment of power quality - Characteristics of electricity supplied by public networks, 2019/4/19

10/1075/FDIS, IEC 60480 ED3: Specifications for the re-use of sulphur hexafluoride (SF6) and its mixtures in electrical equipment, 019/3/8/

14/1000/FDIS, IEC/IEEE 60214-2 ED2: Tap-changers - Part 2: Application guidelines, 019/3/8/

23A/883/CD, IEC 61534-1/AMD2 ED2: Powertrack systems - Part 1: General requirements, 2019/4/19

23G/417/Q, Proposal for a technical corrigendum to IEC 60320-1 Ed 3:2015, Appliance couplers for household and similar general purposes - Part 1: General requirements, 019/3/8/

23H/439/CD, IEC 62196-6 ED1: Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 6: Dimensional compatibility requirements for DC pin and contact-tube vehicle couplers for DC EV supply equipment where protection relies on electrical separation, 2019/4/19

27/1104/NP, PNW TS 27-1104: Best practice and test methods for vacuum electroheating and electromagnetic processing installations, 2019/4/19

31/1444A/CD, IEC 62990-3 ED1: Workplace atmospheres - Part 3: Gas detectors - Electrical apparatus for the detection and measurement of oxygen - Performance requirements and test methods, 019/3/8/

31/1439/CDV, IEC 60079-29-1/AMD1 ED2: Explosive atmospheres - Part 29-1: Gas detectors - Performance requirements of detectors for flammable gases, 2019/4/19

34D/1455/CD, IEC 60598-2-22/AMD2/FRAG4 ED4: Luminaires - Part 2-22: Particular requirements - Luminaires for emergency lighting, 2019/4/19

45A/1252/CDV, IEC 62859/AMD1 ED1: Amendment 1 - Nuclear power plants - Instrumentation and control systems - Requirements for coordinating safety and cybersecurity, 2019/4/19

46C/1121/CD, IEC 61156-13: Multicore and symmetrical pair/quad cables for digital communications - Part 13: Symmetrical single pair cables with transmission characteristics up to 20 MHz - Horizontal floor wiring - Sectional specification, 2019/4/19

46F/444/CD, IEC 61169-65 ED1: Radio-Frequency-Connectors, Part 65: Sectional specification for RF coaxial connectors with 1,35mm inner diameter of outer conductor, with screw coupling, 50 Ohm characteristic impedance, for use up to 90 GHz., 2019/4/19

46F/446/NP, PNW 46F-446: Radio-frequency connectors - Part XX: Sectional specification for series TRK bayonet coupling triaxial connectors, 2019/4/19

46F/445/NP, PNW 46F-445: Radio-frequency connectors - Part XX: Sectional specification for SMPW series coaxial connectors with push-on coupling, 2019/4/19

46F/447/NP, PNW 46F-447: Radio frequency connectors - Part 1-X: Electrical test methods - Rise time degradation, 2019/4/19

46F/448/CD, IEC 61169-66 ED1: Radio-Frequency-Connectors, Part 66: Sectional specification for RF coaxial connectors with 5mm inner diameter of outer conductor, with screw- and snap-on coupling, 50 Ohm characteristic impedance, for use up to 6 GHz - Type 2,2-5, 2019/4/19

47/2539/FDIS, IEC 60749-18 ED2: Semiconductor devices - Mechanical and climatic test methods - Part 18: Ionizing radiation (total dose), 019/3/8/

47/2538/FDIS, IEC 60749-17 ED2: Semiconductor devices - Mechanical and climatic test methods - Part 17: Neutron irradiation, 019/3/8/

47E/635/CDV, IEC 60747-7/AMD1 ED3: Semiconductor devices - Discrete devices - Part 7: Bipolar transistors, 2019/4/19

47E/637/CDV, IEC 60747-5-8 ED1: Semiconductor devices - Part 5-8: Optoelectronic devices - Light emitting diodes - Test method of optoelectronic efficiencies of light emitting diodes, 2019/4/19

47F/329/FDIS, IEC 62047-36 ED1: Semiconductor devices - Micro-electromechanical devices - Part 36: Environmental and dielectric withstand test methods for MEMS piezoelectric thin films, 019/3/8/

47F/327/FDIS, IEC 62047-33 ED1: Semiconductor devices - Micro-electromechanical devices - Part 33: MEMS piezoresistive pressure-sensitive device, 019/3/8/

47F/328/FDIS, IEC 62047-34 ED1: Semiconductor devices - Micro-electromechanical devices - Part 34: Test methods for MEMS piezoresistive pressure-sensitive device on wafer, 019/3/8/

47F/326/FDIS, IEC 62047-31 ED1: Semiconductor devices - Micro-electromechanical devices - Part 31: Four-point bending test method for interfacial adhesion energy of layered MEMS materials, 019/3/8/

48B/2700A/NP, PNW 48B-2700: Connectors for electrical and electronic equipment - Shielded or unshielded free and fixed connectors for balanced single-pair data transmission with current carrying capacity; General requirements and tests, 019/3/1/

51/1271/FDIS, IEC 63093-12 ED1: Ferrite cores - Guidelines on dimensions and the limits of surface irregularities - Part 12: Ring-cores, 019/3/8/

51/1272/FDIS, IEC 63093-14 ED1: Ferrite cores - Guidelines on dimensions and the limits of surface irregularities - Part 14: EFD-cores, 019/3/8/

55/1735/CDV, IEC 60851-5/AMD2 ED4: Winding wires - Test methods - Part 5: Electrical properties, 2019/4/19

65A/911/DTR, Functional safety - Safety instrumented systems for the process industry sector - Part 4: Explanation and rationale for changes in IEC 61511-1 from Edition 1 to Edition 2, 2019/3/22

65C/942/FDIS, IEC 61784-1 ED5: Industrial communication networks - Profiles - Part 1: Fieldbus profiles, 019/3/8/

65C/943/FDIS, IEC 61784-2 ED4: Industrial communication networks - Profiles - Part 2: Additional fieldbus profiles for real-time networks based on ISO/IEC/IEEE 8802-3, 019/3/8/

65C/947/FDIS, IEC 61158-5-X ED4: Industrial communication networks - Fieldbus specifications - Part 5-X: Application layer service definition - Type X elements, 019/3/8/

65C/945/FDIS, IEC 61158-3-X ED4: Industrial communication networks - Fieldbus specifications - Part 3 - X: Data-link layer service definition - Type X elements, 019/3/8/

65C/946/FDIS, IEC 61158-4-X ED4: Industrial communication networks - Fieldbus specifications - Part 4 - X: Data-link layer protocol specification - Type x elements, 019/3/8/

65C/948/FDIS, IEC 61158-6-X ED4: Industrial communication networks - Fieldbus specifications - Part 6-X: Application layer protocol specification - Type X elements, 019/3/8/

65C/944/FDIS, IEC 61158-1 ED2: Industrial communication networks - Fieldbus specifications - Part 1: Overview and guidance for the IEC 61158 and IEC 61784 series, 019/3/8/

65C/949/CD, IEC 60802 ED1: Time-sensitive networking profile for industrial automation, 2019/3/22

66/687/FDIS, IEC 61010-2-012 ED2: Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2 -012: Particular requirements for climatic and environmental testing and other temperature conditioning equipment, 019/3/8/

76/619/NP, PNW 76-619: ISO 19818: Eye and face protection - Protection against laser radiation - Requirements and test methods, 2019/4/19

86B/4177/CD, IEC 61300-2-4/AMD1 ED2: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-4: Tests - Fibre or cable retention, 2019/3/22

86B/4165/CDV, IEC 61754-35 ED1: Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 35: Type LSHE connector series for harsh environments, 2019/4/19

86B/4178/CD, IEC 61754-7-4 ED1: Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 7 -4: Type MPO connector family - One fibre row 16 fibres wide, 2019/3/22

86B/4176/FDIS, IEC 61754-7-3 ED1: Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 7-3: Type MPO connector family - Two fibre rows 16 fibre wide, 019/3/8/

88/711/FDIS, IEC 61400-21-1 ED1: Wind energy generation systems - Part 21-1: Measurement and assessment of electrical characteristics - Wind turbines, 019/3/8/

