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# CONTENTS




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# Project Initiation Notification System (PINS)

Section 2.5.1 of the *ANSI Essential Requirements* (www.ansi.org/essentialrequirements) describes the Project Initiation Notification System (PINS) and includes requirements associated with a PINS Deliberation. Following is a list of PINS notices submitted for publication in this issue of ANSI Standards Action by ANSI-Accredited Standards Developers (ASDs). Please also review the section in Standards Action entitled "American National Standards Maintained Under Continuous Maintenance" for information about American National Standards (ANS) maintained under the continuous maintenance option, as a PINS to initiate a revision of such standards is not required. 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 interested parties wishing to receive more information or to submit comments are to contact the sponsoring ANSI-Accredited Standards Developer directly **within 30 calendar days** of the publication of this PINS announcement.

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## AAFS (American Academy of Forensic Sciences)

Teresa Ambrosius <tambrosius@aafs.org> | 410 North 21st Street | Colorado Springs, CO 80904 www.aafs.org

***Revision***

BSR/ASB Std 088-202x, Standard for Training, Certification, and Documentation of Canine Detection Disciplines (revision of ANSI/ASB Std 088-2020)
Stakeholders: Federal, state, local and private-sector canine detection teams, scientific and non-profit community involved in odor and scent detection, and biological detectors involved in research.

Project Need: This is the revision to the published ANSI/ASB Standard 088. This revision will update the document to be in alignment with other, more recently published standards in the discipline. The document will also include a new annex on orthogonal detectors. The updated document will continue to contain requirements for canine teams (canine handlers and canines) and training, certification, and documentation processes specifically dedicated to general guidelines for detector canine teams.

Interest Categories: Academics and Researchers, General Interest, Jurisprudence and Criminal Justice, Producer, User - Government, User - Non-Government

This standard contains requirements for the development of training of canine handlers and canines and will also detail the canine team assessments and the basis for certification procedures including record keeping and document management. This standard does not cover discipline-specific guidelines.

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

Jerry Yeh <jyeh2@ahrinet.org> | 2311 Wilson Boulevard, Suite 400 | Arlington, VA 22201 www.ahrinet.org

***New Standard***

BSR/AHRI Standard 1560-202x (I-P), Method for Calculation of Commercial Boiler Standard Thermal Efficiency (new standard)
Stakeholders: Groups and individuals known to be, or who have indicated that they are, directly and materially affected by the standard, including manufacturers, testers, regulators and trade or professional organizations.

Project Need: This project will develop a new standard to take the test results obtained from ANSI/ASHRAE/AHRI Standard 155-2024 and use them to calculate a single efficiency metric called "Standard Thermal Efficiency" (TEs) for commercial space heating boilers. This efficiency will be based upon typical average boiler water temperature and flow conditions. TEs is intended for use in product comparison and setting performance standards.

Interest Categories: Consumer/User, General Interest, Product Manufacturer, Regulatory Agency, and Testing Laboratory

This standard applies to steam and hot water boiler systems (individual, modular or multiple boilers) for use in space heating applications and having individual boilers or modules with gas, oil, electric or multiple fuel inputs of at least 300,000 Btu/h but less than 12,500,000 Btu/h, that are: (1) A steam boiler designed to operate at or below a steam pressure of 15 psig; or (2) A hot water boiler designed to operate at or below a water pressure of 160 psig and a temperature of 250°F; or (3) A boiler that is designed to be capable of supplying either steam or hot water and designed to operate under the conditions described in this scope. This standard will exclude steam generators tested under ASME PTC-4.

## AWS (American Welding Society)

Jennifer Rosario <jrosario@aws.org> | 8669 NW 36th Street, Suite 130 | Miami, FL 33166-6672 www.aws.org

***Revision***

BSR/AWS C4.9/C4.9M-202x, Recommended Practices for Oxyacetylene Cutting of Steel (revision of ANSI/AWS C4.9/C4.9M-2024)
Stakeholders: Welders, Welding Instructors, Manufacturers, Educational Institutions

Project Need: Need for a standard that describes the equipment, applications, and safe practices for oxyacetylene gas cutting operations which can also be used as a teaching/training tool by a welder and/or instructor.

Interest Categories: Producers, Users, General Interest, and Educators

This recommended practice for oxyacetylene cutting includes general procedures to be used in conjunction with oxyacetylene equipment and the latest safety recommendations. If not found in this recommended practice, lists of additional equipment are available from individual manufacturers.

## ECIA (Electronic Components Industry Association)

Laura Donohoe <ldonohoe@ecianow.org> | 13873 Park Center Road, Suite 315 | Herndon, VA 20171 www.ecianow.org

***New Standard***

BSR/EIA 364-1006-202x, Environmental Test Methodology for Assessing the Performance of Electrical Connectors and Sockets Used in Single Phase Immersion Cooling Applications (new standard)
Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Create new American National Standard.

Interest Categories: User, Producer, General Interest

This standard establishes the test procedures and test sequences to be followed when evaluating the performance of electrical connectors and sockets used in single-phase immersion-cooled applications. (1) Furthermore, it applies to contacts operating under low-level circuit conditions. (2) The assumption is made that the contacts are metal. Polymer contacts, or other contact types, may require a different test methodology.

## MHI (Material Handling Industry)

Patrick Davison <pdavison@mhi.org> | 8720 Red Oak Boulevard, Suite 201 | Charlotte, NC 28217 www.mhi.org

***Revision***

BSR MH32.1-202X, Stairs, Ladders, and Open-Edge Guards for Use with Material Handling Structures (revision of ANSI/MH32.1-2018)
Stakeholders: Manufacturing, supply chain, material handling, logistics, retail.

Project Need: Periodic review and updating

Interest Categories: Manufacturer, User, Distribtor/Integrator, Government/Regulatory, Laboratory/Researcher, General Interest

This standard applies to fixed stairways and ladders along with guarding for elevated platforms used in material handling structures. The stairways and ladders are attached to structures such as industrial racking pick modules, decked-over platforms, industrial shelving pick modules and decked-over platforms, and free-standing work platforms. These structures are described in the ANSI MH 16.X and ANSI MH28.X series of standards. This standard is intended to serve as a reference document for other material handling equipment standards or specifications.

## SCTE (Society of Cable Telecommunications Engineers)

Natasha Aden <naden@scte.org> | 140 Philips Road | Exton, PA 19341-1318 www.scte.org

***Reaffirmation***

BSR/SCTE 09-2016 (R202x), Test Method for Cold Bend (reaffirmation of ANSI/SCTE 09-2016)
Stakeholders: Cable Telecommunications Industry

Project Need: Reaffirm current technology.

Interest Categories: User, Producer, General Interest

The purpose of this procedure is to provide instructions on testing the cold bend properties of flexible outdoor poly (vinyl chloride) (PVC) or polyethylene (PE) cable.

## SCTE (Society of Cable Telecommunications Engineers)

Natasha Aden <naden@scte.org> | 140 Philips Road | Exton, PA 19341-1318 www.scte.org

***Revision***

BSR/SCTE 149-202x, Test Method for Withstanding Tightening Torque-F Female (revision of ANSI/SCTE 149-2019)
Stakeholders: Cable Telecommunications Industry

Project Need: Update to current technology

Interest Categories: Producer, User, General Interest

This test procedure applies as a method for determining whether a female F port withstands a specified tightening torque when mated to a known male F connector fixture. To measure the “F” Female interface torque and/or to determine the amount of torque that will cause one or more of the following conditions to occur: Stripping of the external threads, Damage to the female interface.

## SCTE (Society of Cable Telecommunications Engineers)

Natasha Aden <naden@scte.org> | 140 Philips Road | Exton, PA 19341-1318 www.scte.org

***Revision***

BSR/SCTE 193-1-202x, MPEG AAC Audio Codec Constraints for Cable Television - Coding (revision of ANSI/SCTE 193 -01-2020)
Stakeholders: Cable Telecommunications Industry

Project Need: Update current technology

Interest Categories: User, Producer, General Interest

This document defines the coding constraints on MPEG 4 AAC, HE AAC, and HE AAC v2 (referred to collectively in this document as the "AAC family") profile audio for cable television. It also discusses MPEG-2 AAC LC profile audio, which is closely related to MPEG-4 AAC profile audio.

## SCTE (Society of Cable Telecommunications Engineers)

Natasha Aden <naden@scte.org> | 140 Philips Road | Exton, PA 19341-1318 www.scte.org

***Revision***

BSR/SCTE 193-2 202x-202x, MPEG-4 AAC Family Audio System – Part 2 Constraints for Carriage over MPEG-2 Transport (revision of ANSI/SCTE 193-02-2020)
Stakeholders: Cable Telecommunications Industry

Project Need: Update current technology

Interest Categories: User, Producer, General Interest

This document describes the carriage of MPEG-4 AAC, HE AAC, HE AAC v2, and Extended HE-AAC (referred to collectively in this document as the "AAC family") profile audio in MPEG-2 transport systems. It also discusses MPEG -2 AAC LC profile audio, which is closely related to MPEG-4 AAC profile audio. The descriptor necessary to signal AAC family audio and information for signaling mixing of main and associated services in the receiver are defined in this document.

## SCTE (Society of Cable Telecommunications Engineers)

Natasha Aden <naden@scte.org> | 140 Philips Road | Exton, PA 19341-1318 www.scte.org

***Revision***

BSR/SCTE 231-202x, General Test Procedures for Evaluation of Energy Efficiency Metrics and in Support of Functional Density Metrics (revision of ANSI/SCTE 231-2020)
Stakeholders: Cable Telecommunications Industry

Project Need: Update to current technology

Interest Categories: User, Producer, General Interest

This document covers the general test procedures that are common to all equipment types and specifies the environmental conditions for evaluating cable equipment energy efficiency metrics. Expectations of measurement equipment as well as guidelines on the recording of results are also covered. This standard will be included as a normative reference in each supplemental standard in the series covering metrics and specific test procedures for the various equipment types.

## SCTE (Society of Cable Telecommunications Engineers)

Natasha Aden <naden@scte.org> | 140 Philips Road | Exton, PA 19341-1318 www.scte.org

***Revision***

BSR/SCTE 232-202x, Key Performance Metrics: Energy Efficiency & Functional Density of CMTS, CCAP, and Time Server Equipment (revision of ANSI/SCTE 232-2020)
Stakeholders: Cable Telecommunications Industry

Project Need: Update to current technology

Interest Categories: User, Producer, General Interest

This document defines how to use a standard methodology to measure the density of hardware to meet the needs of optimizing critical space, as well as measuring energy consumption for the various network element classes. This part of the series focuses on the CMTS, CCAP, and other related cable operator critical facility equipment.

## SCTE (Society of Cable Telecommunications Engineers)

Natasha Aden <naden@scte.org> | 140 Philips Road | Exton, PA 19341-1318 www.scte.org

***Revision***

BSR/SCTE 249-202x, Test Method Common Mode Disturbance (revision of ANSI/SCTE 249-2018)
Stakeholders: Cable Telecommunications Industry

Project Need: Update current technology

Interest Categories: Producer, User, General Interest

The purpose of this test is to determine the common mode disturbance generated by power electronics in active CPE equipment. Since conducted disturbances on the AC port is already a part of FCC testing requirements, this method focuses on measurements of the common mode disturbance on the coaxial port. Common mode disturbance from stand-alone power supplies are conducted through a common ground plane on the CPE device to the outer conductor of the coaxial port. Therefore, stand-alone power supplies are also within the scope of this standard.

## SPRI (Single Ply Roofing Industry)

Linda King <info@spri.org> | 465 Waverley Oaks Road, Suite 421 | Waltham, MA 02452 www.spri.org

***Revision***

BSR/SPRI ED-1-202x, Design Standard for Edge Systems Used with Low Slope Roofing Systems (revision of ANSI/SPRI ED-1-2019)
Stakeholders: Designers and Specifiers of Roof Systems; Roof Edge Manufacturers; Contractors; and Insurance Companies and Building Owners

Project Need: Review, edit as needed and recanvass as per SPRI procedures.

Interest Categories: Producer; Other Producer; User; General Interest

This Standard provides the basic requirements for wind load design for roof edge securement of roof edge systems, including gutters and nailers. It also provides information on material thicknesses that lead to satisfactory flatness, accommodating thermal movement, how to minimize corrosion, methods for testing roof edge systems, and other factors affecting roof edge performance. This Standard applies to low-slope membrane roof systems, with low slope defined here as roofs having a slope less than 9.5 degrees (2:12).

## ULSE (UL Standards & Engagement)

Leslie Malaki <Leslie.Malaki@ul.org> | 1603 Orrington Ave, Suite 2000 | Evanston, IL 60201 https://ulse.org/

***New Standard***

BSR/UL 3602-202x, Standard for Measuring and Reporting Circularity and End-of-Life Management for Electrification Products - General Requirements (new standard)
Stakeholders: Consumer, Environmental, Sustainability, Electrification Products.

Project Need: This Standard is designed to enable the measuring and reporting of circular economy and end-of-life best management practices of electrification products. Multiple existing Standards cover different elements of circularity for these types of products, segmented through circularity strategies, design requirements, or by addressing individual products or product groups. This Standard offers a comprehensive framework for implementing circular strategies across various products.

Interest Categories: Supply Chain, Producer, Government, General Interest, Consumer, Commercial/Industrial Users, Testing and Standards Organizations

This Standard establishes a general framework for integrating circularity into an electrification product's lifecycle and the implementation of end-of-life management best practices. Electrification products are goods and systems designed to enable electric energy generation, storage, and consumption, offering sustainable alternatives to fossil-fuel technologies. These products span from individual components to complete systems and include the necessary equipment for charging and discharging and energy generation, for both industrial and consumer use.

# 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
* Standard for consumer products

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## Comment Deadline: February 2, 2025

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

180 Technology Parkway, Peachtree Corners, GA 30092 | mweber@ashrae.org, www.ashrae.org

***Addenda***

BSR/ASHRAE/ASHE Addendum 170t-202x, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Standard 170-2021)
Proposed Addendum t updates the normative and informative references to the latest publications. Additionally, any specific paragraph references were also updated to reflect the current paragraph numbering of the updated standard.
Click here to view these changes in full
Send comments (copy 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.)

180 Technology Parkway, Peachtree Corners, GA 30092 | etoto@ashrae.org, www.ashrae.org

***Addenda***

BSR/ASHRAE/IES Addendum bv to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2022)
This addendum adjusts Section 12.5.2 equations used for removing fan power from the hypothetical baseline mechanical system to account for the transition from SEER and HSPF metrics to SEER2 and HSPF2.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts

# Comment Deadline: February 2, 2025

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

180 Technology Parkway, Peachtree Corners, GA 30092 | etoto@ashrae.org, www.ashrae.org

***Addenda***

BSR/ASHRAE/IES Addendum c to ANSI/ASHRAE/IES Standard 100-2024, Energy and Emissions Building Performance Standard for Existing Buildings (addenda to ANSI/ASHRAE/IES Standard 100-2018)
This addendum revises Section 7 and Normative Appendix B to provide AHJs with the option of using regional conversion factors to determine performance target values for source Energy Use Intensity (EUI) and greenhouse gas intensity (GHGI).
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105 | mmilla@nsf.org, www.nsf.org

***Revision***

BSR/NSF 14-202x (i149r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14 -2023)
The physical, performance, and health effects requirements in this standard apply to thermoplastic and thermoset plastic piping system components including, but not limited to, pipes, fittings, valves, joining materials, gaskets, and appurtenances.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Monica Milla <mmilla@nsf.org>

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105 | mmilla@nsf.org, www.nsf.org

***Revision***

BSR/NSF 14-202x (i150r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14 -2023)
The physical, performance, and health effects requirements in this standard apply to thermoplastic and thermoset plastic piping system components including, but not limited to, pipes, fittings, valves, joining materials, gaskets, and appurtenances.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Monica Milla <mmilla@nsf.org>

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105 | mmilla@nsf.org, www.nsf.org

***Revision***

BSR/NSF 53-202x (i162r1), Drinking Water Treatment Units - Health Effects (revision of ANSI/NSF 53-2023)
The POU and POE systems addressed by this standard are designed to be used for the reduction of specific substances that may be present in drinking water (public or private) considered to be microbiologically safe and of known quality. Systems covered under this standard are intended to reduce substances that are considered established or potential health hazards.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Monica Milla <mmilla@nsf.org>

# Comment Deadline: February 2, 2025

### NSF (NSF International)

789 N Dixboro Rd, Ann Arbor, MI 48105 | bfreeman@nsf.org, www.nsf.org

***Revision***

BSR/NSF/CAN 50-202x (i209r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2024)
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 (copy psa@ansi.org) to: Brandan Freeman <bfreeman@nsf.org>

### NSF (NSF International)

789 N Dixboro Rd, Ann Arbor, MI 48105 | bfreeman@nsf.org, www.nsf.org

***Revision***

BSR/NSF/CAN 50-202x (i215r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2024)
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 (copy psa@ansi.org) to: Brandan Freeman <bfreeman@nsf.org>

### NSF (NSF International)

789 N Dixboro Rd, Ann Arbor, MI 48105 | bfreeman@nsf.org, www.nsf.org

***Revision***

BSR/NSF/CAN 50-202x (i216r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2024)
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 (copy psa@ansi.org) to: Brandan Freeman <bfreeman@nsf.org>

### ULSE (UL Standards & Engagement)

1603 Orrington Ave., Suite 2000, Evanston, IL 60201 | anna.roessing-zewe@ul.org, https://ulse.org/

***Revision***

BSR/CAN/UL 668-202x, Standard for Hose Valves for Fire Protection Service (revision of ANSI/UL 668-2021)
1.1 These requirements cover angle-pattern and straightway-pattern hose valves intended for use on standpipes, fire pumps, and hydrants supplying water for fire protection service. 1.2 Requirements for the installation of hose valves include the Standards of the National Fire Protection Association for the Installation of Sprinkler Systems, NFPA 13; for Standpipe, Private Hydrants, and Hose Systems, NFPA 14; for Installation of Stationary Fire Pumps for Fire Protection, NFPA 20; and for Installation of Private Fire Service Mains and Their Appurtenances, NFPA 24.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: https://csds.ul.com/ProposalAvailable

