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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 this [Public Document Library link](#) 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.

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 029-202x, Standard for Report Writing in Wildlife Forensics: Morphology and Genetics (revision of ANSI/ASB Std 029-2019)

Stakeholders: Wildlife forensic science practitioners, law enforcement officials, and the court/judicial system

Project Need: Revision of ANSI/ASB Standard 029, Report Writing in Wildlife Forensics: Morphology and Genetics, First Edition, 2019. The field of wildlife forensics is very diverse, and this document ensures that all laboratories, including academic and research labs, have a standard to follow for report writing purposes. Following the requirements in this document allows all wildlife forensic labs to include all necessary information in a final written report.

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

This standard provides the requirements for written reports of wildlife forensic examinations, for use in legal proceedings. Requirements for both genetic and morphological examination reports are covered in this standard.

CGA (Compressed Gas Association)

Kristy Mastromichalis <kmastromichalis@cganet.com> | 8484 Westpark Drive, Suite 220 | McLean, VA 22102 www.cganet.com

New Standard

BSR/CGA P-18-202x, Standard for Bulk Inert Gas Systems (new standard)

Stakeholders: producers and suppliers; equipment manufacturers, users and operators, distributors, engineering and technical services, government and regulatory authorities; SDOs and technical organizations, emergency responders, general interest (academia, Academia and research institutions, Independent technical experts, Consumer and public interest representatives, Environmental and sustainability organizations)

Project Need: The compressed gas industry continues to evolve through advances in technology, changes in safety practices, updates to applicable codes and standards, and increased industry experience related to the storage, handling, and use of bulk inert gases. A revision of CGA P-18 is needed to ensure the publication remains technically accurate, reflects current industry practices, and continues to serve as an effective resource for promoting safety and consistency throughout the industry.

Interest Categories: Producer: manufacturer of inert gases; repackager and deliverer of inert gases and mixes. User: uses inert gases in their process; end user. General interest: general interest in inert gases systems; academia. Equipment Supplier: manufactures storage and transportation systems or equipment. Distributor and retailer: distributors and retailers of inert gases and mixes. Code Developers: represents an industry association affected by or involved in inert gases.

This standard contains minimum requirements for locating/siting, selecting equipment, installing, starting up, maintaining, and removing bulk inert gas supply systems.

A bulk inert gas supply system is one that contains greater than 20 000 scf (566 m³) of inert gas. Requirements of this standard are limited to systems operating up to 15 000 psi (103.4 MPa). Two types of bulk inert gas supply systems are covered in this standard: liquid and gaseous.

This standard applies to inert gas supply systems containing any of the following equipment. Not all inert gas systems include all the equipment listed.

Inert gas supply systems include: cryogenic storage tank; gas storage vessels (receivers); vaporizers; valves including manual and automatic shutoff valves and check valves; pressure control equipment including regulators and control valves; piping (pipe and tubing); cryogenic pumps; snubbers and pulsation dampeners; and monitoring and control systems including electrical and instrumentation.

The bulk inert supply system terminates at the source valve where the gas or liquid supply first enters the supply line. This standard does not apply to carbon dioxide systems.

NECA (National Electrical Contractors Association)

Jeff Noren <Jeff.Noren@NECAnet.org> | 1201 Pennsylvania Avenue, Suite 1200 | Washington, DC 20004 www.neca-neis.org

Revision

BSR/NECA 101-202x, Standard for Installing Steel Conduits (RMC, IMC, EMT) (revision of ANSI/NECA 101-2020)

Stakeholders: Electrical contractors and their customers, Inspectors, Specifiers, Electricians, and Engineers.

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

Interest Categories: Construction, General Interest, Producer, and Government

1. Scope 1.1 Products and Applications Included This Standard describes installation procedures for steel rigid metal conduit (RMC), steel intermediate metal conduit (IMC), and steel electrical metallic tubing (EMT), including steel conduits with a supplementary PVC coating, used as raceway systems for electrical wiring in residential, commercial, and industrial occupancies. This Standard also includes information on fittings and other applicable accessories necessary for a quality installation of these raceways. This document is intended to enhance electrical safety by aiding the installer in meeting the “neat and workmanlike” requirements in the NEC, reducing future repair needs, providing for future expansion to avoid electrical overload, creating an installation which will protect the wire conductors from mechanical abuse, and providing electrical continuity of the raceway system. 1.2 Products and Applications Not Included This standard does not apply to: • RMC manufactured from aluminum, stainless steel, red brass or other metals • IMC manufactured from aluminum or stainless steel • EMT manufactured from aluminum or stainless steel • Special occupancies such as hazardous (classified) locations

OPEI (Outdoor Power Equipment Institute)

Greg Knott <gknott@opei.org> | 1605 King Street | Alexandria, VA 22314 www.opei.org

Revision

BSR/OPEI B71.9-202x, Standard for Multipurpose Off-Highway Utility Vehicles (revision of ANSI/OPEI B71.9-2022)

Stakeholders: Directly and materially interested stakeholders in multi-purpose off-highway utility vehicles, including OEM producers and component suppliers, consumer users, retailers, testing organizations, government agencies and general interests.

Project Need: Revise ANSI/OPEI B71.9-2022. Proposals for technical revisions are being considered at this time.

Interest Categories: OEM Producers, Supplier Producers, Consumer Users, Retailers, Testing Organizations, Government Agencies and General Interests

This standard establishes requirements for equipment, configuration, and performance of Multipurpose Off-Highway Utility Vehicles (MOHUVs) of all power sources. A MOHUV has features specifically intended for utility use and has the following characteristics: 1) intended to be operated by an occupant and to transport a person(s) and/or cargo, with a top speed in excess of 25 mph (40.2 km/h); 2) 2030 mm (80 in) or less in overall width; 3) designed to travel on four or more wheels, two or four tracks, or combinations of four or more tracks and wheels; 4) using a steering wheel for steering control; 5) with a non-straddle seat; 6) with a Gross Vehicle Weight Rating of no more than 2495 kg (5500 lb); and 7) with a minimum cargo capacity of 159 kg (350 lb).

OPEI (Outdoor Power Equipment Institute)

Greg Knott <gknott@opei.org> | 1605 King Street | Alexandria, VA 22314 www.opei.org

Revision

BSR/OPEI B175.5-202x, Standard for Outdoor Power Equipment – Internal Combustion Engine–Powered Hand-Held Edgers – Safety and Environmental Requirements (revision of ANSI/OPEI B175.5-2021)

Stakeholders: Directly and materially interested stakeholders in internal combustion engine-powered hand-held edgers, including OEM producers and component suppliers, consumer users, retailers, testing organizations, government agencies and general interests.

Project Need: Revise ANSI/OPEI B175.5-2021. Proposals for technical revisions are being considered at this time.

Interest Categories: OEM Producers, Supplier Producers, Consumer Users, Retailers, Testing Organizations, Government Agencies and General Interests

The requirements of this Standard apply to Internal combustion engine–powered, hand-held edgers having at least one ground-support and a rigid cutting blade that has a blade tip circle of not more than 254 mm (10 in) and Internal combustion engine–powered, hand-held, multi-purpose units when configured as an edger.

PHTA (Pool and Hot Tub Alliance)

Blake Pavlik <bpavlik@phta.org> | 1650 King Street, Suite 602 | Alexandria, VA 22314 www.PHTA.org

Revision

BSR/PHTA/ICC-4-202x, Standard for Aboveground/Onground Residential Swimming Pools (revision of ANSI/PHTA/ICC-4-2025)

Stakeholders: Manufacturers and producers of aboveground/onground residential swimming pools and equipment, water safety and drowning prevention advocates, regulatory bodies, code officials, inspectors, and consumers.

Project Need: To provide updated child resistance and related requirements that can be used by manufacturers, producers, and users of aboveground/onground residential swimming pools and equipment. It is also intended to be used by state and local authorities for adoption into state and local codes and standards.

Interest Categories: Producer, User-Consumer, User-Government, General Interest

This limited revision updates child resistance requirements and related items. This standard describes certain criteria for the design, manufacturing, testing, care, and use of aboveground/onground residential (Type-O) non-diving swimming pools and their components. These pools are defined as pools with a shallow area water depth of 36 in. (914 mm) minimum at the wall and a water depth of 48 in. maximum (1219 mm) at the wall. This includes portable pools with flexible/non-rigid or rigid side walls which achieve their structural integrity by means of uniform shape, support frame or a combination thereof, and can be disassembled for storage or relocation.

SFPE (Society of Fire Protection Engineers)

Joshua Reichert <jreichert@sfpe.org> | 9711 Washingtonian Blvd. Ste. 380 | Gaithersburg, MD 20878 <http://www.sfpe.org>

New Standard

BSR/SFPE S.03-202x, SFPE Engineering Standard on Performance-Based Fire Protection (new standard)

Stakeholders: Engineers Architects Authority having Jurisdiction (AHJ) Fire Departments Fire Marshals Building Inspectors Building owners Building Regulators Facilities Managers Insurers Academia Producers and Manufacturers Contractors

Project Need: The international fire protection engineering sector has experienced significant growth in the application of performance-based fire protection but there is no single international standard that establishes a consistent and robust framework for how performance-based fire protection should be undertaken. The SFPE Engineering Standard on Performance-Based Fire Protection provides designers and AHJ's with a trustworthy Standard to help ensure that the PBD process is applied in a repeatable and reliable manner around the world.

Interest Categories: Producer or manufacturer of a product that could be affected (design, manufacture or sale) by the standard Design Engineer Enforcement official Research and testing, including public or private sector research organizations and academics who perform research that falls within the scope of the standard Facilities owner or manager Insurance interests Specialist with expert knowledge within the scope of the standard who is not described by one of the categories above

The SFPE Engineering Standard on Performance-Based Fire Protection defines the application, methodology and delivery process for a fire protection engineering performance-based approach to the design, verification, and independent review of fire safety in the built environment. This approach is collectively known as the 'performance-based fire protection process'. The purpose of the Standard is use in both prescriptive and performance-based regulatory environments, to support either an alternative to a purely prescriptive framework, or a first principles approach to demonstrate fire safety. The Standard is also to be used to support the process where fire protection objectives go beyond life safety and property protection alone or exceed minimum regulatory requirements. The standard establishes a mandatory 15-step process that the responsible fire protection engineer must follow, with the first step being to develop the scope of the project, through to the fifteenth and final step of handover.

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

Comment Deadline: November 8, 2026

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

180 Technology Pkwy NW, Peachtree Corners, GA 30092 | mjones@ashrae.org, www.ashrae.org

Addenda

BSR/ASHRAE Addendum 62.1d-202x, Ventilation and Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Addendum 62.1d-2025)

Leakage testing introduces accountability into the construction process, encouraging improved workmanship. It provides an objective benchmark that verifies whether a duct system meets the performance expectations set by the designer. This directly supports the primary goal of ASHRAE 62.1.

