

## CONTENTS

### American National Standards

Project Initiation Notification System (PINS) .....	2
Call for Comment on Standards Proposals .....	9
Call for Members (ANS Consensus Body) .....	30
Final Actions .....	37
ANS Maintained Under Continuous Maintenance .....	38
ANSI-Accredited Standards Developer Contact Information .....	39

### International Standards

ISO and IEC Draft Standards .....	41
ISO and IEC Newly Published Standards .....	44

### Proposed Foreign Government Regulations .....

47

### Information Concerning .....

48

# 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.

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

Contact: Karl Best (703) 293-4887 [kbest@ahrinet.org](mailto:kbest@ahrinet.org)

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201-3001 [www.ahrinet.org](http://www.ahrinet.org)

### ***New Standard***

BSR/AHRI Standard 885 (I-P)-202x, Procedure for Estimating Occupied Space Sound Levels in the Application of Air Terminals and Air Outlets (new standard)

Stakeholders: Groups and individuals such as manufacturers, trade organizations, technical societies, professional associations, associations representing users or owners of the equipment involved, appropriate government agencies or offices, and consumer organizations or private.

Project Need: The purpose of this standard is to provide a consistent industry-accepted method for estimating Sound Pressure Levels in a conditioned occupied space for the application of Air Terminals and air outlets.

This standard includes sound levels from most but not all components in the air distribution system. Air Terminals, air outlets, and the low-pressure ductwork which connects them are considered as sound sources and are the subject of this Standard.

## **AMCA (Air Movement and Control Association)**

Contact: Shruti Kohli-Bhargava (847) 704-6285 [shrutik@amca.org](mailto:shrutik@amca.org)

30 West University Drive, Arlington Heights, IL 60004-1893 [www.amca.org](http://www.amca.org)

### ***Reaffirmation***

BSR/AMCA Standard 301-2014 (R202x), Methods for Calculating Fan Sound Ratings from Laboratory Test Data (reaffirmation of ANSI/AMCA Standard 301-2014)

Stakeholders: Fan manufacturers, building designers, engineers, acoustic consultants.

Project Need: AMCA 301 is up for its 5-year review as stated in our Procedures for the Development of AMCA Standards and Publications. However, since no comments or suggested changes were received during an internal review period, our procedures allow for the standard to be reaffirmed.

This standard establishes standard methods for calculating fan sound ratings from laboratory test data. This document applies to any fan, if a test standard exists, to measure its fan sound power levels.

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

Contact: Lauren Bauerschmidt (847) 768-3475 LBauerschmidt@assp.org  
 520 N. Northwest Hwy., Park Ridge, IL 60068 www.assp.org

**Revision**

BSR A10.12-202x, Safety Requirements for Excavation (revision and redesignation of ANSI/ASSE A10.12-1998 (R2016))

Stakeholders: Construction companies and workers.

Project Need: Based upon the consensus of the ANSI/ASSP A10 Committee and the leadership of ASSP.

This standard applies to all open excavations made in the earth's surface that require worker and/or property protection.

**ASSP (Safety) (American Society of Safety Professionals)**

Contact: Lauren Bauerschmidt (847) 768-3475 LBauerschmidt@assp.org  
 520 N. Northwest Hwy, Park Ridge, IL 60068 www.assp.org

**Revision**

BSR Z590.3-202x, Prevention through Design. Guidelines for Addressing Occupational Hazards and Risks in Design and Redesign Processes (revision and redesignation of ANSI/ASSE Z590.3-2011 (R2016))

Stakeholders: Organizations looking to reduce safety risks by designing processes safely.

Project Need: Based upon the consensus of the ANSI/ASSP Z590 Committee and the leadership of ASSP.

This standard provides guidance on including prevention through design concepts within an occupational safety and health management system. Through the application of these concepts, decisions pertaining to occupational hazards and risks can be incorporated into the process of design and redesign of work premises, tools, equipment, machinery, substances, and work processes including their construction, manufacture, use, maintenance, and ultimate disposal or reuse. This standard provides guidance for a life-cycle assessment and design model that balances environmental and occupational safety and health goals over the lifespan of a facility, process, or product.

**BIFMA (Business and Institutional Furniture Manufacturers Association)**

Contact: David Panning (616) 591-9798 dpanning@bifma.org  
 678 Front Ave. NW, Grand Rapids, MI 49504 www.bifma.org

**New Standard**

BSR/BIFMA X5.41-202X, Large Occupant Public and Lounge Seating (new standard)

Stakeholders: Manufacturers, suppliers, test laboratories, specifiers, and users of public and lounge seating for large occupants.

Project Need: This standard provides guidance for the furniture industry regarding public and lounge seating for large occupants.

This standard is intended to provide manufacturers, specifiers, and users with a common basis for evaluating the safety, durability, and structural adequacy of public and lounge seating for large occupants.

**CAPA (Certified Automotive Parts Association)**

Contact: Bernadette Kronberg (616) 656-7483 Bernadette.Kronberg@intertek.com  
c/o Intertek, 4700 Broadmoor SE, Suite 200, Kentwood, MI 49512 [www.CAPAcertified.org](http://www.CAPAcertified.org)

***New Standard***

BSR/CAPA 601-001-202x, Standard Test Method for Vibration Testing of Automotive Replacement Radiators (new standard)

Stakeholders: Competitive crash repair parts industry.

Project Need: To provide a test method that may be used to evaluate the quality of the heat exchanger fabrication processes, such as brazing, of automotive replacement radiators.

Covers the procedure for the vibration testing of replacement radiators (full parts) when submitted to a vibration profile and identifies the criteria for acceptance.

**CTA (Consumer Technology Association)**

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

***New Standard***

BSR/CTA 852.1-B-202x, Enhanced Protocol for Tunneling Component Network Protocols over Internet Protocol Channels (new standard)

Stakeholders: Consumers, manufacturers, service providers, and retailers.

Project Need: Revise CTA-852.1-A and make it an American National Standard.

This standard specifies a communications method that allows networked data acquisition and control devices to communicate with each other over the Internet. The purpose of such devices are widely varying and include functions such as appliance monitoring, meter reading, and HVAC and lighting control.

**DSI (Dental Standards Institute, Inc.)**

Contact: Bryan Laskin (763) 290-0004 bryan@operadds.com  
109 Bushaway Road, Suite 100, Wayzata, MN 55391 <https://dentalstandardsinstitute.com/>

***New Standard***

BSR/DSI DCNST1.1-202x, Verification and Displaying of Dental Patient Chart Notes (DCN) (new standard)

Stakeholders: Users (healthcare professionals); Consumers (patients); Producers (software vendors).

Project Need: Currently, when a dentist writes DCNs, in the vast majority of EDR's, there is little to no oversight as to the accuracy or completion of DCNs. This leads to many DCNs not being written, or incomplete, which in turn leads to miscommunications, dental procedural errors, and dental malpractice claim losses.

This Standard seeks to describe the digital visualization to be included in an Electronic Dental Record (EDR) when a dentist or dental care professional writes the Dental Chart Note (DCN) for purposes of documentation of the care of a dental patient. This visualization will alert dental professionals when a DCN is missing or incomplete.

**LIA (ASC Z136) (Laser Institute of America)**

Contact: Liliana Caldero (407) 380-1553 lcaldero@lia.org  
 13501 Ingenuity Drive, Suite 128, Orlando, FL 32826 www.laserinstitute.org

**Revision**

BSR Z136.5-202x, Standard for Safe Use of Lasers in Educational Institutions (revision of ANSI Z136.5-2020)

Stakeholders: Teachers, students, and staff who use lasers as part of their academic instruction and development in the university, college, secondary, and primary educational environments.

Project Need: To harmonize with the revised parent document, Z136.1 and with other Z136 standards in the series and to update some of the tables, e.g., MPEs.

This standard applies the requirements of the ANSI Z136.1 to the unique environments associated with educational institutions, including teaching laboratories, classrooms, lecture halls, science fairs as well as projects on and off campus, and science museums, when they incorporate lasers into their educational process.

**LIA (ASC Z136) (Laser Institute of America)**

Contact: Liliana Caldero (407) 380-1553 lcaldero@lia.org  
 13501 Ingenuity Drive, Suite 128, Orlando, FL 32826 www.laserinstitute.org

**Revision**

BSR Z136.7-202x, Standard for Testing and Labeling of Laser Protective Equipment (revision of ANSI Z136.7-2020)

Stakeholders: User base including DoD (military) and industry (e.g., medical device manufacturers including manufacturers of protective eyewear, laboratories, health physicists, safety engineers).

Project Need: To address emerging laser technology protective requirements, e.g., broad-spectrum laser sources, ultrafast laser systems, new high-power systems not previously handled; including testing methodology definitions, refinement of testing protocols and data supporting known damage thresholds as a function of laser source parameters and materiel solutions adopted.

This standard provides recommendations for the testing requirements and labeling of protective equipment (devices) designed for use with lasers and laser systems that operate at wavelengths between 180 nm and 1 mm.

**NECA (National Electrical Contractors Association)**

Contact: Lina Jariri (240) 800-5003 lina.jariri@necanet.org  
 3 Bethesda Metro Center, Suite 1100, Bethesda, MD 20814 www.neca-neis.org

**Revision**

BSR/NECA 408-202X, Standard for Installing and Maintaining Busways (revision of ANSI/NECA 408-2015)

Stakeholders: Electrical contractors, electrical engineers, building owners, facility maintenance engineers.

Project Need: National Electrical Installation Standards (developed in partnership with other industry organizations) are the first performance standards for electrical construction. They go beyond the basic requirements of the National Electrical Code to clearly define what is meant by installing products and systems in a "neat and workmanlike" manner.

This Standard describes the installation and maintenance procedures for feeder and plug-in busways and accessories rated 600 Volts AC or less, and 100 Amperes or more, installed aboveground and used as service entrance, feeder, and branch circuit busway. It also covers periodic routine maintenance procedures for busway and special procedures used after adverse operating conditions such as a short-circuit, ground-fault, or immersion in water. This Standard does not cover busways rated over 600 Volts, or lighting busway, trolley busway, or cablebus

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

Contact: Bret Kelsey (312) 321-6826 [bkelsey@resna.org](mailto:bkelsey@resna.org)

2025 M Street NW, Suite 800, Washington, DC 20036 [www.resna.org](http://www.resna.org)

***New Standard***

BSR/RESNA AT-1-202x, RESNA Standard for Assistive Technology for Air Travel - Volume 1: Requirements and Test Methods Related to Mobility Devices (new standard)

Stakeholders: People with mobility impairments that desire to travel by air and the related service organizations that represent various disability groups; airline industry experts; assistive technology (AT) researchers, designers and manufacturers; government organizations that regulate air travel and support the purchase of AT; and clinical and testing experts of AT.

Project Need: Persons with reduced mobility who use assistive technologies (AT) to enhance their mobility, must travel with their AT if they travel by air. Persons with mobility impairments desire to travel for their jobs and to visit family and friends, just like everyone else. Currently many manual and powered wheelchairs and other types of assistive technology are damaged when they are transported in the cargo area of commercial aircraft. There is a need for standards that will harmonize the way that information about AT is tracked by commercial air carriers to assist the carriers to be better prepared to handle and stow AT in the baggage areas of aircraft. There is also a need for standards that will harmonize the procedures that are used to prepare and stow AT into commercial aircraft and then remove AT from the aircraft and return it to the passenger. There is also a need for design standards for AT with features that will make it easier to stow and transport in commercial aircraft.

This standard specifies requirements and test methods for efficient and safe handling and storage of many different types of assistive technologies (AT) for passengers with mobility impairments on aircraft, and includes the creation of the following: a checklist of the dimensional, performance, and instructional information to be physically and/or electronically associated with the AT; procedures and training for the handling of AT; and labeling and design specifications for AT suitable for transport in commercial aircraft. It will also specify requirements for the disclosure of the test results. These test methods may be used to verify manufacturers' claims that a product exceeds the minimum requirements of this standard. The Volume is expected to have four sections: Section 1, Terminology; Section 2, Information and Instructions for Preparing Wheelchairs to be Stowed and Transported in Commercial Aircraft; Section 3, Handling Procedures for Wheelchairs to be Stowed and Transported in Commercial Aircraft; Section 4, Labelling and Design Requirements for Wheelchairs Designed for Stowage and Transport in Commercial Aircraft.

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

Contact: Kim Cooney (800) 542-5040 [kcooney@scte.org](mailto:kcooney@scte.org)

140 Philips Rd, Exton, PA 19341 [www.scte.org](http://www.scte.org)

***New Standard***

BSR/SCTE DSS 136-1-202x, DOCSIS 4.0 Part 1: MAC and Upper Layer Protocols Interface Specification (new standard)

Stakeholders: Cable Telecommunications industry.

Project Need: Create new standard.

This generation of the DOCSIS specifications builds upon the previous generations of DOCSIS specifications (commonly referred to as the DOCSIS 3.1 and earlier specifications), leveraging the existing Media Access Control (MAC) and Physical (PHY) layers, but with the addition of a new PHY layer designed to improve spectral efficiency and provide better scaling for larger bandwidths (and appropriate updates to the MAC and management layers to support the new PHY layer). It includes backward compatibility for the existing PHY layers in order to enable a seamless migration to the new technology.

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

Contact: Kim Cooney (800) 542-5040 [kcooney@scte.org](mailto:kcooney@scte.org)  
140 Philips Rd, Exton, PA 19341 [www.scte.org](http://www.scte.org)

***New Standard***

BSR/SCTE DSS 136-2-202x, DOCSIS 4.0 Part 2: Physical Layer Specification (new standard)

Stakeholders: Cable Telecommunications industry.

Project Need: Create new standard.

This generation of the DOCSIS® specifications builds upon the previous generations of DOCSIS specifications (commonly referred to as the DOCSIS 3.1 and earlier specifications), leveraging the existing Media Access Control (MAC) and Physical (PHY) layers. It includes backward compatibility for the existing PHY layers in order to enable a seamless migration to the new technology. Further, the DOCSIS 4.0 specifications introduces Full Duplex (FDX) DOCSIS PHY layer technology as an expansion of the OFDM PHY layer introduced in the DOCSIS 3.1 PHY specification to increase upstream capacity without significant loss of downstream capacity versus DOCSIS 3.1. The DOCSIS 4.0 specification also builds upon DOCSIS 3.1 OFDM and OFDMA technology with an extended Frequency Division Duplex (FDD) DOCSIS alternative. DOCSIS 4.0 FDD supports legacy high split and also provides extended splits up to 684 MHz in an operational band plan which is referred to as Ultra-high Split (UHS). DOCSIS 4.0 FDD also introduces expansion of usable downstream spectrum up to 1794 MHz. Both the FDX and FDD DOCSIS 4.0 alternatives are based on OFDM PHY. Many sections refer to basic OFDM sublayer definitions described in [DOCSIS PHYv3.1].

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

Contact: Kim Cooney (800) 542-5040 [kcooney@scte.org](mailto:kcooney@scte.org)  
140 Philips Rd, Exton, PA 19341 [www.scte.org](http://www.scte.org)

***New Standard***

BSR/SCTE DSS 136-3-202x, DOCSIS 4.0 Part 3: Cable Modem Operations Support System Interface Specification (new standard)

Stakeholders: Cable Telecommunications industry.

Project Need: Create new standard.

This specification defines the Operations Support System Interface (OSSI) requirements for the Cable Modem (CM).

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

Contact: Kim Cooney (800) 542-5040 [kcooney@scte.org](mailto:kcooney@scte.org)  
140 Philips Rd, Exton, PA 19341 [www.scte.org](http://www.scte.org)

***New Standard***

BSR/SCTE DSS 136-4-202x, DOCSIS 4.0 Part 4: Security Specification (new standard)

Stakeholders: Cable Telecommunications industry.

Project Need: Create new standard.

This specification is part of the DOCSIS® family of specifications developed by Cable Television Laboratories (CableLabs). In particular, this specification is part of a series of specifications that define the sixth generation of high-speed data-over-cable systems, commonly referred to as the DOCSIS 4.0 specifications. This specification was developed for the benefit of the cable industry and includes contributions by operators and vendors from North and South America, Europe, and other regions.

Project Initiation Notification System (PINS)

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

Contact: Kim Cooney (800) 542-5040 [kcooney@scte.org](mailto:kcooney@scte.org)

140 Philips Rd, Exton, PA 19341 [www.scte.org](http://www.scte.org)

### ***New Standard***

BSR/SCTE DSS 136-5-202x, DOCSIS 4.0 Part 3: CCAP™ Operations Support System Interface Specification (new standard)

Stakeholders: Cable Telecommunications industry.

Project Need: Create new standard.

This document defines the requirements necessary for the Configuration, Fault Management, and Performance Management of the Cable Modem Termination System (CMTS) and the Converged Cable Access Platform (CCAP) system. The intent of this specification is to define a common, cross-vendor set of functionalities for the configuration and management of CMTSs and CCAPs.



# **Call for Comment of Limited Substantive Changes to an Approved American National Standard (ANS)**

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

**45-Day Call for Comment Deadline: November 2, 2020**

## **ANSI Z245.1-2017**

*Mobile Wastes and Recyclable Materials Collection, Transportation, and Compaction Equipment —Safety Requirements* (revision of ANSI Z245.1-2012)

This is a limited substantive change to provide public comment for the updated standard.

Obtain an electronic copy from: [ksander@wasterecycling.org](mailto:ksander@wasterecycling.org)

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [standards@wasterecycling.org](mailto:standards@wasterecycling.org) Single copy price: Free

# Call for Comment on Standards Proposals

## BSR/ASABE/ICC 802, Landscape Irrigation Sprinkler and Emitter Standard

(Revision)

**Comment Deadline: November 2, 2020**

**BSR/ASABE/ICC 802 Landscape Irrigation Sprinkler and Emitter Standard** is available for a 45-day public comment period here:

[https://shop.iccsafe.org/standards.html?p=5&product\\_list\\_order=name&publisher=ICC](https://shop.iccsafe.org/standards.html?p=5&product_list_order=name&publisher=ICC)

This standard is intended to establish minimum requirements for landscape irrigation emission devices to ensure adequate safety and performance, specify testing methods used to quantify product performance to enable component selection and specification in irrigation systems, and promote uniformity in classifying, rating and marking landscape irrigation emission devices. This standard shall apply to sprinklers and emitters intended to dispense water from landscape irrigation systems onto a landscape.