# Comment Deadline: February 2, 2025

### ULSE (UL Standards & Engagement)

1603 Orrington Ave., Suite 2000, Evanston, IL 60201 | anna.roessing-zewe@ul.org, https://ulse.org/

***Revision***

BSR/UL 47-202x, Standard for Semiautomatic Fire Hose Storage Devices (revision of ANSI/UL 47-2023)
1.1 These requirements cover rack- or reel-type semiautomatic fire hose storage devices (SHSD) optionally installed in a cabinet intended for use in controlling incipient fires by trained personnel. An SHSD is intended for use with specifically identified fire hose. 1.2 Requirements for the installation, use, and care of hose storage devices and fire hose are included in the following standards of the National Fire Protection Association: (a) Installation of Standpipe and Hose Systems, NFPA 14; and (b) Care, Use, and Service Testing of Fire Hose, Including Connections and Nozzles, NFPA 1962. 1.3 Semiautomatic fire hose storage devices as covered by these requirements use hose having an inside diameter of 1-1/2 inches (38.1 mm) or 1 inch (25.4 mm) and are capable of storing not more than 100 feet (30 m) of fire hose, in accordance with the Standard for Installation of Standpipe and Hose Systems, NFPA 14.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: https://csds.ul.com/ProposalAvailable

### ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Vickie.T.Hinton@ul.org, https://ulse.org/

***Revision***

BSR/UL 783-202x, Standard for Safety for Electric Flashlights and Lanterns for Hazardous Locations (revision of ANSI/UL 783-2003 (R2020))
(1) Clause 30.8 Revision to delete the second sentence and associated footnote.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: https://csds.ul.com/ProposalAvailable

# Comment Deadline: February 17, 2025

### AAFS (American Academy of Forensic Sciences)

410 North 21st Street, Colorado Springs, CO 80904 | tambrosius@aafs.org, www.aafs.org

***New Standard***

BSR/ASB BPR 193-202x, Best Practice Recommendations for Determining What Scene and Death Locations a Medicolegal Death Investigation Authority Should Respond to for Investigation. (new standard)
This document provides best practice recommendations for determining when a response and investigation by a medicolegal death investigation authority are necessary. This document addresses which types of decedents, locations, and cases should be examined at the location of death, and at the incident scene. Details on how to conduct scene investigations are not addressed in this document.
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: www.aafs.org/academy-standards-board.
Send comments (copy psa@ansi.org) to: asb@aafs.org

# Comment Deadline: February 17, 2025

### ACP (American Clean Power Association)

1299 Pennsylvania Ave. NW, Suite 1300, Washington, DC 20004 | dbrown@cleanpower.org, www.cleanpower.org

*New Standard*

BSR/ACP 6000-2-202x, Solar Photovoltaic (PV) Energy Entry-level Technician - Minimum Standard - Project Intent (new standard)
A competency standard to serve as the recommended curriculum for prospective or new solar technicians. To assist employers; workforce development and training professionals; academia; and others with the minimum educational and training-related requirements for entry level Solar PV Energy Technicians. This standard will outline the minimum requirements for educational and training program's learning objectives, knowledge, and skills needed for an entry-level solar energy technician position.
Single copy price: Free
Obtain an electronic copy from: standards@cleanpower.org
Send comments (copy psa@ansi.org) to: Same

### ANS (American Nuclear Society)

1111 Pasquinelli Drive, Suite 350, Westmont, IL 60559 | kmurdoch@ans.org, www.ans.org

*Reaffirmation*

BSR/ANS 6.6.1-2015 (R202x), Calculation and Measurement of Direct and Scattered Radiation from LWR Nuclear Power Plants (reaffirmation of ANSI/ANS 6.6.1-2015 (R2020))
This standard defines calculational requirements and discusses measurement techniques for estimates of dose rates near light-water reactor (LWR) nuclear power plants due to direct and scattered gamma-rays from contained sources on-site. On-site locations outside plant buildings and locations in the offsite unrestricted area are considered. The standard includes normal operation and shut-down conditions but does not address accident or normal operational transient conditions.
Single copy price: $158.00
Obtain an electronic copy from: orders@ans.org
Send comments (copy psa@ansi.org) to: Patricia Schroeder <pschroeder@ans.org>

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

275 West Street, Suite 107, Annapolis, MD 21401 | ambria.frazier@x9.org, www.x9.org

*Reaffirmation*

BSR X9.103-2004 (R202x), Motor Vehicle Retail Sale and Lease Electronic Contracting (reaffirmation of ANSI X9.103-2004 (R2018))
This standard addresses the creation, storage, and assignment of Electronic Chattel Paper where assignment involves establishing "control" of the Electronic Chattel Paper. In addition, this standard addresses retail installment sale and lease contracts in the automotive dealer financing industry. However, it may be useful in establishing a similar process for banks, credit unions, and finance companies that make secured loans directly to buyers to enable them to purchase vehicles.
Single copy price: $60.00
Obtain an electronic copy from: ambria.calloway@x9.org
Send comments (copy psa@ansi.org) to: ambria.calloway@x9.org

# Comment Deadline: February 17, 2025

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

275 West Street, Suite 107, Annapolis, MD 21401 | ambria.frazier@x9.org, www.x9.org

***Reaffirmation***

BSR X9.110-202x, Transfer of Location of Electronic Contracts (reaffirmation of ANSI X9.110-2008 (R2020))
This specification describes a method of transfer for electronic contracts, or electronic records between two disparate Electronic Vaults across a private or public network. The methods and approach described herein prescribe the requirements necessary to maintain compliance with legislation for Electronic Chattel Paper defined in revised UCC Article 9, Section 105.
Single copy price: $60.00
Obtain an electronic copy from: ambria.calloway@x9.org
Send comments (copy psa@ansi.org) to: ambria.calloway@x9.org

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

180 Technology Parkway, Peachtree Corners, GA 30092 | cking@ashrae.org, www.ashrae.org

***Addenda***

BSR/ASHRAE Addendum e to ANSI/ASHRE Standard 205-2023, Representation of Performance Data for HVAC&R and Other Facility Equipment (addenda to ANSI/ASHRAE Standard 205-2023)
Addendum e adds coverage of heating performance to RS0004, Air-to-Air Direct Expansion System. The addendum also adds the common enumeration “PerformanceCapabilities”, that is used to indicate whether a system is capable of heating and/or cooling (and in the future, other capabilities such as humidification/dehumidification).
Single copy price: $35.00
Obtain an electronic copy from: http://www.ashrae.org/standards-research--technology/public-review-drafts
Send comments (copy psa@ansi.org) to: http://www.ashrae.org/standards-research--technology/public-review-drafts

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

180 Technology Parkway, Peachtree Corners, GA 30092 | etoto@ashrae.org, www.ashrae.org

***Addenda***

BSR/ASHRAE/IES Addendum ae to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2022)
This is a follow-up to the advisory public review conducted in June 2024. The addendum provides various updates to Tables 6.8.1-1 and 6.8.1-2 for unitary air-conditioning and heat pump equipment, including the new metrics and rating procedures that will apply starting in 2029. The tables have also been reformatted to incorporate both ASHRAE 90.1 and DOE-covered products in one location.
Single copy price: $35.00
Obtain an electronic copy from: standards.section@ashrae.org
Send comments (copy psa@ansi.org) to: https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts

# Comment Deadline: February 17, 2025

### CSA (CSA America Standards Inc.)

8501 East Pleasant Valley Road, Cleveland, OH 44131-5575 | ansi.contact@csagroup.org, www.csagroup.org

*New Standard*

BSR/CSA C800-202x, Testing Protocol for Energy Storage System Reliability and Quality Assurance Program (new standard)
This Standard provides an Electrical Energy Storage System (EESS) testing protocol for quality assurance and reliability programs. It is intended to be used by code officials, financial institutions and insurers, first responders, developers, independent engineers, manufacturers, and relevant stakeholders in the energy storage system industry. It provides best practices for an EESS testing protocol of an EESS for quality and reliability assurance programs. This Standard is intended to be a stand-alone document that does not interact with other safety or performance standards as it is intended to focus on reliability and quality assurance for long-term durability. Current market practices might require independent quality assurance and reliability testing and due diligence for EESS.
1.3 Individual test legs in the protocol of this Standard are designed to reproduce incidences and failures of an EESS that have been or could be seen in the field. Data generated from testing will reflect behaviour, reliability, and durability of the system and components during natural or accidental occurrences of conflagration, inundation, convulsion, or other related incidences, as to reflect the harsh environmental conditions during operation. This data is intended to be used as part of an assessment for bankability and insurability of EESS.

Single copy price: Free
Obtain an electronic copy from: ansi.contact@csagroup.org
Send comments (copy psa@ansi.org) to: ansi.contact@csagroup.org

### CSA (CSA America Standards Inc.)

8501 East Pleasant Valley Road, Cleveland, OH 44131-5575 | ansi.contact@csagroup.org, www.csagroup.org

*New Standard*

BSR/CSA NGV 5.3-202x, Mobile refueling appliances (MFA) (new standard)
Requirements for mobile fueling appliances that incorporate compression and dispensing in the same appliance and dispense directly into either (a) the vehicle natural gas fuel storage system or external natural gas storage systems, or (b) the vehicle's activated carbon adsorbents-based Adsorbed Natural Gas (ANG) fuel storage system.
Single copy price: Free
Obtain an electronic copy from: ansi.contact@csagroup.org
Send comments (copy psa@ansi.org) to: ansi.contact@csagroup.org

### CSA (CSA America Standards Inc.)

8501 East Pleasant Valley Road, Cleveland, OH 44131-5575 | ansi.contact@csagroup.org, www.csagroup.org

*Reaffirmation*

BSR ANSI Z21.81/CSA 6.25 (R202x), Cylinder Connection Devices (same as CSA 6.25) (reaffirmation of ANSI Z21.81-2005/CSA 6.25-2005 (R2015))
Details test and examination criteria for Type I and II cylinder connection devices intended to connect the cylinder valve on portable LP-Gas containers to the inlet of the regulator on outdoor cooking gas appliances. These cylinder connection devices are intended for vapor withdrawal service only.
Single copy price: Free
Obtain an electronic copy from: ansi.contact@csagroup.org
Send comments (copy psa@ansi.org) to: ansi.contact@csagroup.org

# Comment Deadline: February 17, 2025

### CSA (CSA America Standards Inc.)

8501 East Pleasant Valley Road, Cleveland, OH 44131-5575 | ansi.contact@csagroup.org, www.csagroup.org

***Revision***

BSR/CSA NGV 5.1-202x, Residential fuelling appliances (RFA) (revision of ANSI/CSA NGV 5.1-2022)
This standard details mechanical and electrical requirements for newly manufactured systems that dispense natural gas for vehicles directly into the vehicle fuel storage container and are installed in non-commercial/non-public locations. This standard does not apply to the nozzle, hose assemblies, and connection devices associated with such equipment.
Single copy price: Free
Obtain an electronic copy from: ansi.contact@csagroup.org
Send comments (copy psa@ansi.org) to: ansi.contact@csagroup.org

### CSA (CSA America Standards Inc.)

8501 East Pleasant Valley Road, Cleveland, OH 44131-5575 | ansi.contact@csagroup.org, www.csagroup.org

***Revision***

BSR/CSA NGV 5.2-202x, Vehicle fuelling appliances (VFA) (revision of ANSI/CSA NGV 5.2-2022)
This Standard details mechanical, physical, and electrical requirements for a newly manufactured appliance that dispenses natural gas for vehicles directly into the vehicle natural gas fuel storage systems from natural gas distribution systems or supply systems other than residential gas systems, referred to as vehicle fueling appliances (VFA). (NOTE: Residential fueling appliances (RFA) are addressed in CSA Standard NGV 5.1.) These requirements apply to compressed natural gas appliances for installation in commercial, nonresidential locations and nonretail fueling facilities.
Single copy price: Free
Obtain an electronic copy from: ansi.contact@csagroup.org
Send comments (copy psa@ansi.org) to: ansi.contact@csagroup.org

### IAPMO (ASSE Chapter) (ASSE International Chapter of IAPMO)

18927 Hickory Creek Drive, Suite 220, Mokena, IL 60448 | standards@iapmostandards.org, www.asse-plumbing.org

***Reaffirmation***

BSR/ASSE 1002/ASME A112.1002/CSA B125.12 (R202x), Anti-Siphon Fill Valves for Water Closet Tanks (reaffirmation of ANSI/ASSE 1002/ASME A112.1002/CSA B125.12-2020)
This Standard covers anti-siphon fill valves intended to be installed in water closet tanks.
Single copy price: Free
Obtain an electronic copy from: standards@iapmostandards.org
Send comments (copy psa@ansi.org) to: Same

### IAPMO (ASSE Chapter) (ASSE International Chapter of IAPMO)

18927 Hickory Creek Drive, Suite 220, Mokena, IL 60448 | standards@iapmostandards.org, www.asse-plumbing.org

***Reaffirmation***

BSR/ASSE 1037/ASME A112.1037/CSA B125.37 (R202x), Pressurized Flushing Devices for Plumbing Fixtures (reaffirmation of ANSI/ASSE 1037/ASME A112.1037/CSA B125.37-2020)
This Standard covers pressurized flushing devices (PFDs) intended to flush water closets, urinals, and other plumbing fixtures and specifies requirements for materials, design, methods of operation, test methods, and markings.
Single copy price: Free
Obtain an electronic copy from: standards@iapmostandards.org
Send comments (copy psa@ansi.org) to: Same

# Comment Deadline: February 17, 2025

### IAPMO (ASSE Chapter) (ASSE International Chapter of IAPMO)

18927 Hickory Creek Drive, Suite 220, Mokena, IL 60448 | standards@iapmostandards.org, www.asse-plumbing.org

***Reaffirmation***

BSR/ASSE 1070/ASME A112.1070/CSA B125.70 (R202x), Water Temperature Limiting Devices (reaffirmation of ANSI/ASSE 1070/ASME A112.1070/CSA B125.70-2020)
This Standard covers water temperature limiting devices intended to limit the hot or tempered water temperature supplied to fittings for fixtures such as sinks, bidets, lavatories, and bathtubs to reduce the risk of scalding. These devices are not designed to address thermal shock.
Single copy price: Free
Obtain an electronic copy from: standards@iapmostandards.org
Send comments (copy psa@ansi.org) to: Same

### IAPMO (ASSE Chapter) (ASSE International Chapter of IAPMO)

18927 Hickory Creek Drive, Suite 220, Mokena, IL 60448 | standards@iapmostandards.org, www.asse-plumbing.org

***Revision***

BSR/ASSE 1086-202x, Performance Requirements for Reverse Osmosis Water Efficiency - Drinking Water (revision of ANSI/ASSE 1086-2022)
Residential Reverse Osmosis (RO) systems are used to treat drinking water. RO water treatment equipment reduces total dissolved solids, heavy metals, inorganics, and organics water contaminants. RO's are typically installed under the kitchen sink; however, countertop, wall-mount, and free-standing models are also used in the market.
Single copy price: Free
Obtain an electronic copy from: standards@iapmostandards.org
Send comments (copy psa@ansi.org) to: Same

### SCTE (Society of Cable Telecommunications Engineers)

140 Philips Road, Exton, PA 19341-1318 | naden@scte.org, www.scte.org

***Reaffirmation***

BSR/SCTE 17-2018 (R202x), Test Procedure for Carrier to Noise (reaffirmation of ANSI/SCTE 17-2018)
This procedure defines the measurement procedure for determining the ratio of carrier to thermal noise and "noise-like" interference for broadband telecommunications system components. The test involves measuring the noise levels, or the combined noise plus "noise-like" intermodulation product levels, relative to the carrier level of a CW signal.
Single copy price: $50.00
Obtain an electronic copy from: standards@scte.org
Send comments (copy psa@ansi.org) to: standards@scte.org

# Comment Deadline: February 17, 2025

### SCTE (Society of Cable Telecommunications Engineers)

140 Philips Road, Exton, PA 19341-1318 | naden@scte.org, www.scte.org

***Revision***

BSR/SCTE 203-202x, Product Environmental Requirements for Cable Telecommunications Facilities - Test Methods (revision of ANSI/SCTE 203-2019)
The specification purpose is to define test methods to evaluate equipment compliance with criteria specified in SCTE 186. This document specifies physical, environmental, and electrical test procedures to evaluate equipment compliance. This document is needed to provide consistent test methods for testing products to the requirements of SCTE 186. Standardization of test methods provides for consistent and reproducible test results.
Single copy price: $50.00
Obtain an electronic copy from: standards@scte.org
Send comments (copy psa@ansi.org) to: standards@scte.org

### SCTE (Society of Cable Telecommunications Engineers)

140 Philips Road, Exton, PA 19341-1318 | naden@scte.org, www.scte.org

***Revision***

BSR/SCTE 71 202x-202x, Performance Specification for Series 15, Braided 75-Ohm Coaxial, Multi-Purpose Cable (revision of ANSI/SCTE 71-2018)
This specification is intended to apply to general-purpose, flexible, 75-ohm, tri-shield, low-loss multipurpose cables, for the broadband industry. This specification defines the required performance with regards to electrical and mechanical properties of flexible, 75-ohm coaxial drop cables and 75-ohm braided, low-loss subscriber access cable (Series 15). These coaxial cables are used to distribute radio frequency (RF), power and digital broadband signals.
Single copy price: $50.00
Obtain an electronic copy from: standards@scte.org
Send comments (copy psa@ansi.org) to: standards@scte.org