89/1464/NP, PNW TS 89-1464 ED1: IEC TS 60695-2-21: Fire hazard testing - Part 2-21: Fire containment test on end products, 2019/4/19

91/1558/NP, PNW 91-1558: Test Method for Mechanical Property of Flexible Optic-Electric Circuit Boards under Thermal Stress, 2019/4/19

99/226/CD, IEC 61936-1 ED3: Power installations exceeding 1 kV AC and 1,5 kV DC - Part 1: AC, 2019/4/19

100/3212/DTR, IEC TR 63239 ED1: Radio Frequency (RF) Beam Wireless Power Transfer/Transmission (WPT) for Mobile devices, 2019/3/22

100/3189/CDV, IEC 62680-1-2 ED4: Universal serial bus interfaces for data and power - Part 1-2: Common components - USB Power Delivery specification, 2019/4/19

104/827/CD, IEC 60068-2-13 ED5: Environmental testing - Part 2-13: Tests - Test M: Low air pressure, 2019/4/19

105/721/FDIS, IEC 62282-6-400 ED1: Fuel cell technologies - Part 6 -400: Micro fuel cell power systems - Power and data interchangeability, 019/3/8/

110/1067/CDV, IEC 62908-12-20 ED1: Touch and interactive displays - Part 12-20: Measuring methods of touch displays - Multi-touch performance, 2019/4/19

111/511/CDV, IEC 62474/AMD1 ED2: Amendment 1 - Material declaration for products of and for the electrotechnical industry, 2019/4/19

113/455/DTS, IEC TS 62607-6-13 ED1: Nanomanufacturing - Key control characteristics - Part 6-13: Graphene powder - Oxygen functional groups content: Boehm titration method, 2019/4/19

113/453/NP, PNW TS 113-453 ED1: IEC TS 62607-2-2: Nanomanufacturing - Key control Characteristics - Part 2-2: Carbon Nanotube Materials - EM Shielding Effectiveness with Near Field Probe for CNTs, 2019/4/19

113/454/DTS, IEC TS 62607-6-1 ED1: Nanomanufacturing - Key control characteristics - Part 6-1: Graphene powder - Volume resistivity: four probe method, 2019/4/19

114/305/CD, IEC TS 62600-1 ED2: Marine energy - Wave, tidal and other water current converters - Part 1: Terminology, 2019/3/22

117/104/DTS, IEC TS 62862-3-3 ED1: Solar thermal electric plants - Part 3-3: Systems and components - General requirements and test methods for solar receivers, 2019/4/19

120/143/NP, PNW TS 120-143: Electric Energy Storage Systems; Part 2-2: Unit parameters and testing methods - Applications and Performance testing, 2019/2/22

124/52/CD, IEC 63203-406-1 ED1: Wearable electronic devices and technologies - Part 406-1: Test methods of wrist worn wearable electronic devices for measuring skin contact temperature, 2019/4/19

CIS/B/720/NP, PNW CIS/B-720: Industrial, scientific and medical equipment - Limits and methods of in situ measurements and measurements of large size/high power equipment, 2019/4/19

JTC1-SC25/2856/NP, PNW JTC1-SC25-2856: ISO/IEC 17760-103: Information technology - AT Attachment - Part 103: ATA/ATAPI Command Set - 3 (ACS-3), 2019/4/19

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

FOOTWEAR (TC 216)

ISO 20150:2019, Footwear and footwear components - Quantitative challenge test method to assess antifungal activity, $68.00

INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)

ISO 18828-5:2019, Industrial automation systems and integration - Standardized procedures for production systems engineering - Part 5: Manufacturing change management, $162.00

LIGHT AND LIGHTING (TC 274)

ISO/CIE 20086:2019, Light and lighting - Energy performance of lighting in buildings, $209.00

NON-DESTRUCTIVE TESTING (TC 135)

ISO 16836:2019, Non-destructive testing - Acoustic emission testing - Measurement method for acoustic emission signals in concrete, $68.00

ISO 16837:2019, Non-destructive testing - Acoustic emission testing - Test method for damage qualification of reinforced concrete beams, $45.00

ISO 16838:2019, Non-destructive testing - Acoustic emission testing - Test method for classification of active cracks in concrete structures, $45.00

NUCLEAR ENERGY (TC 85)

ISO 10979:2019, Identification of fuel assemblies for nuclear power reactors, $45.00

SPORTS AND RECREATIONAL EQUIPMENT (TC 83)

ISO 20740:2019, Martial arts - Wushu Taiji sword - Requirements and test method, $68.00

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

ISO 23599:2019, Assistive products for blind and vision-impaired persons - Tactile walking surface indicators, $185.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 14496-22:2019, Information technology - Coding of audio-visual objects - Part 22: Open Font Format, $232.00

OTHER

ISO/IEC TS 17021-8:2019, Conformity assessment - Requirements for bodies providing audit and certification of management systems - Part 8: Competence requirements for auditing and certification of management systems for sustainable development in communities, $68.00

IEC Standards

AUDIO, VIDEO AND MULTIMEDIA SYSTEMS AND EQUIPMENT (TC 100)

IEC 62680-1-3 Ed. 3.0 b:2018, Universal Serial Bus interfaces for data and power - Part 1-3: Common components - USB Type-C™ Cable and Connector Specification, $410.00

IEC 62680-1-4 Ed. 1.0 b:2018, Universal Serial Bus interfaces for data and power - Part 1-4: Common components - USB Type-C™ Authentication Specification, $352.00

CAPACITORS AND RESISTORS FOR ELECTRONIC EQUIPMENT (TC 40)

IEC 60384-21 Ed. 3.0 b:2019, Fixed capacitors for use in electronic equipment - Part 21: Sectional specification - Fixed surface mount multilayer capacitors of ceramic dielectric, Class 1, $281.00

IEC 60384-22 Ed. 3.0 b:2019, Fixed capacitors for use in electronic equipment - Part 22: Sectional specification - Fixed surface mount multilayer capacitors of ceramic dielectric, Class 2, $281.00

S+ IEC 60384-21 Ed. 3.0 en:2019 (Redline version), Fixed capacitors for use in electronic equipment - Part 21: Sectional specification - Fixed surface mount multilayer capacitors of ceramic dielectric, Class 1, $366.00

S+ IEC 60384-22 Ed. 3.0 en:2019 (Redline version), Fixed capacitors for use in electronic equipment - Part 22: Sectional specification - Fixed surface mount multilayer capacitors of ceramic dielectric, Class 2, $366.00

ELECTRIC ROAD VEHICLES AND ELECTRIC INDUSTRIAL TRUCKS (TC 69)

IEC 61851-21-2 Ed. 1.0 b:2018, Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems, $281.00

ELECTRIC WELDING (TC 26)

IEC 60974-2 Ed. 4.0 b:2019, Arc welding equipment - Part 2: Liquid cooling systems, $117.00

IEC 60974-3 Ed. 4.0 b:2019, Arc welding equipment - Part 3: Arc striking and stabilizing devices, $164.00

IEC 60974-5 Ed. 4.0 b:2019, Arc welding equipment - Part 5: Wire feeders, $164.00

IEC 60974-7 Ed. 4.0 b:2019, Arc welding equipment - Part 7: Torches, $235.00

ELECTRICAL ACCESSORIES (TC 23)

IEC 60934 Ed. 4.0 b:2019, Circuit breakers for equipment (CBE), $375.00

S+ IEC 60934 Ed. 4.0 en:2019 (Redline version), Circuit breakers for equipment (CBE), $488.00

NUCLEAR INSTRUMENTATION (TC 45)

IEC 62765-2 Ed. 1.0 b:2019, Nuclear power plants - Instrumentation and control important to safety - Management of ageing of sensors and transmitters - Part 2: Temperature sensors, $235.00

POWER TRANSFORMERS (TC 14)

IEC 60076-22-1 Ed. 1.0 b:2019, Power transformers - Part 22-1: Power transformer and reactor fittings - Protective devices, $352.00

SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (TC 61)

IEC 60335-2-36 Ed. 6.0 b:2017, Household and similar electrical appliances - Safety - Part 2-36: Particular requirements for commercial electric cooking ranges, ovens, hobs and hob elements, $235.00