In addition, comments may also be submitted on these specific revisions;

[Click here to see the revisions in full](#)

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [fgrable@iccsafe.org](mailto:fgrable@iccsafe.org)

# Call for Comment on Standards Proposals

## American National Standards

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. e-mail: [psa@ansi.org](mailto:psa@ansi.org)

\* Standard for consumer products

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## Comment Deadline: October 18, 2020

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

1791 Tullie Circle, NE, Atlanta, GA 30329 p: (678) 539-1214 w: [www.ashrae.org](http://www.ashrae.org)

#### Addenda

BSR/ASHRAE/ASHE Addendum 170r-202x, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE Standard 170-2013)

In reviewing Addendum a, it was noticed that the filter requirements listed for nursing homes are not consistent with the informative appendix table for recommended filter efficiencies by space type. Resident rooms are noted as requiring MERV-14 in the informative appendix as "Resident rooms in a skilled nursing area", however other resident spaces were assigned MERV-8 under the category of "Any room, inpatient or outpatient, where a patient stays less than 6 hours including waiting rooms". This is incorrect in that (1) residents are not patients and (2) residents frequently spend amounts of time exceeding 6 hours outside of their room in these areas of the facility. This proposed addendum increases filtration in nursing homes to MERV-14. Section 6.4(i) is revised to not include Table 9.1 because in Table 9.1 the only spaces that do not permit room recirculation are 100% exhaust spaces.

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Online Comment Database at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

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

1791 Tullie Circle, NE, Atlanta, GA 30329 p: (678) 539-1214 w: [www.ashrae.org](http://www.ashrae.org)

#### Addenda

BSR/ASHRAE/ASHE Addendum 170s-202x, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE Standard 170-2013)

The committee has reviewed and identified that the standard could better address the varied conditions that arise in planning, designing, and implementing airborne infectious isolation rooms, an especially relevant issue as we navigate the many challenges of a world-altering pandemic event. The proposed changes specifically ensure that the standard provides flexibility in treating the exhaust discharge arrangements from these spaces, in alignment with CDC guidelines on this topic.

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Online Comment Database at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

## Comment Deadline: October 18, 2020

### ICC (International Code Council)

4051 Flossmoor Road, Country Club Hills, IL 60478 p: (888) 422-7233 4205 w: [www.iccsafe.org](http://www.iccsafe.org)

#### **Revision**

BSR/ICC 900-202x, Standard for Solar Water Heating Systems (revision and redesignation of ANSI/ICC 900/SRCC 300-2015)

The objective of this Standard is to establish minimum requirements for the system design, performance evaluation, and installation instructions of solar water-heating systems. This Standard establishes a methodology for rating the performance of solar water-heating systems based on performance projections and solar collector test data. This Standard is applicable to residential and commercial solar water-heating systems intended for use within swimming pool heating, building space heating, building space cooling and/or water-heating systems. It is applicable to both direct and indirect solar water-heating systems.

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [smartin@solar-rating.org](mailto:smartin@solar-rating.org)

### ICC (International Code Council)

4051 Flossmoor Road, Country Club Hills, IL 60478 p: (888) 422-7233 4205 w: [www.iccsafe.org](http://www.iccsafe.org)

#### **Revision**

BSR/ICC 901-202x, Standard for Solar Thermal Collectors (revision and redesignation of ANSI/ICC 901/SRCC 100-2015)

The objective of this Standard is to establish minimum requirements for the system design, construction, performance, and testing of liquid- and air-heating solar thermal collectors, including those containing distributed assembly and integral concentrating components and integral storage and non-separable thermosiphon units. This Standard is applicable to solar collectors intended for use within swimming pool and spa heating, building space heating and cooling, water heating systems, industrial/commercial process heating, and thermal input to electrical power production systems.

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [smartin@solar-rating.org](mailto:smartin@solar-rating.org)

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 p: (734) 827-3817 w: [www.nsf.org](http://www.nsf.org)

#### **Revision**

BSR/NSF 4-202x (i30r1), Commercial Cooking, Rethermalization, and Powered Hot Food Holding and Transportation Equipment (revision of ANSI/NSF 4-2019)

Equipment covered by this Standard includes, but is not limited to, ranges, ovens, fat/oil fryers, fat/oil filters, griddles, tilting griddle skillets, broilers, steam and pressure cookers, kettles, rotisseries, toasters, coffee makers and other hot beverage makers, component water heating equipment, proofing boxes and cabinets, hot-food holding equipment, rethermalization equipment, and hot-food transport cabinets.

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Allan Rose (734) 827-3817 [arose@nsf.org](mailto:arose@nsf.org)

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 p: (734) 827-3817 w: [www.nsf.org](http://www.nsf.org)

#### **Revision**

BSR/NSF 6-202x (i17r1), Dispensing Freezers (revision of ANSI/NSF 6-2018)

This Standard contains requirements for the following equipment: dispensing freezers that process and freeze previously pasteurized product (e.g., soft ice cream, ice milk, yogurt, malts, custards) and dispense it directly into the consumer's container; dispensing freezers that dispense premanufactured frozen product (e.g., ice cream) directly into the consumer's container; and batch dispensing freezers. The materials, design, and construction requirements of this Standard may also apply to items that are manufactured as a component of a dispensing freezer.

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Allan Rose (734) 827-3817 [arose@nsf.org](mailto:arose@nsf.org)

## Comment Deadline: October 18, 2020

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 p: (734) 827-3817 w: [www.nsf.org](http://www.nsf.org)

#### Revision

BSR/NSF 8-202x (i18r1), Commercial Powered Food Preparation Equipment (revision of ANSI/NSF 8-2018)

Equipment covered by this Standard includes, but is not limited to, coffee grinders, grinders, mixers, pasta makers, peelers, saws, slicers, tenderizers, and similar equipment.

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Allan Rose (734) 827-3817 [arose@nsf.org](mailto:arose@nsf.org)

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 p: (734) 827-3817 w: [www.nsf.org](http://www.nsf.org)

#### Revision

BSR/NSF 18-202x (i17r1), Manual Food and Beverage Dispensing Equipment (revision of ANSI/NSF 18-2016)

This Standard contains requirements for equipment and devices that manually dispense food or beverages, in bulk or in portions. The materials, design, and construction requirements of this Standard may also be applied to an item that is manufactured as a component of food- and beverage-dispensing equipment. This Standard does not apply to vending machines, dispensing freezers, or bulk milk-dispensing equipment covered by the scope of other NSF Standards.

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Allan Rose (734) 827-3817 [arose@nsf.org](mailto:arose@nsf.org)

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 p: (734) 827-3817 w: [www.nsf.org](http://www.nsf.org)

#### Revision

BSR/NSF 25-202x (i13r1), Vending Machines for Food and Beverages (revision of ANSI/NSF 25-2017)

This Standard contains requirements for food- and beverage-vending machines, including those that vend packaged food and beverages and those that vend food and beverages in bulk.

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Allan Rose (734) 827-3817 [arose@nsf.org](mailto:arose@nsf.org)

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 p: (734) 827-5643 w: [www.nsf.org](http://www.nsf.org)

#### Revision

BSR/NSF 42-202x (i107r1), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42-2019)

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

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

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

## Comment Deadline: October 18, 2020

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 p: (734) 827-5643 w: [www.nsf.org](http://www.nsf.org)

#### Revision

BSR/NSF 53-202x (i126r1), Drinking Water Treatment Units - Health Effects (revision of ANSI/NSF 53-2019)

It is the purpose of this Standard to establish minimum requirements for materials, design and construction, and performance of point-of-use and point-of-entry drinking-water treatment systems that are designed to reduce specific health-related contaminants in public or private water supplies. Such systems include point-of-entry drinking water treatment systems used to treat all or part of the water at the inlet to a residential facility or a bottled water production facility, and includes the material and components used in these systems. This Standard also specifies the minimum product literature and labeling information that a manufacturer shall supply to authorized representatives and system owners, as well as the minimum service-related obligations that the manufacturer shall extend to system owners.

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

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

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 p: (734) 827-5643 w: [www.nsf.org](http://www.nsf.org)

#### Revision

BSR/NSF 244-202x (i11r1), Supplemental Microbiological Water Treatment Systems - Filtration (revision of ANSI/NSF 244-2019)

The point-of-use (POU) and point-of-entry (POE) systems addressed by this Standard are designed to be used for the supplemental microbial control of specific organisms that may occasionally be present in drinking water (public or private) because of intermittent incursions. Certain of these specific organisms that may be introduced into the drinking water are considered established or potential health hazards. This Standard establishes requirements for POU and POE drinking water treatment systems, and the materials and components used in these systems.

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

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

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 p: (734) 827-5643 w: [www.nsf.org](http://www.nsf.org)

#### Revision

BSR/NSF 401-202x (i19r1), Drinking Water Treatment Units - Emerging Compounds/Incidental Contaminants (revision of ANSI/NSF 401-2019)

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

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

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

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 p: (734) 418-6660 w: [www.nsf.org](http://www.nsf.org)

#### Revision

BSR/NSF/CAN 50-202x (i160r4), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2019)

This Standard covers materials, chemicals, 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 optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Jason Snider (734) 418-6660 [jsnider@nsf.org](mailto:jsnider@nsf.org)

## Comment Deadline: October 18, 2020

### UL (Underwriters Laboratories)

333 Pfingsten Road, Northbrook, IL 60062-2096 p: (847) 664-2850 w: <https://ul.org/>

#### **Revision**

BSR/UL 962A-202x, Standard for Safety for Furniture Power Distribution Units (revision of ANSI/UL 962A-2020)

(1) An FPDU which Incorporates Dimming Controls.

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

### UL (Underwriters Laboratories)

171 Nepean Street, Suite 400, Ottawa, ON K2P 0B4 Canada p: (613) 368-4437 w: <https://ul.org/>

#### **Revision**

BSR/UL 1323-202x, Standard for Safety for Scaffold Hoists (revision of ANSI/UL 1323-2020)

Remove all references to UL 508C, Standard for Power Conversion Equipment, and replace them with UL 61800-5-1, Standard for Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy.

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

### UL (Underwriters Laboratories)

333 Pfingsten Road, Northbrook, IL 60062 p: (847) 664-1292 w: <https://ul.org/>

#### **Revision**

BSR/UL 1740-202x, Standard for Safety for Robots and Robotic Equipment (revision of ANSI/UL 1740-2018)

This proposal for UL 1740 covers changes regarding illuminated e-stop.

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

## Comment Deadline: November 2, 2020

### AAFS (American Academy of Forensic Sciences)

410 North 21st Street, Colorado Springs, CO 80904 p: (719) 453-1036 w: [www.aafs.org](http://www.aafs.org)

#### **New Standard**

BSR/AAFS ASB Std 137-202x, Standard for Examination and Documentation of Footwear and Tire Impression Evidence (new standard)

This standard provides the examination process and minimum documentation requirements for relevant observations and conclusions/interpretations encountered during footwear/tire tread examinations. The required documentation as outlined in this standard will allow for an appropriate review. This document is not all inclusive of the examinations that may be requested or conducted. Please note that comments on a re-circulation will only be accepted on revised sections of a document, comments made to text not revised from the original public comment period will not be accepted.

Single copy price: Free

Obtain an electronic copy from: This is a public comment period for a recirculation. Updated document, redline version, and comments can be viewed on the AAFS Standards Board website at: <http://www.asbstandardsboard.org/notice-of-standard-development-and-coordination/>.

Order from: Document will be provided electronically on AAFS Standards Board website <http://www.asbstandardsboard.org/> free of charge. Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [asb@aafs.org](mailto:asb@aafs.org)

## Comment Deadline: November 2, 2020

### AAFS (American Academy of Forensic Sciences)

410 North 21st Street, Colorado Springs, CO 80904 p: (719) 453-1036 w: [www.aafs.org](http://www.aafs.org)

#### ***New Standard***

BSR/ASB BPR 050-202x, Best Practice Recommendation for Photographic Documentation of Footwear and Tire Impression Evidence (new standard)

This document provides the best practice recommendations for personnel responsible for documenting and photographing footwear and tire impressions for future examinations. Deviations from this document may/may not preclude examination of captured images. The procedures included in this document may not cover all aspects of footwear and tire photography. This document is not intended as a substitute for training in the documentation and photography of footwear and tire track evidence. Please note that comments on a re-circulation will only be accepted on revised sections of a document, comments made to text not revised from the original public comment period will not be accepted.

Single copy price: Free

Obtain an electronic copy from: This is a public comment period for a recirculation. Updated document, redline version, and comments can be viewed on the AAFS Standards Board website at: <http://www.asbstandardsboard.org/notice-of-standard-development-and-coordination/>.

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### AAFS (American Academy of Forensic Sciences)

410 North 21st Street, Colorado Springs, CO 80904 p: (719) 453-1036 w: [www.aafs.org](http://www.aafs.org)

#### ***New Standard***

BSR/ASB Std 125-202x, Organizational and Foundational Standard for Medicolegal Death Investigation (new standard)

This document outlines the minimum requirements, fundamental activities, general procedures, facilities, and personnel that are the basic components of a medicolegal death investigation system. This document provides an overarching description of educational frameworks, operational roles, and processes for the medicolegal death investigation system. Please note that comments on a re-circulation will only be accepted on revised sections of a document, comments made to text not revised from the original public comment period will not be accepted.

Single copy price: Free

Obtain an electronic copy from: This is a public comment period for a recirculation. Updated document, redline version, and comments can be viewed on the AAFS Standards Board website at: <http://www.asbstandardsboard.org/notice-of-standard-development-and-coordination/>.

Order from: Document will be provided electronically on AAFS Standards Board website <http://www.asbstandardsboard.org/> free of charge. Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [asb@aafs.org](mailto:asb@aafs.org)

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

901 N. Glebe Road, Suite 300, Arlington, VA 22203 p: (703) 253-8274 w: [www.aami.org](http://www.aami.org)

#### ***New Standard***

BSR/AAMI PC76-202x, Active implantable medical devices - Requirements and test protocols for safety of patients with pacemakers and ICDs exposed to magnetic resonance imaging (new standard)

Provides requirements and test protocols for implantable pacemakers and ICDs exposed to magnetic resonance imaging. Physicians are increasingly using magnetic resonance imaging as tool for differential diagnostic, thus exposing pacemakers and ICD patients to such equipment. Current product standards for implantable pacemakers and ICDs do not include requirements and test protocols for implantable pacemakers and ICDs, which would ensure patient safety during such procedures.

Single copy price: Free

Obtain an electronic copy from: [jmoyer@aami.org](mailto:jmoyer@aami.org)

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Jennifer Moyer (703) 253-8274 [jmoyer@aami.org](mailto:jmoyer@aami.org)



## Comment Deadline: November 2, 2020

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

1791 Tullie Circle, NE, Atlanta, GA 30329 p: (404) 636-8400 w: [www.ashrae.org](http://www.ashrae.org)

#### ***New Standard***

BSR/ASHRAE Standard 219-202x, Method of Testing the Ability of Liquid Line Filter Driers or Adsorbents to Remove Organic Acid (new standard)

ASHRAE Standard 219-202x establishes a suitable laboratory apparatus and test method for determining the ability of various adsorbents and refrigerant liquid line filter driers to remove specific organic acids from refrigerant-lubricant mixtures.

Single copy price: \$35.00

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

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

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

### ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 p: (212) 591-8489 w: [www.asme.org](http://www.asme.org)

#### ***Revision***

BSR/ASME BTH-1-202x, Design of Below-the-Hook Lifting Devices (revision of ANSI/ASME BTH-1-2017)

This Standard provides minimum structural, mechanical, and electrical design criteria for ASME B30.20, Below-the-Hook Lifting Devices. The provisions in this Standard apply to the design or modification of below-the-hook lifting devices. Compliance with requirements and criteria that may be unique to specialized industries and environments is outside the scope of this Standard. Lifting devices designed to this Standard shall comply with ASME B30.20, Below-the-Hook Lifting Devices. ASME B30.20 includes provisions that apply to the marking, construction, installation, inspection, testing, maintenance, and operation of below-the-hook lifting devices. The provisions defined in this Standard address the most common and broadly applicable aspects of the design of below-the-hook lifting devices. A qualified person shall determine the appropriate methods to be used to address design issues that are not explicitly covered in the Standard so as to provide design factors and/or performance consistent with the intent of this Standard.

Single copy price: Free

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Elijah Dominguez (212) 591-8521 [dominguez@asme.org](mailto:dominguez@asme.org)

### AWWA (American Water Works Association)

6666 W. Quincy Ave., Denver, CO 80235 p: (303) 347-6178 w: [www.awwa.org](http://www.awwa.org)

#### ***Revision***

BSR/AWWA C214-202x, Machine-Applied Polyolefin Tape Coatings for Steel Water Pipe (revision of ANSI/AWWA C214-2013)

This standard describes the materials and application of prefabricated polyolefin tape coating systems in coating plants at fixed sites using coating techniques and equipment as recommended by the tape-coating manufacturer.

Single copy price: Free

Obtain an electronic copy from: [ETSsupport@awwa.org](mailto:ETSsupport@awwa.org)

Order from: AWWA, Vicki David [vdavid@awwa.org](mailto:vdavid@awwa.org)

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: AWWA, Paul Olson [polson@awwa.org](mailto:polson@awwa.org)

### AWWA (American Water Works Association)

6666 W. Quincy Ave., Denver, CO 80235 p: (303) 347-6178 w: [www.awwa.org](http://www.awwa.org)

#### ***Revision***

BSR/AWWA C605-202x, Underground Installation of Polyvinyl Chloride (PVC) and Molecularly Oriented Polyvinyl Chloride (PVCO) Pressure Pipe and Fittings (revision of ANSI/AWWA C605-2013)

This standard describes underground installation and pressure testing requirements for polyvinyl chloride (PVC) and molecularly oriented polyvinyl chloride (PVCO) pressure pipe and fittings used to transport potable water, reclaimed water, irrigation water, wastewater, or for the conveyance of any fluid compatible with PVC or PVCO.