### SCTE (Society of Cable Telecommunications Engineers)

140 Philips Road, Exton, PA 19341-1318 | naden@scte.org, www.scte.org

***Revision***

BSR/SCTE 109 202x-202x, Test Procedure for Common Path Distortion (CPD) (revision of ANSI/SCTE 109-2020)
Reliable operation of today's two-way cable networks is critical, especially considering that upstream transmission in the return path includes telephone, high-speed data, and various telemetry and other signals. Common path distortion (CPD) is a type of impairment that can affect the quality of those upstream signals. This document describes test procedures for the characterization of CPD in lab and field environments.
Single copy price: $50.00
Obtain an electronic copy from: standards@scte.org
Send comments (copy psa@ansi.org) to: standards@scte.org

# Comment Deadline: February 17, 2025

### SIMA (Snow and Ice Management Association)

10140 N Port Washington Road, Milwaukee, WI 53092 | ellen@sima.org, http://www.sima.org

***Revision***

BSR/SIMA 10-202x, Standard Practice for Procuring and Planning Snow and Ice Management Services (revision and redesignation of ANSI/SIMA 10-2020)
This standard of practice revision covers essential procuring and planning for snow and ice management services. Standards for procuring and planning are essential for business continuity and to improve safety for patrons, tenants, employees and others in the general public. Knowing how to describe service requirements in a snow and ice management request for proposal (RFP) is an important component to providing effective services, particularly where winter weather is a variable. This standard practice provides guidance on the snow and ice management procurement and planning process to aid in the creation of RFPs, contracts, agreements, and monitoring procedures. This standard will not be submitted for consideration as an ISO, IEC, or ISO/IEC JTC-1 standard.
Single copy price: Free
Obtain an electronic copy from: Request an electronic copy at www.sima.org/standards
Send comments (copy psa@ansi.org) to: Follow the instructions for submitting a public review comment at www.sima.org/standards

### SPRI (Single Ply Roofing Industry)

465 Waverley Oaks Road, Suite 421, Waltham, MA 02452 | info@spri.org, www.spri.org

***New Standard***

BSR/SPRI/FM TDP-1-202x, Test Standard for Comparative Adhesion Strengths of Waterproofing Membranes, Membrane Adhesives, and Board Stock Materials or Other Suitable Substrates Used with Low Slope Roofing Systems (new standard)
This standard provides basic requirements and procedures for determining the maximum failure load of waterproofing membranes, membrane adhesives, and board stock materials or other suitable substrates when tested for adhesion strength in peel.
Single copy price: Free
Obtain an electronic copy from: info@spri.org
Send comments (copy psa@ansi.org) to: Same

### ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | michael.niedermayer@ul.org, https://ulse.org/

***Reaffirmation***

BSR/UL 61058-2-5-2020 (R202x), Standard for Safety for Switches for Appliances - Part 2-5: Particular Requirements for Change-Over Selectors (reaffirmation of ANSI/UL 61058-2-5-2020)
(1) Reaffirmation and continuance of the 1st Edition of the Standard for Switches for Appliances – Part 2-5: Particular Requirements for Change-Over Selectors, UL 61058-2-5, as an standard.
Single copy price: Free
Obtain an electronic copy from: https://csds.ul.com/ProposalRequest
Send comments (copy psa@ansi.org) to: https://csds.ul.com/ProposalAvailable

# Comment Deadline: February 17, 2025

### ULSE (UL Standards & Engagement)

1603 Orrington Ave, Evanston, IL 60201 | olivia.lawson@ul.org, https://ulse.org/

***Revision***

BSR/UL 2200-202x, Standard for Stationary Engine Generator Assemblies (revision of ANSI/UL 2200-2022)
This revision of ANSI/UL 2267 covers: (1) Define Generator; (2) Remove Alternator from Generator Assembly Definition; (5) Additional requirements for fuel tanks; (6) Exception for automatic positive shutoff; (7) Change location and pressure rating requirement for automatic shutoff valve in LP fuel system; (8) Change backflow requirement for an automatic shutoff valve in LP fuel system; (9) NG Fuel Lines – Remove CSA B149.1 Reference; (11) Output Overload Test method clarification; (13) Alternative option for exclusive use of ISO-formatted markings; and (14) Lift Lug – Calculation Method.
Single copy price: Free
Obtain an electronic copy from: https://csds.ul.com/ProposalAvailable
Send comments (copy psa@ansi.org) to: Follow the instructions at the following website to enter comments into the CSDS Work Area: https://csds.ul.com/ProposalAvailable

# Comment Deadline: March 4, 2025

### ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | ansibox@asme.org, www.asme.org

***Reaffirmation***

BSR/ASME B107.17-2020 (R202x), Gages and Mandrels for Wrench Openings (reaffirmation of ANSI/ASME B107.17-2020)
This Standard establishes final inspection gage sizes and test mandrel sizes for wrench openings and spark plug wrench openings for inch and metric sizes.
Single copy price: $45.00
Order from: https://cstools.asme.org/csconnect/PublicReviewPage.cfm
Send comments (copy psa@ansi.org) to: Daniel Papert <papertd@asme.org□>

# Call for Members (ANS Consensus Bodies)

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

## ANSI Accredited Standards Developer

### 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 interested parties in accordance with INCITS membership rules. To find out more about participating on the INCITS Executive Board, contact Jennifer Garner at jgarner@itic.org or visit http://www.incits.org/participation/membership-info for more information.
Membership in all interest categories is always welcome; however, the INCITS Executive Board seeks to broaden its membership base in the following underrepresented categories:

- Producer-Software
- Producer-Hardware
- Distributor
- Service Provider
- Users
- Consultants
- Government
- SDO and Consortia Groups
- Academia
- General Interest

## ANSI Accredited Standards Developer

### SCTE (Society of Cable Telecommunications Engineers)

SCTE, an ANSI-accredited SDO, is the primary organization for the creation and maintenance of standards for the cable telecommunications industry. SCTE's standards mission is to develop standards that meet the needs of cable system operators, content providers, network and customer premises equipment manufacturers, and all others who have an interest in the industry through a fair, balanced and transparent process.
SCTE is currently seeking to broaden the membership base of its ANS consensus bodies and is interested in new members in all membership categories to participate in new work in fiber-optic networks, advanced advertising, 3D television, and other important topics. Of particular interest is membership from the content (program and advertising) provider and user communities.
Membership in the SCTE Standards Program is open to all directly and materially affected parties as defined in SCTE's membership rules and operating procedures.
More information is available at www.scte.org or by e-mail from standards@scte.org.

## ANSI Accredited Standards Developer

### DirectTrustTM - DirectTrust.org, Inc.

**Call for Members**

**DS2023_06 - Interoperable Secure Cloud Fax (ISCF)**
Are you interested in contributing to the development and maintenance of the Interoperable Secure Cloud Fax Consensus Body to enable exchange of authenticated, secured documents via facsimile containing health and other sensitive information to known trusted recipients?

DirectTrust is currently seeking members in the following categories: Healthcare Sector; Government Sector; Payer Sector; Consumer Sector; Social Care Sector; General Interest and Advocacy;Telecommunications Sector

If you are interested in joining the DS2023_06 Interoperable Secure Cloud Fax Consensus Body, contact Standards@DirectTrust.org.

**DS2019_01 – The Direct Standard®**
Are you interested in contributing to the development and maintenance of the Direct Standard® to enable exchange of authenticated, encrypted health information to known trusted recipients?

DirectTrust is currently seeking members in the following categories: Healthcare Sector; Government Sector; Payer Sector; Consumer Sector; General Interest and Advocacy Sector; Socialcare Sector

If you are interested in joining the DS2019_01- The Direct Standard® Consensus Body, contact Standards@DirectTrust.org.

# ANSI Accredited Standards Developer

## NCPDP - National Council for Prescription Drug Programs

### Enrollment in the 2025 Consensus Group

Enrollment in the 2025 Consensus Group opens Monday, January 13, 2025 and closes at 8:00 p.m. EST on Friday, February 14, 2025. Information concerning the Consensus Group registration process is available by contacting:
Margaret Weiker, National Council for Prescription Drug Programs, 9240 East Raintree Drive, Scottsdale, AZ 85260
Phone: (480) 477-1000; Email: mweiker@ncpdp.org

**Standards (page 1 of 2):**
· Audit Transaction Standard – supports an electronic audit transaction that facilitates requests, responses, and final outcomes transmissions for both "Desk Top" claim audits and for in-store audit notices.
· Batch Standard Subrogation - provides a uniform approach to efficiently process post-payment subrogation claims and eliminate the numerous custom formats used in the industry today.
· Benefit Integration Standard - supports the communication of accumulator data (such as deductible and out of pocket) between Benefit Partners to administer integrated benefits for a member.
· Billing Unit Standard - provides a consistent and well-defined billing unit for use in pharmacy transactions. This results in time savings and accuracy in billing and reimbursement.
· Financial Information Reporting Standard – provides a process whereby financial information is moved from one PBM to another when a patient changes benefit plans.
· Formulary and Benefit Standard – provides a standard means for pharmacy benefit payers (including health plans and Pharmacy Benefit Managers) to communicate formulary and benefit information to prescribers via technology vendor systems.
· Manufacturer Rebate Standard – provides a standardized format for the electronic submission of rebate information from Pharmacy Management Organizations (PMOs) to Pharmaceutical Industry Contracting Organizations (PICOs).
· Medicaid Pharmacy Encounters Reporting – provides standardization of data content and file layout for reporting of Medicaid Managed Care Organization pharmacy claims to a state agency.
· Post Adjudication Standard – provides a format for supplying detailed drug or utilization claim information after the claim has been adjudicated.
· Prescription Drug Monitoring Programs (PDMP) Reporting Standard – developed to report controlled substance and other required drug information to assist healthcare providers to deter prescription drug abuse to ensure access for patients with valid medical needs.
· Prescription Transfer Standard – developed to create file formats for the purpose of electronically transferring prescriptions between pharmacies.
· Prior Authorization Transfer Standard – developed to define the file format and correct usage for electronically transferring existing prior authorization data between payer/processors when transitioning clients, performing system database or platform changes, or other scenarios where an existing prior authorization record is stored in one location and needs to be moved to another.
· Product Identifiers Standard – developed to provide a standard for consistent formatting and utilization of product identifiers in healthcare and to provide clarification for maintenance of these specific product identifiers.
· Real-Time Prescription Benefit Standard – developed a real-time pharmacy benefit inquiry from a provider EMR application to: leverage pharmacy industry standards and technology infrastructure, to deliver an accurate, pharmacy specific, "Patient Pay Amount" for a proposed medication and quantity and to collaboratively align stakeholders.

# ANSI Accredited Standards Developer

## NCPDP - National Council for Prescription Drug Programs

### Enrollment in the 2025 Consensus Group

Enrollment in the 2025 Consensus Group opens Monday, January 13, 2025 and closes at 8:00 p.m. EST on Friday, February 14, 2025. Information concerning the Consensus Group registration process is available by contacting:
Margaret Weiker, National Council for Prescription Drug Programs, 9240 East Raintree Drive, Scottsdale, AZ 85260
Phone: (480) 477-1000; Email: mweiker@ncpdp.org

**Standards (page 2 of 2):**
· Retiree Drug Subsidy Standard – developed to assist in the automation of summarized drug cost and related data transfer from one processor/pharmacy benefit manager to another processor/ pharmacy benefit manager for continuation of the CMS Retiree Drug Subsidy (RDS) cost data reporting by the receiving entity.
· SCRIPT Standard – developed for transmitting prescription information electronically between prescribers, providers, and other entities.
· Specialized Standard – developed for transmitting information electronically between prescribers, providers, and other entities. The standard addresses the electronic transmission of census information about a patient between a facility and a pharmacy, medication therapy management transactions between providers, payers, pharmacies, and other entities. It will include other transactions for electronic exchanges between these entities in the future.
· Specialty Pharmacy Data Reporting Standard - provides a standardized format for the data submitted by specialty pharmacy to drug manufacturers/others to support programs and agreements between the parties.
· State Medicaid Provider File Standard - developed a standard by which state Medicaid agencies or other entities could communicate their provider data with the MCOs/PBMs in a consistent and streamlined manner.
· Telecommunication Standard – developed a standardized format for electronic communication of claims and other transactions between pharmacy providers, insurance carriers, third-party administrators, and other responsible parties.
· Uniform Healthcare Payer Data Standard – developed a standard format for pharmacy claim data to support the reporting requirements of claim data to states or their designees.

# ANSI Accredited Standards Developer

## RESNA - Rehabilitation Engineering and Assistive Technology Society of North America

**Call for Members and RESNA Meeting Notice**

**RESNA Committees seeking Consumers, Manufacturers/Testing Labs, and Government members:**
1. RESNA Standards Committee on Adaptive Golf Cars (AGC): Adaptive golf cars are equipped with hand controls and a swivel seat enabling a golfer with a mobility impairment to play golf. This standard affects manufacturers of adaptive golf cars, golf course operators, mobility-impaired users of adaptive golf cars, local governments, intergovernmental risk pools, and individuals or organizations (public or private) that have an interest in the safety of adaptive golf cars.
2. RESNA Standards Committee on Emergency Stair Travel Devices for Individuals with Disabilities (ESTD): These standards affect individuals with mobility impairments, caregivers and organizations representing the technical needs of persons with mobility impairments, life safety operators, building owners and managers, life safety technology designators, code development and enforcement professionals, and manufacturers, researchers, designers, and test laboratories of emergency stair travel devices.
3. RESNA Standards Committee on Wheelchairs and Transportation (COWHAT): The RESNA COWHAT creates standards to improve safety, accessibility, and usability for people who stay seated in their wheelchairs for travel. The group meets quarterly. We are revising our Volume 4 standards and are looking for people to join our team. We especially need to hear from consumers, advocates, caregivers, transit providers, and clinicians to make sure our standards are highly effective.

**Upcoming RESNA Meetings:** RESNA Standards Committee on Ground and Floor Surfaces (GFS)
Tuesday, January 21, 2025 at 1:00 pm Eastern
Tuesday, March 18, 2025 at 1:00 pm Eastern
Tuesday, May 20, 2025 at 1:00 pm Eastern
Tuesday, July 15, 2025 at 1:00 pm Eastern
Tuesday, September 16, 2025 at 1:00 pm Eastern
Tuesday, November 18, 2025 at 1:00 pm Eastern

If you would like to attend a meeting, please contact Kennedy Smith at technicalstandards@resna.org.

## ACP (American Clean Power Association)

1299 Pennsylvania Ave. NW, Suite 1300, Washington, DC 20004 | dbrown@cleanpower.org, www.cleanpower.org

BSR/ACP 6000-2-202x, Solar Photovoltaic (PV) Energy Entry-level Technician - Minimum Standard - Project Intent (new standard)

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201 | jyeh2@ahrinet.org, www.ahrinet.org

BSR/AHRI Standard 1560-202x (I-P), Method for Calculation of Commercial Boiler Standard Thermal Efficiency (new standard)

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

275 West Street, Suite 107, Annapolis, MD 21401 | ambria.frazier@x9.org, www.x9.org

BSR X9.103-2004 (R202x), Motor Vehicle Retail Sale and Lease Electronic Contracting (reaffirmation of ANSI X9.103-2004 (R2018))

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

275 West Street, Suite 107, Annapolis, MD 21401 | ambria.frazier@x9.org, www.x9.org

BSR X9.110-202x, Transfer of Location of Electronic Contracts (reaffirmation of ANSI X9.110-2008 (R2020))

### AWS (American Welding Society)

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | jrosario@aws.org, www.aws.org

BSR/AWS C4.9/C4.9M-202x, Recommended Practices for Oxyacetylene Cutting of Steel (revision of ANSI/AWS C4.9/C4.9M-2024)

### CSA (CSA America Standards Inc.)

8501 East Pleasant Valley Road, Cleveland, OH 44131-5575 | ansi.contact@csagroup.org, www.csagroup.org

BSR/CSA NGV 5.1-202x, Residential fuelling appliances (RFA) (revision of ANSI/CSA NGV 5.1-2022)

### CSA (CSA America Standards Inc.)

8501 East Pleasant Valley Road, Cleveland, OH 44131-5575 | ansi.contact@csagroup.org, www.csagroup.org

BSR/CSA NGV 5.3-202x, Mobile refueling appliances (MFA) (new standard)

### ECIA (Electronic Components Industry Association)

13873 Park Center Road, Suite 315, Herndon, VA 20171 | ldonohoe@ecianow.org, www.ecianow.org

BSR/EIA 364-1006-202x, Environmental Test Methodology for Assessing the Performance of Electrical Connectors and Sockets Used in Single Phase Immersion Cooling Applications (new standard)

### MHI (Material Handling Industry)

8720 Red Oak Boulevard, Suite 201, Charlotte, NC 28217 | pdavison@mhi.org, www.mhi.org

BSR MH32.1-202X, Stairs, Ladders, and Open-Edge Guards for Use with Material Handling Structures (revision of ANSI/MH32.1-2018)

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105 | mmilla@nsf.org, www.nsf.org

BSR/NSF 14-202x (i149r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14 -2023)

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105 | mmilla@nsf.org, www.nsf.org

BSR/NSF 14-202x (i150r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14 -2023)

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105 | mmilla@nsf.org, www.nsf.org

BSR/NSF 53-202x (i162r1), Drinking Water Treatment Units - Health Effects (revision of ANSI/NSF 53-2023)

### NSF (NSF International)

789 N Dixboro Rd, Ann Arbor, MI 48105 | bfreeman@nsf.org, www.nsf.org

BSR/NSF/CAN 50-202x (i209r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2024)

### NSF (NSF International)

789 N Dixboro Rd, Ann Arbor, MI 48105 | bfreeman@nsf.org, www.nsf.org

BSR/NSF/CAN 50-202x (i215r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2024)

### NSF (NSF International)

789 N Dixboro Rd, Ann Arbor, MI 48105 | bfreeman@nsf.org, www.nsf.org

BSR/NSF/CAN 50-202x (i216r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2024)

### ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | michael.niedermayer@ul.org, https://ulse.org/

BSR/UL 61058-2-5-2020 (R202x), Standard for Safety for Switches for Appliances - Part 2-5: Particular Requirements for Change-Over Selectors (reaffirmation of ANSI/UL 61058-2-5-2020)

# American National Standards (ANS) Process

Please visit ANSI's website (www.ansi.org) for resources that will help you to understand, administer and participate in the American National Standards (ANS) process. Documents posted at these links are updated periodically as new documents and guidance are developed, whenever ANS-related procedures are revised, and routinely with respect to lists of proposed and approved ANS. The main ANS-related linkis www.ansi.org/asd and here are some direct links as well as highlights of information that is available:

## Where to find Procedures, Guidance, Interpretations and More…

### Please visit ANSI's website (www.ansi.org)

• ANSI Essential Requirements: Due process requirements for American National Standards (always current edition):

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

• Accreditation information – for potential developers of American National Standards (ANS):

www.ansi.org/sdoaccreditation

• ANS Procedures, ExSC Interpretations and Guidance (including a slide deck on how to participate in the ANS process and the BSR-9 form):

www.ansi.org/asd

• Lists of ANSI-Accredited Standards Developers (ASDs), Proposed ANS and Approved ANS:

www.ansi.org/asd

• American National Standards Key Steps:

www.ansi.org/anskeysteps

• American National Standards Value:

www.ansi.org/ansvalue

• ANS Web Forms for ANSI-Accredited Standards Developers:

https://www.ansi.org/portal/psawebforms/

• Information about standards Incorporated by Reference (IBR):

https://ibr.ansi.org/

• ANSI - Education and Training:

www.standardslearn.org

# American National Standards 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)

Home Innovation (Home Innovation Research Labs)

IES (Illuminating Engineering Society)

ITI (InterNational Committee for Information Technology Standards)

MHI (Material Handling Industry)

NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)

NCPDP (National Council for Prescription Drug Programs)

NEMA (National Electrical Manufacturers Association)

NFRC (National Fenestration Rating Council)

NISO (National Information Standards Organization)

NSF (NSF International)

PHTA (Pool and Hot Tub Alliance)

RESNET (Residential Energy Services Network, Inc.)