[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 Pkwy NW, Peachtree Corners, GA 30092 | mjones@ashrae.org, www.ashrae.org

Addenda

BSR/ASHRAE Addendum 62.2f-202x, Ventilation and Acceptable Indoor Air Quality in Residential Buildings (addenda to ANSI/ASHRAE Addendum 62.2f-2025)

Apart from cooking and cooking appliances, gas-fired unvented combustion room heaters can also produce emissions of contaminants for which we do not require, as of now, any additional ventilation in ASHRAE 62.2. This proposal is intended to provide consistent treatment where exhaust may be needed for source control.

[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>

Comment Deadline: November 8, 2026

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

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

Addenda

BSR/ASHRAE/IES Addendum f Standard 90.2-202x, High-Performance Energy Design of Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.2-2024)

This addendum includes definitions and requirements for EV capable spaces and DCFC spaces. It also provides trade-offs that will generally apply to large multifamily buildings and residential buildings with numerous parking spaces. The tradeoffs are intended to provide building owners with increased flexibility with methods to comply with the standard and to reduce barriers for buildings that provide a large number of parking spaces relative to the dwelling units.

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

Send comments (copy psa@ansi.org) to: Free download 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 | tloxley@ashrae.org, www.ashrae.org

Addenda

BSR/ASHRAE/IES Addendum g Standard 90.2-202x, High-Performance Energy Design of Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.2-2024)

This proposal makes the following changes to air leakage testing requirements: Removes ACH50 as an allowable testing metric and threshold for compliance. Makes changes to air leakage testing requirements provision that allows buildings to exceed the maximum air leakage target by up to 15% before applying corrective measures and retesting to demonstrate compliance. Removes a duplicative air leakage requirement in 6.2.1. The requirement and test threshold was, at one time, different than the value at 7.1.2. Since these are now the same, the section for the air leakage requirement in 6.2.1 has been updated to reference 7.1.2.

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

Send comments (copy psa@ansi.org) to: Free download at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

AWWA (American Water Works Association)

6666 W. Quincy Avenue, Denver, CO 80235 | mrohr@awwa.org, www.awwa.org

Revision

BSR/AWWA A100-202x, Water Wells (revision of ANSI/AWWA A100-2020)

This standard describes the minimum requirements for vertical water supply wells and is intended primarily for municipal and industrial applications.

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

Send comments (copy psa@ansi.org) to: AWWA, Frank Kurtz (fkurtz@awwa.org)

Comment Deadline: November 8, 2026

RESOLVE (Resolve, Inc.)

2445 M Street, NW, Suite 550, Washington, DC 20037 | pr3standards@resolve.ngo, www.resolve.ngo

New Standard

BSR/RESOLVE RES-003-202x, Reusable packaging system design standard: Marking and labeling of reusable containers, collection points, signage, and other assets (new standard)

This standard specifies visual and verbal requirements, including a reuse symbol, colors, fonts, and text that should be incorporated into product labeling, return point designs, and reuse signage. The standard does not cover requirements for digital labels (e.g. barcodes or QR codes). The intent is to establish consistent reuse labeling that makes it easy for consumers to identify and use containers, return points, and other assets in a reuse system.

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

Send comments (copy psa@ansi.org) to: <https://forms.gle/vkRjASLx1a3Cg6Km8>

ULSE (UL Standards and Engagement)

1603 Orrington Ave, Suite 20000, Evanston, IL 60201 | Susan.P.Malohn@ul.org, <https://ulse.org/>

New Standard

BSR/UL 2201A-202x, Standard for Safety for Flammability Testing for Portable Generator Tents, Running Covers, and Assemblies (new standard)

Revisions to the proposed first edition of the Standard for Safety for Flammability Testing for Portable Generator Tents, Running Covers, and Assemblies, UL 2201A, including applicable requirements for Canada.

[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.org/ProposalAvailable>

ULSE (UL Standards and Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | marina.currie@ul.org, <https://ulse.org/>

Revision

BSR/UL 207-202x, Standard for Safety for Refrigerant-Containing Components and Accessories, Nonelectrical (revision of ANSI/UL 207-2026)

Requirements for Evaluating Refrigeration Fittings to Requirements within ISO 14903

[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 and Engagement)

12 Laboratory Drive, Durham, NC 27713 | Lanaya.bankins-woody@UL.org, <https://ulse.org/>

Revision

BSR/UL 1008S-202x, Standard for Safety for Solid-State Transfer Switches (revision of ANSI/UL 1008S-2025)

This proposal is to clarify UL 1008S short circuit compliance criteria.

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

Send comments (copy psa@ansi.org) to: Lanaya Bankins-Woody, lanaya.bankins-woody@ul.org

Comment Deadline: November 8, 2026

ULSE (UL Standards and Engagement)

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

Revision

BSR/UL 2849-202x, Standard for Safety for Electrical Systems for eBikes (revision of ANSI/UL 2849-2022)
Several improvements and updates were proposed to the Standard for Safety for Electrical Systems for eBikes.
The proposed revision to the criteria of the Input Test from the charger ratings to the product ratings will be withdrawn.

[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: November 23, 2026

AARST (American Association of Radon Scientists and Technologists)

527 N. Justice Street, Hendersonville, NC 28739 | StandardsAssist@gmail.com, www.aarst.org

Addenda

BSR/AARST MA-MFLB Addenda 26-9-202x, Protocol for Conducting Measurements of Radon and Radon Decay Products in Multifamily, School, Commercial and Mixed-Use Buildings (addenda to ANSI/AARST MA-MFLB-2023)
This standard of practice specifies procedures and minimum requirements when measuring radon concentrations in shared structures, or portions of shared structures, used for residential, non-residential, or mixed-use purposes to determine if radon mitigation is necessary to protect current and future occupants.

Single copy price: Free

Obtain an electronic copy from: <https://standards.aarst.org/public-review>

Send comments (copy psa@ansi.org) to: StandardsAssist@gmail.com

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

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

New Standard

BSR/AHRI Standard 610-202x (SI/I-P), Performance Rating of Central System Humidifiers for Residential Applications (new standard)

This standard applies to factory-made, electrically operated central system humidifiers that depend on the air stream of a central air system for moisture evaporation and distribution. The purpose of this standard is to establish for residential central system humidifiers: definitions; classifications; test requirements; rating requirements; minimum data requirements for Published Ratings; and operating requirements.

Single copy price: Free

Obtain an electronic copy from: <https://connect.ahrinet.org/standards-public-review/stdsunderpublicreview>

Send comments (copy psa@ansi.org) to: AHRI_Standards@ahrinet.org

Comment Deadline: November 23, 2026

ANS (American Nuclear Society)

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

Reaffirmation

BSR/ANS 2.26-2004 (R202x), Categorization of Nuclear Facility Structures, Systems, and Components For Seismic Design (reaffirmation of ANSI/ANS 2.26-2004 (R2021))

This standard provides (a) criteria for selecting the seismic design category 1) (SDC) for nuclear facility structures, systems, and components (SSCs) to achieve seismic safety and (b) criteria and guidelines for selecting Limit States for these SSCs to govern their seismic design. The Limit States are selected to ensure the desired safety performance in an earthquake. The criteria will be developed following the risk-informed and performance-based principles.

Single copy price: \$131.00

Obtain an electronic copy from: orders@ans.org

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

ASA (ASC S3) (Acoustical Society of America)

1305 Walt Whitman Road, Suite 300, Melville, NY 11747 | standards@acousticalsociety.org, www.acousticalsociety.org

Revision

BSR ASA S3.21-202x, Methods for Manual Pure-Tone Threshold Audiometry (revision of ANSI ASA S3.21-2004 (R2023))

This Standard provides a procedure for pure-tone audiometry that will serve the needs of persons conducting threshold measurements in industry, schools, medical settings, and other areas where valid audiometric threshold measurements are needed. The method can be implemented manually with an audiometer that complies with ASA/ANSI S3.6 or by computer automation.

Single copy price: \$145.00

Obtain an electronic copy from: standards@acousticalsociety.org

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

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

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

New Standard

BSR/ASHRAE Standard 241P-202x, Control of Infectious Aerosols (new standard)

Standard 241-2023 was passed under an expedited process in response to the COVID19 pandemic. Because of the expedited process, it did not qualify for ANSI certification. ASHRAE is now processing a revision to that standard using the normal ANSI/ASHRAE procedures. The overall objectives, title, purpose and scope of the standard remain the same.

Single copy price: Free

Obtain an electronic copy from: <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

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

Comment Deadline: November 23, 2026

AWWA (American Water Works Association)

6666 W. Quincy Avenue, Denver, CO 80235 | mrohr@awwa.org, www.awwa.org

Reaffirmation

BSR/AWWA C560-2021 (R202x), Cast-Iron Slide Gates (reaffirmation of ANSI/AWWA C560-2021)

This standard describes vertically mounted, cast-iron slide gates with full aperture closing, designed for either seating head, unseating head, or both, in ordinary water supply and wastewater service. The gates are primarily used to shut off or throttle water or wastewater flow through a rectangular or round orifice, end of channel, or in-channel opening. The gates may be either conventional-closure or the flush-bottom-closure type and may open upward or downward. This standard also describes manual slide gate actuator mechanisms together with standard accessories.

Single copy price: Free

Obtain an electronic copy from: ETSupport@awwa.org

Send comments (copy psa@ansi.org) to: AWWA, Frank Kurtz (fkurtz@awwa.org)

AWWA (American Water Works Association)

6666 W. Quincy Avenue, Denver, CO 80235 | mrohr@awwa.org, www.awwa.org

Reaffirmation

BSR/AWWA C561-2021 (R202x), Fabricated Stainless-Steel Slide Gates (reaffirmation of ANSI/AWWA C561-2021)

This standard describes vertically mounted, fabricated stainless-steel slide gates with full-aperture closure, designed for either seating head or unseating head or both, in ordinary water supply and wastewater service. The gates are primarily used to shut off or throttle water or wastewater flow through a rectangular or round orifice, end of channel, or in-channel opening. They may be of either conventional-closure or flush-bottom-closure type and may open upward or downward. This standard also describes manual gate actuator mechanisms together with standard accessories.

Single copy price: Free

Obtain an electronic copy from: ETSupport@awwa.org

Send comments (copy psa@ansi.org) to: AWWA, Frank Kurtz (fkurtz@awwa.org)

AWWA (American Water Works Association)

6666 W. Quincy Avenue, Denver, CO 80235 | mrohr@awwa.org, www.awwa.org

Reaffirmation

BSR/AWWA C562-2021 (R202x), Fabricated Aluminum Slide Gates (reaffirmation of ANSI/AWWA C562-2021)

This standard describes vertically mounted, fabricated aluminum slide gates with full-aperture closure, designed for either seating head or unseating head or both, in ordinary water supply and wastewater service. The gates are primarily used to shut off or throttle water or wastewater flow through a rectangular or round orifice, end of channel, or in-channel opening. They may be of either conventional-closure or flush-bottom-closure type and may be opened upward or downward. This standard also describes manual gate actuator mechanisms together with standard accessories.