Single copy price: Free

Obtain an electronic copy from: [ETSsupport@awwa.org](mailto:ETSsupport@awwa.org)

Order from: AWWA, Vicki David [vdavid@awwa.org](mailto:vdavid@awwa.org)

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: AWWA, Paul Olson [polson@awwa.org](mailto:polson@awwa.org)

## Comment Deadline: November 2, 2020

### GBI (Green Building Initiative)

7805 S.W. 40th #80010, Portland, OR 97280 p: (503) 274-0448 103 w: [www.thegbi.org](http://www.thegbi.org)

#### Revision

BSR/GBI 01-202X, Green Globes Assessment Protocol for Commercial Buildings (revision of ANSI/GBI 01-2019)

The Standard includes criteria and practices for resource-efficient, healthy, resilient, and environmentally preferable construction of commercial buildings. Six areas of green building design will be included: environmental/project management, site, energy, water efficiency, materials, and indoor environment.

Single copy price: \$25.00 USD

Obtain an electronic copy from: <https://thegbi.org/ansi>

Order from: Emily Marx (503) 274-0448 103 [marx@thegbi.org](mailto:marx@thegbi.org)

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Same

### HI (Hydraulic Institute)

300 Interpace Parkway, Bldg A – 3rd Floor, Parsippany, NJ 07054 p: (862) 242-5339 w: [www.pumps.org](http://www.pumps.org)

#### Revision

BSR/HI 9.6.7-202x, Rotodynamic Pumps - Guideline for Effects of Liquid Viscosity on Performance (revision of ANSI/HI 9.6.7-2015)

This standard outlines the method for predicting performance of rotodynamic pumps in Newtonian liquids of viscosity greater than water. The standard applies to single and multi-stage rotodynamic pumps having radial impellers  $ns = 60$ , ( $Ns = 3000$ ), handling liquids exhibiting Newtonian behavior, and a kinematic viscosity greater than 1 and less than 4000 centistokes.

Single copy price: \$130.00 (non-members); \$97.50 (HI members)

Obtain an electronic copy from: [sdebel@pumps.org](mailto:sdebel@pumps.org)

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [sdebel@pumps.org](mailto:sdebel@pumps.org)

### ICC (International Code Council)

4051 Flossmoor Road, Country Club Hills, IL 60478 p: (888) 422-7233 4205 w: [www.iccsafe.org](http://www.iccsafe.org)

#### Revision

BSR/ASABE/ICC 802-202x, Landscape Irrigation Sprinkler and Emitter Standard (revision of ASABE/ICC 802-2014)

This standard is intended to establish minimum requirements for landscape irrigation emission devices to ensure adequate safety and performance; specify testing methods used to quantify product performance to enable component selection and specification in irrigation systems; and promote uniformity in classifying, rating, and marking landscape irrigation emission devices. This standard shall apply to sprinklers and emitters intended to dispense water from landscape irrigation systems onto a landscape.

Single copy price: Free

Obtain an electronic copy from: [https://shop.iccsafe.org/standards.html?p=5&product\\_list\\_order=name&publisher=ICC](https://shop.iccsafe.org/standards.html?p=5&product_list_order=name&publisher=ICC)

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [fgrable@iccsafe.org](mailto:fgrable@iccsafe.org)

### ICC (International Code Council)

4051 Flossmoor Road, Country Club Hills, IL 60478 p: (888) 422-7233 4205 w: [www.iccsafe.org](http://www.iccsafe.org)

#### Revision

BSR/ICC 600-202x, Standard for Residential Construction in High-Wind Regions (revision of ANSI/ICC 600-2013)

The Standard for Residential Construction in High-Wind Regions will specify prescriptive methodologies of wind-resistant design and construction details for buildings and other structures of wood-framed, steel-framed, concrete, or masonry construction sited in high-wind areas. This standard will provide prescriptive details for walls, floors, roofs, foundations, windows, doors, and other applicable components of construction.

Single copy price: Free

Obtain an electronic copy from: <https://www.iccsafe.org/products-and-services/standards/is-mhrrc/>

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [lnovak@iccsafe.org](mailto:lnovak@iccsafe.org)

## Comment Deadline: November 2, 2020

### ITSDF (Industrial Truck Standards Development Foundation, Inc.)

1750 K Street NW, Suite 460, Washington, DC 20006 p: (202) 296-9880 w: [www.indtrk.org](http://www.indtrk.org)

#### **Reaffirmation**

BSR/ITSDF B56.14-200x (R202x), Safety Standard for Vehicle Mounted Trucks (reaffirmation of ANSI/ITSDF B56.14-200x)

This Standard defines the safety requirements relating to the elements of design, operation, and maintenance of industrial and rough-terrain-vehicle mounted forklifts controlled by a riding operator.

Single copy price: Free

Obtain an electronic copy from: [info@itsdf.org](mailto:info@itsdf.org)

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [info@itsdf.org](mailto:info@itsdf.org)

### RIA (Robotic Industries Association)

900 Victors Way, Suite 140, Ann Arbor, MI 48108-5210 p: (734) 994-6088 w: [www.robotics.org](http://www.robotics.org)

#### **New Standard**

BSR/RIA R15.08-1-202x, Industrial Mobile Robots - Safety Requirements - Part 1: Requirements for the Industrial Mobile Robot (new standard)

This document specifies safety requirements for industrial mobile robots (IMRs). It describes basic hazards associated with IMRs in an industrial environment, and provides requirements to eliminate, or adequately reduce, the risks associated with these hazards. IMRs incorporate mobile platforms that can be either autonomous mobile robots (AMRs) or, where an industrial robot manipulator is combined with the mobile platform, automated guided vehicles (AGVs). (NOTE: For safety requirements of industrial robot manipulators that are fixed in place, see ANSI/RIA R15.06-2012; for safety requirements of AGVs that do not incorporate an industrial robot manipulator, see ANSI/ITSDF B56.5-2019.) Passenger-carrying vehicles and non-industrial mobile robots are out of scope for this document. This document is intended to be submitted for consideration as an ISO standard via ISO Technical Committee 299, Robotics.

Single copy price: \$225.00 (Non-members); \$190.00 (Members; of RIA (or its parent, A3))

Obtain an electronic copy from: [cfranklin@robotics.org](mailto:cfranklin@robotics.org)

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [cfranklin@robotics.org](mailto:cfranklin@robotics.org)

### SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 p: (800) 542-5040 w: [www.scte.org](http://www.scte.org)

#### **Revision**

BSR/SCTE 130-4-202x, Digital Program Insertion - Advertising Systems Interfaces - Part 4: Content Information Service (CIS) (revision and redesignation of ANSI/SCTE 130-4-2015)

This document, SCTE 130 Part 4, describes the Digital Program Insertion Advertising Systems Interfaces' Content Information Service (CIS) messaging and data type specification using XML, XML Namespaces, and XML Schema.

Single copy price: \$50.00

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

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

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

## Comment Deadline: November 2, 2020

### SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 p: (800) 542-5040 w: [www.scte.org](http://www.scte.org)

#### **Revision**

BSR/SCTE 130-05-202x, Digital Program Insertion - Advertising Systems Interfaces - Part 5: Placement Opportunity Information Service (POIS) (revision of ANSI/SCTE 130-5-2016)

This document defines the messaging protocol for the POIS consistent with other parts of the SCTE 130 standard. A POIS, or a repository to which it has access, stores and maintains descriptions of content placement opportunities (typically for advertisements) and the interface supports query and notification operations for those opportunities. A POIS additionally contains features, characteristics, and constraints for each placement opportunity, appropriate for the platform, rights, and policies, including those of the content in which it exists. These placement opportunities may or may not be content-specific and the traits and constraints may vary by network, geographic region, or other content distribution dimension.

Single copy price: \$50.00

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

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

### SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 p: (800) 542-5040 w: [www.scte.org](http://www.scte.org)

#### **Revision**

BSR/SCTE 130-07-202x, Digital Program Insertion - Advertising Systems Interfaces - Part 7: Message Transport (revision of ANSI/SCTE 130-07 2016)

This document describes the Digital Program Insertion Advertising Systems Interfaces' transport protocols required for the exchange of messages defined in the individual parts of the SCTE 130 specification.

Single copy price: \$50.00

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

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

### UL (Underwriters Laboratories)

333 Pfingsten Road, Northbrook, IL 60062-2096 p: (847) 664-1725 w: <https://ul.org/>

#### **New Standard**

BSR/UL 3741-202x, Standard for Safety for Standard for Safety for Photovoltaic Hazard Control (new standard)

This proposal for UL 3741 covers: (1) The first edition of the Standard for Photovoltaic Hazard Control, UL 3741, including applicable requirements for Canada, which covers a means for evaluation of PV Hazard Control components, equipment and systems that provide a reduced level of shock hazard from energized PV system equipment and circuits located within the PV array after the operation of hazard control initiation function(s) where required, such as but not limited to any PV Rapid Shutdown Equipment (PVRSE) or PV Rapid Shutdown Systems (PVRSS) that comply with UL 1741.

Single copy price: Free

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## Comment Deadline: November 2, 2020

### UL (Underwriters Laboratories)

12 Laboratory Drive, P.O. Box 13995, Research Triangle Park, NC 27709-3995 p: (919) 549-1391 w: <https://ul.org/>

#### **Revision**

BSR/UL 1963-202x, Standard for Safety for Refrigerant Recovery/Recycling Equipment (revision of ANSI/UL 1963-2013)

This proposal for UL 1963 covers: (1) Proposed clarifications and addition of alternate method for evaluating protective electronic circuits and controls using requirements based on UL 60335-1; (2) Addition of requirements for remotely operated refrigerant recovery/recycling equipment; (3) Update of motor-protection requirements; (4) Clarify requirements for large nonmetallic exterior surface materials; (5) Alternate compliance option for EMI filters; (6) Alternate power supplies; (7) Addition of new capacitor standard requirements; (8) Gasket requirements; (9) Wiring subjected to movement; (10) Clarification to marking requirements; (11) Maximum operating current and maximum rated current requirements; (12) Refrigerant requirement revisions; (13) Clarifications to barrier requirements; (14) Miscellaneous clarifications; and (15) Revisions for hose assembly requirements for flammability for class 2 and class 3 refrigerants.

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

700 K Street NW, Suite 600, Washington, DC 20001 p: (202) 737-8888 w: [www.incits.org](http://www.incits.org)

#### **Reaffirmation**

INCITS TR-31-2002 [R2020], Information Technology - Fibre Channel Avionics Environment (FC-AE), a Technical Report prepared by INCITS and registered with ANSI (reaffirm technical report)

Recommends the development of a specification for the use of Fibre Channel for use in the types of avionics applications. Wherever possible, this specification shall use the definitions contained in the Fibre Channel - Physical and Signaling Interface (FC-PH) and created by the other Fibre Channel projects. When necessary, this specification shall reference existing standards for the definition of the physical characteristics, e.g., packaging schemes, connectors, etc.

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#### **Reaffirmation**

INCITS TR-45-2009 [R2020], Information Technology - Biometric Performance Testing and Reporting - Part 7: Framework for Testing Methodologies for Specific Modalities, a Technical Report prepared by INCITS and registered with ANSI (reaffirm technical report)

This technical report provides guidance for development of modality-specific biometric testing methodologies. Standard testing methodologies can be enhanced to account for modality-specific influencing factors, potentially improving the applicability of test results.

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#### **Reaffirmation**

INCITS/ISO TS 19130-2:2014 [2020], Geographic information - Imagery sensor models for geopositioning - Part 2: SAR, InSAR, lidar and sonaR, a Technical Specification prepared by INCITS and registered with ANSI (reaffirm technical report)

Supports exploitation of remotely sensed images. It specifies the sensor models and metadata for geopositioning images remotely sensed by Synthetic Aperture Radar (SAR), Interferometric Synthetic Aperture Radar (InSAR), Light Detection And Ranging (lidar), and SOund Navigation And Ranging (sonar) sensors. The specification also defines the metadata needed for the aerial triangulation of airborne and spaceborne images.

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#### **Reaffirmation**

INCITS/ISO TS 19159-1:2014 [R2020], Geographic information - Calibration and validation of remote sensing imagery sensors and data - Part 1: Optical sensors, a Technical Report prepared by INCITS and registered with ANSI (reaffirm technical report)

Defines the calibration and validation of airborne and spaceborne remote sensing imagery sensors. The term "calibration" refers to geometry, radiometry, and spectral, and includes the instrument calibration in a laboratory as well as in situ calibration methods. The validation methods address validation of the calibration information.

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#### **Reaffirmation**

INCITS/ISO/IEC TR 14165-372:2011 [R2020], Information technology - Fibre Channel - Part 372: Methodologies of interconnects-2 (FC-MI-2), a Technical Report prepared by INCITS and registered with ANSI (reaffirm technical report)

Intended to document interoperability behavior for Fabric elements (i.e., EPort, FPort, FL\_Port). It includes a wide range of issues such as link initialization, error detection, error recovery, fabric operation, management capabilities, and zoning. It serves as an implementation guide, whose primary objective is to maximize the likelihood of interoperability between conforming implementations. It specifies common methodologies for both Arbitrated Loop and Switched environments. The goal of this technical report is to facilitate interoperability between devices whether they are connected in a loop or Fabric topology.

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#### **Reaffirmation**

INCITS/ISO/IEC TR 14496-9:2009 [R2020], Information technology - Coding of audio-visual objects - Part 9: Reference hardware description, a Technical Report prepared by INCITS and registered with ANSI (reaffirm technical report)

Specifies descriptions of the main video coding tools in hardware description language (HDL) form. Such alternative descriptions to the ones that are reported in ISO/IEC 14496-2, ISO/IEC 14496-5, and ISO/IEC TR 14496-7 correspond to the need of providing the public with conformant standard descriptions that are closer to the starting point of the development of codec implementations than textual descriptions or pure software descriptions. ISO/IEC TR 14496-9:2009 contains conformant descriptions of video tools that have been validated within the recommendation ISO/IEC TR 14496-7.

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#### **Reaffirmation**

INCITS/ISO/IEC TR 19795-3:2007 [R2020], Information technology - Biometric Performance Testing and Reporting - Part 3: Modality-Specific Testing, a Technical Report prepared by INCITS and registered with ANSI (reaffirm technical report)

In biometric performance testing and reporting, careful consideration needs to be given to the characteristic differences of each modality (fingerprint, face, iris, etc.). These differences naturally require variations within the general methodology defined in ISO/IEC 19795-1. ISO/IEC TR 19795-3:2007 describes the methodologies relating to these modality-dependent variations. It presents and defines methods for determining, given a specific biometric modality, how to develop a technical performance test.

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#### **Reaffirmation**

INCITS/ISO/IEC TR 24714-1:2008 [R2020], Information technology - Biometrics - Jurisdictional and societal considerations for commercial applications - Part 1: General guidance, a Technical Report prepared by INCITS and registered with ANSI (reaffirm technical report)

Gives guidelines for the stages in the life cycle of a system's biometric and associated elements. This covers the following: the capture and design of initial requirements, including legal frameworks; development and deployment; operations, including enrollment and subsequent usage; interrelationships with other systems; related data storage and security of data; data updates and maintenance; training and awareness; system evaluation and audit; and controlled system expiration. The areas addressed are limited to the design and implementation of biometric technologies with respect to the following: legal and societal constraints on the use of biometric data; accessibility for the widest population; health and safety, addressing the concerns of users regarding direct potential hazards as well as the possibility of the misuse of inferred data from biometric information.

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#### **Reaffirmation**

INCITS/ISO/IEC TR 29794-5:2010 [R2020], Information technology - Biometric Sample Quality - Part 5: Face image data, a Technical Report prepared by INCITS and registered with ANSI (reaffirm technical report)

For aspects of quality specific to facial images, ISO/IEC TR 29794-5:2010: specifies terms and definitions that are useful in the specification, use, and testing of face image quality metrics; defines the purpose, intent, and interpretation of face image quality scores. Performance assessment of quality algorithms and standardization of quality algorithms are outside the scope of ISO/IEC TR 29794-5:2010.

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#### **Reaffirmation**

INCITS/ISO/IEC TR 9573:1988 [R2020], Information processing - SGML support facilities - Techniques for using SGML, a Technical Report prepared by INCITS and registered with ANSI (reaffirm technical report)

This Technical Report complements ISO 8879 by providing additional tutorial information. It is not intended, and should not be regarded, as an extension, modification, or interpretation of ISO 8879. The SGML language contains a number of components, some of which are optional features. The tutorial information covers the main components of the language only; notably a discussion of LINK, CONCUR, and DATATAG is outside the scope of this Technical Report.

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#### **Reaffirmation**

INCITS/ISO/IEC TR 9575:1995 [R2020], Information technology - Telecommunications and information exchange between systems - OSI Routing Framework, a Technical Report prepared by INCITS and registered with ANSI (reaffirm technical report)

Provides a framework in which OSI protocols for routing may be developed and to expedite the progression of routing protocols through the standardization process. Reflects the current state of OSI routing and does not preclude future extensions and developments.

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#### **Reaffirmation**

INCITS/ISO/IEC TR 15285:1998 [R2020], Information technology - An operational model for characters and glyphs, a Technical Report prepared by INCITS and registered with ANSI (reaffirm technical report)

The purpose of this Technical Report is to provide a general framework for discussing characters and glyphs. The framework is applicable to a variety of coded character sets and glyph-identification schemes. For illustration, this Technical Report uses examples from characters coded in ISO/IEC 10646 and glyphs registered according to ISO/IEC 10036.