SEMICONDUCTOR DEVICES (TC 47)

IEC 63068-1 Ed. 1.0 en:2019, Semiconductor devices - Non-destructive recognition criteria of defects in silicon carbide homoepitaxial wafer for power devices - Part 1: Classification of defects, $164.00

IEC 63068-2 Ed. 1.0 en:2019, Semiconductor devices - Non-destructive recognition criteria of defects in silicon carbide homoepitaxial wafer for power devices - Part 2: Test method for defects using optical inspection, $164.00

SOLAR PHOTOVOLTAIC ENERGY SYSTEMS (TC 82)

IEC 60904-SER Ed. 1.0 b:2019, Photovoltaic devices - ALL PARTS, $1318.00

TERMINOLOGY (TC 1)

IEC 60050-112 Amd.1 Ed. 1.0 b:2019, Amendment 1 - International Electrotechnical Vocabulary (IEV) - Part 112: Quantities and units, $47.00

IEC 60050-691 Amd.1 Ed. 1.0 b:2019, Amendment 1 - International Electrotechnical Vocabulary (IEV) - Part 691: Tariffs for electricity, $12.00

IEC Technical Reports

CABLES, WIRES, WAVEGUIDES, R.F. CONNECTORS, AND ACCESSORIES FOR COMMUNICATION AND SIGNALLING (TC 46)

IEC/TR 62839-2 Ed. 1.0 en:2019, Environmental declaration - Part 2: Optical/copper telecom accessories products specific rules, $82.00

FIBRE OPTICS (TC 86)

IEC/TR 63194 Ed. 1.0 en:2019, Guidance on colour coding of optical fibre cables, $235.00

NUCLEAR INSTRUMENTATION (TC 45)

IEC/TR 63192 Ed. 1.0 en:2019, Nuclear power plants - Instrumentation and control systems important to safety - Hazard analysis: A review of current approaches, $317.00

OTHER

IEC/TR 62559-1 Ed. 1.0 b:2019, Use case methodology - Part 1: Concept and processes in standardization, $281.00

IEC Technical Specifications

PROCESS MANAGEMENT FOR AVIONICS (TC 107)

IEC/TS 62686-2 Ed. 1.0 en:2019, Process management for avionics - Electronic components for aerospace, defence and high performance (ADHP) applications - Part 2: General requirements for passive components, $317.00

SOLAR PHOTOVOLTAIC ENERGY SYSTEMS (TC 82)

IEC/TS 62994 Ed. 1.0 en:2019, Photovoltaic (PV) modules through the life cycle - Environmental health and safety (EH&S) risk assessment - General principles and nomenclature, $235.00

IEC/TS 60904-1-2 Ed. 1.0 en:2019, Photovoltaic devices - Part 1-2: Measurement of current-voltage characteristics of bifacial photovoltaic (PV) devices, $117.00

Proposed Foreign Government Regulations

Call for Comment

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

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

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

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

For further information about the USA TBT Inquiry Point, please visit: https://www.nist.gov/standardsgov/what-we-do/trade-regulatory-programs/usa-wto-tbt-inquiry-point

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

Information Concerning

American National Standards

Call for Members

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

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

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

Membership in the INCITS Executive Board is open to all directly and materially affected parties in accordance with INCITS membership rules. To find out more about participating on the INCITS Executive Board, contact Jennifer Garner at jgarner@itic.org or visit http://www.incits.org/participation/membership-info for more information.

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

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

Society of Cable Telecommunications

ANSI Accredited Standards Developer

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

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

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

International Organization for Standardization (ISO)

Call for U.S. TAG Administrator

TC 34/SC 15 – Coffee

There is currently no ANSI-accredited U.S. TAG Administrator for TC 34/SC 15, and therefore ANSI is has relinquished membership in this committee. The Secretariats for this subcommittee is currently held by Colombia (ICONTEC).

TC 34/SC 15 operates under the following scope:

> Standardization in the field of coffee and coffee products, covering the coffee chain from green coffee to consumption, in particular. Standardization includes terminology, sampling, test methods and analysis, product specifications and requirements for packaging, storage and transportation

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

Establishment of ISO Technical Committee

ISO/TC 324 – Sharing Economy

A new ISO Technical Committee, ISO/TC 324, Sharing economy, has been formed. The Secretariat has been assigned to Japan (JISC).

ISO/TC 324 operates under the following scope:

> Standardization in the field of sharing economy. Excluded: Technical aspects of information security or risk management guidelines already covered by ISO/IEC JTC 1/SC27 and ISO/TC 262, respectively.

The Organization for the Advancement of Structured Information Standards (OASIS) has indicated its intent to partner with ANSI to administer the U.S. TAG. Organizations interested in participating on the U.S. TAG should contact ANSI's ISO Team (isot@ansi.org).

U.S. Technical Advisory Groups

Notice of TAG Reaccreditation

U.S. TAG to ISO TC 23/SC 13 – Power Lawn and Garden Equipment and SC 17 – Manually Portable Forest Machinery

The reaccreditation of the US TAG to ISO TC 23/SC 13, Power lawn and garden equipment, and SC 17, Manually portable forest machinery, has been approved at the direction of the ANSI Executive Standards Council, under its recently revised operating procedures and with the Outdoor Power Equipment Institute (OPEI) continuing as TAG Administrator, effective January 25, 2019. For additional information, please contact: Mr. Daniel J. Mustico, Vice-President, Government and Market Affairs, Outdoor Power Equipment Institute, 1605 King Street, 3rd Floor, Alexandria, VA 22314; phone: 703.678.2990; e-mail: dmustico@opei.org.

Information Concerning

ANSI Accredited Standards Developers

Call for Members

PDA® Standards Development

Notification Deadline: March 28, 2019

PDA is very pleased to announce the launch of the Parenteral Drug Association's third standard! We are seeking volunteer participants to assist in developing, writing, and fine tuning the following proposal:

Standard Practice for Quality Risk Management of Aseptic Processes (new standard).

This is a practical standard to guide industry and regulators seeking to apply, or evaluate, Quality Risk Management principles in decisions related to:

- planning,
- design,
- qualification,
- operation,
- monitoring, and
- investigation of the various aspects of Aseptic Processing.

This proposed American National Standard (ANS) was presented by Mr. Hal Baseman, Chief Operating Officer, ValSource Inc.

Those individuals involved in Quality Assurance, Quality control, Quality Engineering, Operations, Production and Manufacturing, MSAT and Process Development, Engineering and Maintenance, Validation, Regulatory, International Health Authority Reviewers and Inspectors are being sought.

Nominations/Volunteers to serve as a member of the technical team (consensus body) must have some subject matter expertise, and willing to help write/contribute to this standard. Applicants should apply by contacting the PDA Standards Manager at standards@pda.org. The deadline to submit notification of interest in serving on the consensus body is **March 28, 2019**.

Information Concerning

U.S. National Committee of the IEC (USNC) and International Electrotechnical Commission (IEC)

USNC Needs Representative to Join IEC/SMB Advisory Committee on Safety (ACOS)

The term of the current US representative on ACOS ends in September 2019. Therefore, the USNC is looking for a new expert to take on this US representative position. Please note, two individuals have already expressed interest in this role.

One of the main responsibilities of any US representative is to provide status reports on the work of their committee to the USNC Technical Management Committee (TMC), which is the governing body that handles all USNC technical matters. The TMC meets three times a year, which means the timely submission of three brief reports a year. Reports can be provided in writing or via telephone so there is no mandatory travel involved. Other important duties include, but are not limited to, accurately representing US positions within the AC and communicating with effected US parties regarding any outcomes or decisions of the AC.

If you are interested in being the US representative on ACOS, please contact Kendall Szulewski-Francis, USNC Sr. Program Administrator, at ksfrancis@ansi.org.

Scope:

ACOS (Advisory Committee on Safety), which reports to the SMB (Standardization Management Board), deals with safety matters which are not specific to one single TC (Technical Committee) of the IEC. Its task is to guide and coordinate IEC work on safety matters in order to ensure consistency in IEC safety standards.