Single copy price: Free

Obtain an electronic copy from: ETSupport@awwa.org

Send comments (copy psa@ansi.org) to: AWWA, Frank Kurtz (fkurtz@awwa.org)

Comment Deadline: November 23, 2026

AWWA (American Water Works Association)

6666 W. Quincy Avenue, Denver, CO 80235 | mrohr@awwa.org, www.awwa.org

Reaffirmation

BSR/AWWA C563-2021 (R202x), Fabricated Composite Slide Gates (reaffirmation of ANSI/AWWA C563-2021)

This standard describes vertically mounted, fabricated, composite, resilient-seated slide gates with full-aperture closure, designed for either seating head or unseating head or both, in ordinary water supply and wastewater service. The gates are primarily used to shut off or throttle water and wastewater flow through a rectangular or round orifice, end of channel, or in-channel opening. They may be of either conventional-closure or flush-bottom-closure type and may be opened either upward or downward. This standard also describes manual gate actuator mechanisms together with standard accessories.

Single copy price: Free

Obtain an electronic copy from: ETSupport@awwa.org

Send comments (copy psa@ansi.org) to: AWWA, Frank Kurtz (fkurtz@awwa.org)

AWWA (American Water Works Association)

6666 W. Quincy Avenue, Denver, CO 80235 | mrohr@awwa.org, www.awwa.org

Revision

BSR/AWWA B304-202x, Liquid Oxygen for Ozone Generation for Water, Wastewater, and Reclaimed Water Systems (revision of ANSI/AWWA B304-2021)

This standard describes liquid oxygen (LOX) for the generation of ozone used in the treatment of potable water, wastewater, or reclaimed water.

Single copy price: Free

Obtain an electronic copy from: ETSupport@awwa.org

Send comments (copy psa@ansi.org) to: AWWA, Frank Kurtz (fkurtz@awwa.org)

AWWA (American Water Works Association)

6666 W. Quincy Avenue, Denver, CO 80235 | mrohr@awwa.org, www.awwa.org

Revision

BSR/AWWA C503-202x, Wet-Barrel Fire Hydrants (revision of ANSI/AWWA C503-2021)

This standard pertains to the various types and classes of wet-barrel fire hydrants for use in fire-protection service in areas where the climate is mild and freezing temperatures do not occur. A wet-barrel hydrant has one or more valve openings above the ground line and, under normal operating conditions, the entire interior of the hydrant is subjected to water pressure at all times. Each outlet nozzle has an independent, compression-type valve (i.e., working with or against the pressure) that controls discharge from that particular outlet.

Single copy price: Free

Obtain an electronic copy from: ETSupport@awwa.org

Send comments (copy psa@ansi.org) to: AWWA, Frank Kurtz (fkurtz@awwa.org)

Comment Deadline: November 23, 2026

CSA (CSA America Standards Inc.)

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

Revision

BSR/CSA HGV 4.9-202x, Hydrogen fuelling stations (revision of ANSI/CSA HGV 4.9-2020 (R2025))

This Standards specifies the mechanical, electrical, and process performance control requirements for integrated hydrogen fueling station (HFS) equipment (HFS modules) which transfer hydrogen from a source to vehicles with hydrogen fuel storage system, and includes requirements for light, medium, and heavy-duty vehicle fuelling, including vehicles with H35, H70, LH2, and CcH2 fuel storage systems.

Single copy price: Free

Obtain an electronic copy from: ansi.contact@csagroup.org

Send comments (copy psa@ansi.org) to: ansi.contact@csagroup.org

ECIA (Electronic Components Industry Association)

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

Revision

BSR/EIA 886-C-202x, Resistors, Thick Film Array on Ceramic (revision and redesignation of ANSI/EIA 886-B -2020)

This specification defines the requirements for a family of thick film chip resistor arrays in ceramic with various configurations and package sizes.

Single copy price: \$76.00

Obtain an electronic copy from: store accuristech.com

Send comments (copy psa@ansi.org) to: Edward Mikoski (emikoski@ecianow.org)

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 22-202x, Standard for Water Tanks for Private Fire Protection (revision of ANSI/NFPA 22-2023)

This standard provides the minimum requirements for the design, construction, installation, and maintenance of tanks and accessory equipment that supply water for private fire protection, including the following: (1) Gravity tanks, suction tanks, pressure tanks, and embankment-supported coated fabric suction tanks; (2) Towers; (3) Foundations; (4) Pipe connections and fittings; (5) Valve enclosures; (6) Tank filling; and (7) Protection against freezing.

Obtain an electronic copy from: www.nfpa.org/22next

Send comments (copy psa@ansi.org) to: www.nfpa.org/22next

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 79-202x, Electrical Standard for Industrial Machinery (revision of ANSI/NFPA 79-2024)

The provisions of this standard shall apply to the electrical/electronic equipment, apparatus, or systems of industrial machines supplied from a nominal voltage of 1000 volts or less, and commencing at the point of connection of the supply circuit conductors to the electrical equipment of the machine. This standard does not include the additional requirements for machines intended for use in hazardous (classified) locations.

Obtain an electronic copy from: www.nfpa.org/79next

Send comments (copy psa@ansi.org) to: www.nfpa.org/79next

Comment Deadline: November 23, 2026

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 660-202x, Standard for Combustible Dusts and Particulate Solids (revision of ANSI/NFPA 660-2025)

This standard addresses the fire, flash fire, and explosion hazards of combustible dusts and particulate solids.

This standard also addresses all metals and alloys that are in a form that is capable of combustion or explosion, as well as other hazards, in accordance with the scope of Chapter 12. Additionally, the standard addresses the size reduction of sulfur and the handling of sulfur in any form, as well as other hazards entailed in processing sulfur, in accordance with the scope of Chapter 14. . . see www.nfpa.org/660 for complete scope of standard.

Obtain an electronic copy from: www.nfpa.org/660next

Send comments (copy psa@ansi.org) to: www.nfpa.org/660next

TIA (Telecommunications Industry Association)

1320 North Courthouse Road, Suite 200, Arlington, VA 22201-2598 | tjenkins@tiaonline.org, www.tiaonline.org

Revision

BSR/TIA 569-F-202x, Telecommunications Pathways and Spaces (revision and redesignation of ANSI/TIA 569-E-2019, ANSI/TIA 569-E-1, 2022)

This standard specifies requirements for telecommunications pathways and spaces. New revision needed to: • Incorporate content of addendum ANSI/TIA-569-E-1 • Update references • Any other updates The entire document is open for comment.

Single copy price: \$212.00

Obtain an electronic copy from: standards-process@tiaonline.org

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

ULSE (UL Standards and Engagement)

12 Laboratory Drive, Durham, NC 27713 | Lanaya.bankins-woody@UL.org, <https://ulse.org/>

New Standard

BSR/UL 3008-202x, Standard for Automatic Interconnection Switches for Emergency Systems (new standard)

This scope covers automatic interconnection switches used with power generation equipment, including microgrids, to automatically connect and disconnect from a utility source when the generation equipment serves as an emergency or legally required standby power source. The requirements apply to automatic switches rated up to 1000 V AC and 1500 V DC for use in non-hazardous locations in accordance with NEC Articles 700 and 701. The standard addresses the switching devices and their integral control circuits, including enclosed and open-type designs intended for integration into other equipment, but does not cover utility grid interconnection compliance, microgrid source controls, or broader system-level controls. These switches are not intended for service equipment applications or line-side connections ahead of a service disconnect and may be used with or without transfer equipment. The requirements permit total system switching of various load types, including motors, heating loads, and lighting loads, while excluding manual or non-automatic interconnection switches and solid-state switching devices. For the purposes of the standard, the term “interconnection switch” refers specifically to automatic interconnection switches for emergency systems.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/ProposalAvailable>

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: December 8, 2026

ULSE (UL Standards and Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Julio.Morales@UL.org, <https://ulse.org/>

Revision

BSR/UL 8800-202x, Standard for Safety for Horticultural Lighting Equipment And Systems (revision of ANSI/UL 8800-2025)

This proposal for UL 8800 covers: 1) Leakage Current Testing

Single copy price: Free

Order from: <https://www.shopulstandards.com/>

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.org/ProposalAvailable>

ULSE (UL Standards and Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Julio.Morales@UL.org, <https://ulse.org/>

Revision

BSR/UL 8802-202x, Standard for Safety for Ultraviolet (UV) Germicidal Equipment and Systems (revision of ANSI/UL 8802-2023)

This proposal for UL 8802 covers: 1) Photobiological assessment - skin and eye limits 2) Presence Detection Determination 3) Functional Safety of Autonomous Control Systems

Single copy price: Free

Order from: <https://www.shopulstandards.com/>

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.org/ProposalAvailable>

Technical Reports Registered with ANSI

Technical Reports Registered with ANSI are not consensus documents. Rather, all material contained in Technical Reports Registered with ANSI is informational in nature. Technical reports may include, for example, reports of technical research, tutorials, factual data obtained from a survey carried out among standards developers and/or national bodies, or information on the "state of the art" in relation to standards of national or international bodies on a particular subject. Immediately following the end of a 30-day announcement period in Standards Action, the Technical Report will be registered by ANSI. Please submit any comments regarding this registration to the organization indicated, with a copy to (psa@ansi.org).

ASC X9 (Accredited Standards Committee X9, Incorporated)

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

New Technical Report

ASC X9 TR 61-2026, Post Quantum Cryptography Assessment Guideline (technical report)

This technical report is a Post-Quantum Cryptography (PQC) Assessment Guideline, providing objectives and criteria, without specifying details that will be addressed in other industry standards. The guideline might be used by an organization as a self-assessment tool, an informal assessment of a third party service provider, or an independent assessment by a qualified information security professional. This guideline is in the spirit of the original TG-3 / TR-39 which are now part of the PCI PIN assessment program.

Project Withdrawn

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

CTA (Consumer Technology Association)

1919 Sout Eads Street, Arlington, VA 22202 | klee@cta.tech, www.cta.tech

BSR/CTA 2145-202x, Evaluation and Disclosure Criteria for Self-Testing QRNGs (new standard)

Send comments (copy psa@ansi.org) to: Kerri Haresign <KHaresign@cta.tech>

Withdrawal of an ANS by ANSI-Accredited Standards Developer

In accordance with clause 4.2.1.3.2 Withdrawal by ANSI-Accredited Standards Developer of the ANSI Essential Requirements, the following American National Standards have been withdrawn as an ANS.