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#### **Reaffirmation**

INCITS/ISO/IEC TR 29144:2014 [R2020], Information technology - Biometrics - The use of biometric technology in commercial Identity Management applications and processes, a Technical Report prepared by INCITS and registered with ANSI (reaffirm technical report)

Discuss concepts and considerations for the use of biometrics in a commercial Identity Management Solutions, items that need to be considered when integrating biometrics into a commercial Identity Management Solutions, and implementation Issues when implementing biometrics into commercial Identity Management Solutions. This Technical Report will not define an architecture and framework for IDM, discuss any specification or assessment of government policy, discuss the business need for a biometric database or process, discuss the specific biometrics and which ones are to be used in particular systems, consider the legality and acceptability in particular jurisdictions and cultures, analyze the general structure of identifiers and the global identification of objects (e.g., object identifiers), and discuss technical specifications in relation to the use of trusted biometric hardware and software.

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#### **Reaffirmation**

INCITS/ISO/IEC TR 29194:2015 [R2020], Information Technology - Biometrics - Guide on designing accessible and inclusive biometric systems, a Technical Report prepared by INCITS and registered with ANSI (reaffirm technical report)

Provides guidance for biometric system design and procurement to handle the range of accessibility and usability issues. This report will build upon the generic guidance in ISO/IEC/TR 24714-1, Information technology - Biometrics, jurisdictional and societal considerations for commercial applications - Part 1: General guidance. The biometric modalities addressed in this technical report include those described in the ISO/IEC 19794, (All parts), Information Technology - Biometric data interchange formats: Finger Face Iris Signature Vascular Hand-geometry Voice.

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#### **Reaffirmation**

INCITS/ISO/IEC TR 29195:2015 [R2020], Traveller processes for biometric recognition in automated border, a Technical Report prepared by INCITS and registered with ANSI (reaffirm technical report)

Provides recommended best practices and processes for automated border control systems using biometrics to verify an identity claim by a traveler that uses an ePassport or equivalent identity card as the basis for the claim. It indicates areas that organizations proposing to use biometric technologies will need to address during design, deployment, and operation. Much of the information is generic to all types of applications especially around signage; however, some information will be specific to the modality of biometric technology used and how that technology is physically implemented.

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#### **Reaffirmation**

INCITS/ISO/IEC TR 29198:2013 [R2020], Information technology - Biometrics - Characterization and measurement of difficulty for fingerprint databases for technology evaluation, a Technical Report prepared by INCITS and registered with ANSI (reaffirm technical report)

Provides guidance on estimating how challenging or stressing is an evaluation dataset for fingerprint recognition, based on relative sample quality, relative rotation, deformation, and overlap between impressions. In addition, this Technical Report establishes a method for construction of datasets of different levels of difficulty. This Technical Report defines the relative level of difficulty of a fingerprint dataset used in technology evaluation of fingerprint recognition algorithms. Level of difficulty is based on differences between reference and probe samples in the aforementioned factors.

Single copy price: \$60.00

Order from: ANSI

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Deborah Spittle (202) 737-8888 [comments@standards.incits.org](mailto:comments@standards.incits.org)

## Withdrawal of Technical Reports Registered with ANSI

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

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

700 K Street NW, Suite 600, Washington, DC 20001 p: (202) 737-8888 w: [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC TS 29112:2012 [2015], Information technology - Office equipment - Test charts and methods for measuring monochrome printer resolution, a Technical Report prepared by INCITS and registered with ANSI

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

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

700 K Street NW, Suite 600, Washington, DC 20001 p: (202) 737-8888 w: [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC TR 29186:2012 [2015], Information technology - Office equipment - Test method of colour gamut mapping algorithm for office colour softcopy and hardcopy, a Technical Report prepared by INCITS and registered with ANSI.

# 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)**

**Contact:** Jennifer Moyer  
901 N. Glebe Road, Suite 300  
Arlington, VA 22203  
p: (703) 253-8274  
e: jmoyer@aami.org

BSR/AAMI PC76-202x, Active implantable medical devices - Requirements and test protocols for safety of patients with pacemakers and ICDs exposed to magnetic resonance imaging (new standard)

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

**Contact:** Karl Best  
2311 Wilson Boulevard, Suite 400  
Arlington, VA 22201-3001  
p: (703) 293-4887  
e: kbest@ahrinet.org

BSR/AHRI Standard 885 (I-P)-202x, Procedure for Estimating Occupied Space Sound Levels in the Application of Air Terminals and Air Outlets (new standard)

BSR/AHRI Standard 886 (SI)-202x, Procedure for Estimating Occupied Space Sound Levels in the Application of Air Terminals and Air Outlets (new standard)

## **AMCA (Air Movement and Control Association)**

**Contact:** Shruti Kohli-Bhargava  
30 West University Drive  
Arlington Heights, IL 60004-1893  
p: (847) 704-6285  
e: shrutik@amca.org

BSR/AMCA Standard 301-2014 (R202x), Methods for Calculating Fan Sound Ratings from Laboratory Test Data (reaffirmation of ANSI/AMCA Standard 301-2014)

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

**Contact:** Lauren Bauerschmidt  
520 N. Northwest Hwy.  
Park Ridge, IL 60068  
p: (847) 768-3475  
e: LBauerschmidt@assp.org

BSR A10.12-202x, Safety Requirements for Excavation (revision and redesignation of ANSI/ASSE A10.12-1998 (R2016))

## **ASSP (Safety) (American Society of Safety Professionals)**

**Contact:** Lauren Bauerschmidt  
520 N. Northwest Hwy  
Park Ridge, IL 60068  
p: (847) 768-3475  
e: LBauerschmidt@assp.org

BSR Z590.3-202x, Prevention through Design. Guidelines for Addressing Occupational Hazards and Risks in Design and Redesign Processes (revision and redesignation of ANSI/ASSE Z590.3-2011 (R2016))

## **BIFMA (Business and Institutional Furniture Manufacturers Association)**

**Contact:** David Panning  
678 Front Ave. NW  
Grand Rapids, MI 49504  
p: (616) 591-9798  
e: dpanning@bifma.org

BSR/BIFMA X5.41-202X, Large Occupant Public and Lounge Seating (new standard)

# 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.

---

## CTA (Consumer Technology Association)

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

BSR/CTA 852.1-B-202x, Enhanced Protocol for Tunneling  
Component Network Protocols over Internet Protocol  
Channels (new standard)

## FCI (Fluid Controls Institute)

**Contact:** Leslie Schraff  
1300 Sumner Avenue  
Cleveland, OH 44115  
p: (216) 241-7333  
e: fci@fluidcontrolsinstitute.org

BSR/FCI 91-1-202x, Standard for Qualification of Control Valve  
Stem Seals (new standard)

## HI (Hydraulic Institute)

**Contact:** Susie deBel  
300 Interpace Parkway, Bldg A – 3rd Floor  
Parsippany, NJ 07054  
p: (862) 242-5339  
e: sdebel@pumps.org

BSR/HI 9.6.7-202x, Rotodynamic Pumps - Guideline for Effects  
of Liquid Viscosity on Performance (revision of ANSI/HI 9.6.7  
-2015)

## LIA (ASC Z136) (Laser Institute of America)

**Contact:** Liliana Caldero  
13501 Ingenuity Drive, Suite 128  
Orlando, FL 32826  
p: (407) 380-1553  
e: lcaldero@lia.org

BSR Z136.5-202x, Standard for Safe Use of Lasers in Educational  
Institutions (revision of ANSI Z136.5-2020)

BSR Z136.7-202x, Standard for Testing and Labeling of Laser  
Protective Equipment (revision of ANSI Z136.7-2020)

## NECA (National Electrical Contractors Association)

**Contact:** Lina Jariri  
3 Bethesda Metro Center, Suite 1100  
Bethesda, MD 20814  
p: (240) 800-5003  
e: lina.jariri@necanet.org

BSR/NECA 408-202X, Standard for Installing and Maintaining  
Busways (revision of ANSI/NECA 408-2015)

## NSF (NSF International)

**Contact:** Allan Rose  
789 N. Dixboro Road  
Ann Arbor, MI 48105-9723  
p: (734) 827-3817  
e: arose@nsf.org

BSR/NSF 4-202x (i30r1), Commercial Cooking, Rethermalization,  
and Powered Hot Food Holding and Transportation  
Equipment (revision of ANSI/NSF 4-2019)

BSR/NSF 6-202x (i17r1), Dispensing Freezers (revision of  
ANSI/NSF 6-2018)

BSR/NSF 8-202x (i18r1), Commercial Powered Food Preparation  
Equipment (revision of ANSI/NSF 8-2018)

BSR/NSF 18-202x (i17r1), Manual Food and Beverage Dispensing  
Equipment (revision of ANSI/NSF 18-2016)

BSR/NSF 25-202x (i13r1), Vending Machines for Food and  
Beverages (revision of ANSI/NSF 25-2017)

# 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.

---

**Contact:** Jason Snider  
789 N. Dixboro Road  
Ann Arbor, MI 48105-9723  
p: (734) 418-6660  
e: jsnider@nsf.org

BSR/NSF/CAN 50-202x (i160r4), Equipment and Chemicals for  
Swimming Pools, Spas, Hot Tubs, and Other Recreational  
Water Facilities (revision of ANSI/NSF/CAN 50-2019)

**Contact:** Monica Leslie  
789 N. Dixboro Road  
Ann Arbor, MI 48105-9723  
p: (734) 827-5643  
e: mleslie@nsf.org

BSR/NSF 42-202x (i107r1), Drinking Water Treatment Units -  
Aesthetic Effects (revision of ANSI/NSF 42-2019)

BSR/NSF 53-202x (i126r1), Drinking Water Treatment Units -  
Health Effects (revision of ANSI/NSF 53-2019)

BSR/NSF 244-202x (i11r1), Supplemental Microbiological Water  
Treatment Systems - Filtration (revision of ANSI/NSF 244  
-2019)

BSR/NSF 401-202x (i19r1), Drinking Water Treatment Units -  
Emerging Compounds/Incidental Contaminants (revision of  
ANSI/NSF 401-2019)

## **UL (Underwriters Laboratories)**

**Contact:** Kevin Wu  
171 Nepean Street, Suite 400  
Ottawa, ON K2P 0B4 Canada  
p: (613) 368-4437  
e: kevin.hf.wu@ul.org

BSR/UL 1323-202x, Standard for Safety for Scaffold Hoists  
(revision of ANSI/UL 1323-2020)



# Call for Members (ANS Consensus Bodies)

## ANS Soliciting Members for Multiple Consensus Bodies

The American Nuclear Society is seeking to broaden its membership on seven consensus bodies. Subject matter experts in the interest categories of owners, vendors, architect-engineers, consultants, national laboratories, and universities are encouraged to complete and submit a volunteer form and resume/CV via email to [standards@ans.org](mailto:standards@ans.org). The American Nuclear Society volunteer form is available on the Society's website at <http://www.ans.org/standards/involved/volform/>.

Founded in 1954, the American Nuclear Society is an American National Standards Institute Accredited Standards Developer focused on the development and maintenance of standards that address the design, analysis, and operation of components, systems, and facilities related to the application of nuclear science and technology. Consensus bodies are the management committee and formal balloting body for multiple current standards and proposed standards in development. Each consensus body must maintain a balance of interest with no more than 1/3 of its membership in any one interest category. There is no fee to participate and no requirement to travel. Participation through remote and electronic means is required. Questions should be addressed to Pat Schroeder, ANS Standards Manager, at [pschroeder@ans.org](mailto:pschroeder@ans.org).

The American Nuclear Society is currently looking for new members on the following consensus bodies:

### Environmental and Siting Consensus Committee (ESCC)

The ESCC is responsible for the preparation and maintenance of voluntary consensus standards for all aspects of nuclear power plant and non-reactor nuclear facility siting, environmental assessment, environmental management, environmental monitoring, and the categorization and evaluation of natural phenomena hazards at these public and private sector nuclear facilities.

### Fuel, Waste, and Decommissioning Consensus Committee (FWDCC)

The FWDCC is responsible for the preparation and maintenance of voluntary consensus standards for the design, operation, maintenance, operator selection and training, quality requirements of new and used fuel transport, storage and related handling facilities; including high level/transuranic waste, greater-than-Class C, low level, and mixed waste processing and facilities, and for the decommissioning of commercial, educational, research and government facilities

### Large Light Water Reactor Consensus Committee (LLWRCC)

The LLWRCC is responsible for the preparation and maintenance of voluntary consensus standards for the design, operation, maintenance, operator selection and training, and quality requirements for current operating nuclear power plants and future nuclear power plants that employ large station light water moderated, water-cooled reactors. The standards include the reactor island, balance of plant, and other systems within the plant boundary that affect safety and operations.

#### Nuclear Criticality Safety Consensus Committee (NCSCC)

The NCSCC is responsible for the preparation and maintenance of voluntary consensus standards for determining the potential for nuclear criticality of fissile material outside reactors, for the prevention of accidental criticality, for mitigating consequences of accidents should they occur, and for the prevention of nuclear chain reactions in activities associated with handling, storing, transporting, processing, and treating fissionable nuclides.

#### Nonreactor Nuclear Facilities Consensus Committee (NRNFCC)

The NRNFCC is responsible for the preparation and maintenance of voluntary consensus standards for the safety analysis, design, maintenance, operator selection and training, and quality requirements for nonreactor nuclear facilities including facilities using radioactive isotopes, remote handling of radioactive materials, fuel processing, mixed oxide fuel processing and other fuel cycle facilities other than spent fuel handling and storage.

#### Research and Advanced Reactors Consensus Committee (RARCC)

The RARCC is responsible for the preparation and maintenance of voluntary consensus standards for the design, operation, maintenance, operator selection and training, and quality requirements for current and future research and test reactors including pulsed critical facilities, reactors used for the production of isotopes for industrial, educational, and medical purposes and current and advanced non-large light water reactors. The scope includes but is not limited to water-cooled and non-water cooled Small Modular Reactors, Generation III+ and IV reactors, and future non-light water cooled/moderated large commercial reactors.

#### Safety and Radiological Analyses Consensus Committee (SRACC)

The SRACC is responsible for the preparation and maintenance of voluntary consensus standards for physics methods and measurements for nuclear facilities, shielding materials and methods for shielding analyses, safety analyses and for the associated computational methods and computer codes. Input data for calculations and codes, such as nuclear cross sections, are included in this scope.

In addition to openings on consensus bodies, several openings exist on working groups (i.e., writing groups of a specific standard). Additional volunteer opportunities may be found at <https://cdn.ans.org/standards/involved/voloppor/docs/ans-standards-projects-in-need-of-volunteer-support.pdf>.

# Call for Members (ANS Consensus Bodies)

## AWI 1236, Countertops-20XX

### Comment Deadline: September 30, 2020

Architectural Woodwork Institute (AWI) is actively seeking participants for the **AWI 1236 – Countertops-20XX** standard canvass group in the General Interest or User categories.

**AWI 1236 – Countertops-20XX, AWI Standards Countertops Scope:** Provide aesthetic and performance standards for various countertop materials including but not limited to plastic-laminate clad (decorative laminate/HPDL), solid surface, epoxy resin, natural and engineered stone, solid and veneered wood, and solid phenolic.

AWI is seeking all materially affected persons, who qualify for:

**General Interest:** Public or private organizations or individuals that have an interest in the design or use of products associated with AWI standards, but neither produce nor use them directly. (e.g., industry trade associations, code officials, members of academia, governmental agencies, environmental NGOs, etc.)

**User:** Organizations or individuals that use or specify the products associated with AWI standards. (e.g., architects, distributors, fabricators, general contractors, consumers, etc.)

To apply to participate in the canvass of AWI 1236 – Countertops-20XX or to obtain additional information, please contact [cdermyre@awinet.org](mailto:cdermyre@awinet.org) by September 30, 2020.

Any person(s) who do not qualify for the General Interest and/or User categories, are encouraged to participate in the public comment portion of the ANSI process.

## **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](mailto: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.

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## ANS (American Nuclear Society)

### *New Standard*

ANSI/ANS 6.1.1-2020, Neutron and Photon Fluence-to-Dose Conversion Coefficients (new standard): 9/10/2020

## ASC X9 (Accredited Standards Committee X9, Incorporated)

### *New Standard*

ANSI X9.142-2020, Public Key Cryptography: The Elliptic Curve Digital Signature Algorithm (ECDSA) (new standard): 9/10/2020

## ASME (American Society of Mechanical Engineers)

### *Reaffirmation*

ANSI/ASME PTC 12.1-2015 (R2020), Closed Feedwater Heaters (reaffirmation of ANSI/ASME PTC 12.1-2015): 9/10/2020

### *Revision*

ANSI/ASME HST-6-2020, Performance Standard for Air Wire Rope Hoists (revision of ANSI/ASME HST-6-2015): 9/11/2020

ANSI/ASME NM.1-2020, Thermoplastic Piping Systems (revision of ANSI/ASME NM.1-2018): 9/11/2020

## AWS (American Welding Society)

### *New Standard*

ANSI/AWS A5.29/A5.29M-2021, Specification for Low-Alloy Steel Electrodes for Flux Cored Arc Welding (new standard): 9/11/2020

ANSI/AWS D10.22/D10.22M-2021, Specification for Local Heating of Welds in Creep Strength-Enhanced Ferritic Steels, in Piping and Tubing Using Electric Resistance Heating (new standard): 9/14/2020

### *Revision*

ANSI/AWS D8.8M-2020, Specification for Automotive Weld Quality - Arc Welding of Steel (revision of ANSI/AWS D8.8M-2014): 9/10/2020

## AWWA (American Water Works Association)

### *Supplement*

ANSI/AWWA C210a-2020, Addendum to ANSI/AWWA C210-15 (supplement to ANSI/AWWA C210-2015): 9/14/2020

## FM (FM Approvals)

### *Revision*

ANSI/FM 2510-2020, Flood Abatement Equipment (revision of ANSI/FM 2510-2014): 9/14/2020

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

### *Revision*

ANSI C63.10-2020, Standard of procedures for compliance testing of unlicensed wireless devices (revision of ANSI C63.10-2013): 9/10/2020

## NSF (NSF International)

### *Revision*

ANSI/NSF 13-2020 (i7r1), Refuse Processors and Processing Systems (revision of ANSI/NSF 13-2017): 9/8/2020

ANSI/NSF 49-2020 (i155r1), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2019): 9/8/2020

## UL (Underwriters Laboratories)

### *New Standard*

ANSI/UL 15027-3-2020, Standard for Immersion suits - Part 3: Test methods (new standard): 9/8/2020

### *Revision*

ANSI/UL 621-2020, Standard for Safety for Ice Cream Makers (revision of ANSI/UL 621-2005): 9/9/2020

ANSI/UL 1278-2020, Standard for Safety for Movable and Wall- or Ceiling-Hung Electric Room Heaters (revision of ANSI/UL 1278-2018): 9/10/2020

ANSI/UL 8750-2020a, Standard for Safety for Light Emitting Diode (LED) Equipment for Use in Lighting Products (revision of ANSI/UL 8750-2020): 9/11/2020

ANSI/UL 121303-2020, Standard for Safety for Guide for Use of Detectors for Flammable Gases (revision and redesignation of BSR/UL 121303-202x): 9/9/2020

# 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 (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)**

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](http://www.ansi.org/asd), select "American National Standards Maintained Under Continuous Maintenance." Questions? [psa@ansi.org](mailto:psa@ansi.org).