SAE (SAE International)

TCNA (Tile Council of North America)

TIA (Telecommunications Industry Association)

TMA (The Monitoring Association)

ULSE (UL Standards & Engagement)

To obtain additional information with regard to these standards, including contact information at the ANSI Accredited Standards Developer, please visit ANSI Online at www.ansi.org/asd, select “American National Standards Maintained Under Continuous Maintenance.” Questions? psa@ansi.org.

# ANSI-Accredited Standards Developers (ASD) Contacts

The addresses listed in this section are to be used in conjunction with standards listed in PINS, Call for Comment, Call for Members 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 the PSA Department at psa@ansi.org.

**AAFS**
American Academy of Forensic Sciences
410 North 21st Street
Colorado Springs, CO 80904
www.aafs.org

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Miami, FL 33166
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**CSA**
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18927 Hickory Creek Drive, Suite 220
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# ISO & IEC Draft International Standards

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

**COMMENTS**

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

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

**ORDERING INSTRUCTIONS**

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

## ISO Standards

### Agricultural food products (TC 34)

ISO/DIS 11027, Pepper and pepper oleoresins - Determination of piperine content - Method using high-performance liquid chromatography - 3/17/2025, $40.00

### Anaesthetic and respiratory equipment (TC 121)

IEC/DIS 80601-2-30,, FREE

### Building environment design (TC 205)

ISO/DIS 24359-1, Building commissioning process planning - Part 1: New buildings - 3/15/2025, $93.00

### Dentistry (TC 106)

ISO/DIS 10650, Dentistry - Powered polymerization activators - 3/13/2025, $67.00

### Fine ceramics (TC 206)

ISO/DIS 17168-1, Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for air-purification performance of semiconducting photocatalytic materials under indoor lighting environment - Part 1: Removal of nitric oxide - 3/20/2025, $62.00

ISO/DIS 17168-2, Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for air-purification performance of semiconducting photocatalytic materials under indoor lighting environment - Part 2: Removal of acetaldehyde - 3/20/2025, $67.00

ISO/DIS 17168-4, Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for air-purification performance of semiconducting photocatalytic materials under indoor lighting environment - Part 4: Removal of formaldehyde - 3/20/2025, $53.00

### Fire safety (TC 92)

ISO/DIS 10295-1, Fire tests for building elements and components - Fire testing of service installations - Part 1: Penetration seals - 3/17/2025, $88.00

### Personal safety - Protective clothing and equipment (TC 94)

ISO 12312-1:2022/DAmd 1, - Amendment 1: Eye and face protection - Sunglasses and related eyewear - Part 1: Sunglasses for general use - Amendment 1 - 3/20/2025, $40.00

### Photography (TC 42)

ISO/DIS 21139-22, Permanence and durability of commercial prints - Part 22: Backlit display in indoor or shaded outdoor conditions - Light stability - 3/17/2025, $88.00

### Plastics pipes, fittings and valves for the transport of fluids (TC 138)

ISO/DIS 11301-1, Piping systems for rehabilitation of underground gas supply networks - Part 1: Polyethylene (PE) material - 3/20/2025, $107.00

### Refractories (TC 33)

ISO/DIS 14720-1, Testing of ceramic materials - Determination of sulfur in non-oxidic ceramic raw materials and ceramic materials - Part 1: Infrared measurement methods - 3/16/2025, $53.00

### Refrigeration (TC 86)

ISO/DIS 19967-3, Air to water Heat pumps - Testing and rating for performance - - Part 3: Combined hot water supply with space heating and/or space cooling - 3/16/2025, $107.00

**Road vehicles (TC 22)**

ISO/DIS 3888-2, Passenger cars - Test track for a severe lane-change manoeuvre - Part 2: Obstacle avoidance - 3/17/2025, $40.00

**Rubber and rubber products (TC 45)**

ISO/DIS 3994, Plastics hoses - Helical-thermoplastic-reinforced thermoplastics hoses for suction and discharge of aqueous materials - Specification - 3/16/2025, $62.00

ISO/DIS 19013-1, Rubber hoses and tubing for fuel circuits for internal combustion engines - Specification - Part 1: Diesel fuels - 3/16/2025, $71.00

**Solid biofuels (TC 238)**

ISO/DIS 19743, Solid biofuels - Determination of content of heavy extraneous materials larger than 3,15 mm - 3/14/2025, $40.00

**Steel (TC 17)**

ISO/DIS 10280, Steel and iron - Determination of titanium content - Diantipyrylmethane spectrometric method - 3/16/2025, $58.00

**Surface chemical analysis (TC 201)**

ISO/DIS 16666, Surface chemical analysis - Total reflection X-ray fluorescence - Principles and general requirements - 3/13/2025, $88.00

**Tobacco and tobacco products (TC 126)**

ISO/DIS 15592-2, Fine-cut tobacco and smoking articles made from it - Methods of sampling, conditioning and analysis - Part 2: Atmosphere for conditioning and testing - 3/17/2025, $40.00

**Tourism and related services (TC 228)**

ISO/DIS 20525, Tourism and related services - Semantics applied to tourism destinations - 3/17/2025, $119.00

**Valves (TC 153)**

ISO/DIS 5210, Industrial valves - Multi-turn actuator attachments - 3/20/2025, $77.00

ISO/DIS 5211, Industrial valves - Part-turn actuator attachments - 3/17/2025, $93.00

ISO/DIS 22109, Industrial valves - Gearbox for valves - 3/16/2025, $62.00

## ISO/IEC JTC 1, Information Technology

ISO/IEC 18033-2:2006/DAmd 2, - Amendment 2: Information technology - Security techniques - Encryption algorithms - Part 2: Asymmetric ciphers - Amendment 2 - 3/15/2025, $125.00

ISO/IEC/IEEE DIS 24748-4, Systems and software engineering - Life cycle management - Part 4: Systems engineering management planning - 3/20/2025, $125.00

ISO/IEC/IEEE DIS 23612, Software and systems engineering - Incident management - 3/17/2025, $107.00

ISO/IEC/IEEE DIS 24748-7, Systems and software engineering - Life cycle management - Part 7: Application of systems engineering on defense programs - 3/14/2025, $112.00

# IEC Standards

**Cables, wires, waveguides, r.f. connectors, and accessories for communication and signalling (TC 46)**

46F/686/CDV, IEC 60153-2 ED4: Hollow metallic waveguides - Part 2: Relevant specifications for ordinary rectangular waveguides, 03/21/2025

46/1035/FDIS, IEC 62037-1 ED3: Passive RF and microwave devices, intermodulation level measurement - Part 1: General requirements and measuring methods, 02/07/2025

**Capacitors and resistors for electronic equipment (TC 40)**

40/3191/CDV, IEC 60384-14-1 ED4: Fixed capacitors for use in electronic equipment - Part 14-1: Blank detail specification - Fixed capacitors for electromagnetic interference suppression and connection to the supply mains - Assessment level DZ, 03/21/2025

40/3192/CDV, IEC 60384-14-2 ED3: Fixed capacitors for use in electronic equipment - Part 14-2: Blank detail specification - Fixed capacitors for electromagnetic interference suppression and connection to the supply mains - Safety tests only, 03/21/2025

**Electrical accessories (TC 23)**

23/1145/CD, IEC 61535/AMD1 ED3: Amendment 1 - Installation couplers intended for permanent connection in fixed installations, 02/21/2025

23/1146/CD, IEC 61535/AMD1/FRAG1 ED3: Fragment 1 - Amendment 1 - Installation couplers intended for permanent connection in fixed installations, 02/21/2025

23/1147/CD, IEC 61535/AMD1/FRAG2 ED3: Fragment 2 - Amendment 1 - Installation couplers intended for permanent connection in fixed installations, 02/21/2025

**Electromagnetic compatibility (TC 77)**

77A/1237/DISH, IEC 61000-3-2/AMD2/ISH1 ED5: Interpretation Sheet 1 - Amendment 2 - Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase), 02/07/2025

77A/1238/DISH, IEC 61000-3-3/AMD2/ISH1 ED3: Interpretation Sheet 1 - Amendment 2 - Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤16 A per phase and not subject to conditional connection, 02/07/2025

77B/896/FDIS, IEC 61000-4-2 ED3: Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test, 02/07/2025

**Environmental conditions, classification and methods of test (TC 104)**

104/1084/CDV, IEC 60721-3-5 ED3: Classification of environmental conditions - Part 3: Classificationof groups of environmental parameters and their severities -Section 5: Ground vehicle installations, 03/21/2025

104/1085/CDV, IEC 60721-3-7 ED3: Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities - Section 7: Portable and non-stationary use, 03/21/2025

**Fibre optics (TC 86)**

86A/2537/FDIS, IEC 60794-1-307 ED1: Optical fibre cables - Part 1-307: Generic specification - Basic optical cable test procedures - Cable element test methods - Tube kinking, method G7, 02/07/2025

86B/4995/FDIS, IEC 61753-084-02 ED1: Fibre optic interconnecting devices and passive components - Performance standard - Part 084-02: Non connectorised single-mode 980/1550 nm WWDM devices for category C - Indoor controlled environment, 02/07/2025

86B/4998/FDIS, IEC 61753-086-02 ED1: Fibre optic interconnecting devices and passive components - Performance standard - Part 086-02: Non-connectorized single-mode bidirectional 1490 / 1550 nm downstream and 1310 nm upstream WWDM devices for category C - Indoor controlled environment, 02/07/2025

86B/4996/CD, IEC 61754-4/AMD1 ED3: Amendment 1 - Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 4: Type SC connector family, 02/21/2025

86B/4997/CD, IEC 61754-6/AMD1 ED3: Amendment 1 - Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 6: Type MU connector family, 02/21/2025

**Fuel Cell Technologies (TC 105)**

105/1095/FDIS, IEC 62282-6-401 ED1: Fuel cell technologies - Part 6-401: Micro fuel cell power systems - Power and data interchangeability - Performance test methods for laptop computers, 02/07/2025

**Industrial-process measurement and control (TC 65)**

65E/1147/CDV, IEC 62264-2 ED3: Enterprise-control system integration - Part 2: Object and attributes for enterprise-control system integration, 03/21/2025

**Lamps and related equipment (TC 34)**

34/1278/CDV, IEC 63545 ED1: Horticultural lighting - Luminaires for horticultural lighting - Safety, 03/21/2025

**Magnetic alloys and steels (TC 68)**

68/780/CDV, IEC 60404-1/AMD1 ED3: Amendment 1 - Magnetic materials - Part 1: Classification, 03/21/2025

**Magnetic components and ferrite materials (TC 51)**

51/1531/CDV, IEC 61332 ED4: Soft ferrite material classification, 03/21/2025

**Nuclear instrumentation (TC 45)**

45B/1079/CD, IEC 62523 ED2: Radiation protection instrumentation - Cargo/vehicle radiographic inspection system, 02/21/2025

**Performance of household electrical appliances (TC 59)**

59D/526(F)/FDIS, IEC 60704-2-4 ED4: Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-4: Particular requirements for washing machines and spin extractors, 01/17/2025

**Safety of household and similar electrical appliances (TC 61)**

61/7371/CD, IEC 60335-2-115 ED2: Household and similar electrical appliances - Safety - Part 2-115: Particular requirements for skin beauty care appliances, 02/21/2025

61/7382/CD, IEC 60335-2-125 ED1: Household and similar electrical appliances - Safety - Part 2-125: Particular requirements for breast pumps for expressing breast milk, 02/21/2025

**Semiconductor devices (TC 47)**

47F/486/CDV, IEC 62047-4 ED2: Semiconductor devices - Micro-electromechanical devices - Part 4: Generic specification for MEMS, 03/21/2025

**Surface mounting technology (TC 91)**

91/1999(F)/FDIS, IEC 62878-2-603 ED1: Device embedding assembly technology - Part 2-603: Guideline for stacked electronic module - Test method of intra-module electrical connectivity, 01/31/2025

# Newly Published ISO & IEC Standards

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

## IEC Standards

**Safety of household and similar electrical appliances (TC 61)**

S+ IEC 60335-2-25-EXV-RLV Ed. 8.0 en:2024 (Redline version),
Household and similar electrical appliances - Safety - Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens, $1422.00

S+ IEC 60335-2-90-EXV-RLV Ed. 5.0 en:2024 (Redline version),
Household and similar electrical appliances - Safety - Part 2-90: Particular requirements for commercial microwave ovens, $1607.00

S+ IEC 60335-2-110-EXV-RLV Ed. 2.0 en:2024 (Redline version),
Household and similar electrical appliances - Safety - Part 2 -110: Particular requirements for commercial microwave appliances with insertion or contacting applicators, $1422.00

# International Organization for Standardization (ISO)

## Call for comment on ISO 26000:2010

### Comment Deadline: January 17, 2025

ISO has initiated a systematic review of ISO 26000:2010 – "*Guidance on social responsibility*", which has the following scope statement:

*ISO 26000:2010 provides guidance to all types of organizations, regardless of their size or location, on:*

- *concepts, terms and definitions related to social responsibility;*
- *the background, trends and characteristics of social responsibility;*
- *principles and practices relating to social responsibility;*
- *the core subjects and issues of social responsibility;*
- *integrating, implementing and promoting socially responsible behaviour throughout the organization and, through its policies and practices, within its sphere of influence;*
- *identifying and engaging with stakeholders; and*
- *communicating commitments, performance and other information related to social responsibility.*

*ISO 26000:2010 is intended to assist organizations in contributing to sustainable development. It is intended to encourage them to go beyond legal compliance, recognizing that compliance with law is a fundamental duty of any organization and an essential part of their social responsibility. It is intended to promote common understanding in the field of social responsibility, and to complement other instruments and initiatives for social responsibility, not to replace them.*

*In applying ISO 26000:2010, it is advisable that an organization take into consideration societal, environmental, legal, cultural, political and organizational diversity, as well as differences in economic conditions, while being consistent with international norms of behaviour.*

*ISO 26000:2010 is not a management system standard. It is not intended or appropriate for certification purposes or regulatory or contractual use. Any offer to certify, or claims to be certified, to ISO 26000 would be a misrepresentation of the intent and purpose and a misuse of ISO 26000:2010. As ISO 26000:2010 does not contain requirements, any such certification would not be a demonstration of conformity with ISO 26000:2010.*

*ISO 26000:2010 is intended to provide organizations with guidance concerning social responsibility and can be used as part of public policy activities. However, for the purposes of the Marrakech Agreement establishing the World Trade Organization (WTO), it is not intended to be interpreted as an "international standard", "guideline" or "recommendation", nor is it intended to provide a basis for any presumption or finding that a measure is consistent with WTO obligations. Further, it is not intended to provide a basis for legal actions, complaints, defences or other claims in any international, domestic or other proceeding, nor is it intended to be cited as evidence of the evolution of customary international law.*

*ISO 26000:2010 is not intended to prevent the development of national standards that are more specific, more demanding, or of a different type.*

ANSI is seeking U.S. Stakeholders' input on ISO 26000:2010 to help ANSI determine if ANSI should vote revise, reconfirm as is, or withdraw the standard. Anyone wishing to review ISO 26000:2010 can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on **Friday, January 24, 2025.**

# International Organization for Standardization (ISO)

## Call for U.S. TAG Administrator

### ISO/TC 262 - Risk Management

**Comment Deadline: January 3, 2025**

ANSI has been informed that the American Society of Safety Professionals (ASSP), the ANSI-accredited U.S. TAG Administrator for ISO/TC 262, wishes to relinquish their role as U.S. TAG Administrator.