ACP (American Clean Power Association)

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

ANSI/AWEA 61400-27-1-2017, Electrical simulation models - Wind turbines (identical national adoption of IEC 61400-27-1:2015)

Send comments (copy psa@ansi.org) to: Questions may be directed to: Duane Brown <dbrown@cleanpower.org>

AMCi (AMC Institute)

107 South West Street, Suite 481, Alexandria, VA 22314 | tpigg@amcinstitute.org, www.amcinstitute.org

ANSI/AMCI A100.1-2023, Standard of Good Practices for the Association Management Company Industry (revision of ANSI/AMCI A100.1-2018)

Send comments (copy psa@ansi.org) to: Questions may be directed to: Thomas Pigg <tpigg@amcinstitute.org>

ASTM (ASTM International)

100 Barr Harbor Drive, PO Box C700, West Conshohocken, PA 19428-2959 | accreditation@astm.org, www.astm.org

ANSI/ASTM F894-2024, Specification for Polyethylene (PE) Large Diameter Profile Wall Sewer and Drain Pipe (revision of ANSI/ASTM F894-2019)

Send comments (copy psa@ansi.org) to: Questions may be directed to: Meredith Klein <accreditation@astm.org>

HL7 (Health Level Seven)

455 E. Eisenhower Parkway, Suite 300 #025, Ann Arbor, MI 48108 | lynn@hl7.org, www.hl7.org

ANSI/HL7 V3 RCL, R2-2007 (R2020), HL7 Version 3 Standard: Refinement, Constraint and Localization to Version 3 Messages, Release 2 (reaffirmation of ANSI/HL7 V3 RCL R2-2007 (R2015))

Send comments (copy psa@ansi.org) to: Questions may be directed to: Lynn Laakso <lynn@hl7.org>

NCPDP (National Council for Prescription Drug Programs)

9240 East Raintree Drive, Scottsdale, AZ 85260 | mweiker@ncpdp.org, www.ncpdp.org

ANSI/NCPDP RTPB Standard v12-2021, NCPDP Real-Time Prescription Benefit Standard v12 (revision and redesignation of ANSI/NCPDP RTPB Standard v11-2020)

Send comments (copy psa@ansi.org) to: Questions may be directed to: Margaret Weiker <mweiker@ncpdp.org>

Final Actions on American National Standards

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

AAMI (Association for the Advancement of Medical Instrumentation)

901 N. Glebe Road, Suite 300, Arlington, VA 22203 | tkim@aami.org, www.aami.org

ANSI/AAMI ST91-2021 (R2026), Flexible and semi-rigid endoscope processing in health care facilities (reaffirmation of ANSI/AAMI ST91-2021) Final Action Date: 9/29/2026 | *Reaffirmation*

ASA (ASC S12) (Acoustical Society of America)

1305 Walt Whitman Road, Suite 300, Melville, NY 11747 | standards@acousticalsociety.org, www.acousticalsociety.org

ANSI S12.7-2026, Methods for the Measurement of Impulsive Sound Waveforms (revision of ANSI ASA S12.7-1986 (R2024)) Final Action Date: 9/29/2026 | *Revision*

ASABE (American Society of Agricultural and Biological Engineers)

2950 Niles Road, St. Joseph, MI 49085 | ingeson@asabe.org, <https://www.asabe.org/>

ANSI/ASABE S673-2026, Safety for Boom Mounted Mowers (new standard) Final Action Date: 10/1/2026 | *New Standard*

ANSI/ASAE S390.7 (ISO 12934-2022) JAN2022 (R2026), Tractors and machinery for agriculture and forestry - Basic types - Vocabulary (reaffirm a national adoption ANSI/ASAE S390.7 (ISO 12934-2022) JAN2022) Final Action Date: 9/29/2026 | *Reaffirmation*

ASC X9 (Accredited Standards Committee X9, Incorporated)

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

ANSI X9.152-2026, PKI Lifecycle Management (new standard) Final Action Date: 9/30/2026 | *New Standard*

ANSI X9.100-10-2021 (R2026), Paper for MICR Documents (reaffirmation of ANSI X9.100-10-2021) Final Action Date: 10/1/2026 | *Reaffirmation*

ANSI X9.100-20-2021 (R2026), Magnetic Ink Character Recognition: Printing MICR Characters (reaffirmation of ANSI X9.100-20-2021) Final Action Date: 9/30/2026 | *Reaffirmation*

ANSI X9.100-120-2015 (R2026), Bank Deposit Tickets (reaffirmation of ANSI X9.100-120-2015 (R2021)) Final Action Date: 9/30/2026 | *Reaffirmation*

ANSI X9.100-187-2021 (R2026), Electronic Exchange of Check and Image Data - Domestic (reaffirmation of ANSI X9.100-187-2021) Final Action Date: 10/1/2026 | *Reaffirmation*

ANSI X9.100-160-1-2021 (R2026), Magnetic Ink Printing (MICR) Part 1: Placement and Location (reaffirmation of ANSI X9.100-160-1-2021) Final Action Date: 10/1/2026 | *Reaffirmation*

ANSI X9.129-2020 (R2026), Legal Orders Exchange, Version 3 (reaffirmation of ANSI X9.129-2020) Final Action Date: 9/30/2026 | *Reaffirmation*

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

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

ANSI/ASHRAE/ASHE Addendum 170v-2025, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Standard 170-2021) Final Action Date: 9/30/2026 | *Addenda*

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

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

ANSI/ASHRAE/ASHE Addendum 170y-2025, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Standard 170-2021) Final Action Date: 9/30/2026 | *Addenda*

ANSI/ASHRAE/ICC/IES/USGBC Addendum ac to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2023, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2023) Final Action Date: 9/30/2026 | *Addenda*

ANSI/ASHRAE/ICC/IES/USGBC Addendum ad to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2023, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2023) Final Action Date: 9/30/2026 | *Addenda*

ANSI/ASHRAE/ICC/IES/USGBC Addendum aj to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2023, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2023) Final Action Date: 9/30/2026 | *Addenda*

ANSI/ASHRAE/ICC/IES/USGBC Addendum r to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2023, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2023) Final Action Date: 9/30/2026 | *Addenda*

ANSI/ASHRAE/ICC/IES/USGBC Addendum y to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2023, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2023) Final Action Date: 9/30/2026 | *Addenda*

ANSI/ASHRAE/IES Addendum d to ANSI/ASHRAE/IES Standard 100-2024, Energy and Emissions Building Performance Standard for Existing Buildings (addenda to ANSI/ASHRAE/IES Standard 100-2024) Final Action Date: 9/30/2026 | *Addenda*

ANSI/ASHRAE/IES Addendum g to ANSI/ASHRAE/IES Standard 100-2024, Energy and Emissions Building Performance Standard for Existing Buildings (addenda to ANSI/ASHRAE/IES Standard 100-2024) Final Action Date: 9/30/2026 | *Addenda*

ANSI/ASHRAE Standard 41.13-2023 (R2026), Standard Methods for Fuel Higher Heating Value Measurement (reaffirmation of ANSI/ASHRAE Standard 41.13-2023) Final Action Date: 9/30/2026 | *Reaffirmation*

ASME (American Society of Mechanical Engineers)

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

ANSI/ASME EA-10-2026, Decarbonization Assessment for Facilities (new standard) Final Action Date: 10/1/2026 | *New Standard*

AWPA (ASC 05) (American Wood Protection Association)

2430 US Highway 27 STE #330-223, Clermont, FL 34714 | email@awpa.com, www.awpa.com

ANSI O5.3-2026, Solid Sawn Wood Crossarms, Braces, and Ground Wire Moulding: Specifications and Dimensions (revision of ANSI O5.3-2021) Final Action Date: 9/29/2026 | *Revision*

ECIA (Electronic Components Industry Association)

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

ANSI/EIA 60384-19-2026, Fixed capacitors for use in electronic equipment - Part 19: Sectional specification - Fixed metallized polyethylene-terephthalate film dielectric surface mount d.c. capacitors (identical national adoption of IEC 60384-19:2022 and revision of ANSI/EIA 60384-19-2017) Final Action Date: 9/29/2026 | *National Adoption*

ECIA (Electronic Components Industry Association)

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

ANSI/EIA 60384-20-2026, Fixed capacitors for use in electronic equipment - Part 20: Sectional specification - Fixed metallized polyphenylene sulfide film dielectric surface mount d.c. capacitors (identical national adoption of IEC 60384-20:2023 and revision of ANSI/EIA 60384-20-2017) Final Action Date: 9/29/2026 | *National Adoption*

ANSI/EIA 60384-23-2026, Fixed capacitors for use in electronic equipment - Part 23: Sectional specification - Fixed metallized polyethylene naphthalate film dielectric surface mount d.c. capacitors (identical national adoption of IEC 60384-23:2023 and revision of ANSI/EIA 60384-23-2017) Final Action Date: 9/29/2026 | *National Adoption*

ANSI/EIA 60938-2-1-2026, Fixed Inductors for Electromagnetic Interference Suppression Part 2-1: Blank Detail Specification Inductors for Which Safety Tests Are Required Assessment Level D (identical national adoption of IEC 60938-2-1:2023 ED2 and revision of ANSI/EIA 60938-2-1-2014 (R2021)) Final Action Date: 9/30/2026 | *National Adoption*

NEMA (National Electrical Manufacturers Association)

1300 North 17th Street, Suite 900, Arlington, VA 22209 | Khaled.Masri@nema.org, www.nema.org

ANSI ICEA S-105-692-2026, Standard for 600 Volt Single Layer Thermoset Insulated Utility Underground Distribution Cables (Revision of ANSI ICEA S-105-692-2020) (revision of ANSI ICEA S-105-692-2020) Final Action Date: 10/1/2026 | *Revision*

ANSI ICEA S-76-474-2026, Standard for Neutral-Supported Power Cable Assemblies with Weather-Resistant Extruded Insulation Rated 600 Volts (Revision of ANSI ICEA S-76-474-2020) (revision of ANSI ICEA S-76-474-2020) Final Action Date: 10/1/2026 | *Revision*

ANSI ICEA S-81-570-2026, ICEA S-81-570-2026 Standard for 600 Volt Rated Cables of Ruggedized Design for Direct Burial Installations as Single Conductors or Assemblies of Single Conductors (Revision of ANSI ICEA S-81-570-2019) (revision of ANSI ICEA S-81-570-2019) Final Action Date: 10/1/2026 | *Revision*

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | ajump@nsf.org, www.nsf.org

ANSI/NSF/CAN 50-2026 (i232r2), 50-20XX: Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2025a) Final Action Date: 9/29/2026 | *Revision*

ULSE (UL Standards and Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Doreen.Stocker@ul.org, <https://ulse.org/>

ANSI/UL 62841-3-8-2026, Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 3-8: Particular requirements for transportable single spindle vertical moulders (identical national adoption of IEC 62841-3-8:2024) Final Action Date: 10/2/2026 | *National Adoption*

ANSI/UL 62841-2-22-2026, Standard for Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-22: Particular requirements for hand-held cut-off machines (identical national adoption of IEC 62841-2-22) Final Action Date: 10/2/2026 | *National Adoption*

ANSI/UL 248-13-2026, Standard for Low-Voltage Fuses - Part 13: Semiconductor Fuses (revision of ANSI/UL 248-13-2022) Final Action Date: 9/30/2026 | *Revision*

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

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

INCITS Executive Board – ANSI Accredited SDO and U.S. 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 U.S. 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 learn more about participating on the INCITS Executive Board, contact Jennifer Garner at jgarner@itic.org or visit <http://www.incits.org/participation/executive-board> for more information.