ACOS is responsible for the assignment of Horizontal and Group Safety Functions to TCs, subject to confirmation by the SMB, which are thereby mandated to prepare Basic Safety/Group Safety Publications. The aim of these publications is to provide a coherent set of safety standards thus ensuring consistency of IEC standards in areas common to a number of TCs.

ACOS is responsible for the following guides:

- *IEC Guide 104 lays down the preparation of safety publications and the use of Basic Safety / Group Safety publications. It also describes the relationship between TCs with Horizontal and Group Safety Functions and product TCs*
- *IEC Guide 110 gives background information to technical committees when dealing with safety requirements for products intended to be integrated in a home control system. It covers functional safety as well as conventional safety aspects*
- *IEC Guide 112 provides guidelines for using the current editions of IEC 60065 and IEC 60950-1 in evaluating the safety of multimedia equipment*
- *IEC Guide 116 gives guidelines for safety related risk assessment and risk reduction for low voltage equipment*
- *IEC Guide 117 provides guidance for assessing the risk, to any person, of a burn from contact with hot touchable surfaces of electrotechnical equipment*

- *ISO/IEC Guide 51 provides guidelines for the inclusion of safety aspects in standards; this guide was developed in cooperation with ISO*
- ISO/IEC Guide 50 *addresses potential sources of bodily harm to children from products that they use, or with which they are likely to come into contact, even if not specifically intended for children*

BSR/ASHRAE/IES Addendum bx
to ANSI/ASHRAE/IES Standard 90.1-2016

Public Review Draft

Proposed Addendum bx to Standard 90.1-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings

First Public Review (February 2019)
(Draft Shows Proposed Changes to Current Standard)

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

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE website, www.ashrae.org.

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

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

FOREWORD

Appendix A contains F-factors for heated slabs, but does not include combinations of perimeter insulation that has a different R-Value than the under-slab insulation. This addenda adds heated slab F-factors for multiple combinations of under-slab and perimeter insulation. These values were derived from a regression of the current heated slab F-factors for fully insulated, uninsulated, and 12" vertical perimeter insulation taken from Table A6.3.1 Assembly F-Factors for Slab-on-Grade Floors.

This proposal does not impact cost effective analysis as we are adding additional values to the appendix. Criteria has not changed.

[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by <u>underlining</u> (for additions) and ~~strikethrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.]

Addendum bx to 90.1-2016

Modify the standard as follows (IP and SI Units)

A6 SLAB-ON-GRADE FLOORS

A6.1 General

For the purpose of Section A1.2, the base assembly is a slab *floor* of 6 in. concrete poured directly on to the earth, the bottom of the slab is at *grade* line, and soil conductivity is 0.75 Btu/h·ft·°F. In contrast to the *U-factor* for *floors*, the *F-factor* for *slab-ongrade floors* is expressed per linear foot of *building* perimeter. *F-factors* are provided for unheated slabs and for heated slabs. *Unheated slab-on-grade floors* do not have heating elements, and *heated slab-on-grade floors* do have heating elements within or beneath the slab. *F-factors* are provided for ~~three~~ <u>five</u> insulation configurations:

a. Horizontal Insulation: *Continuous insulation* is applied directly to the underside of the slab and extends inward horizontally from the perimeter for the distance specified, or *continuous insulation* is applied downward from the top of the slab and then extends horizontally to the interior or the exterior from the perimeter for the distance specified.
b. Vertical Insulation: *Continuous insulation* is applied directly to the slab exterior, extending downward from the top of the slab for the distance specified.
c. Fully Insulated Slab: *Continuous insulation* extends downward from the top of the slab and along the entire perimeter and completely covers the entire area under the slab.
<u>d. Under-Slab Insulation only: Insulation installed under the entire slab. The slab edge remains uninsulated.</u>

e. Uninsulated: Slabs without insulation under the slab and at the slab edge.

A6.2 Rated R-Value of Insulation for Slab-on-Grade Floors

A6.2.1

The *rated R-value of insulation* shall be installed around the perimeter of the *slab-ongrade floor* to the distance specified.

Exception to A6.2.1

For a monolithic *slab-on-grade floor*, the insulation shall extend from the top of the slab-on-*grade* to the bottom of the footing.

A6.2.2

Insulation installed inside the foundation *wall* shall extend downward from the top of the slab a minimum of the distance specified or to the top of the footing, whichever is less.

A6.2.3

Insulation installed outside the foundation *wall* shall extend from the top of the slab or downward to at least the bottom of the slab and then horizontally to a minimum of the distance specified. In all climates, the horizontal insulation extending outside of the foundation shall be covered by pavement or by soil a minimum of 10 in. thick.

A6.3 F-Factors for Slab-on-Grade Floors

A6.3.1

F-factors for *slab-on-grade floors* shall be taken from Table A6.3.1-1 or A6.3.1-2.

A6.3.2

These *F-factors* are acceptable for all *slab-on-grade floors*.

Table A6.3.1-1 Assembly F-Factors for Slab-on-Grade Floors

Insulation Description	Rated R-Value of Insulation												
	~~R-0.0~~ R-3.5	R-5	R-7.5	R-10	R-15	R-20	R-25	R-30	R-35	R-40	R-45	R-50	R-55
Unheated Slabs													
~~None 0.73~~													
Uninsulated: 0.73													
No change to other unheated slab values													
Heated Slabs													
~~None~~ Uninsulated: 1.35	~~1.35~~												
12 in. horizontal		1.31	1.31	1.30	1.30								
24 in. horizontal		1.28	1.27	1.26	1.25								
36 in. horizontal		1.24	1.21	1.20	1.18								
48 in. horizontal		1.20	1.17	1.13	1.11								
12 in. vertical		1.06	1.02	1.00	0.98	0.968	0.964	0.961					
24 in. vertical		0.99	0.95	0.90	0.86	0.843	0.832	0.827					
36 in. vertical		0.95	0.89	0.84	0.79	0.762	0.747	0.740					
48 in. vertical		0.91	0.85	0.78	0.72	0.688	0.671	0.659					
Fully insulated slab		0.74	0.64	0.55	0.44	0.373	0.326	0.296	0.273	0.255	0.239	0.227	0.217
Under-slab insulation only	1.06	1.01	0.95	0.90	0.82	0.76							

Table A6.3.1-2 Assembly F-Factors for Fully Insulated Heated Slab-on-Grade Floors

Insulation Description	Rated R-Value of Edge Insulation							
	R-3.5	R-5	R-7.5	R-10	R-15	R-20	R-25	R-30
Heated Slabs								
R-3.5 under slab	0.81	0.78	0.74	0.71	0.69	0.671	0.670	0.669
R-5 under slab	0.77	0.74	0.69	0.66	0.62	0.602	0.602	0.601
R-7.5 under slab	0.71	0.67	0.64	0.60	0.58	0.566	0.564	0.563
R-10 under slab	0.66	0.62	0.58	0.55	0.51	0.496	0.494	0.493
R-15 under slab	0.57	0.54	0.50	0.47	0.45	0.433	0.432	0.431
R-20 under slab	0.51	0.48	0.44	0.41	0.39	0.371	0.370	0.369

Table A6.3.1-1 Assembly F-Factors for Slab-on-Grade Floors (SI)

Insulation Description	*Rated R-Value of Insulation*												
	~~R-0.0~~ R-0.6	R-0.9	R-1.3	R-1.8	R-2.6	R-3.5	R-4.4	R-5.3	R-6.2	R-7.0	R-7.9	R-8.8	R-9.7
Unheated Slabs													
~~None~~	~~1.26~~												
Uninsulated: 1.26													
No change to other unheated slab values													
Heated Slabs													
~~None~~	~~2.33~~												
Uninsulated: 2.33													
300 mm horizontal		2.27	2.26	2.26	2.25								
600 mm horizontal		2.21	2.19	2.18	2.16								
900 mm horizontal		2.14	2.10	2.07	2.04								
1200 mm horizontal		2.08	2.02	1.96	1.92								
300 mm vertical		1.84	1.76	1.73	1.70	1.67	1.67	1.66					
600 mm vertical		1.72	1.64	1.57	1.50	1.46	1.44	1.43					
900 mm vertical		1.64	1.54	1.45	1.36	1.32	1.29	1.28					
1200 mm vertical		1.57	1.47	1.35	1.25	1.19	1.16	1.14					
Fully insulated slab		1.28	1.11	0.95	0.76	0.65	0.56	0.51	0.47	0.44	0.41	0.39	0.38
Under-slab insulation only	1.83	1.75	1.64	1.56	1.42	1.32							