ISO/TC 262 operates under the following scope:

*Standardization in the field of risk management*

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

## Call for U.S. TAG Administrator

### ISO/TC 321 – Transaction assurance in E-commerce

**Comment Deadline: January 17, 2025**

ANSI has been informed that Accredited Standards Committee X9, Inc. Financial Industry Standards (ASC X9), the ANSI-accredited U.S. TAG Administrator for ISO/TC 321, wishes to relinquish their role as U.S. TAG Administrator.

ISO/TC 321 operates under the following scope:

*Standardization in the field of "transaction assurance in e- commerce related upstream/downstream processes", including the following:*
· *Assurance of transaction process in e-commerce (including easier access to e-platforms and estores);*
· *Protection of online consumer rights including both prevention of online disputes and resolution process;*
· *Interoperability and admissibility of inspection result data on commodity quality in cross-border e-commerce;*
· *Assurance of e-commerce delivery to the final consumer.*

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

# International Organization for Standardization (ISO)

## Establishment of ISO/IEC Joint Technical Committee

### Smart and Sustainable Cities and Communities

**Comment Deadline: February 7, 2025**

AFNOR, the ISO member body for France, has submitted to ISO a proposal to establish a new ISO/IEC Joint Technical Committee (JTC) on Smart and Sustainable Cities and Communities to consolidate the range of different initiatives into one structure.

Here is the proposed scope statement:

*Standardization in the field of smart and sustainable cities and communities, including the development of requirements, frameworks, guidance and supporting techniques and tools related to the achievement of sustainable development.*

*The scope includes resilience and disaster risk reduction, sustainability and sustainable mobility and transport, community infrastructure, climate change mitigation and adaptation, digitalization, and ICT and system aspects only as it pertains to and helps all cities and communities and their interested parties, in both rural and urban areas, become more sustainable and smarter. It also fosters the development of standards with electrotechnology to support the integration, interoperability and effectiveness of city systems.*

*It recognizes the strategic importance of collaborating with, building on and highlighting the work of existing ISO, IEC and Joint Technical Committees, to ensure a coherent set of standards.*

*JTC4 is responsible for the overall system aspects and infrastructure aspects of smart and sustainable cities and communities, as well as the coordination of the overall ISO/IEC work program in this field including the schedule for standards development, taking into account the work of existing international standardization bodies and existing work of ISO and IEC technical committees"*

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, February 7, 2025.

# Registration of Organization Names in the United States

The Procedures for Registration of Organization Names in the United States of America (document ISSB 989) require that alphanumeric organization names be subject to a 90-day Public Review period prior to registration. For further information, please contact the Registration Coordinator at (212) 642-4975.
When organization names are submitted to ANSI for registration, they will be listed here alphanumerically. Alphanumeric names appearing for the first time are printed in bold type. Names with confidential contact information, as requested by the organization, list only public review dates.

## Public Review

NOTE: Challenged alphanumeric names are underlined. The Procedures for Registration provide for a challenge process, which follows in brief. For complete details, see Section 6.4 of the Procedures.

A challenge is initiated when a letter from an interested entity is received by the Registration Coordinator. The letter shall identify the alphanumeric organization name being challenged and state the rationale supporting the challenge. A challenge fee shall accompany the letter. After receipt of the challenge, the alphanumeric organization name shall be marked as challenged in the Public Review list. The Registration Coordinator shall take no further action to register the challenged name until the challenge is resolved among the disputing parties.

# Proposed Foreign Government Regulations

## Call for Comment

U.S. manufacturers, exporters, trade associations, U.S domiciled standards development organizations and conformity assessment bodies, consumers, or U.S. government agencies 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 to the WTO Secretariat in Geneva, Switzerland proposed technical regulations that may significantly affect trade. In turn, the Secretariat circulates the notifications along with the full texts. 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 Enquiry Point for the WTO TBT Agreement is located at the National Institute of Standards and Technology (NIST) in the Standards Coordination Office (SCO). The Enquiry Point relies on the WTO's ePing SPS&TBT platform to distribute the notified proposed foreign technical regulations (notifications) and their full texts available to U.S. stakeholders. Interested U.S. parties can register with ePing to receive e-mail alerts when notifications are added from countries and industry sectors of interest to them. The USA WTO TBT Enquiry 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 prior to submitting comments. For non-notified foreign technical barriers to trade for non-agricultural products, stakeholders are encouraged to reach out as early as possible to the Office of Trade Agreements Negotiations and Compliance (TANC) in the International Trade Administration (ITA) at the Department of Commerce (DOC), which specializes in working with U.S. stakeholders to remove unfair foreign government-imposed trade barriers. The U.S. Department of Agriculture's Foreign Agricultural Service actively represents the interests of U.S. agriculture in the WTO committees on Agriculture, Sanitary and Phytosanitary (SPS) measures and Technical Barriers to Trade (TBT). FAS alerts exporters to expected changes in foreign regulations concerning food and beverage and nutrition labeling requirements, food packaging requirements, and various other agriculture and food related trade matters. Working with other Federal agencies and the private sector, FAS coordinates the development and finalization of comments on measures proposed by foreign governments to influence their development and minimize the impact on U.S. agriculture exports. FAS also contributes to the negotiation and enforcement of free trade agreements and provides information about tracking regulatory changes by WTO Members. The Office of the United States Trade Representative (USTR) WTO & Multilateral Affairs (WAMA) office has responsibility for trade discussions and negotiations, as well as policy coordination, on issues related technical barriers to trade and standards-related activities.

**Online Resources:**
WTO's ePing SPS&TBT platform: https://epingalert.org/
Register for ePing: https://epingalert.org/en/Account/Registration
WTO committee on Agriculture, Sanitary and Phytosanitary (SPS) measures:
https://www.wto.org/english/tratop_e/sps_e/sps_e.htm
WTO Committee on Technical Barriers to Trade (TBT): https://www.wto.org/english/tratop_e/tbt_e/tbt_e.htm
USA TBT Enquiry Point: https://www.nist.gov/standardsgov/usa-wto-tbt-enquiry-point
Comment guidance:
https://www.nist.gov/standardsgov/guidance-us-stakeholders-commenting-notifications-made-wto-members-tbt-committee
NIST: https://www.nist.gov/
TANC: https://www.trade.gov/office-trade-agreements-negotiation-and-compliance-tanc
Examples of TBTs: https://tcc.export.gov/report_a_barrier/trade_barrier_examples/index.asp.
Report Trade Barriers: https://tcc.export.gov/Report_a_Barrier/index.asp.
USDA FAS: https://www.fas.usda.gov/about-fas
FAS contribution to free trade agreements: https://www.fas.usda.gov/topics/trade-policy/trade-agreements
Tracking regulatory changes: https://www.fas.usda.gov/tracking-regulatory-changes-wto-members
USTR WAMA: https://ustr.gov/trade-agreements/wto-multilateral-affairs/wto-issues/technical-barriers-trade
Contact the USA TBT Enquiry Point at (301) 975-2918; E usatbtep@nist.gov or notifyus@nist.gov.

# 2025 Standards Action Publishing | Volume No. 56

*The "Submit End" deadline applies to forms received by Monday, 5:00 PM ET

Based on the dates below, an ANSI-Developer can anticipate that a request made between the SUBMIT START date and the *SUBMIT END 5 PM date will appear in ANSI Standards Action on the SA PUBLISHED date.
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| ISSUE | SUBMIT START | *SUBMIT END 5 PM | SA PUBLISHED | 30-DAY PR END | 45-DAY PR END | 60-DAY PR END |
|---|---|---|---|---|---|---|
| 01 | 12/17/2024 | 12/23/2024 | Jan 3 | 2/2/2025 | 2/17/2025 | 3/4/2025 |
| 02 | 12/24/2024 | 12/30/2024 | Jan 10 | 2/9/2025 | 2/24/2025 | 3/11/2025 |
| 03 | 12/31/2024 | 1/6/2025 | Jan 17 | 2/16/2025 | 3/3/2025 | 3/18/2025 |
| 04 | 1/7/2025 | 1/13/2025 | Jan 24 | 2/23/2025 | 3/10/2025 | 3/25/2025 |
| 05 | 1/14/2025 | 1/20/2025 | Jan 31 | 3/2/2025 | 3/17/2025 | 4/1/2025 |
| 06 | 1/21/2025 | 1/27/2025 | Feb 7 | 3/9/2025 | 3/24/2025 | 4/8/2025 |
| 07 | 1/28/2025 | 2/3/2025 | Feb 14 | 3/16/2025 | 3/31/2025 | 4/15/2025 |
| 08 | 2/4/2025 | 2/10/2025 | Feb 21 | 3/23/2025 | 4/7/2025 | 4/22/2025 |
| 09 | 2/11/2025 | 2/17/2025 | Feb 28 | 3/30/2025 | 4/14/2025 | 4/29/2025 |
| 10 | 2/18/2025 | 2/24/2025 | Mar 7 | 4/6/2025 | 4/21/2025 | 5/6/2025 |
| 11 | 2/25/2025 | 3/3/2025 | Mar 14 | 4/13/2025 | 4/28/2025 | 5/13/2025 |
| 12 | 3/4/2025 | 3/10/2025 | Mar 21 | 4/20/2025 | 5/5/2025 | 5/20/2025 |
| 13 | 3/11/2025 | 3/17/2025 | Mar 28 | 4/27/2025 | 5/12/2025 | 5/27/2025 |
| 14 | 3/18/2025 | 3/24/2025 | Apr 4 | 5/4/2025 | 5/19/2025 | 6/3/2025 |
| 15 | 3/25/2025 | 3/31/2025 | Apr 11 | 5/11/2025 | 5/26/2025 | 6/10/2025 |
| 16 | 4/1/2025 | 4/7/2025 | Apr 18 | 5/18/2025 | 6/2/2025 | 6/17/2025 |
| 17 | 4/8/2025 | 4/14/2025 | Apr 25 | 5/25/2025 | 6/9/2025 | 6/24/2025 |
| 18 | 4/15/2025 | 4/21/2025 | May 2 | 6/1/2025 | 6/16/2025 | 7/1/2025 |
| 19 | 4/22/2025 | 4/28/2025 | May 9 | 6/8/2025 | 6/23/2025 | 7/8/2025 |
| 20 | 4/29/2025 | 5/5/2025 | May 16 | 6/15/2025 | 6/30/2025 | 7/15/2025 |
| 21 | 5/6/2025 | 5/12/2025 | May 23 | 6/22/2025 | 7/7/2025 | 7/22/2025 |
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| 23 | 5/20/2025 | 5/26/2025 | Jun 6 | 7/6/2025 | 7/21/2025 | 8/5/2025 |
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| 25 | 6/3/2025 | 6/9/2025 | Jun 20 | 7/20/2025 | 8/4/2025 | 8/19/2025 |
| 26 | 6/10/2025 | 6/16/2025 | Jun 27 | 7/27/2025 | 8/11/2025 | 8/26/2025 |
| 27 | 6/17/2025 | 6/23/2025 | Jul 4 | 8/3/2025 | 8/18/2025 | 9/2/2025 |
| 28 | 6/24/2025 | 6/30/2025 | Jul 11 | 8/10/2025 | 8/25/2025 | 9/9/2025 |
| 29 | 7/1/2025 | 7/7/2025 | Jul 18 | 8/17/2025 | 9/1/2025 | 9/16/2025 |

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|---|---|---|---|---|---|---|
| 30 | 7/8/2025 | 7/14/2025 | Jul 25 | 8/24/2025 | 9/8/2025 | 9/23/2025 |
| 31 | 7/15/2025 | 7/21/2025 | Aug 1 | 8/31/2025 | 9/15/2025 | 9/30/2025 |
| 32 | 7/22/2025 | 7/28/2025 | Aug 8 | 9/7/2025 | 9/22/2025 | 10/7/2025 |
| 33 | 7/29/2025 | 8/4/2025 | Aug 15 | 9/14/2025 | 9/29/2025 | 10/14/2025 |
| 34 | 8/5/2025 | 8/11/2025 | Aug 22 | 9/21/2025 | 10/6/2025 | 10/21/2025 |
| 35 | 8/12/2025 | 8/18/2025 | Aug 29 | 9/28/2025 | 10/13/2025 | 10/28/2025 |
| 36 | 8/19/2025 | 8/25/2025 | Sep 5 | 10/5/2025 | 10/20/2025 | 11/4/2025 |
| 37 | 8/26/2025 | 9/1/2025 | Sep 12 | 10/12/2025 | 10/27/2025 | 11/11/2025 |
| 38 | 9/2/2025 | 9/8/2025 | Sep 19 | 10/19/2025 | 11/3/2025 | 11/18/2025 |
| 39 | 9/9/2025 | 9/15/2025 | Sep 26 | 10/26/2025 | 11/10/2025 | 11/25/2025 |
| 40 | 9/16/2025 | 9/22/2025 | Oct 3 | 11/2/2025 | 11/17/2025 | 12/2/2025 |
| 41 | 9/23/2025 | 9/29/2025 | Oct 10 | 11/9/2025 | 11/24/2025 | 12/9/2025 |
| 42 | 9/30/2025 | 10/6/2025 | Oct 17 | 11/16/2025 | 12/1/2025 | 12/16/2025 |
| 43 | 10/7/2025 | 10/13/2025 | Oct 24 | 11/23/2025 | 12/8/2025 | 12/23/2025 |
| 44 | 10/14/2025 | 10/20/2025 | Oct 31 | 11/30/2025 | 12/15/2025 | 12/30/2025 |
| 45 | 10/21/2025 | 10/27/2025 | Nov 7 | 12/7/2025 | 12/22/2025 | 1/6/2026 |
| 46 | 10/28/2025 | 11/3/2025 | Nov 14 | 12/14/2025 | 12/29/2025 | 1/13/2026 |
| 47 | 11/4/2025 | 11/10/2025 | Nov 21 | 12/21/2025 | 1/5/2026 | 1/20/2026 |
| 48 | 11/11/2025 | 11/17/2025 | Nov 28 | 12/28/2025 | 1/12/2026 | 1/27/2026 |
| 49 | 11/18/2025 | 11/24/2025 | Dec 5 | 1/4/2026 | 1/19/2026 | 2/3/2026 |
| 50 | 11/25/2025 | 12/1/2025 | Dec 12 | 1/11/2026 | 1/26/2026 | 2/10/2026 |
| 51 | 12/2/2025 | 12/8/2025 | Dec 19 | 1/18/2026 | 2/2/2026 | 2/17/2026 |
| 52 | 12/9/2025 | 12/15/2025 | Dec 26 | 1/25/2026 | 2/9/2026 | 2/24/2026 |

**BSR/ASHRAE/ASHE Addendum t**
**to ANSI/ASHRAE/ASHE Standard 170-2021**

## Public Review Draft

# Proposed Addendum t to Standard 170-2021, Ventilation of Health Care Facilities

**First Public Review (December 2024)**
**(Draft shows Proposed Changes to Current Standard)**

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

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

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**ASHRAE, 180 Technology Parkway NW, Peachtree Corners, GA 30092**

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

# FOREWORD

*Proposed Addendum t updates the normative and informative references to the latest publications. Additionally, any specific paragraph references were also updated to reflect the current paragraph numbering of the updated standard.*

***[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the 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 t to 170-2021

***Revise Section 6.2.1 as shown below.***

**6.2.1 AHU Casing**. The casing of the AHU shall be designed to prevent water intrusion, resist corrosion, and permit access for inspection and maintenance. All airstream surfaces of AHUs shall comply with ASHRAE Standard 62.1[1], Section 5.11 ~~5.4~~.

***Revise the Exception to Section 6.3.1.1 as shown below.***

**Exception to 6.3.1.1:**
1. For gas-fired, packaged rooftop units, the separation distance of the unit's outdoor air intake from its flue may be less than 25 ft (8 m). The separation distance shall be greater than or equal to the distance prescribed in ASHRAE Standard 62.1[1], Section 5.4.1.2. ~~Table 5-1, "Air Intake Minimum Separation Distance."~~

***Revise the Exception to Section 6.3.2.2(b) as shown below.***

**Exception to 6.3.2.2(b):** Lower discharge velocity may be permitted when an engineering analysis can demonstrate that the specific design meets the dilution criteria necessary to reduce concentration of hazardous materials in the exhaust to safe levels at all potential receptors. (See ANSI/AIAH Z9.5[3], Section 6.4.6 ~~2.1~~.)

***Revise Section 6.3.2.3 and 6.3.3 as shown below.***

**6.3.2.3 Health Care Facilities with Attached Parking Garages**. In order to minimize the entry of vehicular exhaust into occupiable spaces, health care facilities with attached parking garages shall comply with ASHRAE Standard 62.1[1], Section 5.2 ~~5.17~~.

**6.3.3 Combustion Air**. Fuel-burning appliances, both vented and unvented, shall comply

with ASHRAE Standard 62.1[1], Section 5.15 ~~5.8~~.

***Revise Section 6.7.1 as shown below.***

**6.7.1 General**. Maintain the pressure relationships required in Tables 7-1, 8-1, 8-2, and 9-1 in all modes of HVAC system operation, except as noted in the tables. Spaces that have required pressure relationships shall be served by fully ducted return systems or fully ducted exhaust systems. The following additional surgery and critical-care patient care areas that do not require a pressure relationship to adjacent areas shall also be served by fully ducted return or exhaust systems: recovery rooms, critical and intensive care areas, intermediate care areas, and wound intensive care units (burn units). In inpatient facilities, patient care areas shall use ducted systems for return and exhaust air. Where space pressure relationships are required, the air distribution system design shall maintain them, taking into account recommended maximum filter loading, heating-season lower airflow operation, and cooling-season higher airflow operation. Airstream surfaces of the air distribution system shall comply with ASHRAE Standard 62.1[1], Section 5.11 ~~5.4~~. The air distribution system shall be provided with access doors, panels, or other means to allow convenient access for inspection and cleaning.