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

- Producer – Hardware or Semiconductor
- Producer – Software or Services
- Producer - Telecom or Electronics
- Distributor
- Service Provider
- User/Consumer
- Consultants
- Government
- Standards Development Organizations and Consortia
- Academic Institution
- General Interest

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

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

BSR/AHRI Standard 610-202x (SI/I-P), Performance Rating of Central System Humidifiers for Residential Applications (new standard)

CGA (Compressed Gas Association)

8484 Westpark Drive, Suite 220, McLean, VA 22102 | kmastromichalis@cganet.com, www.cganet.com

BSR/CGA P-18-202x, Standard for Bulk Inert Gas Systems (new standard)

ECIA (Electronic Components Industry Association)

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

BSR/EIA 886-C-202x, Resistors, Thick Film Array on Ceramic (revision and redesignation of ANSI/EIA 886-B-2020)

NECA (National Electrical Contractors Association)

1201 Pennsylvania Avenue, Suite 1200, Washington, DC 20004 | Jeff.Noren@NECAnet.org, www.neca-neis.org

BSR/NECA 101-202x, Standard for Installing Steel Conduits (RMC, IMC, EMT) (revision of ANSI/NECA 101-2020)

OPEI (Outdoor Power Equipment Institute)

1605 King Street, Alexandria, VA 22314 | gknott@opei.org, www.opei.org

BSR/OPEI B71.9-202x, Standard for Multipurpose Off-Highway Utility Vehicles (revision of ANSI/OPEI B71.9-2022)

OPEI (Outdoor Power Equipment Institute)

1605 King Street, Alexandria, VA 22314 | gknott@opei.org, www.opei.org

BSR/OPEI B175.5-202x, Standard for Outdoor Power Equipment - Internal Combustion Engine-Powered Hand-Held Edgers - Safety and Environmental Requirements (revision of ANSI/OPEI B175.5-2021)

PHTA (Pool and Hot Tub Alliance)

1650 King Street, Suite 602, Alexandria, VA 22314 | bpavlik@phta.org, www.PHTA.org

BSR/PHTA/ICC-4-202x, Standard for Aboveground/Onground Residential Swimming Pools (revision of ANSI/PHTA/ICC-4-2025)

RESOLVE (Resolve, Inc.)

2445 M Street, NW, Suite 550, Washington, DC 20037 | pr3standards@resolve.ngo, www.resolve.ngo

BSR/RESOLVE RES-003-202x, Reusable packaging system design standard: Marking and labeling of reusable containers, collection points, signage, and other assets (new standard)

TIA (Telecommunications Industry Association)

1320 North Courthouse Road, Suite 200, Arlington, VA 22201-2598 | tjenkins@tiaonline.org, www.tiaonline.org

BSR/TIA 569-F-202x, Telecommunications Pathways and Spaces (revision and redesignation of ANSI/TIA 569-E-2019, ANSI/TIA 569-E-1, 2022)

ULSE (UL Standards and Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | marina.currie@ul.org, <https://ulse.org/>

BSR/UL 207-202x, Standard for Safety for Refrigerant-Containing Components and Accessories, Nonelectrical (revision of ANSI/UL 207-2026)

American National Standards (ANS) Announcements

Corrections

ASSP - American Society of Safety Professionals

BSR/ASSP A10.16-202x

The 10/2/2026, PINS notice mistakenly referenced incorrect project intent. This public review notice should have been described as:

BSR/ASSP A10.16-202x, Safety Requirements for Tunnels, Shafts and Caissons
(revision of ANSI/ASSP A10.16-2026)

Please direct inquiries to: Lauren Bauerschmidt <LBauerschmidt@assp.org>

Corrections

ASSP - American Society of Safety Professionals

BSR/ASSP A10.43-202x

The 10/2/2026, PINS notice mistakenly referenced incorrect project intent. This public review notice should have been described as:

BSR/ASSP A10.43-202x, Confined Spaces in Construction and Demolition Operations
(revision of ANSI/ASSP A10.43-2026)

Please direct inquiries to: Lauren Bauerschmidt <LBauerschmidt@assp.org>

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 link is 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)

IAPMO (International Association of Plumbing & Mechanical Officials)

ICC (International Code Council)

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)

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

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AAMI

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AARST

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AHRI

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ASABE

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ASHRAE

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AWPA (ASC 05)

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CSA

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ECIA

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NEMA (ASC C8)

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NFPA

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OPEI

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PHTA

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RESOLVE

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SFPE

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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.

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 the USNC/IEC team at ANSI's New York offices (usnc@ansi.org). The final date for offering comments is listed after each draft.

ACCESSING ISO AND IEC DRAFTS

ISO Drafts are available for purchase via the ANSI Web Store at <https://webstore.ansi.org>. IEC Drafts can be made available by contacting ANSI's Customer Service department. Please email your request for an IEC Draft to sales@ansi.org. When making your request, please provide the date of the Standards Action issue in which the IEC Draft document you are requesting appears.

ISO Standards

Agricultural food products (TC 34)

ISO/DIS 6921.2, Animal and vegetable fats and oils - Classification and description - 10/15/2026, \$107.00

Air quality (TC 146)

ISO/DIS 16000-10, Indoor air - Part 10: Determination of the emission of volatile organic compounds from building products and furnishing - Emission test cell method - 12/20/2026, \$67.00

Biotechnology (TC 276)

ISO/DIS 8472-3, Biotechnology - Data interoperability for stem cell data - Part 3: Schema of the database structure - 12/21/2026, \$46.00

Laboratory glassware and related apparatus (TC 48)

ISO/DIS 22916, Microfluidic devices - Interoperability requirements for dimensions, connections and initial device classification - 12/19/2026, \$88.00

Mechanical testing of metals (TC 164)

ISO/DIS 12108, Metallic materials - Fatigue testing - Fatigue crack growth method - 12/21/2026, \$125.00

Nuclear energy (TC 85)

ISO/DIS 29661, Reference radiation fields for radiation protection - Definitions and fundamental concepts - 12/24/2026, \$107.00

Personal safety - Protective clothing and equipment (TC 94)

ISO/DIS 6530, Protective clothing - Protection against liquid chemicals - Test method for resistance of materials to penetration by liquids - 12/20/2026, \$71.00

Road vehicles (TC 22)

ISO/DIS 3888-1, Passenger cars - Test track for a severe lane-change manoeuvre - Part 1: Double lane-change - 12/18/2026, \$40.00

Sharing economy (TC 324)

ISO/DIS 42501.2, Sharing economy - General trustworthiness and safety requirements for digital platforms - 10/11/2026, \$71.00

Ships and marine technology (TC 8)

ISO/DIS 6812, Ships and marine technology - Roll on/Roll off ship-to-shore connection - Interface between terminals and ships - 12/19/2026, \$62.00

Technical drawings, product definition and related documentation (TC 10)

ISO/DIS 18388, Technical product documentation (TPD) - Relief grooves - Types and dimensioning - 12/21/2026, \$53.00

Water quality (TC 147)

ISO/DIS 25806, Water quality - Guidance on field and laboratory procedures for aquatic macroinvertebrate sample preservation for DNA based analyses - 12/21/2026, \$58.00

ISO/DIS 25807, Water quality - Guidance on laboratory procedures for the mechanical homogenization and DNA extraction of aquatic macroinvertebrate samples - 12/19/2026, \$53.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 8652:2023/DAmD 1, - Amendment 1: Information technology - Programming languages - Ada - Amendment 1 - 12/18/2026, \$155.00

ISO/IEC DIS 15940, Systems and software engineering - Software engineering environment services - 12/20/2026, \$134.00

ISO/IEC DIS 7816-5, Identification cards - Integrated circuit cards - Part 5: Registration of application providers - 12/21/2026, \$46.00

IEC Standards

Electric welding (TC 26)

26/792/FDIS, IEC 60974-1 ED7: Arc welding equipment - Part 1: Welding power sources, 11/13/2026

Electrical accessories (TC 23)

23H/628/CD, IEC 60309-1/AMD1 ED5: Amendment 1 - Plugs, fixed or portable socket-outlets and appliance inlets for industrial purposes - Part 1: General requirements, 11/27/2026

23H/629/CD, IEC 60309-2/AMD1 ED5: Amendment 1 - Plugs, fixed or portable socket-outlets and appliance inlets for industrial purposes - Part 2: Dimensional compatibility requirements for pin and contact-tube accessories, 11/27/2026

23B/1628/FDIS, IEC 63418 ED1: Fixed accessories intended for household and similar purposes that supply power through an interface, 11/13/2026

23H/627/CD, IEC TR 63777 ED1: Plugs, fixed or portable socket-outlets and appliance inlets - Application with cables with aluminium conductors, 11/27/2026

23H/630/CD, IEC TS 63644 ED1: Vehicle coupler for contact interface for automated connection device underbody (ACD-U) systems, 11/27/2026

Electrical equipment in medical practice (TC 62)

62/600/CD, IEC/IEEE 63685 ED1: Post-market surveillance of machine learning-enabled medical devices, 12/11/2026

Electroacoustics (TC 29)

29/1246/CD, IEC 60118-15/AMD1 ED1: Amendment 1 - Electroacoustics - Hearing aids - Part 15: Methods for characterising signal processing in hearing aids with a speech-like signal, 11/27/2026

Fibre optics (TC 86)

86B/5288/CD, IEC 61753-021-07 ED1: Fibre optic interconnecting devices and passive components - Performance standard - Part 021-07: Hardened fibre optic connectors terminated on singlemode fibre for category A - Outdoor aerial environment, 11/27/2026

86B/5289/CD, IEC 61753-021-08 ED1: Fibre optic interconnecting devices and passive components - Performance standard - Part 021-08: Hardened fibre optic connectors terminated on singlemode fibre for category G - Outdoor ground environment, 11/27/2026

86C/2034/CDV, IEC 62148-12/AMD2 ED1: Amendment 2 - Fibre optic active components and devices - Package and interface standards - Part 12: Laser transmitters with a coaxial RF connector, 12/25/2026

Fuel Cell Technologies (TC 105)

105/1180/NP, PNW TS 105-1180 ED1: Fuel cell modules - SOFC module interface specifications, 12/25/2026

Fuses (TC 32)

32B/795/CD, IEC 63582 ED1: LOW-VOLTAGE FUSES: Product data and properties for information exchange, 11/27/2026

High Voltage Direct Current (HVDC) transmission for DC voltages above 100 kV (TC 115)

115/458/CD, IEC TR 63127-2 ED1: Guideline for System Design of HVDC converter stations - Part2: using Voltage Sourced Converters, 11/27/2026

Industrial-process measurement and control (TC 65)

65C/1489/CD, IEC 61158-2-2 ED1: Industrial networks - Fieldbus specifications - Part 2-2: Physical layer specification and service definition - Type 2 elements, 12/11/2026

65A/1267/FDIS, IEC 61508-1 ED3: Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 1: General requirements, 11/13/2026

65A/1262/FDIS, IEC 61508-2 ED3: Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 2: Requirements for electrical/electronic/programmable electronic safety-related systems, 11/13/2026

65A/1263/FDIS, IEC 61508-2-1 ED1: Functional safety of electrical/electronic/programmable electronic safety-related systems Part 2-1: Requirements for semiconductors, 11/13/2026

65A/1264/FDIS, IEC 61508-3 ED3: Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 3: Software requirements, 11/13/2026