# 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](mailto:standact@ansi.org).

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## **AAFS**

American Academy of Forensic Sciences  
410 North 21st Street  
Colorado Springs, CO 80904  
p: (719) 453-1036  
[www.aafs.org](http://www.aafs.org)

## **AAMI**

Association for the Advancement of Medical Instrumentation  
901 N. Glebe Road, Suite 300  
Arlington, VA 22203  
p: (703) 253-8274  
[www.aami.org](http://www.aami.org)

## **AHRI**

Air-Conditioning, Heating, and Refrigeration Institute  
2311 Wilson Boulevard  
Suite 400  
Arlington, VA 22201-3001  
p: (703) 293-4887  
[www.ahrinet.org](http://www.ahrinet.org)

## **AMCA**

Air Movement and Control Association  
30 West University Drive  
Arlington Heights, IL 60004-1893  
p: (847) 704-6285  
[www.amca.org](http://www.amca.org)

## **ANS**

American Nuclear Society  
555 North Kensington Avenue  
La Grange Park, IL 60526  
p: (708) 579-8268  
[www.ans.org](http://www.ans.org)

## **ASC X9**

Accredited Standards Committee X9, Incorporated  
275 West Street  
Suite 107  
Annapolis, MD 21401  
p: (410) 267-7707  
[www.x9.org](http://www.x9.org)

## **ASHRAE**

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.  
1791 Tullie Circle, NE  
Atlanta, GA 30329  
p: (678) 539-1214  
[www.ashrae.org](http://www.ashrae.org)

## **ASME**

American Society of Mechanical Engineers  
Two Park Avenue  
M/S 6-2B  
New York, NY 10016-5990  
p: (212) 591-8489  
[www.asme.org](http://www.asme.org)

## **ASSP (ASC A10)**

American Society of Safety Professionals  
520 N. Northwest Hwy.  
Park Ridge, IL 60068  
p: (847) 768-3475  
[www.assp.org](http://www.assp.org)

## **ASSP (Safety)**

American Society of Safety Professionals  
520 N. Northwest Hwy  
Park Ridge, IL 60068  
p: (847) 768-3475  
[www.assp.org](http://www.assp.org)

## **AWS**

American Welding Society  
8669 NW 36th Street  
Suite 130  
Miami, FL 33166-6672  
p: (305) 443-9353 301  
[www.aws.org](http://www.aws.org)

## **AWWA**

American Water Works Association  
6666 W. Quincy Ave.  
Denver, CO 80235  
p: (303) 347-6178  
[www.awwa.org](http://www.awwa.org)

## **BIFMA**

Business and Institutional Furniture Manufacturers Association  
678 Front Ave. NW  
Grand Rapids, MI 49504  
p: (616) 591-9798  
[www.bifma.org](http://www.bifma.org)

## **CAPA**

Certified Automotive Parts Association  
c/o Intertek  
4700 Broadmoor SE, Suite 200  
Kentwood, MI 49512  
p: (616) 656-7483  
[www.CAPACertified.org](http://www.CAPACertified.org)

## **CTA**

Consumer Technology Association  
1919 South Eads Street  
Arlington, VA 22202  
p: (703) 907-7697  
[www.cta.tech](http://www.cta.tech)

**DSI**

Dental Standards Institute, Inc.  
 109 Bushaway Road  
 Suite 100  
 Wayzata, MN 55391  
 p: (763) 290-0004  
<https://dentalstandardsinstitute.com/>

**FM**

FM Approvals  
 1151 Boston-Providence  
 Turnpike  
 Norwood, MA 02062  
 p: (781) 255-4813  
[www.fmglobal.com](http://www.fmglobal.com)

**GBI**

Green Building Initiative  
 7805 S.W. 40th #80010  
 Portland, OR 97280  
 p: (503) 274-0448 103  
[www.thegbi.org](http://www.thegbi.org)

**HI**

Hydraulic Institute  
 300 Interpace Parkway  
 Bldg A – 3rd Floor  
 Parsippany, NJ 07054  
 p: (862) 242-5339  
[www.pumps.org](http://www.pumps.org)

**ICC**

International Code Council  
 4051 Flossmoor Road  
 Country Club Hills, IL 60478  
 p: (888) 422-7233 4205  
[www.iccsafe.org](http://www.iccsafe.org)

**IEEE (ASC C63)**

Institute of Electrical and  
 Electronics Engineers  
 445 Hoes Lane  
 Piscataway, NJ 08854  
 p: (732) 562-3874  
[www.ieee.org](http://www.ieee.org)

**ITI (INCITS)**

InterNational Committee for  
 Information Technology  
 Standards  
 700 K Street NW  
 Suite 600  
 Washington, DC 20001  
 p: (202) 737-8888  
[www.incits.org](http://www.incits.org)

**ITSDF**

Industrial Truck Standards  
 Development Foundation, Inc.  
 1750 K Street NW  
 Suite 460  
 Washington, DC 20006  
 p: (202) 296-9880  
[www.indtrk.org](http://www.indtrk.org)

**LIA (ASC Z136)**

Laser Institute of America  
 13501 Ingenuity Drive, Suite  
 128  
 Orlando, FL 32826  
 p: (407) 380-1553  
[www.laserinstitute.org](http://www.laserinstitute.org)

**NECA**

National Electrical Contractors  
 Association  
 3 Bethesda Metro Center  
 Suite 1100  
 Bethesda, MD 20814  
 p: (240) 800-5003  
[www.neca-neis.org](http://www.neca-neis.org)

**NSF**

NSF International  
 789 N. Dixboro Road  
 Ann Arbor, MI 48105-9723  
 p: (734) 827-3817  
[www.nsf.org](http://www.nsf.org)

**RESNA**

Rehabilitation Engineering and  
 Assistive Technology Society  
 of North America  
 2025 M Street NW  
 Suite 800  
 Washington, DC 20036  
 p: (312) 321-6826  
[www.resna.org](http://www.resna.org)

**SCTE**

Society of Cable  
 Telecommunications  
 Engineers  
 140 Philips Rd  
 Exton, PA 19341  
 p: (800) 542-5040  
[www.scte.org](http://www.scte.org)

**UL**

Underwriters Laboratories  
 333 Pfingsten Road  
 Northbrook, IL 60062-2096  
 p: (847) 664-1725  
<https://ul.org/>





# 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](mailto: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](mailto: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](mailto:sales@ansi.org). When making your request, please provide the date of the Standards Action issue in which the draft document you are requesting appears.

## ISO Standards

### DOCUMENTS AND DATA ELEMENTS IN ADMINISTRATION, COMMERCE AND INDUSTRY (TC 154)

ISO/DIS 14533-2, Processes, data elements and documents in commerce, industry and administration - Long-term signature - Part 2: profiles for XML Advanced Electronic Signatures (XAdES) - 11/29/2020, \$77.00

### RISK MANAGEMENT (TC 262)

ISO/DIS 31030, Travel risk management - Guidance for organizations - 11/27/2020, \$107.00

### ROAD VEHICLES (TC 22)

ISO/DIS 7299-2, Diesel engines - End-mounting flanges for pumps - Part 2: High-pressure supply pumps for common rail fuel injection systems - 11/29/2020, \$58.00

ISO/DIS 20730-1, Road vehicles - Vehicle interface for electronic Periodic Technical Inspection (ePTI) - Part 1: Application and communication requirements - 11/27/2020, FREE

## IEC Standards

1/2445/FDIS, IEC 60050-195 ED2: International Electrotechnical Vocabulary (IEV) - Part 195: Earthing and protection against electric shock, 10/23/2020

1/2446/FDIS, IEC 60050-195 ED2: International Electrotechnical Vocabulary (IEV) - Part 195: Earthing and protection against electric shock, 10/23/2020

2/2015/CDV, IEC 60034-18-1 ED3: Rotating electrical machines - Part 18-1: Functional evaluation of insulation systems - General guidelines, 12/04/2020

2/2016/CDV, IEC 60034-18-32 ED2: Rotating electrical machines - Part 18-32: Functional evaluation of insulation systems - Electrical endurance qualification procedures for form-wound windings, 12/04/2020

8/1558/CD, IEC TS 63222 ED1: Guidelines for network management - Power quality management, 12/04/2020

9/2626/Q, Proposed technical corrigendum to IEC 63076 Ed. 1.0 (2019-09-13): Railway applications - Rolling stock - Electrical equipment in trolley buses - Safety requirements and current collection systems, 10/23/2020

14/1060/CD, IEC 60076-4 ED2: Power transformers - Part 4: Guide to the lightning impulse and switching impulse testing - Power transformers and reactors, 12/04/2020

23B/1326/FDIS, IEC 60669-2-1 ED5: Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic control devices, 10/23/2020

40/2765/CDV, IEC 60286-1/AMD1 ED3: Amendment 1 - Packaging of components for automatic handling - Part 1: Tape packaging of components with axial leads on continuous tapes, 12/04/2020

40/2766/CDV, IEC 60384-1 ED6: Fixed capacitors for use in electronic equipment - Part 1: Generic specification, 12/04/2020

45/904(F)/FDIS, IEC 63048 ED1: Mobile remotely controlled systems for nuclear and radiological applications - General requirements, 10/02/2020

46F/519/CD, IEC 61169-68 ED1: Radio-frequency connectors - Part 68: Sectional specification for series TRK bayonet coupling triaxial connectors, 12/04/2020

- 46F/520/CD, IEC 61169-1-6 ED1: Radio-frequency connectors - Part 1-6: Electrical test methods - RF power, 12/04/2020
- 47/2656/CD, IEC 62951-9 ED1: Semiconductor devices - Flexible and stretchable semiconductor devices - Part 9: Performance testing methods of one transistor and one resistor (1T1R) resistive memory cells, 12/04/2020
- 47E/718/NP, PNW 47E-718 ED1: Semiconductor devices - Part 18-4: Semiconductor bio sensors - Evaluation method of noise characteristics of lens-free CMOS photonic array sensors, 12/04/2020
- 47E/719/NP, PNW 47E-719 ED1: Semiconductor devices - Part 18-5: Semiconductor bio sensors - Evaluation method for light responsivity characteristics of lens-free CMOS photonic array sensor package modules by incident angle of light, 12/04/2020
- 47F/363/CDV, IEC 62047-38 ED1: Semiconductor devices - Micro-electromechanical devices - Part 38: Test method for adhesion strength of metal powder paste in MEMS interconnection, 12/04/2020
- 48B/2844/CD, IEC 60512-27-200 ED1: Connectors for electrical and electronic equipment - Tests and measurements - Part 27-200: Additional specifications for signal integrity tests up to 2 000 MHz on IEC 60603-7 series connectors - Tests 27a to 27g, 12/04/2020
- 61J/735/CDV, IEC 60335-2-67 ED5: Household and similar electrical appliances - Safety - Part 2-67: Particular requirements for floor treatment machines, for commercial use, 12/04/2020
- 61J/736/CDV, IEC 60335-2-68 ED5: Household and similar electrical appliances - Safety - Part 2-68: Particular requirements for spray extraction machines, for commercial use, 12/04/2020
- 61J/737/CDV, IEC 60335-2-69 ED6: Household and similar electrical appliances - Safety - Part 2-69: Particular requirements for wet and dry vacuum cleaners, including power brush, for commercial use, 12/04/2020
- 61J/738/CDV, IEC 60335-2-72 ED5: Household and similar electrical appliances - Safety - Part 2-72: Particular requirements for floor treatment machines with or without traction drive, for commercial use, 12/04/2020
- 61J/739/CDV, IEC 60335-2-79 ED5: Household and similar electrical appliances - Safety - Part 2-79: Particular requirements for high pressure cleaners and steam cleaners, 12/04/2020
- 65/835(F)/FDIS, IEC 61010-2-202 ED2: Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-202: Particular requirements for electrically operated valve actuators, 10/09/2020
- 65C/1059/CD, IEC 61784-5-22 ED1: Industrial communication networks - Profiles - Part 5-22: Installation of fieldbuses - Installation profiles for CPF 22, 12/04/2020
- 65C/1060/CD, IEC 61784-5-8 ED3: Industrial communication networks - Profiles - Part 5-8: Installation of fieldbuses - Installation profiles for CPF 8, 12/04/2020
- 68/665/CDV, IEC 60404-11 ED2: Magnetic materials - Part 11: Methods of measurement of the surface insulation resistance of electrical steel strip and sheet, 12/04/2020
- 76/661/DTR, IEC TR 60825-14 ED2: Safety of laser products - Part 14: A user's guide, 11/06/2020
- 76/662/DTR, IEC TR 60825-3 ED3: Safety of laser products - Part 3: Guidance for laser displays and shows, 11/06/2020
- 86A/2035/CDV, IEC 60794-1-403 ED1: Optical Fibre Cables - Basic optical cable test procedures - Part 403: Electrical test methods - Electrical continuity test of cable metallic elements, Method H3, 12/04/2020
- 86A/2046/NP, PNW 86A-2046 ED1: Optical fibre cables - Part 2-23: Indoor optical fibre cables - Detailed specification for multi-fibre cables for use in MPO connector terminated cable assemblies, 12/04/2020
- 86A/2047/NP, PNW 86A-2047 ED1: Optical fibre cables - Part 2-24: Indoor optical fibre cables - Detailed specification for multiple multi-fibre unit cables for use in MPO connector terminated breakout cable assemblies, 12/04/2020
- 86A/2048/NP, PNW 86A-2048 ED1: Optical fibre cables - Basic optical cable test procedures - Part 1-221: Environmental test methods - Fungus resistance, 12/04/2020
- 86C/1684/CDV, IEC 62148-21 ED2: Fibre optic active components and devices - Package and interface standards - Part 21: Design guide of electrical interface of PIC packages using silicon fine-pitch ball grid array (S-FBGA) and silicon fine-pitch land grid array (S-FLGA), 12/04/2020
- 88/784/NP, PNW TS 88-784 ED1: Wind Turbine - Siting Risk Assessment, 12/04/2020
- 91/1661/CDV, IEC 61189-2-501 ED1: Test methods for electrical materials, printed board and other interconnection structures and assemblies - Part 2-501: Test methods for materials for interconnection structures - Measurement of resilience strength and resilience strength retention factor of flexible dielectric materials, 12/04/2020
- 91/1663/CDV, IEC 62878-2-602 ED1: Device Embedding assembly technology - Part 2-602: Guideline for stacked electronic module - Evaluation method of inter-module electrical connectivity, 12/04/2020
- 103/196/CD, IEC 63098-2 ED1: Transmitting equipment for radiocommunication - Radio-over-fibre technologies and their performance standard - Part 2: Radio over fibre based fronthaul network for railway communication system, 12/04/2020

121A/382A/NP, Revised PNW 121A-382 ED1: Electrical accessories - Residual current monitors (RCMs) - Part 2: RCMs for industrial applications up to 1000 V AC, 11/27/2020

121A/384/FDIS, IEC 60947-6-2 ED3: Low-voltage switchgear and controlgear - Part 6-2: Multiple function equipment - Control and protective switching devices (or equipment) (CPS), 10/23/2020

CIS/B/748/DC, Draft of CISPR 37 - Industrial, scientific and medical equipment - Limits and methods of in situ measurements and measurements of large size/high power equipment, 11/27/2020



# Newly Published ISO & IEC Standards

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

## ISO Standards

### AGRICULTURAL FOOD PRODUCTS (TC 34)

[ISO 22579:2020](#), Infant formula and adult nutritionals - Determination of fructans - High performance anion exchange chromatography with pulsed amperometric detection (HPAEC-PAD) after enzymatic treatment, \$138.00

### AIRCRAFT AND SPACE VEHICLES (TC 20)

[ISO 27875/Amd1:2020](#), Space systems - Re-entry risk management for unmanned spacecraft and launch vehicle orbital stages - Amendment 1: Formula to obtain  $E_c$  by the product of the probability of impact on a specific latitude band, and the population within the band, which is integrated over the latitude range covered by the orbital inclination, \$19.00

### DIMENSIONAL AND GEOMETRICAL PRODUCT SPECIFICATIONS AND VERIFICATION (TC 213)

[ISO 25178-72/Amd1:2020](#), Geometrical product specifications (GPS) - Surface texture: Areal - Part 72: XML file format x3p - Amendment 1, \$19.00

### FACILITIES MANAGEMENT (TC 267)

[ISO 41014:2020](#), Facility management - Development of a facility management strategy, \$185.00

### FASTENERS (TC 2)

[ISO 1891-2/Amd1:2020](#), Fasteners - Terminology - Part 2: Vocabulary and definitions for coatings - Amendment 1, \$45.00

### GEOGRAPHIC INFORMATION/GEOMATICS (TC 211)

[ISO 19168-1:2020](#), Geographic information - Geospatial API for features - Part 1: Core, \$209.00

### GEOTECHNICS (TC 182)

[ISO 22476-9:2020](#), Geotechnical investigation and testing - Field testing - Part 9: Field vane test (FVT and FVT-F), \$162.00