***Revise Table 7-1 Note f as shown below.***

f. Higher ventilation rates above the total ach listed shall be used when dictated by the laboratory program requirements and the hazard level of the potential contaminants in each laboratory work area. Lower total ach ventilation rates shall be permitted when a hazard assessment, performed as part of an effective laboratory ventilation management plan per AIHA/ASSE Z9.5[3], determines that either (1) acceptable exposure concentrations in the laboratory work area can be achieved with a lower minimum total ach ventilation rate than is listed in Table 7-1 or (2) a demand control approach with active sensing of contaminants or appropriate surrogates is used as described in ASHRAE Handbook—HVAC Applications[10], Chapter 17 ~~16~~, "Laboratories."

***Revise Section 11 as shown below. The remainder of Section 11 is unchanged.***

**11. NORMATIVE REFERENCES**

1. ASHRAE. 2022 ~~2019~~. ANSI/ASHRAE Standard 62.1, *Ventilation and ~~for~~ Acceptable Indoor Air Quality*. Atlanta: ASHRAE.
2. SMACNA. 2020 ~~2005~~. *HVAC Duct Construction Standards, Metal and Flexible*, Third Edition. Chantilly, VA: Sheet Metal and Air Conditioning Contractors' National Association.
3. AIHA/ASSE. 2022 ~~2012~~. ANSI/AIHA/ASSE Z9.5, *American National Standard for Laboratory Ventilation*. Park Ridge, IL: American Society of Safety Engineers.

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5. GPO. 2024 ~~2013~~. *Code of Federal Regulations*, Title 21, Part 173, Section 310, Boiler Water Additives. Washington, DC: U.S. Government Publishing Office. Available at http://https://www.gpo.gov/fdsys/granule/CFR-2011-title21-vol3/CFR-2011-title21-vol3-sec173-310.

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7. USP. 2023. ~~2014. National Formulary USP 795,~~ *Pharmaceutical Compounding—Nonsterile Preparations <795>*. In: USP-NF. Rockville, MD: USP ~~U.S. Pharmacopeial Convention~~.
8. USP. 2024. ~~2019. National Formulary USP 797,~~ *Pharmaceutical Compounding—Sterile Preparations<797>*. In: USP-NF. Rockville, MD: USP ~~U.S. Pharmacopeial Convention~~.
9. USP. 2020. ~~2017. National Formulary USP 800,~~ *Hazardous Drugs—Handling in Healthcare Settings<800>*. In: USP-NF. Rockville, MD: USP ~~U.S. Pharmacopeial Convention~~.

10. ASHRAE. 2023 ~~2019~~. *ASHRAE Handbook—HVAC Applications*. Atlanta: ASHRAE.
11. NIOSH. n.d. Criteria Documents. Atlanta: National Institute for Occupational Safety and Health. Available at https://www.cdc.gov/niosh/docs/2007-151/default.html ~~http://www.cdc.gov/niosh/pubs/criteria_date_desc_nopubnumbers~~. html.

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13. NFPA. 2024 ~~2018~~. NFPA 99, *Health Care Facilities Code.* Quincy, Massachusetts: National Fire Protection Association.
14. ASHRAE. 2022 ~~2016~~. ANSI/ASHRAE Standard 154, *Ventilation for Commercial Cooking Operations*. Atlanta: ASHRAE.
15. NFPA. 2024 ~~2019~~. NFPA 90A, *Standard for the Installation of Air-Conditioning and Ventilating Systems*. Quincy, MA: National Fire Protection Association.
16. NFPA. 2024 ~~2017~~. NFPA 96, *Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations*. Quincy, MA: National Fire Protection Association.
17. ASHRAE. 2022 ~~2016~~. ANSI/ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings. Atlanta: ASHRAE.

…

***Revise Informative Appendix E as shown below. The remainder of Appendix E is unchanged.***

**INFORMATIVE APPENDIX E**
**INFORMATIVE REFERENCES AND BIBLIOGRAPHY**

…

ASHRAE. 2022a ~~2016a~~. ANSI/ASHRAE Standard 62.2, *Ventilation and Acceptable Indoor Air Quality in Residential Buildings.* Atlanta: ASHRAE.

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ASHRAE. 2023a ~~2017a~~. ANSI/ASHRAE Standard 55, *Thermal Environmental Conditions for Human Occupancy*. Atlanta: ASHRAE.

ASHRAE. 2021b ~~2017b~~. *ASHRAE Handbook—Fundamentals*. Atlanta: ASHRAE.

ASHRAE. 2021 ~~2018~~. ASHRAE Standard 188, *Legionellosis: Risk Management for Building Water Systems*. Atlanta: ASHRAE.

ASHRAE. 2022 ~~2019~~. ANSI/ASHRAE Standard 62.1, *Ventilation for Acceptable Indoor Air Quality*. Atlanta: ASHRAE.

ASHRAE 2023 ~~2020~~. ASHRAE Guideline 12, *Managing the Risk of Legionellosis Associated with Building Water Systems*. Atlanta: ASHRAE.

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PA: American Society for Testing and Materials.

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**BSR/ASHRAE/IES Addendum bv**
**to ANSI/ASHRAE/IES Standard 90.1-2022**

## Public Review Draft

# Proposed Addendum bv to Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings

**First Public Review (Jan 2025)**
**(Draft Shows Proposed Changes to Current Standard)**

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

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE website, www.ashrae.org.
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**ASHRAE, 180 Technology Parkway NW, Peachtree Corners, GA 30092**

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

# FOREWORD

*Section 12 Energy Cost Budget includes equations to remove the fan power from the hypothetical baseline mechanical system. New efficiency metrics were introduced in the Section 6 mechanical equipment tables where SEER and HSPF values were updated to SEER2 and HSPF2 values.*

*These equations apply to baseline systems 3, 4, 9, and 11 when the systems are under 65,000 btu/h. The Department of Energy issued EERE–2014–BT–STD– 0048 which identifies the translation of SEER to SEER2 and HSPF to HSPF2 equivalency. The single package AC and HP had a SEER of 14 with a new rating of SEER2 of 13.4. The single package heat pump HSPF went from 8.0 to an HSPF2 of 6.7. Lacking further industry data, this proposal uses the ratio of the old to new metrics to update the equations:*

***Original Equations (IP):***

$$COP_{nfcooling} = -0.0076 \times SEER^2 + 0.3796 \times SEER$$

$$COP_{nfheating} = -0.0296 \times HSPF^2 + 0.7134 \times HSPF$$

***New Equations (IP):***

$$COP_{nfcooling} = -0.0076 \times (14/13.4*SEER2)^2 + 0.3796 \times (14/13.4*SEER2)$$
$$= -0.0083 \times SEER2^2 + 0.3966 \text{ x } SEER2$$

$$COP_{nfheating} = -0.0296 \times (8/6.7*HSPF2)^2 + 0.7134 \times (8/6.7*HSPF2)$$
$$= -0.0422 \times HSPF2^2 + 0.8518 \text{ x } HSPF2$$

***Original Equations (SI):***

$$COP_{nfcooling} = -0.0885 \times SCOP_C^2 + 1.295 \times SCOP_C$$
$$COP_{nfheating} = -0.3446 \times SCOP_H^2 + 2.434 \times SCOP_H$$

***New Equations (SI):***

$$COP_{nfcooling} = -0.0885 \times (4.1/3.93*SCOP2_C)^2 + 1.295 \times (4.1/3.93*SCOP2_C)$$
$$= -0.0963 \times SCOP2_C^2 + 1.351 \times SCOP2_C$$

$$COP_{nfheating} = -0.3446 \times (2.34/1.96*SCOP_H)^2 + 2.434 \times (2.34/1.96*SCOP_H)$$
$$= -0.4912 \times SCOP2_H^2 + 2.906 \times SCOP2_H$$

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

# Addendum bv to 90.1-2022

### *12.5 Calculation of Design Energy Cost and Energy Cost Budget*

……

**12.5.2 HVAC Systems.**

**……..**

c. **Supply Fan Energy in Certain Package Equipment.** Where *efficiency* ratings include supply fan *energy*, the *efficiency* rating shall be adjusted to remove the supply fan *energy*. For budget *system* Types 3, 4, 6, 8, 9, 10, and 11, calculate the minimum $COP_{nfcooling}$ and $COP_{nfheating}$ using the equation for the applicable performance rating as indicated in Tables 6.8.1-1, 6.8.1-2, 6.8.1-4, and 6.8.1-15. Where a full- and part-load *efficiency* rating is provided in Tables 6.8.1-1, 6.8.1-2, 6.8.1-4, and 6.8.1-15, the full-load equation below shall be used:

*(IP)*

$$COP_{nfcooling} = 7.84E\text{-}8 \times EER \times Q + 0.338 \times EER$$

~~$COP_{nfcooling} = -0.0076 \times SEER^2 + 0.3796 \times SEER$~~

$\underline{COP_{nfcooling} = -0.0083 \times SEER2^2 + 0.3966 \times SEER2}$

(applies to cooling *efficiency* only)

$$COP_{nfheating} = 1.48E\text{-}7 \times COP_{47} \times Q + 1.062 \times COP_{47}$$

(applies to Systems 6 and 9 heating *efficiency* only)

~~$COP_{nfheating} = -0.0296 \times HSPF^2 + 0.7134 \times HSPF$~~

$\underline{COP_{nfheating} = -0.0422 \times HSPF2^2 + 0.8518 \times HSPF2}$

$$COP_{nfcooling} = 0.3322 \times EER - 0.2145$$

(applies to Systems 8 and 10 cooling *efficiency* only)

$COP_{nfheating} = 1.1329 \times COP - 0.214$ (applies to System 8 heating *efficiency* only)

*(SI)*

$$COP_{nfcooling} = 9.13E\text{-}4 \times COPC \times Q + 1.15 \times COPC$$

~~$COP_{nfcooling} = -0.0885 \times SCOP_C^2 + 1.295 \times SCOP_C$~~

$\underline{COP_{nfcooling} = -0.0963 \times SCOP2_C^2 + 1.351 \times SCOP2_C}$

(applies to cooling efficiency only)

$$COP_{nfheating} = 5.05E\text{-}4 \times COP_{H8.3} \times Q + 1.062 \times COP_{H8.3}$$

(applies to Systems 6 and 9 heating efficiency only)

~~$COP_{nfheating} = -0.3446 \times SCOP_H^2 + 2.434 \times SCOP_H$~~

$\underline{COP_{nfheating} = -0.4912 \times SCOP2_H^2 + 2.906 \times SCOP2_H}$

$$COP_{nfcooling} = 1.1338 \times COP - 0.2145$$

(applies to Systems 8 and 10 cooling efficiency only)

$$COP_{nfheating} = 1.1329 \times COP - 0.214$$

(applies to System 8 heating efficiency only)

**BSR/ASHRAE/IES Addendum c**
**to ANSI/ASHRAE/IES Standard 100-2024**

**Public Review Draft**

# Proposed Addendum c to Standard 100-2024, Energy and Emissions Building Performance Standard for Existing Buildings

**First Public Review (January 2025)**
**(Draft Shows Proposed Changes to Current Standard)**

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

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

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**ASHRAE; 180 Technology Parkway; Peachtree Corners, GA 30092**

# FOREWORD

This addendum revises the contents to Section 7.1.2 and 7.1.3 as well as NORMATIVE APPENDIX B to add U.S. Regional Tables for Source Energy Use Intensity Targets and Greenhouse Gas Emissions Intensity (GHGI) Targets to the normative section of the standard to provide Authority Having Jurisdiction (AHJ) organizations or local communities in the U.S. with an option to use regional performance target values. The values shown in these tables were reviewed and approved in ASHRAE Standard 100-2024.

Once this addendum has been published, the new tables will be added in the form of a downloadable spreadsheet on www.ashrae.org/100files. **During this public review period, the tables can be accessed at https://tinyurl.com/3wx89aca**

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

## Addendum c to Std. 100-2024

*Modify Section 7 as follows:*

### 7. ENERGY USE AND GREENHOUSE GAS EMISSIONS ANALYSIS AND TARGET REQUIREMENTS

#### 7.1 Building Type, Energy Use Intensity Targets, and Greenhouse Gas Intensity Targets

…

**7.1.2 Energy Use Intensity Targets** *Energy targets* based on *site energy* are shown in Table 7-2a in both I-P and SI units. *Energy targets* based on *source energy* are shown in Table 7-2b in both I-P and SI units. *Site energy* electricity use and fossil fuel use targets listed in Tables 7-2c and 7-2d are for use in *energy target* calculations by *authorities having jurisdiction*.

All EUI targets ~~and greenhouse gas intensity (GHGI) targets~~ were derived from 2012 Commercial Building Energy Consumption Survey (CBECS) 3 and 2015 Residential Energy Consumption Survey 4 (RECS) data by Oak Ridge National Laboratory (ORNL) and the U.S. Department of Energy (DOE) and represent the 25th bottom (low energy) percentile of energy use by each building category.

The median numbers for each building category from CBECS and RECS data representing all buildings in the building type/activity across all climatic conditions were extrapolated to 20 DOE climate zones using multipliers generated through simulation of a representative building for each group of building categories. Informative Appendix G gives a detailed explanation of EUI target table derivation.

**7.1.2.1 Source Energy Use Intensity Targets with Regional Conversion Factors.** When an AHJ or a local community uses U.S. Regional Electricity Source Energy Conversion Factors in Table 5-3, the Source Energy Use Intensity (EUI) targets shall be the corresponding EUI targets from Table B2, available in section B2 of the Normative Appendix B Alternative Energy Intensity Targets.

**7.1.2.~~1~~2 Source Energy Use Intensity Targets with Custom Source Energy Conversion Factors.**

**…**

**7.1.3 Greenhouse Gas Intensity Targets.** *GHGI targets* are shown in Table 7-4 in both I-P and SI units. *GHGI targets* were derived from *EUI targets* based on *site energy* as described in Section 7.1.2 using the GHG conversion factors shown in Table 5-2.

All *greenhouse gas intensity (GHGI) targets* were derived from 2012 Commercial Building Energy Consumption Survey (CBECS) 3 and 2015 Residential Energy Consumption Survey 4 (RECS) data by Oak Ridge National Laboratory (ORNL) and the U.S. Department of Energy (DOE) and represent the 25th bottom (low energy) percentile of energy use by each building category.

The numbers for each building category were derived from CBECS and RECS data representing all buildings in the building type/activity across all climatic conditions extrapolated to 20 DOE climate zones using multipliers generated through simulation of a representative building for each group of building categories. Informative Appendix G gives a detailed explanation of EUI target table derivation.

**7.1.3.1 Greenhouse Gas Intensity (GHGI) Targets with Regional Conversion Factors.** When an *AHJ* or a local community uses U.S. Regional Electricity Greenhouse Gas Intensity Factors in Table 5-4, the *GHGI targets* shall be the corresponding *GHGI* targets from Table B2, available in section B2 of the Normative Appendix B Alternative Energy Intensity Targets.

**7.1.3.~~1~~2 Greenhouse Gas Intensity Targets with Custom Greenhouse Gas Emission Conversion Factors**

…

*Add section to Normative Appendix B as follows:*

**…**

**B2. ENERGY USE INTENSITY (EUI) AND GREENHOUSE GAS INTENSITY (GHGI) REGIONAL TARGETS TABLES.** The region-specific EUI and GHGI targets Tables are available at www.ashrae.org/100files.