65A/1265/FDIS, IEC 61508-4 ED3: Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 4: Definitions and abbreviations, 11/13/2026

65A/1261/FDIS, IEC 61508-5 ED3: Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 5: Examples of methods for the determination of safety integrity levels, 11/13/2026

65A/1266/FDIS, IEC 61508-6 ED3: Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 6: Guidelines on the application of IEC 61508-2 and IEC 61508-3, 11/13/2026

65A/1268/FDIS, IEC 61508-7 ED3: Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 7: Overview of techniques and measures, 11/13/2026

65C/1488/CD, IEC 61784-2-2 ED2: Industrial networks - Profiles - Part 2-2: Additional real-time fieldbus profiles based on ISO/IEC/IEEE 8802-3 - CPF 2, 12/11/2026

65C/1490/CD, IEC 61784-5-2 ED5: Industrial networks - Profiles - Part 5-2: Installation of fieldbuses - Installation profiles for CPF 2, 12/11/2026

65C/1483/CD, IEC 61784-5-22 ED2: Industrial networks - Profiles - Part 5-22: Installation of fieldbuses - Installation profiles for CPF 22, 12/11/2026

65C/1484/CD, IEC 61784-5-23 ED1: Industrial networks - Profiles - Part 5-23: Installation of fieldbuses - Installation profiles for CPF 23, 12/11/2026

65C/1485/CD, IEC 61918 ED5: Industrial networks - Installation of communication networks in industrial premises, 12/11/2026

Instrument transformers (TC 38)

38/871/NP, PNW 38-871 ED1: Instrument Transformers - Part 7: Additional requirements for Low Power Voltage Transformers (LPVT), 12/25/2026

38/872/NP, PNW 38-872 ED1: Instrument Transformers - Part 8: Additional requirements for Low Power Current Transformers (LPCT), 12/25/2026

Lamps and related equipment (TC 34)

34/1495/CDV, IEC 63562 ED1: Germicidal equipment - Low-pressure mercury UV radiation sources for germicidal purpose - Safety, 12/25/2026

34/1512A/DPAS, IEC PAS 63739 ED1: Specific rules for life cycle assessment of control gears for light sources, 10/23/2026

Magnetic components and ferrite materials (TC 51)

51/1640/CD, IEC 63093-16 ED1: Ferrite cores- Guidelines on dimensions and limits of surface irregularities - Part16: SQ-cores, 12/25/2026

Marine energy - Wave, tidal and other water current converters (TC 114)

114/658/CD, IEC TS 62600-2 ED3: Marine energy conversion systems - Part 2: Marine energy conversion systems - Design requirements, 11/27/2026

Maritime navigation and radiocommunication equipment and systems (TC 80)

80/1206/CDV, IEC 61174 ED5: Maritime navigation and radiocommunication equipment and systems - Electronic chart display and information system (ECDIS) - Operational and performance requirements, methods of testing and required test results, 12/25/2026

Nanotechnology standardization for electrical and electronic products and systems (TC 113)

113/1005/CD, IEC TS 62565-3-7 ED1: Nanomanufacturing - Product specification - Part 3-7: Graphene-related products - Blank detail specification: graphene-based heat dissipating film, 11/27/2026

Performance of household electrical appliances (TC 59)

59D/546/FDIS, IEC 60734/AMD1 ED4: Amendment 1 - Household electrical appliances - Performance - Water for testing, 11/13/2026

59F/584/CDV, IEC/ASTM 62885-10 ED1: Battery-related items for surface cleaning appliances for household or similar use - Methods for measuring the performance, 12/25/2026

59F/585/CDV, IEC/ASTM 62885-15 ED1: Surface cleaning appliances - Part 15: Material efficiency aspects for appliances for household or similar use - Methods for the determination of reliability of dry-cleaning vacuum cleaners, 12/25/2026

Piezoelectric and dielectric devices for frequency control and selection (TC 49)

49/1555/CD, IEC 63041-4 ED1: Piezoelectric Sensors - Part 4: Quartz Crystal Microbalance, 11/27/2026

Power transformers (TC 14)

14/1219(F)/CDV, IEC 60076-1 ED4: Power transformers - Part 1: General, 12/18/2026

14/1220(F)/CDV, IEC 60076-2 ED4: Power transformers - Part 2: Temperature rise for liquid-immersed transformers, 12/18/2026

Safety of household and similar electrical appliances (TC 61)

61D/573/CDV, IEC 60335-2-88 ED3: Household and similar electrical appliances - Safety - Part 2-88: Particular requirements for humidifiers intended for use with heating, ventilation, or air-conditioning systems, 12/25/2026

Semiconductor devices (TC 47)

47A/1227/CDV, IEC 62228-3 ED2: Integrated circuits - EMC evaluation of transceivers - Part 3: CAN transceivers, 12/25/2026

47A/1226/CDV, IEC 62228-5 ED2: Integrated circuits - EMC evaluation of transceivers - Part 5: Ethernet transceivers, 12/25/2026

47/3050/NP, PNW 47-3050 ED1: Semiconductor devices - Neuromorphic devices- Part 7: Evaluation method of synaptic decay time in memristor devices, 12/25/2026

Solar photovoltaic energy systems (TC 82)

82/2691(F)/FDIS, IEC 62109-1 ED2: Safety of power converters for use in photovoltaic power systems - Part 1: General requirements, 10/16/2026

82/2712/CD, IEC 62915 ED1: Photovoltaic (PV) modules - Type approval, design and safety qualification - Retesting, 11/27/2026

82/2708/CD, IEC TS 62257-300 ED1: Recommendations for renewable energy and hybrid systems for rural electrification - Part 300: Generators, 11/27/2026

82/2711/DTS, IEC TS 63624-1 ED1: Photovoltaic (PV) modules - Test method for ultraviolet-induced degradation - Part 1: Crystalline Silicon, 11/27/2026

82/2706/NP, PNW 82-2706 ED1: Photovoltaic power generating systems connection with grid - Testing of power conversion equipment - Part 2: Testing environment, 11/27/2026

(TC)

CIS/A/1523A/CD, CISPR 16-1-2/AMD2/FRAG1 ED2: Amendment 2 - Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-2: Radio disturbance and immunity measuring apparatus - Coupling devices for conducted disturbance measurements, 10/23/2026

SyCSmartCities/440/CD, IEC SRD 63671 ED1: Guidance on Multi-Functional Integrated Services "Street" Poles to support Smart Cities, 11/27/2026

SyCSmartCities/442/DTS, IEC TS 63526 ED1: Gap analysis on standards related to city information modelling and urban digital twins, 11/27/2026

SyCBDC/80/NP, PNW TS SYCBDC-80 ED1: Types and Sources of Olfactory Receptors for Bioelectronic Nose Applications, 12/25/2026

(TC 130)

130/56/CDV, IEC 63590-2-1 ED1: Cold storage equipment for medical use - Part 2-1: Refrigerating and freezing storage cabinets - Performance requirements and test methods, 12/25/2026

Wearable electronic devices and technologies (TC 124)

124/407/CD, IEC 63203-202-1 ED1: Wearable electronic devices and technologies - Part 202-1: Electronic textile - Test method for impedance of electrically conductive tracks for textile structures, 11/27/2026

124/401/CDV, IEC 63203-302-1 ED1: Wearable electronic devices and technologies - Part 302-1: Materials - Test method for torsion of conductive stretchable films, 12/25/2026

Wind turbine generator systems (TC 88)

88/1210/CD, IEC 61400-24 ED3: Wind energy generation systems - Part 24: Lightning protection, 11/27/2026

ISO/IEC JTC 1, Information Technology

(TC)

JTC1-SC41/637/CDV, ISO/IEC 30205 ED1: Internet of Things (IoT) - Cross-platform policy management framework for IoT, 12/25/2026



Newly Published ISO & IEC Standards

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

ISO Standards

Agricultural food products (TC 34)

[ISO 20001:2026](#), Food loss and waste management system - Requirements for the prevention and minimization of food loss and waste across the food supply chain, \$258.00

Aircraft and space vehicles (TC 20)

[ISO 23312:2026](#), Space systems - Detailed space debris mitigation requirements for spacecraft, \$193.00

Cleaning equipment for air and other gases (TC 142)

[IEC 63086-2-2:2026](#), \$366.00

Dentistry (TC 106)

[ISO 28399:2026](#), Dentistry - External tooth bleaching products, \$193.00

Ergonomics (TC 159)

[ISO 22567:2026](#), General requirements for establishing muscular strength databases, \$143.00

Feed machinery (TC 293)

[ISO 24142:2026](#), Safe design aspects for machinery in feed processing mills, \$193.00

Fluid power systems (TC 131)

[ISO 15524:2026](#), Pneumatic fluid power - Cylinders - Single-rod short-stroke cylinders, 1 000 kPa (10 bar) series, bores from 20 mm to 100 mm, \$63.00

Gas cylinders (TC 58)

[ISO 10156:2017/Amd 1:2026](#), - Amendment 1: Gas cylinders - Gases and gas mixtures - Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets - Amendment 1, \$26.00

Graphic technology (TC 130)

[ISO 19593-1:2026](#), Graphic technology - Use of PDF to associate processing steps and content data - Part 1: Processing steps for packaging and labels, \$193.00

Mechanical vibration and shock (TC 108)

[ISO 21940-14:2026](#), Mechanical vibration - Rotor balancing - Part 14: Procedures for assessing balance errors, \$143.00

Nuclear energy (TC 85)

[ISO 11483:2026](#), Nuclear fuel technology - Preparation of plutonium sources and determination of ²³⁸Pu/²³⁹Pu isotope ratio by alpha spectrometry, \$143.00

[ISO 11932:2026](#), Activity measurements of solid materials considered for recycling, re-use or disposal as non-radioactive waste, \$143.00

Other

[ISO 25202:2026](#), Leather - Chemical analysis - Determination of glutaraldehyde content, \$63.00

Plastics (TC 61)

[ISO 10840:2026](#), Plastics - Specifications and guidance for the use of standard fire tests, \$227.00

[ISO 18957:2026](#), Plastics - Determination of the aerobic biodegradation of plastic materials exposed to seawater using accelerated conditions in laboratory, \$227.00

[ISO 23648:2026](#), Plastics - Impinging flame test on water-filled plastic pipes, \$96.00

[ISO 13741-2:2026](#), Plastics/rubber - Determination of residual monomers and other organic components by capillary-column gas chromatography - Part 2: Headspace method, \$96.00

Tobacco and tobacco products (TC 126)

[ISO 21114:2026](#), Nicotine pouches - Determination of nicotine content using liquid chromatography ultraviolet spectroscopy (LC-UV), \$143.00

Tyres, rims and valves (TC 31)

[ISO 28580:2026](#), Passenger car, truck and bus tyre rolling resistance measurement methods - Single point test and correlation of measurement results, \$227.00

ISO Technical Specifications

Health Informatics (TC 215)

[ISO/TS 16569:2026](#), Health informatics - Standardized data set for exchanging exercise therapy recommendations for degenerative arthritis and backpain, \$143.00