Table A6.3.1-2 Assembly F-Factors for Fully Insulated Heated Slab-on-Grade Floors (SI)

Insulation Description	Rated R-Value of Edge Insulation							
	R-0.6	R-0.9	R-1.3	R-1.8	R-2.6	R-3.5	R-4.4	R-5.3
Heated Slabs								
R-0.6 under slab	1.40	1.35	1.27	1.22	1.19	1.16	1.16	1.16
R-0.9 under slab	1.33	1.28	1.19	1.14	1.07	1.04	1.04	1.04
R-1.3 under slab	1.22	1.16	1.11	1.04	1.01	0.98	0.98	0.97
R-1.8 under slab	1.13	1.08	1.00	0.95	0.88	0.85	0.85	0.85
R-2.6 under slab	0.99	0.93	0.86	0.81	0.78	0.75	0.75	0.75
R-3.5 under slab	0.89	0.83	0.75	0.70	0.67	0.64	0.64	0.64

Public Review Draft

Proposed Addendum b to Standard 189.1-2017

Standard for the Design of High-Performance Green Buildings

Except Low-Rise Residential Buildings

Second Public Review (February 2019)
(Draft Shows Proposed Independent Substantive Changes to Previous Public Review Draft)

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

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Foreword

This ISC would limit the use of the "Section 7.4.1.1.2, Alternate Renewables Approach: Reduced On-Site Renewable Energy Systems and Higher-Efficiency Equipment" to building projects that are less than 25,000 square feet. This threshold is the same as that for the simplified mechanical system approach for compliance with ASHRAE 90.1, which is also 25,000 square feet. Larger buildings will be able to comply with the standard by either complying prescriptively to the on-site renewables requirements in Section 7.4.1.1.1 or calculating trade-offs between energy efficiency and on site renewables by using the performance approach in Section 7.5.

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

Addendum b to 189.1-2017

Modify Section 7.4.1.1 as follows:

7.4.1.1 On-Site Renewable Energy Systems. *Building projects* shall comply with either the Standard Renewables Approach in Section 7.4.1.1.1 or the Alternate Renewables Approach in Section 7.4.1.1.2. Section 7.4.1.1.2 shall apply only to *building projects* ~~that meet one of the following requirements:~~

a. ~~The *building project* shall comply with ANSI/ASHRAE/IES Standard 90.1 Section 6.3 Simplified Approach Option for HVAC Systems.~~
b. ~~The~~ where the sum of the *gross conditioned* and *semi-heated floor areas* of the *building project* are ~~shall be~~ less than 25,000~~10,000~~ ft^2 (2300~~930~~ m^2).

7.4.1.1.1 Standard Renewables Approach: Baseline On-Site Renewable Energy Systems. *Building projects* shall contain *on-site renewable energy systems* that provide the annual energy production equivalent of not less than 6.0 kBtu/ft^2 (20 kWh/m^2) multiplied by the

horizontal projection of the *gross roof area* in feet squared (metres squared) for single-story buildings, and not less than 10.0 kBtu/ft^2 (32 kWh/m^2) multiplied by the horizontal projection of the *gross roof area* in feet squared (metres squared) for all other buildings. The annual energy production shall be the combined sum of all *onsite renewable energy systems.* Documentation shall be provided to the *AHJ* that indicates that the *renewable energy certificates* (*RECs*) associated with the *on-site renewable energy system* will be retained and retired by the *owner*. Where the building *owner* does not have ownership of the *RECs* associated with the *on-site renewable energy system*, the *owner* shall obtain and retire an equal or greater quantity of *RECs*.

Exceptions to 7.4.1.1.1: Buildings that demonstrate compliance with both of the following are not required to contain *on-site renewable energy systems*:

1. An annual daily average incident solar radiation available to a flat plate collector oriented due south at an angle from horizontal equal to the latitude of the collector location less than 4.0 kWh/m^2·day (1.2 kBtu/ft^2/day), accounting for existing buildings, permanent infrastructure that is not part of the *building project*, topography, and trees.
2. A commitment to purchase renewable electricity products, complying with the Green-e Energy National Standard for Renewable Electricity Products, of at least 7 kWh/ft^2 (75 kWh/m^2) of *conditioned space* each year until the cumulative purchase totals 70 kWh/ft^2 (750 kWh/m^2) of *conditioned space*.

7.4.1.1.2 Alternate Renewables Approach: Reduced On-Site Renewable Energy Systems and Higher-Efficiency Equipment. *Building projects* complying with this approach shall comply with the applicable equipment efficiency requirements in Normative Appendix B, the water-heating efficiency requirements in Section 7.4.4.1, equipment efficiency requirements in Section 7.4.7.1, and the applicable ENERGY STAR® requirements in Section 7.4.7.3.2, and shall contain *on-site renewable energy systems* that provide the annual energy production equivalent of not less than 4.0 kBtu/ft^2 (13 kWh/m^2) multiplied by the horizontal projection of the *gross roof area* in feet squared (metres squared) for single-story buildings, and not less than 7.0 kBtu/ft^2 (22 kWh/m^2) multiplied by the horizontal projection of the *gross roof area* in feet squared (metres squared) for all other buildings. The annual energy production shall be the combined sum of all *on-site renewable energy systems.* For equipment listed in Section 7.4.7.3.2 that are also contained in Normative Appendix B, the installed equipment shall comply by meeting or exceeding both requirements.

Documentation shall be provided to the *AHJ* that indicates that the *RECs* associated with the *on-site renewable energy system* will be retained and retired by the *owner*. Where the building *owner* does not have ownership of the *RECs* associated with the *on-site renewable energy system*, the *owner* shall obtain and retire an equal or greater quantity of *RECs*.

Note to reviewers:
Section 7.4.1.1 is also modified by addendum j which is not yet published. Addendum j replaces Sections 7.4.1.1 with Sections 7.4.1.1 through 7.4.1.3. The combined text of this addendum and addendum j is shown below for the convenience of the reviewer. Modifications that reflect the combined impact of addendum j and this addendum, but which do not appear explicitly in either, are shown below in strikethrough/underline.

7.4.1.1 Renewable Energy Systems. The adjusted renewable energy provided to the project shall be equal to or greater than the gross conditioned and semi-heated floor areas of the *building project* in feet squared (meters squared) multiplied by the renewable energy requirement from Table 7.4.1.1.
Building projects complying with the Alternate Renewables Approach shall comply with the applicable equipment efficiency requirements in Normative Appendix B, the water-heating efficiency requirements in Section 7.4.4.1, equipment efficiency requirements in Section 7.4.7.1, and the applicable ENERGY STAR® requirements in Section 7.4.7.3.2. For equipment listed in Section 7.4.7.3.2 that are also contained in Normative Appendix B, the installed equipment shall comply by meeting or exceeding both requirements. ~~Section 7.4.1.1.2~~ The Alternate Renewables Approach shall apply only to *building projects* where the sum of the *gross conditioned* and *semi-heated floor areas* of the *building project* are less than 25,000 ft^2 (2300 m^2).

Exception to 7.4.1.1: *Building projects* that demonstrate to the *AHJ* that they cannot comply with Section 7.4.1.1 shall contract for renewable electricity products complying with the Green-e Energy National Standard for Renewable Electricity products of not less than 1.2 MWh/ft^2 (12.6 MWh/m^2) of gross area of *conditioned spaces and semiheated spaces,* or an amount equal to 100% of the modeled annual energy usage multiplied by 20 years, whichever is less. A combination of renewable electricity products and renewable energy systems shall be permitted to demonstrate compliance.