**Table B2**

| | | Source EUI (IP units) | Source EUI (SI units) | GHGI (IP units) | GHGI (SI units) |
|---|---|---|---|---|---|
| AKGD | ASCC Alaska Grid | B2-EUI-AKGD-IP | B2-EUI-AKGD-SI | B2-GHGI-AKGD-IP | B2-GHGI-AKGD-SI |
| AKMS | ASCC Miscellaneous | B2-EUI-AKMS-IP | B2-EUI-AKMS-SI | B2-GHGI-AKMS-IP | B2-GHGI-AKMS-SI |
| ERCT | ERCOT All | B2-EUI-ERCT-IP | B2-EUI-ERCT-SI | B2-GHGI-ERCT-IP | B2-GHGI-ERCT-SI |
| FRCC | FRCC All | B2-EUI-FRCC-IP | B2-EUI-FRCC-SI | B2-GHGI-FRCC-IP | B2-GHGI-FRCC-SI |
| HIMS | HICC Miscellaneous | B2-EUI-HIMS-IP | B2-EUI-HIMS-SI | B2-GHGI-HIMS-IP | B2-GHGI-HIMS-SI |
| HIOA | HICC Oahu | B2-EUI-HIOA-IP | B2-EUI-HIOA-SI | B2-GHGI-HIOA-IP | B2-GHGI-HIOA-SI |
| MROE | MRO East | B2-EUI-MROE-IP | B2-E | | |
| MROW | MRO West | B2-EUI-MROW-IP | B2-E | | |
| NYLI | NPCC Long Island | B2-EUI-NYLI-IP | B2-E | | |
| NEWE | NPCC New England | B2-EUI-NEWE-IP | B2-E | | |
| NYCW | NPCC NYC/Westchest | B2-EUI-NYCW-IP | B2-E | | |
| NYUP | NPCC Upstate NY | B2-EUI-NYUP-IP | B2-E | | |
| RFCE | RFC East | B2-EUI-RFCE-IP | B2-E | | |
| RFCM | RFC Michigan | B2-EUI-RFCM-IP | B2-E | | |
| RFCW | RFC West | B2-EUI-RFCW-IP | B2-E | | |
| SRMW | SERC Midwest | B2-EUI-SRMW-IP | B2-EUI-SRMW-SI | B2-GHGI-SRMW-IP | B2-GHGI-SRMW-SI |
| SRMV | SERC Mississippi Val | B2-EUI-SRMV-IP | B2-EUI-SRMV-SI | B2-GHGI-SRMV-IP | B2-GHGI-SRMV-SI |
| SRSO | SERC South | B2-EUI-SRSO-IP | B2-EUI-SRSO-SI | B2-GHGI-SRSO-IP | B2-GHGI-SRSO-SI |
| SRTV | SERC Tennessee Vall | B2-EUI-SRTV-IP | B2-EUI-SRTV-SI | B2-GHGI-SRTV-IP | B2-GHGI-SRTV-SI |
| SRVC | SERC Virginia/Carolin | B2-EUI-SRVC-IP | B2-EUI-SRVC-SI | B2-GHGI-SRVC-IP | B2-GHGI-SRVC-SI |
| SPNO | SPP North | B2-EUI-SPNO-IP | B2-EUI-SPNO-SI | B2-GHGI-SPNO-IP | B2-GHGI-SPNO-SI |
| SPSO | SPP South | B2-EUI-SPSO-IP | B2-EUI-SPSO-SI | B2-GHGI-SPSO-IP | B2-GHGI-SPSO-SI |
| CAMX | WECC California | B2-EUI-CAMX-IP | B2-EUI-CAMX-SI | B2-GHGI-CAMX-IP | B2-GHGI-CAMX-SI |
| NWPP | WECC Northwest | B2-EUI-NWPP-IP | B2-EUI-NWPP-SI | B2-GHGI-NWPP-IP | B2-GHGI-NWPP-SI |
| RMPA | WECC Rockies | B2-EUI-RMPA-IP | B2-EUI-RMPA-SI | B2-GHGI-RMPA-IP | B2-GHGI-RMPA-SI |
| AZNM | WECC Southwest | B2-EUI-AZNM-IP | B2-EUI-AZNM-SI | B2-GHGI-AZNM-IP | B2-GHGI-AZNM-SI |

Available during public review at
https://tinyurl.com/3wx89aca

***Informative notes:***

1. *The tables show all climate zones; however, each e-GRID subregion will not be applicable to all climate zones shown in the tables.*
2. *The Regional GHGI Conversion Factor and Regional Target tables were created by using Section 7.1.2.1 and Section 7.1.3.1 to apply the U.S. Regional electricity source and GHG factors (Tables 5-3 and 5-4).*

### *Informative Example: using Table B2 to determine Regional GHGI Conversion Factors and Regional Targets*

A city buildings department (AHJ), located in Central Texas, decides to substitute the national grid electricity GHG emissions conversion factor in Table 5-2 with the appropriate regional factor in Table 5-4. The AHJ follows these steps:

1. The AHJ first determines the eGRID subregion for their area by searching for the applicable zip codes of their area within the EPA Power Profiler (https://www.epa.gov/egrid/power-profiler#/). The AHJ determines that the entire city is within the eGRID subregion of ERCT.
2. The AHJ is using IP units and their area is in climate zone 3A.
3. The AHJ substitutes the Grid electricity source energy conversion factor in table 5-2 (2.74) with the Source Energy Conversion Factor – Captured Energy Efficiency Approach for ERCT in Table 5-3 (2.51).
4. The AHJ substitutes the Greenhouse Gas Emissions Factor, GWP100 in Table 5-2 (0.326 lb CO2e/kBtu) with the IP ERCT number in Table 5-4 (0.328 lb CO2e/kBtu).
5. The AHJ locates the tables by opening Table B2 at www.ashrae.org/100files, and finding the tabs named B2-EUI-ERCT-IP and B2-GHGI-ERCT-IP.
6. The AHJ requires that buildings use tables B2-EUI-ERCT-IP and B2-GHGI-ERCT-IP for their EUI and GHGI targets.

In the above example, a qualified person determines the compliance for a high school located in Central Texas (climate zone 3A), where the AHJ has specified to use the eGRID subregion conversion factors for source EUI and GHGI calculations. The high school is 10,000 SF, with 400,000 kBtu/yr of grid electricity use and 100,000 kBtu/yr of grid natural gas use. The qualified person follows these steps:

1. The qualified person calculates the building's source EUI using the AHJ-specified conversion factors:
    a. 2.51 (Table 5-3 for ERCT, captured efficiency) for Source Energy for grid electricity x 400,000 kBtu/yr = 1,004,000 kBtu/yr Source Energy
    b. 1.09 (Table 5-2 for grid natural gas) for Source Energy for grid natural gas x 100,000 kBtu/yr = 109,000 kBtu/yr Source Energy
    c. Total Source Energy = 1,004,000 kBtu/yr + 109,000 kBtu/yr = 1,113,000 kBtu/yr
    d. Source EUI = 111.3 kBtu/SF/yr
2. The qualified person looks up the source EUI target within B2-EUI-ERCT-IP. They find the number corresponding to climate zone 3A and property type High School, 86 kBtu/SF/yr.
3. Summary: The building's source EUI is 111.3 kBtu/SF/yr and the target source EUI is 86 kBtu/SF/yr.
4. Next, the qualified person calculates the building's GHGI using the AHJ-specified conversion factors:
    a. 0.328 lb CO2e/kBtu (Table 5-4 for ERCT, IP units) for GHG for grid electricity x 400,000 kBtu/yr = 131,200 lb CO2e/kBtu
    b. 0.147 lb (Table 5-2 for grid natural gas) CO2e/kBtu for grid natural gas x 100,000 kBtu/yr = 14,700 lb CO2e/kBtu
    c. Total GHG emissions = 131,200 lb CO2e/kBtu + 14,700 lb CO2e/kBtu = 145,900 lb CO2e/kBtu
    d. GHGI = 14.59 lb CO2e/kBtu/SF/yr
5. The qualified person looks up the source EUI target within B2-EUI-ERCT-IP. The qualified person finds the number corresponding to climate zone 3A and the property type, High School, is 63 kBtu/SF/yr.
    a. The building's GHGI is 14.59 lb CO2e/kBtu/SF/yr and the target GHGI is 11.3 lb CO2e/kBtu/SF/yr.

Alternate Option for Website:
The region-specific GHGI conversion factor and region-specific target tables are crafted using the guidelines set forth in Section 7.1.2.1 and Section 7.1.3.1, incorporating U.S. Regional electricity source and greenhouse gas (GHG) factors as specified in Tables 5-3 and 5-4. These tables provide region-specific methodologies that reflect the unique energy use patterns and GHG emissions of various subnational geographic areas. By leveraging robust datasets that capture building activity energy use at the state, province, or city level, the tables account for diverse climate zones and distinct building archetypes within each region. Consequently, the resulting site or source energy use intensity (EUI) and greenhouse gas intensity (GHGI) metrics in these tables may vary from other methodologies presented in the ANSI/ASHRAE/IES Standard 100 tables in Section 7 for comparable climate zones. These region-specific conversion factors and region-specific targets allow local jurisdictions to use local, accurate and relevant benchmarks for energy performance and GHG emissions reduction, tailored to their regional characteristics.

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

NSF/ANSI Standard for Plastics —

# Plastics Piping System Components and Related Materials

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## 9 Quality assurance

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### 9.10 Product-specific quality assurance requirements

Tables 9.2 through 9.40 provide product-specific quality assurance requirements.

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**Table 9.31**
**PVC pressure pipe and fabricated fittings for water transmission and distribution**

| Test | Pipe | Machined coupling | Fabricated fitting |
|---|---|---|---|
| dimension [a] | hourly | hourly | — |
| sustained pressure [b] | 6 mo | — | — |
| burst pressure [a,~~d~~c] | 24 h[d] | 8 h | — |
| 5 s hydrostatic proof [~~c~~e] | every length | every coupling | — |
| flattening [a] | 8 h | — | — |
| lap shear | — | — | every 200 fittings |
| pressure test – 2 hr | — | — | every 50 fittings |
| product standard(s) | AWWA C900 | AWWA C900 | AWWA C900 |

[a] Beginning of production of each material and size and thereafter one specimen from each extrusion outlet.

[b] Beginning of production specimens of 4 or 6 in, and 8 in and larger.

[c] Ring tensile may be used as a substitute for burst pressure per Section 5.1.4 of AWWA C900.

[~~c~~e] ~~Requirement does not apply for pipes that are not hydrostatically tested per AWWA C900 Section 5.1.14 and marked per Section 6.1.2.e.~~

[d] For sizes greater than 12 in, at least one specimen shall be tested from each production run (lot) or every 100 lengths of pipe produced from each extrustion outlet, whichever is more frequent.

[~~d~~] ~~Ring tensile may be used as a substitute for burst pressure per Section 5.1.4 of AWWA C900.~~

[e] Requirement does not apply for pipes that are not hydrostatically tested per AWWA C900 Section 5.1.14 and marked per Section 6.1.2.e.

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***Rationale*: Updates Table 9.31 to align the in-plant QC burst pressure requirements with AWWA C900 and reorders footnotes appropriately.**

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

NSF/ANSI Standard for Plastics —

# Plastics Piping System Components and Related Materials

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## 9 Quality assurance

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### 9.10 Product-specific quality assurance requirements

Tables 9.2 through 9.40 provide product-specific quality assurance requirements.

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**Table 9.21**
**PP pipe and fittings test frequency**

| Test | Frequency | | |
|---|---|---|---|
| dimensions | | | |
| pipe OD | 2 h | 2 h | 2 h |
| pipe wall thickness | 2 h | 2 h | 2 h |
| socket bottom average diameter and out-of-roundness | 24 h | 24 h | 24 h |
| socket entrance average diameter and out-of-roundness | 24 h | 24 h | 24 h |
| socket depth [a,b] | 24 h | 24 h | 24 h |
| thread gauge | 24 h | 24 h | 24 h |
| thread length [b] | 24 h | 24 h | 24 h |
| wall thickness | weekly | weekly | weekly |
| heat reversion [c] | 24 h | 24 h | 24 h |
| impact resistance | 24 h | — | — |
| sustained pressure | annually | annually | annually |
| melt flow rate | annually | annually | — |
| thermocycling | — | annually | — |
| thermal stability | — | qualification | — |
| apparent tensile strength | — | — | annually |
| product standard(s) | DIN 8077, DIN 8078 | ASTM F2389 | CSA B137.11 |

NOTE — For products that comply with both DIN and ASTM standards, test method from either standard may be used by the manufacturer.

[a] Plug gauges are permitted, provided that the mold has been qualified by complete dimensioning and performance of appropriate testing on all mold cavities to verify compliance with the referenced standard.

[b] Socket depth and thread length are only required to be verified at the time a new tool is “qualified” or when new or repaired cores are made.

[c] If one material is continuously used in several machines or sizes, and when a steady-state operation is obtained on each machine, sample selection shall be from a different extruder each day, rotated in sequence among all machines or sizes.

***Rationale: Harmonizes the heat reversion test with ISO 15874 Part 7, Conformity Assessment and DIN 8078.***

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

NSF/ANSI 53:

# Drinking Water Treatment Units — Health Effects

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## 7 Elective performance claims – Test methods

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### 7.2 Chemical reduction claims

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#### 7.4.2 Radon reduction testing

##### 7.4.2.1 Radon reduction method

This protocol evaluates the performance characteristics of a POU activated carbon water treatment system for the reduction of radon$^{222}$ ($Rn^{222}$). Systems evaluated using this protocol shall not be used on waters with a radon activity > 4,000 pCi/L. The reduction capacity of the system over its rated life shall be based on testing to establish the adsorption / decay steady state constant ($K_{ss}$) using the following equation:

$$K_{ss} = -[\ln (C_t/C_o)]T$$

where:

$K_{ss}$ = adsorption / decay steady state constant
$C_t$ = radon activity at time $t$ in pCi/L
$C_o$ = initial radon activity in pCi/L
$T$ = the empty bed detention time with the filter in hours

$$T = V_f/LPH$$

where:

$V_f$ = volume of the filter bed in liters
$LPH$ = flow rate in LPH

##### 7.2.4.1.1 Radon reduction claims

Claims for radon reduction may be made for POU activated carbon water treatment devices. POU systems shall treat a minimum of 8 LPD (2 GPD) and shall meet the requirements of this section. Claims for radon reduction shall not be made for POE devices (see Table 7.4).

##### 7.2.4.1.2 Calculation of progeny activity at end of life

~~The U.S. EPA's Carb Dose v.4.0[8] computer program~~ The following steps shall be used to calculate the total activity of lead$^{210}$ ($Pb^{210}$), polonium$^{210}$ ($Po^{210}$), and bismuth$^{210}$ ($Bi^{210}$) on the filter at the end of 1 yr of use at the maximum flow rate using data collected from testing to Section 7.2.4.6.

[8] ~~<https://standards.nsf.org/higherlogic/ws/public/document?document_id=62308&wg_id=ffff1da9-fe57-4bf4-b211-018976f8ab5a>~~

a) This equation shall be applied to determine the average reduction concentration of the influent by carbon (pCi):

$$\textit{ave red}\ (\text{pCi}) = \frac{\sum_1^n inf_n - eff_n}{n}$$

where:

*inf* = sample point influent concentration (pCi)
*eff* = sample point effluent concentration (pCi)
*n* = number of sample point pairs

b) This equation shall be applied to determine the total activity of progeny at 1 yr in pCi:

$$\textit{total activity}\ (\text{pCi}) = 2{,}525 \times LPD \times \frac{\textit{ave red}}{5{,}000}$$

where:

*2,525* = amount of activity at 1 yr that is the result of 1 L/day with *ave red* equal to 5,000 pCi
*LPD* = liters per day of influent challenge over test (average L/day)
*ave red* = average reduction concentration of influent by carbon (pCi)
*5,000* = activity reduction where the 2,525 per liter was calculated

c) This equation shall be applied to determine whether the product meets the requirement of not exceeding 2,000 pCi per gram of carbon of progeny activity after 1 year:

$$\textit{activity/gram}\ (\text{pCi/g}) = \frac{\textit{total activity (pCi)}}{\textit{grams of carbon}\ (\text{dry})}$$

The filter shall pass the requirement if the result for *activity/gram* (pCi/g) is ≤ 2,000 pCi/g (see Section 7.2.4.4).

***Rationale*: Provides a method to calculate radon progeny activity at end of life to replace the no-longer-available EPA Carb Dose program. See Carb Dose Elimination Proposal under Referenced Items for details on the calculations.**

**Table 7.5**
**Radon reduction requirements**

| Substance | Influent challenge [a] (mg/L) | Maximum effluent concentration (mg/L) | U.S. EPA Method(s) |
|---|---|---|---|
| radon | 4,000 ± 1,000 pCi/L | 300 pCi/L | 7500-Rn, ASTM D 5072-98 |

[a] Reason for influent challenge levels: challenge concentrations should be selected to simulate what a system will be challenged with in the field and/or to provide an accurate and reproducible indicator of performance. The following sequence of criteria is used to select challenge concentrations:

a) The upper percentile concentration of available occurrence data (the concentration for which there is high probability [P < 0.05] that 95% of the population will be exposed to waters of lower concentration). Occurrence data shall come from national monitoring programs administered by the U.S. EPA or the USGS. Other occurrence data shall be accepted by the Joint Committee on Drinking Water Treatment Units.

b) The concentration obtained by multiplying the U.S. EPA's published MCL by three. This concentration ~~will not be iadequate~~ is not adequate when U.S. EPA MCL is very low. The system shall reduce the influent activity of radon from 4,000 ± 1,000 pCi/L to an activity not exceeding 300 pCi/L at each sampling point when tested in accordance with Section 7.2.4.

***Rationale*: Corrects typo and uses present tense per style guidelines.**

#### 7.2.4.2 Retention of radon decay products

The activity of lead$^{210}$ ($Pb^{210}$) in the product water shall be ≤ 3.0 pCi/L when the system is tested in accordance with Section 7.2.4.6.

#### 7.2.4.3 Gamma radiation exposure

At the end of the testing period specified in Section 7.2.4.6, the gamma radiation exposure from the system shall be < 0.034 mR/h based on an 8 h per 24-h period exposure for 365 d/y when measured in accordance with Section 7.2.4.6.

#### 7.2.4.4 Progeny activity at end of life

The total activity of lead$^{210}$ ($Pb^{210}$), polonium$^{210}$ ($Po^{210}$), and bismuth$^{210}$ ($Bi^{210}$) shall not exceed 2,000 pCi/g of carbon for 1 yr of use at the manufacturer's recommended flow rate when calculated using the calculations in Section 7.2.4.1.2 ~~U.S. EPA Carb Dose program[8] v4.0 and the steady state $K_{ss}$ value (see Section 7.2.4.6)~~.

***Rationale: Updates section number and removes references to the Carb Dose program (no longer available) and the $K_{ss}$ value (as the calculation is performed using this assumption).***

#### 7.2.4.5 Apparatus

Refer to Figure 2 for an example of the test apparatus.

#### 7.2.4.6 Analytical methods

##### 7.2.4.6.1 Radon analysis

Radon analysis shall be performed using liquid scintillation counting in accordance with either 7500-Rn in *Standard Methods*[4] or ASTM D5702-98 *Standard Test Method for Radon in Drinking Water* by the American Society for Testing and Materials. Testing organizations shall be required to achieve a minimum quantifiable radon activity of 100 pCi/L.

##### 7.2.4.6.2 Gamma radiation emittance

Gamma radiation emittance shall be measured using a survey meter with a gamma / beta probe, or equivalent, with an accuracy of ± 10% between 10% and 100% of the full scale, and a minimum response below 0.034 mR/h.

##### 7.2.4.6.3 Radon progeny analysis

Radon progeny shall be measured using $Pb^{210}$ as an indicator. The analysis shall be performed using the method described by Case and McDowell,[98] which uses a trioctylphosphine oxide (TOPO) extractive scintillator and a photon electron rejecting alpha liquid scintillation (PERALS) spectrometer. Testing organizations shall be required to achieve a minimum quantifiable $Pb^{210}$ activity of 1.0 pCi/L.

⋮

[98] Case, G.N and W.J. McDowell. "An improved sensitive assay for polonium-210 by use of a background-rejecting extractive liquid-scintillation method." *Talanta*, Vol. 29, Issue 10, October 1982, 845-848.