ISO/IEC Guides

Other

[ISO/IEC Guide 79:2026](#), Gender responsive standards - Guidance for standards developers, FREE

ISO/IEC JTC 1 Technical Reports

[ISO/IEC TR 5812:2026](#), Information technology - Semantic metadata support in office documents, \$143.00

[ISO/IEC TR 30189-2:2026](#), Internet of Things (IoT) - IoT-based management of tangible cultural heritage assets - Part 2: Use cases, \$227.00

ISO/IEC JTC 1, Information Technology

[ISO/IEC 11801-6:2017/Amd 1:2026](#), - Amendment 1:
Information technology - Generic cabling for customer premises
- Part 6: Distributed building services - Amendment 1, \$96.00

Other

[ISO/IEC 80079-38:2026](#), Explosive atmospheres - Part 38:
Equipment and components in explosive atmospheres in
underground mines, \$258.00

IEC Standards

Audio, video and multimedia systems and equipment (TC 100)

[IEC 63474 Ed. 2.0 b:2026](#), Electrical and electronic household and office equipment - Measurement of networked standby power of edge equipment, \$371.00

Insulating materials (TC 15)

[IEC 60674-3-1 Ed. 3.0 b:2026](#), Plastic films for electrical purposes - Part 3: Specifications for individual materials - Sheet 1: Biaxially oriented polypropylene (PP) films for capacitors, \$114.00

[IEC 60674-3-1 Ed. 3.0 en:2026](#), Plastic films for electrical purposes - Part 3: Specifications for individual materials - Sheet 1: Biaxially oriented polypropylene (PP) films for capacitors, \$114.00

[S+ IEC 60674-3-1 Ed. 3.0 en:2026 \(Redline version\)](#), Plastic films for electrical purposes - Part 3: Specifications for individual materials - Sheet 1: Biaxially oriented polypropylene (PP) films for capacitors, \$194.00

Lamps and related equipment (TC 34)

[IEC 60598-2-24 Ed. 3.0 en:2026](#), Luminaires - Part 2-24:
Particular requirements - Luminaires with limited surface
temperatures, \$57.00

[IEC 60598-2-24 Ed. 3.0 b:2026](#), Luminaires - Part 2-24:
Particular requirements - Luminaires with limited surface
temperatures, \$57.00

[IEC 60598-2-24 Ed. 3.0 en:2026 EXV](#), Luminaires - Part 2-24:
Particular requirements - Luminaires with limited surface
temperatures, \$1236.00

International Electrotechnical Commission (IEC)

Call for Members (USNC)

USNC TAG Administrator and Members Needed – IEC SC 65F *Smart manufacturing and enterprise applications*

The USNC is now looking for a TAG administrator and members to join the newly established IEC SC 65F. **If individuals are interested in joining as members or serving as USNC TAG Administrator for the USNC TAG to IEC SC 65F, they are invited to contact Betty Barro at bbarro@ansi.org by October 29th, 2026.**

Please see the scope for IEC SC 65F below:

Scope: SC 65F *Smart manufacturing and enterprise applications*

To prepare international standards for enterprise applications, smart manufacturing, system documentation and human interface.

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.

Atna-Cipher

Public Review: September 4, 2026 to December 4, 2026

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.



**BSR/ASHRAE Addendum d
to ANSI/ASHRAE Standard 62.1-2025**

Public Review Draft

Proposed Addendum d to Standard 62.1-2025, Ventilation for Acceptable Indoor Air Quality

**First Public Review (September 2026)
(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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FOREWORD

The ASHRAE HVAC Systems and Equipment Handbook (2024, Chapter 19) states that duct leakage reduces a system's ability to deliver intended airflow, control contaminants, and maintain comfort. It also notes that leakage can lead to noise complaints, drafts, and visible dirt deposits around ducts and recommends duct leakage testing as a standard commissioning activity. Research Project RP-447 emphasizes that actual leakage is highly dependent on installation quality and must be verified through testing. Without mandated testing, systems specified to be sealed may still leak significantly.

Requiring duct sealing and field-verified leakage testing ensures that ventilation systems deliver the intended outdoor air to occupied spaces. This addresses a critical compliance gap by ensuring that design airflow rates are not just theoretical but are achieved in actual building operation. Properly sealed duct systems help prevent a range of IAQ-related issues, including inadequate ventilation, odors, dust accumulation, and the spread of indoor and outdoor contaminants. It also minimize infiltration from unconditioned zones and prevents pressure imbalances that can draw pollutants into occupied spaces, especially in systems with long duct runs or variable-air-volume (VAV) configurations.

Leakage testing introduces accountability into the construction process, encouraging improved workmanship. It provides an objective benchmark that verifies whether a duct system meets the performance expectations set by the designer. This directly supports the primary goal of ASHRAE 62.1.

[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 d to 62.1-2025

Revise Section 5.10 as follows:

5.10 Ventilation Air Distribution. Ventilating systems shall be designed in accordance with the requirements of Sections 5.10.1 through 5.10.34.

5.10.1 Designing for Air Balancing. Ventilation air distribution systems shall be provided that allow field verification of *outdoor air* intake flow (V_{ot}) during operation.

5.10.1.1 Designing for Varying Loads and Operating Conditions. The ventilation air distribution system for variable-air-volume (VAV) and multispeed constant-air-volume applications shall be provided with means to adjust the system to achieve at least the minimum ventilation airflow as required by Section 6 under any load condition or dynamic reset condition.

5.10.2 Designing for Breathing Zone Delivery. Ductwork shall be leak tested in accordance with ANSI/SMACNA 016 (2012) HVAC Air Duct Leakage Test Manual Chapter 4.

5.10.2.1 Testing Scope. Representative sections totaling not less than 10 percent of the total installed duct area shall be tested. Where the tested 10 percent fail to comply with the requirements of this section, then 40 percent of the total installed duct area shall be tested. Where the tested 40 percent fail to comply with the requirements of this section then 100 percent of the total installed duct area shall be tested. Sections shall be selected by the building owner or designated representative of the building owner. Positive pressure leakage

testing shall be permitted for negative pressure ductwork. The duct leakage class and test pressure shall be specified by the designer. The test pressure shall not be greater than the designed ductwork pressure class rating.

Informative Note: Allowable duct leakage requirements are frequently specified by energy or mechanical codes.

5.10.2.2 Allowable Leakage. The permitted duct leakage shall be not more than the following:

$$L_{max} = C_L \times P^{0.65} \tag{5-1}$$

where

L_{max} = maximum permitted leakage, cfm/100 ft² of duct surface area

C_L = duct leakage class, cfm/100 ft² of duct surface area at 1 inch of water column

P = test pressure, inches of water column

Exceptions to 5.10.2:

1. Transfer air ducts operating at less than 1 inch of water column (0.25 kPa).
2. Where duct leakage testing is performed in accordance with a method acceptable to the authority having jurisdiction.

5.10.2.3 Plenum Systems. When the ceiling or floor plenum is used both to recirculate *return air* and to distribute *ventilation* air to ceiling-mounted or floor-mounted terminal units, the system shall be engineered such that each space is provided with its required minimum ventilation airflow.

Informative Note: Systems with direct connection of ventilation air ducts to terminal units, for example, comply with this requirement.

5.10.3.4 Documentation. The design documents shall specify minimum requirements for air balance testing or reference applicable standards for measuring and balancing airflow. The design documents shall specify duct leakage and testing method consistent with Section 5.10.2. The design documentation shall state assumptions that were made in the design with respect to ventilation rates and air distribution.

Revise Section 9 as follows; renumber subsequent references:

17. SMACNA. 2020. ANSI/SMACNA 016-2012, *HVAC Duct Leakage Test Manual*, 2nd Edition. Chantilly, VA: Sheet Metal and Air Conditioning Contractors National Association.



**BSR/ASHRAE Addendum f
to ANSI/ASHRAE Standard 62.2-2025**

Public Review Draft

**Proposed Addendum f to
Standard 62.2-2025, Ventilation and
Acceptable Indoor Air Quality in
Residential Buildings**

**First Public Review (PPR)
(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).

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FOREWORD

Apart from cooking and cooking appliances, gas-fired unvented combustion room heaters can also produce emissions of contaminants for which we do not require, as of now, any additional ventilation in ASHRAE 62.2. This proposal is intended to provide consistent treatment where exhaust may be needed for source control.

The flow rates are based on models used by the gas-fired unvented heater industry (DeWerth et al.) as well as by Francisco et al. Assumptions in the modeling included that the gas-fired room heater was running at steady-state (heating capacity of the heater matched the heating load of the home), that the aim was to avoid reaching 100 ppb for nitrogen dioxide, that there was 0.35 ACH of ventilation (consistent with 62.2-compliant homes), and that there was an additional effective 0.35 ACH of removal due to the reactivity of nitrogen dioxide (within the range of values used by DeWerth et al. and Francisco et al.). Heater capacities for different climate zones were taken from industry sizing guidelines: 1.5 BTU/h/ft³ for climate zone 1, 1.8 BTU/h/ft³ for CZ2 and CZ6, 2.2 BTU/h/ft³ for CZ3, 2.4 BTU/h/ft³ for CZ4, and 2.8 BTU/h/ft³ for CZ5. These climate zones were mapped for approximate matches to the climate zone map found in ASHRAE Standard 62.2, Section 9.

For Exception 2, 1600 ppm of carbon dioxide traces back to the Sherman/Fairey/Crawford ASHRAE Journal article (May 2022) and is consistent with the IAQP in ASHRAE Standard 62.2.

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

Addendum f to 62.2-2025

Modify the standard as follows.

Proposal for gas-fired unvented heaters

Amend Section 5 as follows:

Table 5-1 Demand Controlled Local Exhaust Airflow Rates

Application	Airflow
<i>Kitchen</i>	• Vented range hood (including appliance-range hood combinations): 100 cfm (50 L/s) • Other <i>kitchen</i> exhaust fans, including downdraft: 300 cfm (150 L/s)
<i>Bathroom or toilet room</i>	50 cfm (25 L/s)
<u>Room with a gas-fired unvented room heater</u>	<u>See Table 5-1a</u>

Table 5-1a Required Local Exhaust Airflow Rate for Room with a gas-fired Unvented Room Heater

Climate Zone (based on Figure 9-1)	Minimum Exhaust Airflow from the room in which the appliance is located
<u>1A, 1B, 2A, 2B</u>	<u>150 cfm (75 L/s)</u>
<u>3A, 3B, 3C, 4C, 5C</u>	<u>200 cfm (100 L/s)</u>
<u>4A, 4B</u>	<u>270 cfm (135 L/s)</u>
<u>5A, 5B</u>	<u>300 cfm (150 L/s)</u>
<u>6A, 6B</u>	<u>380 cfm (190 L/s)</u>

5. LOCAL EXHAUST

5.1 Local Mechanical Exhaust. A local mechanical *exhaust system* shall be designed and installed in each *kitchen, bathroom, toilet room, and any other room that has a gas-fired unvented room heater* and shall be one of the following:

- A demand controlled local mechanical *exhaust system* meeting the requirements of Section 5.2 or
- A continuous local mechanical *exhaust system* meeting the requirements of Section 5.3.