Table 7.4.1.1 Renewable Energy Requirement

	Standard Renewables Approach		Alternate Renewables Approach	
Building Type	**kBtu/ft²-y**	**kWh/m²-y**	**kBtu/ft²-y**	**kWh/m²-y**
Office	14	44	13	40
Retail	24	74	21	67
School	19	61	17	55
Healthcare	40	126	36	113
Restaurant	40	126	36	113
Hotel	34	108	31	98
Apartment	22	68	20	62
Warehouse	8	26	7	23
All Others	25	80	23	72

7.4.1.2 Adjusted Renewable Energy. Each source of renewable energy delivered to or credited to the *building project* shall be multiplied by the factors in Table 7.4.1.2 when determining compliance with Section 7.4.1.1.

Where multiple buildings in a *building project* are served by the same *on-site renewable energy system*, the *owner* shall allocate for not less than 20 years the energy production of the system to the buildings served by the system. On-site renewable energy production that is not allocated, but that is reserved for future use, shall be documented as part of the *building project.*

Documentation of allocation shall be retained by the building *owner* and made available for inspection by the *AHJ* upon request.

Qualifying renewable energy sources are as follows:

a. *On Site Renewable Energy System*

b. Directly Owned Off-Site Renewable Energy System – an offsite renewable energy system compliant with Section 7.4.1.3, owned by the *building project owner*.

c. *Community Renewable Energy Facility* –The system shall comply with Section 7.4.1.3.

d. Virtual PPA – a power purchase agreement for offsite renewable energy compliant with Section 7.4.1.3, where the *owner* agrees to purchase renewable energy output at a fixed price schedule.

Table 7.4.1.2 Multipliers for Renewable Energy Procurement Methods

Location	Renewable Energy Source	Renewable Energy Factor
On-Site	*On Site Renewable Energy System*	1.00
Off-Site	Directly Owned Off-Site Renewable Energy System	0.75
	Community Renewable Energy System	0.75
	Virtual PPA	0.75

7.4.1.3 Off-Site Renewable Energy Requirements.

Off-site renewable energy delivered or credited to the *building project* to comply with 7.4.1.1 shall be subject to a legally binding contract to procure qualifying off-site renewable energy.

Where the renewable energy producer ceases operation, the building *owner* shall procure alternative qualifying renewable energy. Qualifying off-site renewable energy shall meet the following requirements:

1. Documentation of off-site renewable energy procurement shall be submitted to the *AHJ*.
2. The procurement contract shall have a duration of not less than 20 years. The contract shall be structured to survive a partial or full transfer of ownership of the property.
3. *RECs* and other environmental attributes associated with the procured off-site renewable energy shall be assigned to the *building project* for a period of not less than 20 years.
4. The energy source shall produce electricity from solar, wind, or *geothermal energy*.
   Exception to 7.4.1.3 Part 4: Captured methane from feed-lots and landfills are permitted to be used to generate electricity for the purposes of this section.
5. The generation source shall be located where the energy can be delivered to the building *site* by any of the following:
   a. By direct connection to the off-site renewable energy facility
   b. By the local utility or distribution entity
   c. By an interconnected electrical network where energy delivery capacity between the generator and the building *site* is available (***Informative Note****:* Examples of interconnected electrical networks include regional power pools and regions served by Independent System Operators or Regional Transmission Organizations.)
6. Records on power sent to or purchased by the *building project* from the off-site renewable energy producer that specifically assign power production to the *building project* shall be retained by the building *owner* and made available for inspection by the *AHJ* upon request.
7. Where multiple buildings in a *building project* are allocated energy procured by a contract subject to this Section, the owner shall allocate for not less than 20 years the energy procured by the contract to the buildings in the *building project*. Procured energy not allocated before issuance of the certificate of occupancy is permitted to be reserved for allocation to new or existing buildings included in the *building project*. This documentation shall be retained by the building *owner* and made available for inspection by the *AHJ* upon request.

ASME BPVC.II-20XX Part C

Record 16-2197

Amendments

The following Amendments have been identified and are incorporated in this reprint.

AWS Standard: A5.35/A5.35M: 2015-AMD1

Amendment Number: 1

Subject: Subclause 1.1, paragraph 2

This specification does not govern depth of water capability or maximum exposure time for wet welding electrodes classified to this document. However, such testing information shall be recorded as required by Figure 1. Water depth of welding shall also be shown as required by the marking requirements of Clause 14.

AWS Standard: A5.35/A5.35M: 2015-AMD1

Amendment Number: 1

Subject: Figure 1, line 4

Water Depth of Test Welding _____ Electrode Exposure Time _____ Water: Fresh, Salt _____

AWS Standard: A5.35/A5.35M: 2015-AMD1

Amendment Number: 1

Subject: Subclause 14.1, (6), (7)

14.1 Identification. The following information (as a minimum) shall be legibly marked on the outside of each unit package:

(1) This specification number,

(2) Supplier's name and trade designation,

(3) Electrode size and net weight of container,

(4) Lot number,

(5) AWS A5.35/A5.35M Electrode classification,

(6) Electrode operating characteristics (DCEP and/or DCEN, amperage, and voltage range), and

(7) Water depth of test welding.

Record 17-1159

Section II, Part C *Adoption of AWS A5.10/A5.10M:2017 "Welding Consumables - Wire Electrodes, Wires and Rods for Welding of Aluminum and Aluminum Alloys - Classification" as SFA-5.10/SFA-5.10M*

Note to editor: This first page is not part of AWS A5.10/A5.10M:2017 and should not be included in the incorporation into Section II-C.

Significant changes to previous version of AWS A5.10.

Note that all changes are in a non-normative (informative) annex, but this annex is published in Section II, Part C

- *Added Clause A10, "Mechanical Properties of Weld Metal"*
- *Added Table A.2—Typical Historical Properties of Aluminum Filler Metals (as-welded condition)*
- *Added Table A.3—Weld Metal Test Results (All weld-metal—as welded)—developed by the methodology of Clause A10*
- *Added Table A.4—Weld Metal Test Results (All weld-metal—PWHT)—developed by the methodology of Clause A10*
- *Added Figure A.1, "Preparation of Test Piece"*

Tracking #50i151r1 **Revision to NSF/ANSI 50-2017**
 Draft 1, Issue 151 (January 2019)

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

NSF/ANSI Standard

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

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

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Annex E
(normative)

Test methods for the evaluation of recessed automatic skimmers

NOTE — The test conditions specified in this Annex are not intended to represent recommended field use conditions.

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E.3 Equalizer leakage test

E.3.1 Purpose

The purpose of this test is to verify that the leakage of water through the equalizer does not exceed 10% of the total flow through the skimmer under normal operating conditions.

E.3.2 Apparatus

— turbidimeter scaled in NTU accurate to ± 2 NTU;
— temperature-indicating device accurate to ± 2 °F (± 1 °C);
— adequately sized tank and pump to deliver required flow; and
— two flow measuring devices accurate to ± 1.5% or ± 1 GPM (± 4 LPM), whichever is greater.

E.3.3 Test water

	Swimming pools	Hot tubs / spas
water temperature	75 ± 10 °F (24 ± 6 °C)	102 ± 5 °F (39 ± 3 °C)

turbidity	≤ 15 NTU	≤ 15 NTU

E.3.4 Equalizer leakage test method

a) Install the skimmer to the test tank in accordance with the manufacturer's instructions.

b) Connect one flow meter to the skimmer's equalizer inlet port and one to the skimmer outlet port.

c) Fill the tank to the skimmer's normal operating level and set the flow at the maximum design flow rate.

d) Measure the flow rate through the equalizer pipe and the total flow rate through the skimmer. Calculate the percentage of the total flow rate through the skimmer that is admitted through the equalizer pipe.

e) If the skimmer has an equalizer valve, block 75% of the strainer basket's open area and repeat steps c) and d) in Section E.3.4.

E.3.5 Acceptance criteria

The flow rate through the equalizer pipe shall not exceed 10% of the total flow rate through the skimmer.

E.4 Skimmer head loss and equalizer performance test

E.4.1 Purpose

The purpose of this test is to verify that the head loss of a skimmer during normal or equalizer operation does not exceed the head loss specified by the manufacturer and to verify that a skimmer's equalizer device will prevent air from entering the suction line of the circulation system.

E.4.2 Apparatus

- turbidimeter scaled in NTU accurate to ± 2 NTU;
- temperature-indicating device accurate to ± 2 °F (± 1 °C);
- adequately sized tank and pump to deliver required flow;
- flow measuring device accurate to ± 3%; and
- compound pressure gauge(s) conforming to ANSI/ASME B40.100 Grade 3A specifications.