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

NSF/ANSI/CAN Standard
for Recreational Water Facilities –

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

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## 2 Normative references

The following documents contain provisions that, through reference in this text, constitute provisions of this standard. At the time of publication, the indicated editions were valid. All standards are subject to revision and parties are encouraged to investigate the possibility of applying the recent editions of the standards indicated below. The most recent published edition of the document shall be used for undated references.

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ANSI/APSP/ICC 11, *Standard for Water Quality in Public Pools and Spas*[6]

ANSI/APSP 16-2011, *Standard Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, and Hot Tubs*[6]

AS 3996-2006, *Access covers and grates*[7]

AS 4586-2013, *Slip resistance classification of new pedestrian surface material*[7]

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[7] Standards Australia. Level 10, The Exchange Centre, 20 Bridge Street, Sydney NSW 2000, Australia. <www.standards.org.au>

## 22 Fittings for waterpark, spray-pad, pool, or spa

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### 22.3 Overflow fittings and perimeter grating

Overflow fittings and perimeter grates are designed to capture water from the top of the pool or spa and direct it to the filtration and treatment system. Such fittings may be designed with integrated trough, gutter, or support and catchment channel. These fittings are not designed to be installed in a pool or spa in a continuously submerged application as submerged suction fittings shall be evaluated to ANSI/APSP-16.[6] Overflow fittings and perimeter grating products including corner sections, sweeps, and radius fittings, if applicable, shall be tested and comply with the performance test criteria, material safety, corrosion resistance, design, and construction requirements ~~of the material section~~ of this standard ~~and~~ including the following:

— dimensional compliance with the manufacturer's design requirements and installation instructions including determination of open area or percent open area for water flow. Testing shall address worst case scenario based upon manufacturer designs and installation instructions relative to radius of bend, corners, joints, penetrations through grating, etc.

— when polymeric materials are used to make fittings for use in outdoor pool and spa applications, they shall undergo UV exposure in accordance with ASTM G1549 for UV resistance and 70% strength requirements of Section 3 as referenced in ANSI/APSP-16.6 When polymeric material products are offered in multiple colors, the colors with the highest and lowest colorant loading (% of colorant within the formulation) shall be tested. If colorants are used at differing percentages within the formulations, test both the highest and lowest colorant levels as well as the lightest and darkest colors. The worst-case recorded values shall be used for all further tests and calculations. Fittings that are only rated for indoor use need not comply with the UV exposure requirements;

— manufactured sumps and other assembly components that are not exposed to natural UV radiation when fully assembled and installed, according to the manufacturer's instruction, are not included in the ultraviolet light exposure test;

— samples shall achieve a minimum P4 rating (i.e., a British Pendulum Number, BPM, or slip resistance value, SRV, of 40 or greater) when tested in accordance with AS 4586-2013 (Appendix A — Wet Pendulum Method). Slip resistance testing shall address worst case scenarios based upon manufacturer designs and installation instructions relative to radius of bend, corners, joints, penetrations through grating, etc.

> NOTE - Examples of penetration through grating may include but are not limited to ladders, starting, blocks, lane marker ropes, ADA equipment, etc.

— products shall comply with the vertical load and deformation test of Section 3 of ANSI/APSP-16[6]**.** or the manufacturer's claimed load requirements, whichever is greater; testing shall address worst case scenarios based upon manufacturer designs and installation instructions relative to radius of bend, corners, joints, penetrations through grating, etc.

— products shall comply with the pull load requirements of Section 3 of ANSI/APSP-16[6] or the

manufacturer's claimed load requirements, whichever is greater; testing shall address worst case scenarios based upon manufacturer designs and installation instructions relative to radius of bend, corners, joints, penetrations through grating, etc.

— products exposed to more than foot traffic such as light vehicle traffic, sweeping and cleaning machines, hose reels, cover reels, food truck, or related loads shall comply with AS 3996 Class A load or greater. Testing shall address worst case scenarios based upon manufacturer designs and installation instructions relative to radius of bend, corners, joints, penetrations through grating, etc

— products shall comply with the finger and limb entrapment requirements of Section 3 of ANSI/APSP-16[6].

— To minimize potential toe injury, trip and fall risk, and unauthorized grate removal the grate openings shall not exceed 0.375 in. (9.53 mm) in more than one horizontal dimension [ie product can exceed 0.375 in. (9.53 mm) in one horizontal dimension, but cannot exceed 0.375 in. (9.53 mm) in both width and length horizontal dimensions]. Testing shall address worst case scenarios based upon manufacturer designs and installation instructions relative to radius of bend, corners, joints, penetrations through grating, etc.

— products that meet all requirements shall be marked in accordance with the following:

— manufacturer's name or trademark;
— model number or product designation;
— standard reference: NSF/ANSI/CAN 50 and certification mark; and
— use conditions: indoor use only (Indoor), indoor and outdoor use (Outdoor).
— use conditions: foot traffic (no marking needed) or greater traffic loads (Class A-G) depending on tested performance

— product packaging, installation, or use instructions shall contain the following:

— manufacturer's name or trademark;
— model number or product description;
— product installation instructions;
— standard reference: NSF/ANSI/CAN 50 and certification mark;
— use conditions: indoor use only (indoor), indoor and outdoor use (outdoor);
— use conditions: foot traffic (no marking needed) or greater traffic loads (Class A-G) depending on tested performance; and
— rated open area for water flow (expressed as percent open water).

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

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## 18 Copper / silver and copper ion generators

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### 18.7 Data plate

Data plate shall be permanent; easy to read; and securely attached, cast, or stamped onto the unit at a location readily accessible after normal installation. Data plate(s) shall contain at least the following:
— equipment name;
— manufacturer's name and contact information (address, phone number, website, or prime supplier);
— model number;
— electrical requirements – volts, amps, and hertz (if applicable);
— serial number or date of manufacture;
— caution statements referring user to operation manual for applicable warnings (prominently displayed) including a caution statement that the unit is designed for supplemental disinfection and should be used with registered or approved disinfection chemicals to impart required residual concentrations;
— Copper output rate (in amount of copper per unit of time at each setting);
— Silver output rate, if applicable (in amount of silver per unit of time at each setting); and
— maximum daily operation time (if not designed for continuous operation).

### 18.8 Disinfection efficacy

Process equipment designed for supplemental disinfection shall demonstrate a 3-log reduction of influent bacteria when tested according to Annex N-8.

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NSF/ANSI/CAN Standard
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## 25 Water conditioning devices

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### 25.11 Test method for water conditioning device performance validation

#### 25.11.1 Purpose

The purpose of this test is to determine the effect of a water conditioning device on the chlorine consumption, acid consumption, combined chlorine level, phosphate level, or filter cleaning water usage. The testing is conducted with a sand filter for convenience and consistency, but the evaluation requirements are intended to qualify products used on pools with other filter types as well. This testing enables the certification organization to utilize the data to qualify the WCD for use with other filter types (such as sand type media like glass, zeolite, or cartridge type, precoat DE, Perlite type, etc.).

#### 25.11.2 Apparatus

— a test tank capable of holding a volume of 10,000 gal;

— an environment free from direct air currents on the tank surface and with a temperature of 75 ± 10 °F;

— circulation piping constructed of 2” Schedule 40 PVC;

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**BSR/UL 668, Standard for Safety for Hose Valves for Fire-Protection Service**

**1. Development of Binational Canada-US Standard for Hose Valves for Fire-Protection Service, ANSI/CAN/UL 668**

## PROPOSAL

### INTRODUCTION

### 1 Scope

1.1 These requirements cover angle-pattern and straightway-pattern hose valves intended for use on standpipes, fire pumps, and hydrants supplying water for fire protection service.

1.2 Requirements for the installation of hose valves include the Standards of the National Fire Protection Association for the Installation of Sprinkler Systems, NFPA 13; for Standpipe and Hose Systems, NFPA 14; for Installation of Stationary Pumps for Fire Protection, NFPA 20; and for Installation of Private Fire Service Mains and Their Appurtenances, NFPA 24.

### 3 Units of Measurement

3.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

3.2 Where values of measurement are specified in both SI and U.S. customary units, it is the responsibility of the user of this Standard to determine the unit of measurement appropriate for the user's needs.

### 4 Referenced Publications

4.1 Any undated reference to a code or standard appearing in the requirements of this standard shall be interpreted as referring to the latest edition of that code or standard.

4.2 The following publications are referenced in this Standard:

ANSI/ASME B1.20.1, *Pipe Threads, General Purpose (Inch)*

ANSI/AWWA C606, *Grooved and Shouldered Joints*

ASTM A53/A53M, *Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless*

ASTM A135/A135M, *Standard Specification for Electric-Resistance-Welded Steel Pipe*

ASTM A795/A795M, *Standard Specification for Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless Steel Pipe for Fire Protection Use*

NFPA 13, *Installation of Sprinkler Systems*

NFPA 14, *Standpipe and Hose Systems*

NFPA 20, *Installation of Stationary Fire Pumps for Fire Protection*

NFPA 24, *Installation of Private Fire Service Mains and Their Appurtenances*

NFPA 1960, *Standard for Fire Hose Connections, Spray Nozzles, Manufacturer's Design of Fire Department Ground Ladders, Fire Hose, and Powered Rescue Tools*

UL 157, *Gaskets and Seals*

### 6 Sizes

6.1 Hose valves covered by these requirements include the following patterns and end connections specified in (Table 6.1):

**Table 6.1**

**Nominal pipe size dimensions**

| Valve Pattern | Intended Use | Nominal Inlet Connection Size, In (mm) | Nominal Outlet Connection Size, In (mm) |
|---|---|---|---|
| Angle, Straightway* | Standpipes | 1,1-1/2, 2-1/2, 3 (25, 40, 65, or 80) | 1,1-1/2, 2-1/2, 3 (25, 40, 65, or 80) |
| Angle | Hose Systems | 1 (25) | 1-1/2 (40) |
| Straightway | Fire Pumps & Hydrants | 2-1/2 (65) | 2-1/2 (65) |

* Inlet and outlet connections may be same size or with the inlet larger than the outlet

**13 Inlets Connections and Attachment Means**

13.1 A hose valve intended for use on a fire pump and a standpipe shall be fitted with one of the following:

a) Female pipe threads complying with ANSI/ASME B1.20.1, Pipe Threads, General Purpose (Inch);

b) Grooved ends complying with the ANSI/AWWA C606, Standard for Grooved and Shouldered Joints;

c) Female pipe threads complying with a national standard that applies where the valve is intended to be installed;

d) Female screw threads complying with the Standard for Fire Hose Connections, NFPA 1960

**14 Outlet Nipples and Threads**

14.1 A hose valve outlet connection shall be threaded in accordance with Standard for Fire Hose Connections, NFPA 1960, unless otherwise specifically ordered to fit existing equipment or to comply with a specification where the valve is intended to be installed.

15.3 A cap gasket complying with the dimensional specifications in ~~the Standard for Fire Hose Connections,~~ NFPA 1960, shall be provided with each hose outlet cap.

15.5 A gasket recess complying with the dimensional specifications in ~~the Standard for Fire Hose Connections,~~ NFPA 1960, shall be provided in the cap at the inner end of the threads.

**Table ~~16.1~~ 18.1**

**Minimum handwheel diameter**

| Nominal Valve inlet size inches, (mm) ~~Nominal pipe size of valve inlet, inches~~ | Diameter of handwheel for rated ~~working~~ pressures | | | |
|---|---|---|---|---|
| | 175 psi (~~1.21 MPa~~ 1207 kPa) | | 300 psi (~~2.07 MPa~~ 2068 kPa) | |
| | Inches | (mm) | Inches | (mm) |

| | | | | |
|---|---|---|---|---|
| 1 (25) | 2-5/8 | (66.8) | 3 | (76.2) |
| ~~1-1/4~~ | ~~3~~ | ~~(76.2)~~ | ~~3-1/4~~ | ~~(82.6)~~ |
| 1-1/2 (40) | 3-1/4 | (82.6) | 3-1/2 | (88.9) |
| ~~2~~ | ~~3-1/2~~ | ~~(88.9)~~ | ~~4-3/8~~ | ~~(111.1)~~ |
| 2-1/2 (65) | 4-3/8 | (111.1) | 5 | (127.0) |
| 3 (80) | 6 | (152.4) | 7 | (177.8) |

**Table ~~17.1~~ 19.1**

**Minimum seat-ring width**

| Nominal valve inlet size ~~pipe size of valve inlet~~ inches (mm) | Width of seat | |
|---|---|---|
| | Inch | (mm) |
| 1 (25) | 1/8 | (3.2) |
| ~~1-1/4~~ | ~~1/8~~ | ~~(3.2)~~ |
| 1-1/2 (40) | 3/16 | (4.8) |
| ~~2~~ | ~~7/32~~ | ~~(5.6)~~ |
| 2-1/2 (65) | 1/4 | (6.4) |
| 3 (80) | 3/8 | (9.5) |

**Table ~~17.3~~ 19.3**

**Minimum clearance between seal holder and inside of body**

| Nominal ~~pipe~~ valve inlet size inches (mm) | Clearance between disc holder and body | |
|---|---|---|
| | Inch | (mm) |
| 1 (25) | 1/8 | (3.2) |
| ~~1-1/4~~ | ~~3/16~~ | ~~(4.8)~~ |
| 1-1/2 (40) | 3/16 | (4.8) |
| ~~2~~ | ~~1/4~~ | ~~(6.4)~~ |
| 2-1/2 (65) | 1/4 | (6.4) |

| | | |
|---|---|---|
| 3 (80) | 5/16 | (7.9) |

**Table ~~20.1~~ 22.1**

**Torque requirements for pipe connections**

| Nomina valve size inches (mm) | Torque | |
|---|---|---|
| | Pound-inches | (Newton·meters) |
| 1 (25) | 1200 | (135.6) |
| ~~1-1/4~~ | ~~1450~~ | ~~(163.8)~~ |
| 1-1/2 (40) | 1550 | (175.1) |
| ~~2~~ | ~~1650~~ | ~~(186.4)~~ |
| 2-1/2 (65) | 1750 | (197.7) |
| 3 (80) | 1800 | (203.4) |
| [a] Dimensions as specified in ANSI/ASME B1.20.1. | | |

**Table ~~25.1~~ 27.1**

**Torque values – internal and external valve parts**

| Handwheel diameter Inches[a] (mm) | Torque Foot-pounds[b,c] |
|---|---|
| 2-5/8 (65) | 15 |
| 3 (80) | 25 |
| 3-1/4 (85) | 32 |
| 3-1/2 (90) | 41 |
| 4 (100) | 60 |
| 4-3/8 (110) | 70 |
| 4-1/2 (113) | 75 |
| 5 (125) | 90 |
| 5-1/2 (138) | 107 |
| 6 (150) | 125 |
| 6-1/2 (163) | 142 |
| 7 (175) | 160 |

[a] 1 inch = 25.4 mm.

[b] 1 foot-pound = 1.36 N·m.

[c] Torque values for valves having handwheel diameters not specified are to be interpolated or extrapolated from the given values.

27A.3 At least five different water flows at flowing velocities ranging from nominal ~~between~~ 10 ~~and~~ to18 ft/sec (3.1 and 5.5 m/s) based upon the nominal inside diameter of the hose valve are to be established through the test sample and the pressure drop between piezometers at each flow is to be recorded.

**BSR/UL 47, Standard for Safety for Semiautomatic Fire Hose Storage Devices**

**1. Release force for water retention mechanism**

## PROPOSAL

19.5.2 For collapsible hose, with all of the fire hose except for the last fold run off the SHSD and with the maximum rated pressure maintained, the force necessary to release the last fold is to be determined by attaching a spring scale or force gauge to the end of the fire hose and applying a straight horizontal pull. The SHSD, fire hose, nozzle, and spring scale are to extend in the same direction. The water retaining device shall be released from the standpipe end of the hose with a force not exceeding ~~25~~ 35 pounds (~~111.2~~ 155.7 N), applied at the nozzle for not more than three pulls. The retaining device shall not show evidence of wear.

**Standard:** UL 783
**Standard Title:** Standard for Safety for Electric Flashlights and Lanterns for Use in Hazardous (Classified) Locations

**Date of Proposal:** January 3, 2025
**Ballots & Comments Due:** February 3, 2025

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# SUMMARY OF TOPICS

**The following changes in requirements are being proposed for your review:**

**1. Clause 30.8 Revision to delete the second sentence and associated footnote.**

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Need access to the full standard or a standard this proposal references? Click here to learn more about accessing our Standards. Technical Committee (TC) Members can find the latest copy of the standard from the My TCs page in our Collaborative Standards Development System (CSDS).

For your convenience in review, proposed additions to existing requirements are shown underlined and proposed deletions are shown ~~lined-out~~.

UL Standards & Engagement's goal is to have no interest category comprise more than one-third of the TC membership. To improve the current balance for TC 783, UL Standards & Engagement is looking for participants in the following interest categories: AHJ, Commercial/Industrial User, Consumer, General, Government, and Supply Chain.

If you are interested in applying for membership or are aware of potential candidates, please complete an application or forward this link to potential candidates.

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**1. Clause 30.8 Revision to delete the second sentence and associated footnote.**

**RATIONALE**

Proposal submitted by: Mary Foerster, ULSE TC Chair

In reviewing other HazLoc standards, the ASTM document is not referenced. Therefore, we are proposing to delete the second paragraph of Clause 30.8.

**PROPOSAL**

30.8 The thermocouples and related instruments shall be accurate and calibrated in accordance with good laboratory practice. ~~The thermocouple wire is to conform with the requirements specified in the Initial Calibration Tolerances for Thermocouples table in Temperature Measurement Thermocouples, ANSI/ISA MC96.1[a].~~

~~[a] Available from the American National Standards Institute, 1430 Broadway, New York, NY 10018.~~