### LIGHT METALS AND THEIR ALLOYS (TC 79)

[ISO 23052:2020](#), Anodizing of aluminium and its alloys - Test method for chemical resistance of anodic oxidation coatings on aluminium and its alloys using electromotive force apparatus, \$68.00

### METALLIC AND OTHER INORGANIC COATINGS (TC 107)

[ISO 1460:2020](#), Metallic coatings - Hot dip galvanized coatings on ferrous materials - Gravimetric determination of the mass per unit area, \$45.00

### MINING (TC 82)

[ISO 20305:2020](#), Mine closure and reclamation - Vocabulary, \$45.00

### NATURAL GAS (TC 193)

[ISO 23978:2020](#), Natural gas - Upstream area - Determination of composition by Laser Raman spectroscopy, \$103.00

### PAINTS AND VARNISHES (TC 35)

[ISO 8502-15:2020](#), Preparation of steel substrates before application of paints and related products - Tests for the assessment of surface cleanliness - Part 15: Extraction of soluble contaminants for analysis by acid extraction, \$68.00

### PLAIN BEARINGS (TC 123)

[ISO 3548-2:2020](#), Plain bearings - Thin-walled half bearings with or without flange - Part 2: Measurement of wall thickness and flange thickness, \$68.00

### PROSTHETICS AND ORTHOTICS (TC 168)

[ISO 8549-4:2020](#), Prosthetics and orthotics - Vocabulary - Part 4: Terms relating to limb amputation, \$45.00

**ROAD VEHICLES (TC 22)**

[ISO 5011:2020](#), Inlet air cleaning equipment for internal combustion engines and compressors - Performance testing, \$185.00

**SECURITY (TC 292)**

[ISO 22383:2020](#), Security and resilience - Authenticity, integrity and trust for products and documents - Guidelines for the selection and performance evaluation of authentication solutions for material goods, \$138.00

**SHIPS AND MARINE TECHNOLOGY (TC 8)**

[ISO 16273:2020](#), Ships and marine technology - Night vision equipment for high-speed craft - Operational and performance requirements, methods of testing and required test results, \$162.00

**SMALL TOOLS (TC 29)**

[ISO 9182-3:2020](#), Tools for pressing - Guide pillars - Part 3: Type B, end-locking pillars, \$45.00

[ISO 9182-4:2020](#), Tools for pressing - Guide pillars - Part 4: Type C, pillars with taper lead and bush, \$45.00

[ISO 9182-5:2020](#), Tools for pressing - Guide pillars - Part 5: Type D, end-locking pillars with flange, \$45.00

**SOLID MINERAL FUELS (TC 27)**

[ISO 1170:2020](#), Coal and coke - Calculation of analyses to different bases, \$68.00

**SUSTAINABLE DEVELOPMENT IN COMMUNITIES (TC 268)**

[ISO 37163:2020](#), Smart community infrastructures - Smart transportation for parking lot allocation in cities, \$68.00

**TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)**

[ISO 12140-1:2020](#), Agricultural trailers and trailed equipment - Drawbar jacks - Part 1: Design safety, test methods and acceptance criteria, \$103.00

[ISO 12140-2:2020](#), Agricultural trailers and trailed equipment - Drawbar jacks - Part 2: Application safety, test methods and acceptance criteria, \$45.00

**TRANSFUSION, INFUSION AND INJECTION EQUIPMENT FOR MEDICAL USE (TC 76)**

[ISO 719:2020](#), Glass - Hydrolytic resistance of glass grains at 98°C - Method of test and classification, \$68.00

[ISO 720:2020](#), Glass - Hydrolytic resistance of glass grains at 121°C - Method of test and classification, \$68.00

**WATER RE-USE (TC 282)**

[ISO 23056:2020](#), Water reuse in urban areas - Guidelines for decentralized/onsite water reuse system - Design principles of a decentralized/onsite system, \$103.00

**ISO Technical Reports****INDUSTRIAL FANS (TC 117)**

[ISO/TR 16219:2020](#), Fans - System effects and system effect factors, \$232.00

**ISO Technical Specifications****GRAPHIC TECHNOLOGY (TC 130)**

[ISO/TS 19303-1:2020](#), Graphic technology - Guidelines for schema writers - Part 1: Packaging printing, \$162.00

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

[ISO/IEC 23836:2020](#), Information technology - User interfaces - Universal interface for human language selection, \$45.00

[ISO/IEC 19785-1:2020](#), Information technology - Common Biometric Exchange Formats Framework - Part 1: Data element specification, \$185.00

[ISO/IEC 19785-3:2020](#), Information technology - Common Biometric Exchange Formats Framework - Part 3: Patron format specifications, \$232.00

[ISO/IEC 23009-2:2020](#), Information technology - Dynamic adaptive streaming over HTTP (DASH) - Part 2: Conformance and reference software, \$232.00

[ISO/IEC 9995-12:2020](#), Information technology - Keyboard layouts for text and office systems - Part 12: Keyboard group selection, \$68.00

[ISO/IEC TS 23078-1:2020](#), Information technology - Specification of DRM technology for digital publications - Part 1: Overview of copyright protection technologies in use in the publishing industry, \$45.00

[ISO/IEC TS 23078-2:2020](#), Information technology - Specification of DRM technology for digital publications - Part 2: User key-based protection, \$185.00

## IEC Standards

### MAGNETIC ALLOYS AND STEELS (TC 68)

[IEC 60404-8-7 Ed. 5.0 en:2020](#), Magnetic materials - Part 8-7: Specifications for individual materials - Cold-rolled grain-oriented electrical steel strip and sheet delivered in the fully-processed state, \$164.00

[S+ IEC 60404-8-7 Ed. 5.0 en:2020 \(Redline version\)](#), Magnetic materials - Part 8-7: Specifications for individual materials - Cold-rolled grain-oriented electrical steel strip and sheet delivered in the fully-processed state, \$213.00

### OTHER

[CISPR 14-1 Ed. 7.0 en:2020](#), Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission, \$375.00

### (TC 32)

[IEC 60127-2 Amd.1 Ed. 3.0 b:2020](#), Amendment 1 - Miniature fuses - Part 2: Cartridge fuse-links, \$47.00

[IEC 60127-2 Ed. 3.1 b:2020](#), Miniature fuses - Part 2: Cartridge fuse-links, \$410.00

### (TC 47)

[IEC 60747-16-5 Amd.1 Ed. 1.0 b:2020](#), Amendment 1 - Semiconductor devices - Part 16-5: Microwave integrated circuits - Oscillators, \$23.00

[IEC 60747-16-5 Ed. 1.1 b:2020](#), Semiconductor devices - Part 16-5: Microwave integrated circuits - Oscillators, \$410.00

[IEC 60747-16-5 Amd.1 Ed. 1.0 en cor.1:2020](#), Corrigendum 1 - Semiconductor devices - Part 16-5: Microwave integrated circuits - Oscillators, \$0.00

### (TC 77)

[IEC 61000-4-3 Ed. 4.0 en:2020](#), Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test, \$375.00

### (TC 86)

[IEC 61290-1-1 Ed. 4.0 b:2020](#), Optical amplifiers - Test methods - Part 1-1: Power and gain parameters - Optical spectrum analyzer method, \$117.00

[S+ IEC 61290-1-1 Ed. 4.0 en:2020 \(Redline version\)](#), Optical amplifiers - Test methods - Part 1-1: Power and gain parameters - Optical spectrum analyzer method, \$152.00

## IEC Technical Reports

### (TC 86)

[IEC/TR 62362 Ed. 2.0 en:2020](#), Selection of optical fibre cable specifications relative to mechanical, ingress, climatic or electromagnetic characteristics - Guidance, \$117.00

[IEC/TR 62572-4 Ed. 2.0 en:2020](#), Fibre optic active components and devices - Reliability standards - Part 4: Guidelines for optical connector end-face cleaning methods for receptacle style optical transceivers, \$164.00

## ISO Technical Specifications

### (TC 86)

[S+ IEC/TR 62572-4 Ed. 2.0 en:2020 \(Redline version\)](#), Fibre optic active components and devices - Reliability standards - Part 4: Guidelines for optical connector end-face cleaning methods for receptacle style optical transceivers, \$213.00

[S+ IEC/TR 62362 Ed. 2.0 en:2020 \(Redline version\)](#), Selection of optical fibre cable specifications relative to mechanical, ingress, climatic or electromagnetic characteristics - Guidance, \$152.00

# 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](mailto:usatbtep@nist.gov) or [notifyus@nist.gov](mailto:notifyus@nist.gov).



# Information Concerning

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## 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](mailto: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](http://www.scte.org) or by e-mail from [standards@scte.org](mailto:standards@scte.org).

### Final Actions Correction

#### ANSI/ASTM F3288/F3288M-2020

The September 11, 2020 Standards Action Final Action notice for ANSI/ASTM F3288-2020 is now designated as ANSI/ASTM F3288/F3288M-2020.

## ANSI Accredited Standards Developers

### Approval of Reaccreditation

#### Portable Sanitation Association International (PSAI)

The reaccreditation of the Portable Sanitation Association International (PSAI), an ANSI Member and Accredited Standards Developer, has been approved at the direction of ANSI's Executive Standards Council under its recently revised operating procedures for documenting consensus on PSAI-sponsored American National Standards, effective September 11, 2020. For additional information, please contact: Ms. Karleen Kos, Executive Director, Portable Sanitation Association International, 2626 E. 82nd Street, Suite 175, Bloomington, IN 55425; phone: 952.854.8300; email: [karleenk@psai.org](mailto:karleenk@psai.org).

## Meeting Notices

### ASC R15.08, Industrial Mobile Robot Safety

#### Meetings Schedule

**ANSI-Accredited Standards Committee:** R15.08, Industrial Mobile Robot Safety

**Meeting Format & Location:** Remote via GoToMeeting

**Purpose:** Series of five 2-hour remote meetings to plan and begin future work on R15.08, Part 2 and 3. Note: The last meeting is just in case the work is not completed during the first four meetings; it will be cancelled if not needed.

#### Day/Date/Time:

- #1 Monday Oct 12, 2020, 2:30 – 4:30 EDT / 11:30 – 1:30 PDT
- #2 Wednesday Oct 14, 2020, 2:30 – 4:30 EDT / 11:30 – 1:30 PDT
- #3 Monday Oct 26, 2020, 2:30 – 4:30 EDT / 11:30 – 1:30 PDT
- #4 Tuesday Oct 27, 2020, 2:30 – 4:30 EDT / 11:30 – 1:30 PDT
- #5 (Optional/Overflow) Wednesday Oct 28, 2020, 2:30 – 4:30 EDT / 11:30 – 1:30 PDT

**For More Information:** Contact Carole Franklin, [cfranklin@robotics.org](mailto:cfranklin@robotics.org).

### American Society of Safety Professionals (ASSP) – ANSI Z359 Committee

The American Society of Safety Professionals (ASSP) serves as the secretariat of the ANSI Z359 Committee for Fall Arrest/Protection. The next meeting of the Z359 Committee will be held virtually from October 20 – 22, 2020. Those interested in participating can contact ASSP for additional information at [OMunteanu@assp.org](mailto:OMunteanu@assp.org).



# Information Concerning

## International Organization for Standardization (ISO)

### Call for International (ISO) Secretariat

### ISO/TC 96/SC 8 – Jib Cranes

### Comment Deadline: September 25, 2020

Currently, the U.S. holds a leadership position as Secretariat of ISO/TC 96/SC 8 – *Jib cranes*. ANSI has delegated the responsibility for the administration of the Secretariat for ISO/TC 96/SC 8 to the National Commission for the Certification of Crane Operators (NCCCO). NCCCO has advised ANSI of its intent to relinquish its role as delegated Secretariat for this committee.

ISO/TC 96/SC 8 operates under the following scope:

*Standardization of terminology, load rating, testing, safety, and general design principles of equipment and components used in the construction, maintenance, inspection and safe operation of jib cranes.*

ANSI is seeking organizations in the U.S. that may be interested in assuming the role of delegated Secretariat for ISO/TC 96/SC 8. Alternatively, ANSI may be assigned the responsibility for administering an ISO Secretariat. Any request that ANSI accept the direct administration of an ISO Secretariat shall demonstrate that:

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

If no U.S. organization steps forward to assume the ISO/TC 96/SC 8 Secretariat, or if there is insufficient support for ANSI to assume direct administration of this activity by September 25, then ANSI will inform the ISO Central Secretariat that the U.S. will relinquish its leadership of the committee. This will allow ISO to solicit offers from other countries interested in assuming the Secretariat role.

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

# Information Concerning

## INCITS/Internet of Things and Related Technologies TC Seeks Experts

INCITS/IoT, the US Technical Advisory Group to ISO/IEC JTC 1/SC 41 on the Internet of Things and Related Technologies, represents US interests in the development of international standards. The committee is actively working on foundational standards, interoperability, applications and use cases for the Internet of Things (IoT) and related technologies. These include applications in: industrial IoT, wearables, Smart Cities, utilities & Smart Grid, agriculture, societal and human factors in IoT based services, Integration of IoT and distributed ledger technologies (blockchain), and other vertical-specific applications.

The scope of the Internet of Things is vast, and its applications transcend economic sectors and can be integrated into seemingly endless end user markets, including home-based consumers, manufacturing processes, and industry.

- The combined IoT market is comprised not only of devices, such as soil temperature/moisture sensors, actuating stepper motors in manufacturing equipment, webcams and home voice controllers, but also a variety of software solutions, including cloud-based infrastructure, communications platforms, analytics platforms, and Operating Systems. Trustworthiness within IoT systems therefore can be incredibly complex, requiring the protection of end users' privacy and data by protecting the device and accompanying communications networks, cloud providers, data aggregators and analytics platforms, and any number of other related applications that are required for device functionality. Risk, therefore, must also be assessed across the IoT value chain, in ways that differ from traditional IT devices.
- Unlike conventional IT systems, many IoT systems can interact with devices and modify device properties in the physical world in response to remote commands, such as in the case of a smart thermostat or an insulin pump. In the latter example, the risk of a ransomware or malware attack may have significant consequences on human health.
- While there is no one internationally accepted definition of IoT, many definitions have arisen within economies, standards development bodies, think tanks, and industry associations and may have diverging definitions, potentially changing the scope of trustworthiness across the IoT value chain because of possible inconsistencies.
- A key activity is to address IoT Trustworthiness concerns. IoT devices can be used by unauthorized third parties as access points to form networks of Internet-connected externally controlled devices, or "botnets." Devices can be compromised and infected with malicious software. According to two Bain Consulting studies on barriers to uptake of IoT solutions, respondents listed security risks as their top concern.

- The responsibility for securing these systems currently rests with IoT device manufacturers, systems integrators, service providers, and users that could control distinct parts of the IoT system from within varying legal jurisdictions. For example, the device could be manufactured in Asia and used in the United States, have its data transferred through a communications network to a backend server in Australia, to eventually be analyzed in Chile. In a globalized, complex IoT system, each component must be independently secured by their respective, responsible party. In the absence of specific, globally relevant IoT security control guidance and standards that could align IoT trustworthiness approaches across the value chain, attack surfaces and trustworthiness vulnerabilities may outpace current manufacturer security practices. Given the scope of IoT systems and the complexity of securing each component, sometimes across borders, existing global standards pertaining to trustworthiness risk management in conventional IT may not adequately address the unique challenges of IoT systems.

Members of INCITS/IoT have the unique opportunity to make their voices heard on the development of standards and uses cases on IoT and related technologies. This group also provides the opportunity to collaborate with experienced peers while serving the broader community of service organizations. Join the current INCITS/IoT members, Avail Medsystems, Dell, Discover Card, DoD, Evanhoe & Associates, Farance Inc, Hitachi Vantara, Intel, ITRI, John Deere, Lockheed Martin, Microsoft, Oracle, NIST, NSA, VMware and WSN Technologies, in this work.

Membership provides the opportunity for international leadership roles for project leader/editor, Convenors.

Members participate in virtual meetings and one to two face-to-face meetings per year. They are encouraged to contribute in the development of international standards related to IoT. All members are also eligible to attend national and international meetings; the next two INCITS/IoT meetings are scheduled for September 14 and October 9, 2020. To learn more about membership in INCITS/IoT, visit <http://www.incits.org/participation/membership-info> or contact Lynn Barra at [Lbarra@itic.org](mailto:Lbarra@itic.org).



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- *ANSI Essential Requirements: Due process requirements for American National Standards* (always current edition): [www.ansi.org/essentialrequirements](http://www.ansi.org/essentialrequirements)
- ANSI Standards Action (weekly public review announcements of proposed ANS and standards developer accreditation applications, listing of recently approved ANS, and proposed revisions to ANS-related procedures): [www.ansi.org/standardsaction](http://www.ansi.org/standardsaction)
- Accreditation information – for potential developers of American National Standards (ANS): [www.ansi.org/sdoaccreditation](http://www.ansi.org/sdoaccreditation)
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- Lists of ANSI-Accredited Standards Developers (ASDs), Proposed ANS and Approved ANS: [www.ansi.org/asd](http://www.ansi.org/asd)
- American National Standards Key Steps: [www.ansi.org/anskeysteps](http://www.ansi.org/anskeysteps)
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- Information about standards Incorporated by Reference (IBR): [www.ansi.org/ibr](http://www.ansi.org/ibr)
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**BSR/ASABE/ICC 802-202x Landscape Irrigation Sprinkler and Emitter Standard**

See the entire standard here:

[https://shop.iccsafe.org/standards.html?p=5&product\\_list\\_order=name&publisher=ICC](https://shop.iccsafe.org/standards.html?p=5&product_list_order=name&publisher=ICC)

**EMISSION DEVICE.** An irrigation system component that is used to dispense irrigation water to the landscape at a specific rate.

**Sprinkler.** An emission device consisting of a sprinkler body with one or more orifices to convert irrigation water pressure to high velocity water discharge through the air, discharging a minimum of 0.5 gallon per minute (1.9 liters per minute) at the largest area of coverage available for the nozzle series when operated at 30 psi (206.8 kPa) or more with a full-circle pattern.