E.4.3 Test water

	Swimming pools	**Hot tubs/ spas**
water temperature	75 ± 10 °F (24 ± 6 °C)	102 ± 5 °F (39 ± 3 °C)
turbidity	≤ 15 NTU	≤ 15 NTU

E.4.4 Flow to pump – equalizer performance test method

a) Install the skimmer to the test tank in accordance with the manufacturer's instructions. If included in the skimmer design, install any floats, check valves, or other devices associated with the equalizer line.

b) Connect a flow meter to the skimmer's outlet port, and connect a compound pressure gauge to a pressure measurement tap in the piping connected to the skimmer outlet port, and to the piping connected to the skimmer equalizer port (if present). See Figure 10.

c) Fill the tank to the skimmer's normal operating level and set the flow at the maximum design flow rate. Observe the return line to the test tank for any signs of air being admitted into the tank. If any air is noted, check the suction line for leaks.

d) Set the flow to 25% of the maximum design flow rate and record the flow rate (“Q”, GPM) and the pressure reading (“P1”, psi) from the compound gauge in the piping connected to the skimmer outlet port. Repeat these readings at 50%, 75% and 100% of the maximum design flow rate.

e) Record the elevation (“Z1”, ft) of the test tank water level above the compound gauge in the piping connected to the skimmer outlet port, and calculate the head loss due to the skimmer in normal operation at 25%, 50%, 75% and 100% of the maximum design flow rate:

~~Skimmer Head Loss, Normal Operation (ft) = Z_1 - $\frac{P_1}{2.307}$ - $\frac{Q^2}{8002611 \times D_1^4}$~~

Skimmer Head Loss, Normal Operation (ft) = $Z_1 - 2.307 \times P_1 - \frac{Q^2}{385.9 \times D_1^4}$

where:

Z_1 = Water Elevation (feet)
P_1 = Compound Gauge Reading (psi)
Q = Flow Rate (GPM)
D_1 = Pipe Inside Diameter (~~feet~~ inches)

f) If the skimmer is equipped with an equalizer line continue to perform steps g, h, and i.

g) Lower the water level in the tank to 2 ± 0.25 in (51 ± 6.4 mm) below the lowest overflow level of the weir. There shall be no entrained air observed in the suction line after 30 s from the time the water level drops below the lowest overflow level of the weir.

h) Set the flow to 25% of the maximum design flow rate and record the flow rate (Q, GPM), the pressure/vacuum reading (P1, psi) from the compound gauge in the piping connected to the skimmer outlet port, and the pressure/vacuum reading (P2, psi) from the compound gauge in the piping connected to the skimmer equalizer line. Repeat these readings at 50%, 75% and 100% of the maximum design flow rate.

i) Record the elevation (Z2, ft) of the compound gauge in the piping connected to the skimmer outlet port (P1) above the compound gauge in the piping connected to the skimmer equalizer line (P2), and calculate the head loss due to the skimmer in equalizer operation at 25%, 50%, 75% and 100% of the

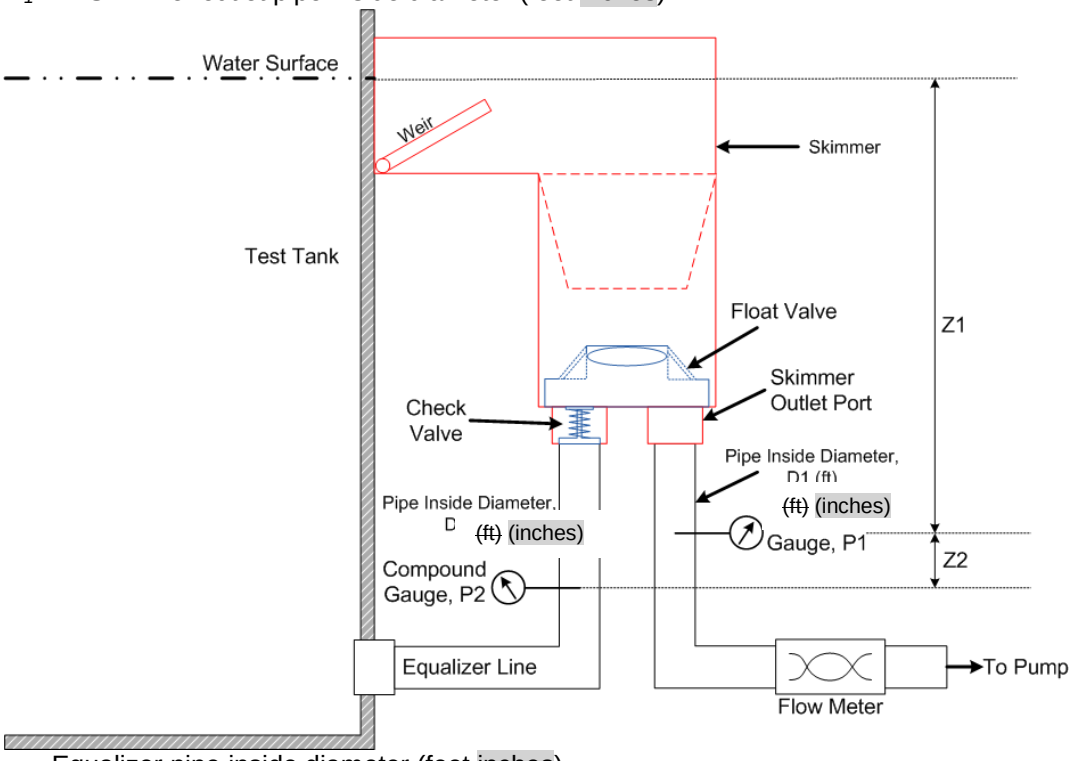
maximum design flow rate:

$$\text{Skimmer Head Loss, Equalizer Operation (ft)} = \frac{P_2 - P_1}{2.307} - Z_2 - \frac{Q^2}{8002611}\left(\frac{1}{D_2^4} - \frac{1}{D_1^4}\right)$$

$$\text{Skimmer Head Loss, Equalizer Operation (ft)} = 2.307(P_2 - P_1) - Z_2 + \frac{Q^2}{385.9}\left(\frac{1}{D_2^4} - \frac{1}{D_1^4}\right)$$

where:

P_1 = Compound gauge reading in skimmer outlet piping (psi)
P_2 = Compound gauge reading in equalizer piping (psi)
Z_2 = Elevation of P_1 above P_2 (feet)
Q = Flow rate (GPM)
D_1 = Skimmer outlet pipe inside diameter (~~feet~~ inches)



= Equalizer pipe inside diameter (~~feet~~ inches)

Figure 10 – Skimmer head loss & equalizer performance test setup (normal operation)

E.4.5 Acceptance criteria

The measured head loss through the skimmer during normal operation shall not exceed the manufacturer's published head loss by more than 5% or 0.25 psi, whichever is greater.

If the skimmer is equipped with an equalizer line, the measured head loss through the skimmer during equalizer operation shall not exceed the manufacturer's published head loss by more than 5% or 0.25 psi, whichever is greater, and there shall be no entrained air observed in the suction line after 30 s from the time the water level drops below the lowest overflow level of the weir.

[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 –

Food Equipment Materials

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4 Material formulation

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4.2.6 Solid Surface Materials

4.2.6.1 Solid surface materials shall meet food zone requirements.

4.2.6.2 Solid surface materials shall be composed of uniform material throughout.

Rationale: *Food zone requirements are applicable to all solid surface materials to avoid potential misuse in the field. If the material meets food zone requirements it will be suitable for use in all zones without the need to choose the correct product for the given application. A requirement for the material to be uniform throughout eliminates the possibility of multilayered, dissimilar materials that may be more prone to separation and failure.*

[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 –

Glossary of food equipment terminology

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3.xxx solid surface material: a solid material with uniform composition throughout used in the manufacture of equipment surfaces.

NOTE - Solid surface materials include but are not limited to polyester, acrylic, engineered stone and quartz/resin based materials.