**Spray.** A sprinkler ~~with a spray sprinkler body, that continuously applies water in a pattern to a defined landscape area.~~

**Rotor.** A sprinkler ~~with a rotor sprinkler body, that applies water in a pattern by means of one or more rotating streams to a defined landscape area.~~

**SPRINKLER BODY.** The exterior case or shell of a sprinkler incorporating a means of connection to the piping system, designed to convey water to a nozzle or orifice.

**Rotor sprinkler body.** A sprinkler body that: contains components to drive the rotation of the nozzle or orifice during operation; and lacks an integral control valve.

**Spray sprinkler body.** A sprinkler body that: does not contain components to drive the rotation of the nozzle or orifice during operation; and lacks an integral control valve.

**Valve-in-head sprinkler body.** A sprinkler body that contains an integral control valve.

**VALVE-IN-HEAD SPRINKLER.** A sprinkler ~~that includes a valve-in-head sprinkler body, with an integral control valve intended to be operated from a remote location.~~

## **APPENDIX A**

### **SPRAY SPRINKLER BODY PERFORMANCE TEST METHOD**

**A101.1 Test procedure.** Spray sprinkler bodies shall be tested in accordance with this Appendix.

**A101.1.1 Product sampling and selection.** Products shall be sampled and selected for testing in accordance with Section 303.1.1 of this standard.

**A101.1.2 Testing of selection.** Each selected test sample shall be tested in accordance with the methodology outlined in this Appendix.

**A101.1.3 Test conditions.** Test conditions shall be in accordance with Section 303.1.4 of this standard.

**A101.1.4 Sample conditioning.** Test samples shall be conditioned in accordance with Section 303.1.2 of this standard.

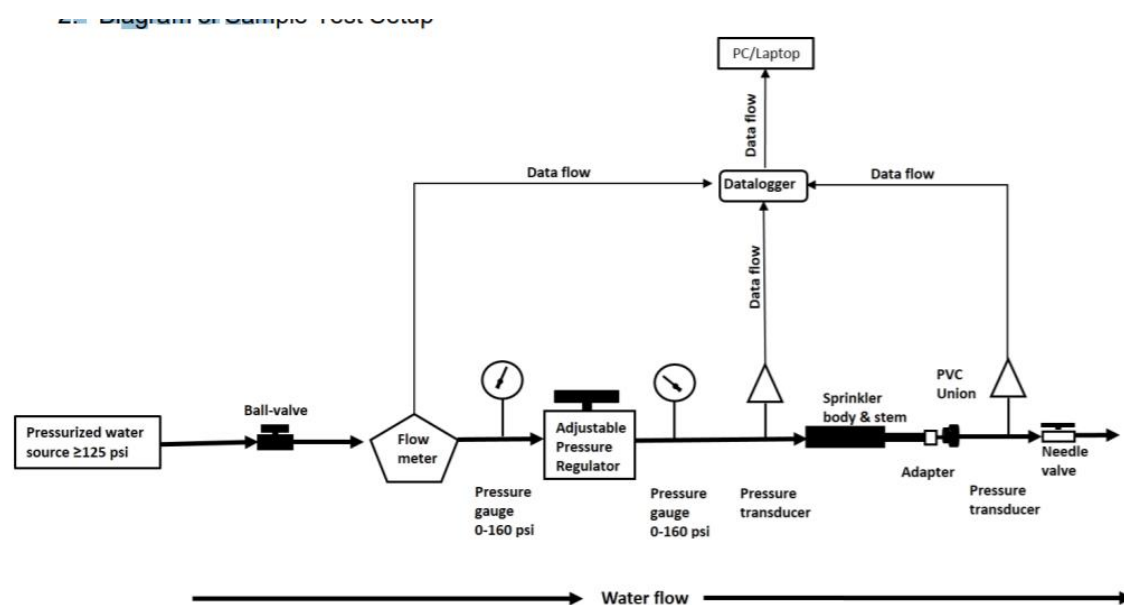
**A101.2 Performance test.** Calibration and performance testing of the sample shall be in accordance with Sections A101.2.1 through A101.2.4

**A101.2.1 Initial calibration.** The test sample shall be initially calibrated so that the flow is 1.5 +/- 0.1 gpm (5.7 +/- 0.38 lpm) at the regulation pressure specified by the manufacturer, measured at the test sample inlet. The flow rate shall be controlled by a needle valve. Once the flow rate is established at the regulation pressure, there shall be no further adjustment of the needle valve for that test sample.

**A101.2.2 Testing at four pressure levels.** The test sample shall be tested at four inlet pressures as follows:

1. The initial calibration point regulation pressure of Section A101.2.1.
2. 10.0 psi (68.9 kPa) greater than the initial calibration point regulation pressure.
3. 60.0 psi (414 kPa)
4. 70.0 psi (483 kPa) or the manufacturer's specified maximum operating pressure, whichever is greater.

**A101.2.3 Inlet pressure measurement location.** Inlet pressure shall be measured at the inlet to the sprinkler body as shown in Figure A101.2.3.



**FIGURE A101.2.3**  
**Equipment Setup for Pressure Regulation Test**

**A101.2.3.1 Pressure stabilization.** For all inlet pressure test points, the inlet pressure shall be adjusted to within 1.0 psi (6.9 kPa) of the required test pressure and allowed to stabilize. Stabilization shall be considered achieved when three consecutive pressure readings are within +/- 1.0 psi (6.9 kPa) of the required test pressure.

**A101.2.3.2 Pressure reset.** After testing the sample at each pressure test point, the inlet pressure shall be reduced to 0.0 psi (0.0 kPa) for not less than 2 minutes prior to setting the test pressure for a different test pressure.

**A101.2.4 Outlet pressure measurement location.** Outlet pressure shall be measured downstream of the integral pressure regulation device and as close as practical to the needle valve shown in Figure A101.2.3.

**A101.3 Data logging.** Pressures and flow rates for the sample under test shall be measured and recorded in accordance with Sections A101.3.1 through A101.3.2, and logged at intervals of not greater than 30 seconds. The data collection period at each test pressure shall be not less than 3 minutes and not greater than 5 minutes.

**A101.3.1 Outlet pressure logging.** The outlet pressure shall be measured and recorded only for the initial calibration required by Section A101.2.1.

**A101.3.2 Inlet pressure logging.** The inlet pressure shall be measured and recorded at each of the four inlet pressures indicated in Section A101.2.2.

**A101.3.3 Flow rate logging.** The flow rate shall be measured and recorded at each of the four inlet pressures indicated in Section A101.2.2.

**A101.4 Test report.** For each tested sample, a test report shall be created from the data logging. For each test pressure, the report shall indicate the average, minimum, and maximum of pressure values and flow rate values. The test report shall indicate the duration of time at each test pressure.

**A101.5 Test equipment.** The equipment required for testing shall be as follows:

1. Two pressure transducers capable of measuring pressure from 0 to at least 145 psi (1 000 kPa) with at least 0.1 psi (6.9 kPa) resolution. Accuracy, including linearity, hysteresis, and repeatability, shall be within 0.3% of full-scale output.

2. Two liquid-filled pressure gauges having a range of 0-160 psi (0 - 1e<sup>9</sup> kPa) and a ¼ inch ( 76.2 mm) MNPT bottom connection.

3. Flow meter capable of resolving at least 0.05 gpm (0.189 lpm) within a range of at least 1.5 to 15 gpm (5.7 to 56.8 lpm) and accuracy of 100 percent +/- 1.5 percent for the range of flow measured. The flow meter shall be conditioned in accordance with manufacturer's instructions and shall be installed in accordance with ASME PTC 19.5.

4. Data logger capable of recording the pressure transducer and flow meter outputs.
5. Piping lengths as needed to conform to the manufacturer's recommendations for the installation of the pressure transducers and the flow meter.
6. A ¼ inch NPT (6.4 mm) needle-type steel metering valve having ¼ inch FNPT (6.4 mm) connections, a maximum flow range of 5 gpm (18.9 lpm) and maximum pressure of 5000 psi (34 474 kPa).
7. An adapter of not less than 0.6 inch (15.24 mm) inside diameter, including attachments, to minimize flow disturbance and connect the needle valve to the sprinkler body stem.
8. Test samples supplied with straight, smooth piping that is free of fittings, except for compliant pressure taps. The length of the supplied piping shall be not less than 20 times the inlet diameter of the sprinkler body to be tested. Supply piping shall be ½" (12.7 mm) nominal diameter schedule 40 polyvinyl chloride. All pressure taps shall comply with ASME PTC 19.2.

**A101.6 Reference standards.** The following standards are referenced in this Appendix:

**ASME**

PTC 19.2 – 2010      Performance Test Code

PTC 19.5 – 2004      Flow Measurement





**BSR/ASHRAE/ASHE Addendum r  
to ANSI/ASHRAE/ASHE Standard 170-2017**

**Public Review Draft**

**Proposed Addendum r to  
Standard 170-2017, Ventilation of  
Health Care Facilities**

**First Public Review (August 2020)  
(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](http://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](http://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](http://www.ashrae.org).

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

BSR/ASHRAE/ASHE Addendum r to ANSI/ASHRAE/ASHE Standard 170-2017, *Ventilation of Health Care Facilities*

First Public Review Draft

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## FOREWORD

*In reviewing Addendum a, it was noticed the filter requirements listed for nursing homes are not consistent with the informative appendix table for recommended filter efficiencies by space type. Resident rooms are noted as requiring MERV-14 in the informative appendix as “Resident rooms in a skilled nursing area”, however other resident spaces were assigned MERV-8 under the category of “Any room, inpatient or outpatient, where a patient stays less than 6 hours including waiting rooms”. This is incorrect in that 1: residents are not patients; and 2: residents frequently spend amounts of time exceeding 6 hours outside of their room in these areas of the facility. This proposed addendum increases filtration in nursing homes to MERV-14. Prior to Addendum a, these spaces required a MERV-13 filter.*

*Section 6.4(i) is revised to not include Table 9.1 because in Table 9.1 the only spaces that do not permit room recirculation are 100% exhaust spaces. The prohibition on room recirculation units within these spaces has less to do with concern of access to room recirculation equipment and that equipment serving as a future source of contaminants and more to do with the contamination within the space itself. The installation of filters downstream of all wet air-cooling coils and the supply fan is not justified as a minimum requirement for the 100% exhaust spaces.*

*[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~striketrough~~ (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 r to 170-2017

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**Revise Section 6.4 as shown below. Refer to Addendum a to 170-2017 changes to Section 6.4.**

**6.4 Filtration.** Filtration of mechanically supplied air shall be provided as follows:

- a. Particulate matter filters, minimum MERV-8, shall be provided upstream of the first heat exchanger surface of any air-conditioning system that combines return air from multiple rooms or introduces outdoor air.
- b. Outdoor air shall be filtered in accordance with Tables 7.1, 8.1, or 9.1.
- c. Air supplied from equipment serving multiple or different spaces shall be filtered in accordance with Tables 7.1, 8.1, or 9.1.
- d. Air recirculated within a room shall be filtered in accordance with Tables 7.1, 8.1, or 9.1 or section 7.1.a.5, 8.1.a.5, or 9.1.a.5.
- e. The design shall include all necessary provisions to prevent moisture accumulating on filters located downstream of cooling coils and humidifiers.
- f. Minimum filter requirements shall meet the equivalent MERV rating when tested in accordance with Appendix J of ANSI/ASHRAE Standard 52.2.

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- g. Any HEPA filter or filter MERV-14 or higher shall have sealing interface surfaces.
- h. High Efficiency Particulate Air (HEPA) filters are those filters that remove at least 99.97% of 0.3 micron sized particles at the rated flow in accordance with the testing methods of IEST RP CC001.3 (IEST [2005] in informative Appendix B).
- i. For spaces that do not permit air recirculated by means of room units and have a minimum filter efficiency of MERV-14 or HEPA in accordance with table 7.1, or 8.1, ~~or~~ 9.1, the minimum filter requirement listed in Table 7.1, or 8.1, ~~or~~ 9.1 shall be installed downstream of all wet air cooling coils and the supply fan.

***Revise Table 9.1 as shown below. The remainder of Table 9.1 is unchanged. Refer to Addendum a to 170-2017 changes to Table 9.1.***

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**TABLE 9.1 Design Parameters for Residential Health, Care, and Support-Specific Spaces**

Function of Space	Pressure Relationship to Adjacent Areas (d)	Minimum Outdoor (ACH)	Minimum Total (ACH)	All Room Air Exhausted Directly to Outdoors (f)	Air Recirculated by Means of Room Units (a)	Minimum Filter Efficiencies (i)	Design Relative Humidity (g), (%)	Design Temperature (h), °F/°C
<b>RESIDENTIAL HEALTH</b>								
<b>NURSING HOMES</b>								
All room (b)	Negative	2	12	Yes	No	MERV-14	max 60	70–75/21–24
All anteroom (b)	Negative	NR	10	Yes	No	MERV- <del>8</del> 14	NR	NR
Resident room	NR	2	2	NR	NR	MERV-14	NR	70–75/21–24
Resident living/activity/dining	NR	4	4	NR	NR	MERV- <del>8</del> 14	NR	70–75/21–24
Resident corridor	NR	NR	4	NR	NR	MERV- <del>8</del> 14	NR	NR
Physical therapy	Negative	2	6	NR	NR	MERV- <del>8</del> 14	NR	70–75/21–24
Occupational therapy	NR	2	6	NR	NR	MERV- <del>8</del> 14	NR	70–75/21–24
Toilet/Bathing room	Negative	NR	10	Yes	No	MERV- <del>8</del> 14	NR	70–75/21–24

NR=No requirement



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## FOREWORD

*The committee has reviewed and identified that the standard could better address the varied conditions that arise in planning, designing and implementing airborne infectious isolation rooms, an especially relevant issue as we navigate the many challenges of a world-altering pandemic event. The proposed changes specifically ensure that the standard provides flexibility in treating the exhaust discharge arrangements from these spaces, in alignment with CDC guidelines on this topic.*

*[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~striketrough~~ (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 s to 170-2017

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***Revise Section 6.3.2.2 as shown below. The remainder of Section 6.3.2 is unchanged.***

### 6.3.2 Exhaust Discharges

**6.3.2.1 General.** Exhaust discharge outlets that discharge air from AII rooms, associated anterooms, and associated toilet rooms, bronchoscopy and sputum collection and pentamidine administration rooms, emergency department public waiting areas, nuclear medicine hot labs, radiology waiting rooms programmed to hold patients who are waiting for chest x-rays for diagnosis of respiratory disease, pharmacy hazardous-drug exhausted enclosures, and laboratory work area chemical fume hoods shall

- a. be designed so that all ductwork within the building is under negative pressure;
 

**Exception to 6.3.2.1(a):** Ductwork located within mechanical equipment rooms. Positive-pressure exhaust ductwork located within mechanical equipment rooms shall be sealed in accordance with SMACNA duct leakage Seal Class A<sup>2</sup>.
- b. be located such that they reduce the potential for the recirculation of exhausted air back into the building.

### 6.3.2.2 Additional Requirements

- a. Exhaust discharge outlets from AII rooms, bronchoscopy and sputum collection exhaust, pharmacy hazardous-drug exhausted enclosures, and laboratory work area chemical fume hoods shall additionally be arranged to discharge to the atmosphere in a vertical direction (with no rain cap or other device to impede the vertical momentum) and at least 10 ft (3 m) above the adjoining roof level.

**Exception to 6.3.2.2(a):** All room exhaust which first passes through a HEPA filter.

b. [...]

**Revise Section 7.2 as shown below.**

## 7.2 Additional Room-Specific Requirements

**7.2.1 Airborne Infection Isolation (AII) Rooms.** Ventilation for AII rooms shall meet the following requirements whenever an infectious patient occupies the room:

- a. Each AII room shall comply with requirements of Tables 6.4, 6.7.2, and 7.1. AII rooms shall have a permanently installed device and/or mechanism to constantly monitor the differential air pressure between the room (when occupied by patients with a suspected air-borne infectious disease) and the corridor, whether or not there is an anteroom. A local visual means shall be provided to indicate whenever negative differential pressure is not maintained.

~~b. All air from the AII room shall be exhausted directly to the outdoors.~~

~~**Exception to 7.2.1(b):** AII rooms that are retrofitted from standard patient rooms from which it is impractical to exhaust directly outdoors may be provided with recirculated air from the room's exhaust on the condition that the air first passes through a HEPA filter.~~

- b. All exhaust air from the AII rooms, associated anterooms, and associated toilet rooms shall be discharged by one of the following methods:
  - i. Discharged directly to the outdoors without mixing with exhaust air from any other non-AII room or general exhaust system.
  - ii. Discharged into the general exhaust stream provided the AII exhaust air first passes through a HEPA filter. The HEPA filter, including ductwork and fans, shall be under negative pressure (suction side) for any supplemental fan used to account for filter pressure drop and all exhaust ductwork shall be kept under negative pressure in accordance with 6.3.2.1.

*Informational note: if fans are used/needed due to static pressure drop of HEPA filtration, consideration should be given to the fan operation being interlocked with the general exhaust system fan. Alarms for filter loading and fan failure should be considered.*

- ~~e. All exhaust air from the AII rooms, associated anterooms, and associated toilet rooms shall be discharged directly to the outdoors without mixing with exhaust air from any other non-AII room or exhaust system.~~
- d. Exhaust air grilles or registers in the patient room shall be located directly above the patient bed, on the ceiling or on the wall near the head of the bed, unless it can be demonstrated that such a location is not practical.
- e. The room envelope shall be sealed to provide a minimum differential pressure of 0.01 in. of water (2.5 Pa) across the envelope.
- f. Differential pressure between AII rooms and adjacent spaces that are not AII rooms shall be a minimum of -0.01 in. of water (-2.5 Pa). Spaces such as the toilet room and the ante- room (if present) that are directly associated with the AII room and open directly into the AII room are not required to be designed with a minimum pressure difference from the AII room but are still required to maintain the pressure relationships to adjacent areas specified in Table 7.1.

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First Public Review Draft

- g. When an anteroom is provided, the pressure relationships shall be as follows: (1) the AII room shall be at a negative pressure with respect to the anteroom, and (2) the anteroom shall be at a negative pressure with respect to the corridor.

***Revise footnote u under Table 7.1 as shown below. The remainder of Table 7.1 is unchanged.***

- u. The AII room described in this standard shall be used for isolating the airborne spread of infectious diseases, such as measles, varicella, or tuberculosis. Supplemental recirculating devices using HEPA filters shall be permitted to recirculate air within the AII room to increase the equivalent room air exchanges; however, the minimum outdoor air changes of Table 7.1 are still required. ~~All rooms that are retrofitted from standard patient rooms from which it is impractical to exhaust directly outdoors may be recirculated with air from the AII room, provided that air first passes through a HEPA filter.~~ When the AII room is not used for airborne infection isolation, the pressure relationship to adjacent areas, when measured with the door closed, shall remain unchanged, and the minimum total air change rate shall be 6 ach.



## PROPOSED CHANGES TO PR1 DRAFTS OF ICC/SRCC SOLAR STANDARDS

The following draft changes to the Public Review 1 versions of the ICC 901/SRCC 100 and ICC 900/SRCC 300 standards were developed by the IS-STSC in response to public comments received on the documents. Public comments were accepted between 6/5/2020 and 8/3/2020 and were formally addressed by the IS-STSC during a meeting conducted on 9/2/2020. See the associated Meeting Minutes and Committee Action Report on the [project webpage](#).

### PROPOSED CHANGES TO ICC 901/SRCC 100 PR1 DRAFT (6/26/2020 version)

**303.2.1 Photovoltaic modules.** Photovoltaic modules incorporated as part of photovoltaic thermal hybrid collectors or fully assembled PVT collector shall be listed and labeled to UL 1703 or UL 61730.

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**502.1 General.** Solar thermal collectors shall include an indelible label containing information as established in this section at a minimum. Information shall be provided in a clearly readable size and format. Labels shall be permanently affixed to collectors in a location that will be visible after the collector is installed, except as described in 502.1.2.

**502.1.2 Site-Built Collectors.** Where collectors are assembled at the location of installation, a permanent label shall be provided ~~applied to the collector~~ in a location visible after the collector is installed.

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**503.1 General.** ~~One or more~~ A manuals shall be provided with each *solar thermal collector* in hardcopy or digital copy via download link.

### PROPOSED CHANGES TO ICC 900/SRCC 300 PR1 DRAFT (6/5/2020 version)

**TABLE 301.8.2  
POTABLE WATER PIPE**

<b>MATERIAL</b>	<b>STANDARD</b>
Brass pipe	ASTM B 43
Chlorinated polyvinyl chloride (CPVC) plastic	ASTM D 2846; ASTM F 441; ASTM F 442; CSA

Copper or copper-alloy pipe	ASTM B 42; ASTM B 302
Copper or copper-alloy tubing (Type K, WK,	ASTM B 75; ASTM B 88; ASTM B 251; ASTM B
Cross-linked polyethylene (PEX) plastic	ASTM F 876; ASTM F 877; CSA B137.5
Cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX) pipe	ASTM F 1281; ASTM F 2262; CSA B137.10
Cross-linked polyethylene/aluminum/high-density polyethylene (PEX-AL-HDPE)	ASTM F 1986
Ductile iron pipe	AWWA C151/A21.51; AWWA C115/A21.15
Galvanized steel pipe	ASTM A 53
Polyethylene/aluminum/polyethylene (PE-	ASTM F 1282
Polyethylene of raised temperature (PE-RT)	ASTM F 2769
Polypropylene (PP) plastic pipe or tubing	ASTM F 2389; CSA B137.11
Polyvinyl chloride (PVC)	ASTM D1785; ASTM D2241
Stainless steel pipe (Type 304/304L)	ASTM A 312; ASTM A 778
Stainless steel pipe (Type 316/316L)	ASTM A 312; ASTM A 778

**TABLE 301.8.3  
NON-POTABLE WATER PIPE**

<b>MATERIAL</b>	<b>STANDARD</b>
Acrylonitrile butadiene styrene (ABS) plastic	ASTM D 1527; ASTM D 2282
Brass pipe	ASTM B 43
Brass tubing	ASTM B 135
Copper or copper-alloy pipe	ASTM B 42; ASTM B 302
Copper or copper-alloy tube (Type K, L or M)	ASTM B 75; ASTM B 88; ASTM B251
Chlorinated polyvinyl chloride (CPVC) plastic pipe	ASTM D 2846; ASTM F 441; ASTM F 442
Cross-linked polyethylene/aluminum/cross-linked polyethylene (PEX-AL-PEX) pressure	ASTM F 1281; CSA-B-137.10
Cross-linked polyethylene (PEX) tubing	ASTM F 876; ASTM F 877
Ductile iron pipe	AWWA C151/A21.51; AWWA C115/A21.15
Flexible stainless steel pipe	ASME A112.18.6/CSA B125.6; ISO 10380
Hoses containing rubber	ASTM D750; ASTM D471; ASTM D1149
Lead pipe	FS WW P-325B
Polybutylene (PB) plastic pipe and tubing	ASTM D 3309
Polyethylene/aluminum/polyethylene (PE-AL-PE) pressure pipe	ASTM F 1282; CSA B137.9
Polyethylene (PE) pipe, tubing and fittings (for ground source heat pump loop systems)	ASTM D 2513; ASTM D 3035; ASTM D 2683; ASTM F 1055; ASTM D 2837; ASTM D 3350; ASTM D 1693
Polypropylene (PP) plastic pipe	ASTM F 2389

Polyvinyl chloride (PVC) plastic pipe	ASTM D 1785; ASTM D 2241
Raised temperature polyethylene (PE-RT)	ASTM F 2623; ASTM F 2769
Steel pipe	ASTM A 53; ASTM A 106
Steel tubing	ASTM A 254
Stainless steel pipe (Type 304/304L)	ASTM A 312; ASTM A 778
Stainless steel pipe (Type 316/316L)	ASTM A 312; ASTM A 778

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**305.1.19 Lightning protection.** ~~Lightning protection shall be provided for collectors in accordance with NFPA 780.~~

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Revision to NSF/ANSI 4-2019  
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NSF/ANSI Standard  
 for Food Equipment –

## Commercial Cooking, Rethermalization, and Powered Hot Food Holding and Transportation Equipment

### N-3.8 Culture of *E. coli*

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#### N-3.8.2 Challenge culture preparation

- a) 1 mL of the stock culture shall be transferred to a TSA slant prepared in a French bottle with a surface approximately 75 cm<sup>2</sup> in area. The media shall then be incubated at 36 ± 1 °C (97 ± 1 °F) for 24 h.
- b) Cells shall be washed from agar surface with 5 mL of SBDW. Agar surface shall be scraped with sterile disposable loops.
- e) ~~0.5 mL of *E. coli* culture suspension shall be pipetted into 4 L of SBDW. This will give a density of 1 to 5 × 10<sup>6</sup> colony forming units (CFU) per mL. The density of *E. coli* culture suspension must be between 1 and 5 × 10<sup>6</sup> colony forming units (CFU) per mL.~~

NSF/ANSI Standard  
 for Food Equipment –

## Dispensing Freezers

### N-1.8 Culture of *E. coli*

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#### N-1.8.2 Challenge culture preparation

- a) 1 mL of the stock culture shall be transferred to a TSA slant prepared in a French bottle with a surface approximately 75 cm<sup>2</sup> in area. The media shall then be incubated at 36 ± 1 °C (97 ± 1 °F) for 24 h.

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- b) Cells shall be washed from agar surface with 5 mL of SBDW. Agar surface shall be scraped with sterile disposable loops.
- c) ~~0.5 mL of *E. coli* culture suspension shall be pipetted into 4 L of SBDW. This will give a density of 1 to 5 × 10<sup>6</sup> colony forming units (CFU) per mL. The density of *E. coli* culture suspension must be between 1 and 5 × 10<sup>6</sup> colony forming units (CFU) per mL.~~

NSF/ANSI Standard  
 for Food Equipment –

## Commercial Powered Food Preparation Equipment

### A.8 Culture of *E. coli*

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#### A.8.2 Challenge culture preparation

- a) 1 mL of the stock culture shall be transferred to a TSA slant prepared in a French bottle with a surface approximately 75 cm<sup>2</sup> in area. The media shall then be incubated at 36 ± 1 °C (97 ± 1 °F) for 24 h.
- b) Cells shall be washed from agar surface with 5 mL of SBDW. Agar surface shall be scraped with sterile disposable loops.
- c) ~~0.5 mL of *E. coli* culture suspension shall be pipetted into 4 L of SBDW. This will give a density of 1 to 5 × 10<sup>6</sup> colony forming units (CFU) per mL. The density of *E. coli* culture suspension must be between 1 and 5 × 10<sup>6</sup> colony forming units (CFU) per mL.~~

NSF/ANSI Standard  
 for Food Equipment –

## Manual Food and Beverage Dispensing Equipment

### A.8 Culture of *E. coli*

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#### A.8.2 Challenge culture preparation

- a) 1 mL of the stock culture shall be transferred to a TSA slant prepared in a French bottle with a surface approximately 75 cm<sup>2</sup> in area. The media shall then be incubated at 36 ± 1 °C (97 ± 1 °F) for 24 h.

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- b) Cells shall be washed from agar surface with 5 mL of SBDW. Agar surface shall be scraped with sterile disposable loops.
- c) ~~0.5 mL of *E. coli* culture suspension shall be pipetted into 4 L of SBDW. This will give a density of 1 to 5 × 10<sup>6</sup> colony forming units (CFU) per mL. The density of *E. coli* culture suspension must be between 1 and 5 × 10<sup>6</sup> colony forming units (CFU) per mL.~~

NSF/ANSI Standard  
 for Food Equipment –

## Vending Machines for Food and Beverages

### A.8 Culture of *E. coli*

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#### A.8.2 Challenge culture preparation

- a) 1 mL of the stock culture shall be transferred to a TSA slant prepared in a French bottle with a surface approximately 75 cm<sup>2</sup> in area. The media shall then be incubated at 36 ± 1 °C (97 ± 1 °F) for 24 h.
- b) Cells shall be washed from agar surface with 5 mL of SBDW. Agar surface shall be scraped with sterile disposable loops.
- c) ~~0.5 mL of *E. coli* culture suspension shall be pipetted into 4 L of SBDW. This will give a density of 1 to 5 × 10<sup>6</sup> colony forming units (CFU) per mL. The density of *E. coli* culture suspension must be between 1 and 5 × 10<sup>6</sup> colony forming units (CFU) per mL.~~

***Rationale:** This revised language allows the culture to be produced with a specific density range target, rather than a specific method to attempt to reach the same targeted density.*

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## NSF/ANSI Standards for Drinking Water Treatment Units

NSF/ANSI 42: Drinking Water Treatment Units – Aesthetic Effects

NSF/ANSI 53: Drinking Water Treatment Units — Health Effects

NSF/ANSI 244: Supplemental Microbiological Water Treatment Systems –  
Filtration

NSF/ANSI 401: Drinking Water Treatment Units – Emerging Compounds /  
Incidental Contaminants

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### 4 Materials

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**4.2.3.5** Systems with adsorptive or absorptive media shall be tested with and without the media. Testing without media shall include removal of any granular adsorptive or absorptive media, and removal of any adsorptive or absorptive replacement elements. Systems that contain only encapsulated filter element(s) that are unable to be operated with the element removed, are exempt from without media extraction testing.

**4.2.3.6** Systems with only encapsulated element(s) containing absorptive or adsorptive media but provide a component(s) to allow the consumer to dispense untreated water, without media extraction testing shall be performed on the system in the manner that the system is operated with the bypass component(s) installed. Additional conditioning instructions should be provided in this case if applicable.

Note – Refrigerators with water filter systems may include an option to operate the water system without filtering the water by using a dummy cartridge, bypass plug, or other bypass mechanism.

***Rationale: Added clarification on how systems shall be tested with and without adsorptive or absorptive media for replacement elements per 2020 DWTU JC meeting discussion (May 13, 2020). Note that original proposed language has been revised slightly to incorporate comments received from the initial straw ballot (8/17/20).***

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## NSF/ANSI/CAN Standard for Recreational Water Facilities –

# 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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## 7 Centrifugal pumps

This section contains requirements for centrifugal pumps used to circulate swimming pool or spa / hot tub water in commercial and residential applications. The requirements for strainers shall apply to strainers that are integral with the pump and to strainers supplied as separate equipment for use in conjunction with a centrifugal pump.

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### 7.6 Pump performance curve

**7.6.1** For each pump model or model series, the manufacturer shall provide a pump performance curve that plots the pump's total dynamic head versus the discharge flow rate. The manufacturer shall also have a curve available that plots the net positive suction head (NPSH) or total dynamic suction lift (TDSL), brake horsepower, and pump efficiency in relation to the performance curve. Pumps with a rating of 5 HP (3.7 kW) or less are not required to have a NPSH curve.

For pumps utilizing motors rated for multiple voltages, if the pump performance curve varies between rated voltages, such as may occur between 230 V and 208 V, the manufacturer shall provide a pump performance curve for each rated motor voltage.

**7.6.2** The actual pump curve, as determined in accordance with Section N-3.1, shall be within a range of - 3% to + 5% of the total dynamic head or - 5% to + 5% of the flow, whichever is greater, indicated by the performance curve. Data taken above 90% full flow shall not be judged to the acceptance criteria.

Pumps with more than one operating speed shall be tested as documented below:

- fixed multispeed pump or motor assemblies, test at each speed; or
- variable speed pump or motor assemblies, test at 100%, 50%, and the lowest speed.



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**7.6.3** For pumps that provide a flow rate output (such as a visual flow rate in LPM/GPM or other manner), the pump may be tested in accordance with the following flow meter requirements of Section 23 of this standard:

- Section 23.8 flow rate measurement accuracy
- Section 23.9 flow metering device testing and accuracy levels
- Section 23.12 life testing

## **7.7 Operation and installation instructions**

**7.7.1** The manufacturer shall provide a manual with each pump. The manual shall include written instructions for the proper installation, operation, and maintenance of the pump. Instructions shall include a parts list and diagrams to facilitate the identification and ordering of replacement parts. If the parts list does not uniquely identify each part for ordering, the manufacturer shall also supply the appropriate specification numbers and serial numbers, and the impeller diameter.

**7.7.2** A pump manufactured without an integral strainer shall state in its installation instructions, on a data plate, or on an attached label that the pump is to be installed with a strainer conforming to the requirements in this Standard.

**7.7.3** For pumps that provide a flow rate output, that have not been evaluated to the flow meter requirements of Section 23 of this standard, the pump shall state the following in its installation instructions:

- Displayed flow rate has not been evaluated to the flow meter requirements of NSF/ANSI/CAN 50;

## UL 962A, Standard for Safety for Furniture Power Distribution Units

### 1. A FPDU which Incorporates Dimming Controls

#### CONSTRUCTION

##### 7 Enclosure

##### 7.1 General

7.1.15 A FPDU that incorporates dimming controls or circuits to control a specific receptacle(s) or cord connector(s), shall comply with the Standard for Solid-State Dimming Controls, UL 1472, and shall also comply with the following:

- a) A receptacle(s) or cord connector(s), supplied by a dimming circuit, shall be of the ANSI/NEMA 5-15R configuration only.
- b) A receptacle(s) or cord connector(s) of the ANSI/NEMA 5-15R configuration, supplied by a dimming circuit, shall be marked as specified in 53.29.
- c) A FPDU that incorporates dimming controls or circuits to control receptacles and cord connectors of the ANSI/NEMA 5-15R configuration, shall include an installation instruction in compliance with 54.5.

#### MARKINGS

##### 53 Details

53.29 A FPDU as described by 7.1.15 shall be marked: "CAUTION" and the following or equivalent "For Lighting Loads Only" and indicate the maximum electrical rating in volts, amperes or watts, and frequency. This marking is to be placed on the FPDU adjacent to the receptacle or cord connector controlled by the dimmer circuit.

#### INSTRUCTIONS

##### 54 Details

54.5 A FPDU as described in 7.1.15 shall include an installation instruction that identifies the receptacle(s) or cord connector(s) controlled by the dimmer circuit and contain the signal word "CAUTION" and the following statements or the equivalent:

- a) "The dimmer controlled receptacle(s) or cord connector(s) is for lighting loads only" and indicate the maximum electrical rating in volts, amperes or watts, and frequency.
- b) "To reduce the risk of overheating and possible damage to other equipment, do not connect a motor-operated appliance to the dimmer controlled receptacle(s) or cord connector(s)."

## **BSR/UL 1323, Standard for Safety for Scaffold Hoists**

**1. Remove all references to UL 508C, Standard for Power Conversion Equipment, and replace them with UL 61800-5-1, Standard for Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy.**

### **PROPOSAL**

#### **5 General**

5.3 The electrical features of a control box assembly shall be evaluated to the requirements of the Standard for Industrial Control Equipment, UL 508 or the Standard for Adjustable Speed Electrical Power Drive Systems – Part 5-1: Safety Requirements – Electrical, Thermal, and Energy, UL 61800-5-1 ~~Power Conversion Equipment, UL 508C~~. This may include, but is not limited to, AC inverters, DC converters, DC drives, contact blocks, phase control relays, pendant controls and their interconnection.

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## BSR/UL 1740, Standard for Safety for Robots and Robotic Equipment

### 1. Changes regarding illuminated e-stop

40.2.2.2 The emergency stop button shall be red in color with a yellow background; palm or mushroom head type; unguarded; and of the latched type or equivalent so that it is not possible to restart the robot until the emergency stop function is manually reset. Restarting of the robot shall only be possible by operating the start control after the emergency stop function has been reset. ~~Note:~~ When emergency stop devices are installed on detachable or cableless operator control stations (e.g. pluggable or wireless portable teaching pendants) ~~see~~ refer to the Clause on Emergency Stop Device in ISO 13850 4.3.8 for reference.

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