Rationale*: this definition is proposed for adding clarity to the newly proposed language for Solid Surface Materials in Standard 51.*

2019 BSR/UPA-1 2019 Code Change Proposals

Uniform Plan Approval for Recreational Vehicles

(3-4.1(B)(8)

(8) Location of a door greater than ~~36”~~ 36 in. (914 mm) in width which has a ramp access and the location of all required venting for special transportation area(s).

(3-4.1(E)(4)

(4) Drainage and venting system’s pipe diameters, vent locations (~~including waterless vent~~), fittings types and sizes.

(6) Location of traps.

(3-5(C)(1)

~~(1) Statement regarding methods of grounding all exposed non-current carry metal parts that may become energized.~~

BSR/UL 746E, Standard for Safety for Polymeric Materials - Industrial Laminates, Filament Wound Tubing, Vulcanized Fibre, and Materials Used In Printed-Wiring Boards

1. Clarification of the term Industrial Laminate

PROPOSAL

2.52 INDUSTRIAL LAMINATE - Insulating material consisting of reinforcement impregnated~~/~~ or coated with resin and laminated under pressure and high temperature with or without vacuum assist. The resin may contain filler and additives. The~~, and the~~ reinforcement may be fibrous material such as cellulose paper, cotton, woven aramid, nonwoven aramid, woven glass, random laid glass mat or other fibers and films. See Base Material.

2. Addition of requirement for sample stabilization period

PROPOSAL

4.2 During the ~~text~~ test, the standard atmospheric conditions surrounding the sample shall be 25°C ± 10°C (77°F ± 18°F) and 50 ± 10 percent relative humidity, unless otherwise specified in the individual test method.

BSR/UL 796, Standard for Safety for Printed-Wiring Boards

3. Addition of a definition for Hybrid Printed Wiring Board

PROPOSAL

2.76.1 HYBRID PRINTED WIRING BOARD - A multilayer board comprised of various combinations of dissimilar base materials and/or bonding layers with different UL/ANSI grades and/or Non-ANSI material.

4. Clarification of the term Industrial Laminate

PROPOSAL

2.79 INDUSTRIAL LAMINATE - Insulating material consisting of reinforcement impregnated or coated with a resin and laminated under pressure and high temperature with or without vacuum assist. The resin may contain filler and additives. The reinforcement may be fibrous material such as cellulose paper, cotton, woven aramid, nonwoven aramid, woven glass, random laid glass mat or other fibers ~~impregnated or coated with a resin binder and laminated under pressure and high temperature~~ and films. See Base Material.

5. Clarification of the term Sample

PROPOSAL

2.124 SAMPLE - A test vehicle made from a complete or portion of production board, or a coupon formed ~~by~~ using all steps of the board ~~entire~~ production process and incorporating specific construction features ~~to be used as a test vehicle~~.

9. Clarification of metal clad bond/delamination requirement

PROPOSAL

9.2.1 The base material(s) and conductor(s) of the printed wiring board shall comply with the Bond Strength, Section 26, and Delamination and Blistering, Section 27, after Thermal ~~Shock~~ Stress, Section 24, in accordance with the desired ratings.

10. Clarification of direct support requirement

PROPOSAL

9.3.1 A printed wiring board intended for direct support of current carrying parts ~~and/or CTI ratings~~ at 120 V rms or less and 15 A or less shall ~~have an acceptable maximum~~

~~operating temperature rating for the end use product application. In a direct support PWB, each material in the build-up construction used as a dielectric barrier and/or substrate for conductors shall~~ comply with the performance test requirements in Table 9.3. The samples shall be investigated at the PWB minimum build-up thickness. A PWB intended for direct support of current carrying parts shall have an acceptable maximum operating temperature (MOT) rating for the end use product application.

Exception: The PWB direct support testing can be waived if each individual material in the build-up construction, used as a dielectric barrier and/or substrate for conductors, has previously been evaluated for each performance test in Table 9.3 and complies with the requirements.

17. Reorganization of Sections 28 and 30

PROPOSAL

30.1 The purpose of the conductive paste adhesion test methods is to assess the physical fatigue and adhesion of conductors made with conductive paste or polymer thick film to base material, other conductor material, and other insulation material in the PWB construction. The conductive paste adhesion test is performed following exposure to environmental stresses represented by thermal cycling conditioning. The thermal cycling includes thermal conditioning, ~~water immersion,~~ cold, and high humidity environments.

30.2 Three samples shall be constructed as described in 10.3, Conductive Coating; Section 21, Test Samples; and Figures 10.1 and 10.3. Conductive paste is to be applied on each surface used in the production printed wiring board (such as laminate, copper, solder resist, or dielectric material). The conductive paste is to be tested on each generic metal, each dissimilar laminate material and each solder resist and/or undercoat material

18. Clarification of Delamination test

PROPOSAL

27.2 Four samples constructed as described in Section 21, Figures 10.1 and 10.3 shall be conditioned as described in the Thermal ~~Shock~~ Stress, Section 24, and the oven conditioning in 26.3.1 or 26.3.2. There shall be no wrinkling, cracking, blistering, or loosening of any conductor or any delamination of the base material and/or bonding layer after either the thermal shock or oven conditioning.

BSR/UL 844, Standard for Safety for Luminaires *for Use in Hazardous (Classified) Locations*

1. Revisions to Add New Clause 20.2A for Non-Drying Thickened Mineral Oil-Based Thread Sealant

PROPOSAL

20.2A A corrosion inhibiting, non-drying, thickened mineral oil-based sealant that does not contain metal particles shall be permitted to be applied to threaded joints.

BSR/UL 1240, Standard for Electric Commercial Clothes-Drying Equipment

1. Direct Current (DC) Electric Strength Test Potentials

PROPOSAL

35 Dielectric Voltage Withstand Test

35.1 An appliance shall withstand for 1 minute without breakdown the application of a DC potential or a 60-Hz essentially sinusoidal potential between live parts and dead metal parts or between live parts of opposite polarity for a test on a capacitor as mentioned in (c). The test potential shall be:

a) 1000 V AC or 1400 V DC for an appliance employing a motor rated 1/2 hp (373 W) or less and 250 V or less. See 24.8.

b) 1000 V plus twice rated voltage or 1400 V DC plus 2.8 times rated voltage for an appliance employing a motor rated more than 1/2 hp or more than 250 V. See 24.8.

c) 1000 V AC, or 1000 V AC plus twice rated voltage - depending upon the value of the test potential applied to the appliance as a whole - for a radio-frequency-interference-elimination or arc-suppression capacitor.

46 Dielectric Voltage Withstand Test

46.1 Each appliance shall withstand without electrical breakdown, as a routine production-line test, the application of a DC potential or an AC potential at a frequency within the range of 40 - 70 Hz:

a) Between the primary wiring, including connected components, and accessible dead metal parts that are likely to become energized; and

b) Between primary wiring and accessible low-voltage - 42.4 V peak or less - metal parts, including terminals.

Table 46.1
Production-line test conditions

~~Rating of motor in appliance~~ Appliance rating, V	Condition A			Condition B		
	Potential, V		Time, s	Potential, V		Time, s
	AC	DC		AC	DC	
~~1/2 hp or less and 250 V or less~~ ≤ 250	1000	1400	60	1200	1700	1
~~More than 1/2 hp or~~	1000+	1400 +	60	1200+	1700 +	1

~~more than 250 V~~ > 250 ≤ 600	2V[a]	2.8V [a]		2.4V[a]	3.4V [a]	

[a] V = maximum marked voltage but not less than 240 V.

46.6 The test equipment shall include a transformer having a DC or an essentially sinusoidal output, a means of indicating the test potential, an audible or visual indicator of electrical breakdown, and either a manually reset device to restore the equipment after electrical breakdown or an automatic reject feature of any unacceptable unit.

BSR/UL 2225, Standard for Safety for Cables and Cable-Fittings *for Use in Hazardous (Classified) Locations*

1. Revisions to Add New Clause 19.2A for Non-Drying Thickened Mineral Oil-Based Thread Sealant

PROPOSAL

19.2A A corrosion inhibiting, non-drying, thickened mineral oil-based sealant that does not contain metal particles shall be permitted to be applied to threaded joints.