Exception to 5.1(b): *Kitchens* that are not *enclosed kitchens* or *other rooms with a gas-fired unvented room heater* shall be provided with a demand controlled local mechanical *exhaust system* meeting the requirements of Section 5.2.

Exception 1 to 5.1: Alternative ventilation for *kitchens and bathrooms*: Other design methods that provide the required minimum exhaust airflow rates shall be permitted when approved by a licensed design professional.

Exception 2 to 5.1: Alternative for rooms with a gas-fired unvented room heater: Gas-fired unvented room heaters within the dwelling unit boundary shall be permitted when they meet section 6.4.3 and the dwelling unit has a ventilation system capable of maintaining the concentration of carbon dioxide at no more than 1600ppm according to Appendix D.

Exception 3 to 5.1: Alternative for bathrooms or bedrooms with a gas-fired unvented room heater: No additional exhaust ventilation is required for a heater installed in a bathroom when the exhaust fan is interconnected to the operation of the heater. For bedroom installations, the exhaust fan minimum airflow can be reduced by 50% of the exhaust airflow rate in Table 5-1a.

Add Subsection 6.4.3

6.4.3 Unvented Space Heating Appliances. Gas-Fired unvented space heating appliances shall be listed to the safety standard ANSI Z21.11.2, Gas-Fired Room Heaters, Volume II, Unvented Room Heaters (2002) or later, and shall comply with the appliance input limits and venting requirements of Section 12.3.2 of NFPA 54/ANSI Z223.1, National Fuel Gas Code, or Section 501.8 of the International Fuel Gas Code.

Amend Section 10 (REFERENCES) as follows:

10. REFERENCES

Section

CSA Group (CSA)
178 Rexdale Blvd
Toronto ON M9W 1R3
Canada
(416) 747-4000; www.csagroup.org

CAN/CSA C439-24	Laboratory Methods of Test for Rating the Performance of Heat/Energy-Recovery Ventilators	Table 7-1
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<u>CSA/ANSI Z21.11.2 - 2019</u>	<u>Gas-fired room heaters, volume II, unvented room heater</u>	<u>5.1, 6.4.3</u>
---------------------------------	--	-------------------

International Code Council (ICC)
200 Massachusetts Ave NW, Ste. 250
Washington, D.C. 20001
(202) 370-1800; www.iccsafe.org

IBC (2024)	International Building Code	3.2, 6.1.4
<u>IFGC (2024)</u>	<u>International Fuel Gas Code</u>	<u>6.4.3</u>

National Fire Protection Association (NFPA) 1
Batterymarch Park
Quincy, Massachusetts 02169-7471
(800) 344-3555; www.nfpa.org

NFPA 31 (2024)	Standard for the Installation of Oil-Burning Equipment	6.4.1
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NFPA 54/ANSI Z223.1 (2024)	National Fuel Gas Code	6.4.1, <u>6.4.3</u> , 6.6
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**BSR/ASHRAE/IES Addendum f
to ANSI/ASHRAE/IES Standard 90.2-2024**

Public Review Draft

Proposed Addendum f to Standard 90.2-2024, High-Performance Energy Design of Residential Buildings

**First Public Review (September 2026)
(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).

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FOREWORD

This addendum includes definitions and requirements for EV capable spaces and DCFC spaces. It also provides trade-offs that will generally apply to large multifamily buildings and residential buildings with numerous parking spaces. The tradeoffs are intended to provide building owners with increased flexibility with methods to comply with the standard and to reduce barriers for buildings that provide a large number of parking spaces relative to the dwelling units.

[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 f to 90.2-2024

Add two new definitions in section 3 as follows:

**Note the other definitions are added here for reference and are not part of the public review due to no proposed changes.*

automobile parking space: a space within a building or private or public parking lot, exclusive of driveways, ramps, columns, and office and work areas, for the parking of an automobile.

...

electric vehicle (EV): an automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, and electric motorcycles, primarily powered by an electric motor that draws current from a building electrical service, *electric vehicle supply equipment (EVSE)*, a rechargeable storage battery, a fuel cell, a photovoltaic (PV) array, or other source of electric current. Offroad, self-propelled electric mobile equipment, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, and boats, are not considered *electric vehicles*.

electric-vehicle-capable space (EV-capable space). A designated *automobile parking space* that is provided with electrical infrastructure such as, but not limited to, raceways, cables, electrical capacity, a panelboard or other electrical distribution equipment space necessary for the future installation of an *EVSE*.

electric vehicle supply equipment (EVSE): equipment for plug-in power transfer, including the ungrounded, grounded, and equipment grounding conductors, and the *electric vehicle* connectors, attachment plugs, personal protection system and all other fittings, devices, power outlets, or apparatuses installed specifically for the purpose of transferring energy between the premises wiring and the *electric vehicle*.

electric vehicle supply equipment installed space (EVSE-installed space). An *automobile parking space* that is provided with a dedicated *EVSE* connection.

electric-vehicle-ready space (EV-ready space): an *automobile parking space* provided with a branch circuit and either an outlet or enclosure for connection to *EVSE*.

Add new abbreviations to Section 3 as follows:

Abbreviations

DCFC Direct Current Fast Charging

Modify Section 7.6.7 as follows

Table 7-6 EVSE-Installed, and EV-Ready, and EV-capable Space Requirements for Multifamily Buildings

Number of Automobile Parking Spaces	Minimum Spaces with EVSE Installed^a	Minimum EV-Ready Spaces	<u>Minimum EV-Capable Spaces</u>
1 to 9	100%	—	—
10 to 24	50%	50%	—
25+	25%	75% —	<u>75%</u>

a. EVSE-installed spaces that exceed the minimum requirements in the table shall be permitted to be counted as *EV-ready spaces* for table compliance.

7.6.7 Plug-In Electric Vehicle Charging

7.6.7.1 Where parking is provided, *EVSE-installed spaces* shall be provided and future installation and use of *EVSE* shall be facilitated through the provision of *EV-ready spaces* or *EV-capable spaces* provided in compliance with Sections 7.6.7.1 through 7.6.7.5 and Section 9.1.9. Where more than one parking facility is provided on a site, *EV* parking spaces shall be calculated separately for each parking facility. The service panel or subpanel circuit directory shall identify the spaces reserved to support *EV* charging as *EV-ready spaces* or *EV-capable spaces*. The raceway location for *EV-ready spaces* shall be permanently and visibly marked as “EV-Ready.”

7.6.7.1.1 EV-capable spaces. Each *EV-capable space* used to meet the requirements of Section 7.6.7.1 shall comply with the following:

a. A continuous raceway or cable assembly shall be installed between a suitable panelboard or other on-site electrical distribution equipment and an enclosure or outlet located within 6 feet (1.8 m) of the *EV-capable space*.

b. The installed raceway or cable assembly shall be sized and rated to supply a minimum circuit capacity in accordance with Section 7.6.7.4

c. The electrical distribution equipment to which the raceway or cable assembly connects shall have sufficient dedicated space and spare electrical capacity for a two-pole circuit breaker or set of fuses.

d. The electrical enclosure or outlet and the electrical distribution equipment directory shall be marked: “For future *electric vehicle supply equipment (EVSE)*.”

Exception to 7.6.7.1: This section does not apply to *automobile parking spaces* used exclusively for trucks or delivery vehicles.

7.6.7.2 One to Two-Family Dwellings and Townhouses. For each *dwelling unit*, provide at least one *automobile parking space* with an *EVSE* installed. If there are fewer *automobile parking spaces* than *dwelling units*, all *automobile parking spaces*, if any, shall have an *EVSE* installed.

7.6.7.3 Multifamily Buildings (three or more units). *EVSE-installed spaces*, ~~and *EV-ready spaces*~~, and *EV-capable spaces* shall be provided in accordance with Table 7-6. Where the calculation of percent served results in a fractional parking space, it shall round up to the next whole number.

Exception to 7.6.7.3: Where a building has more than 2 *automobile parking spaces* per *dwelling unit*, 200% times the number of *dwelling units* may be used for calculating the total number of required *EVSE* installed and *EV-capable spaces* per section 7.6.7.2.

7.6.7.4 Electric Vehicle Charging System Capacity. The equipment load(s) on the electrical distribution equipment supplying the branch circuit(s) serving spaces with *EVSE-installed spaces* or *EV-ready spaces* shall be capable of supplying not less than 7.4 kVA full continuous load for each space. Where there are ten (10) or more spaces with *EVSE* installed, and an *EV* energy management system is used to control the load to each parking space, the electrical distribution equipment supplying the branch circuit(s) shall be capable of supplying not less than 2.1 3-8 kVA full continuous load for each space simultaneously with all spaces drawing power and not less than 7.4 kVA full continuous load for each space when not greater than half of all spaces are drawing power. Where an energy management system is used to control *EV* charging loads for the purposes of this section, it shall not be configured to turn off electrical power to *EVSE* or *EV-ready spaces* used to comply with Section 7.6.7.1.

7.6.7.6 Direct Current Fast Chargers: Installation of direct current fast charging (DCFC) *EVSEs* may be used to reduce the total number of required *EV-Capable spaces* per the requirements in sections 7.6.7.6.1 through 7.6.7.6.4.

7.6.7.6.1 Each DCFC shall be capable of providing 50 kVA or more simultaneously with each EVSE installed per section 7.6.7.4.

7.6.7.6.2 Each DCFC shall be permitted to reduce the minimum number of required EV-capable spaces by 5.

7.6.7.6.3 For every 5 EV-capable spaces reduced per 7.6.7.6, an additional EVSE-installed space is required. This additional space is non-inclusive of the DCFC space.

7.6.7.6.4 DCFC spaces used to trade off EV-capable spaces shall have permanent signage indicating a maximum parking time limit of no greater than 2 hours.



**BSR/ASHRAE/IES Addendum g
to ANSI/ASHRAE/IES Standard 90.2-2024**

Public Review Draft

Proposed Addendum g to Standard 90.2-2024, High-Performance Energy Design of Residential Buildings

**First Public Review (October 2026)
(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).

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

FOREWORD

This proposal makes the following changes to air leakage testing requirements:

- *Remove ACH₅₀ as an allowable testing metric and threshold for compliance. The ACH metric penalizes smaller footprints/multi-family units due to volume-to-surface-area ratios and does not appropriately scale with the size of a building or dwelling unit. The CFM₅₀/ft² of enclosure more appropriately assesses the requirement based on building or dwelling unit enclosure, regardless of geometric makeup or design. Users are now accustomed to CFM₅₀/ft² and are not reliant on ACH₅₀ calculations. Language requiring the reporting of dwelling unit enclosure area or building thermal envelope area was added to section C 1.5.2.*
- *Makes changes to air leakage testing requirements provision that allows buildings to exceed the maximum air leakage target by up to 15% before applying corrective measures and retesting to demonstrate compliance*
- *Removes a duplicative air leakage requirement in 6.2.1. The requirement and test threshold was, at one time, different than the value at 7.1.2. Since these are now the same, the section for the air leakage requirement in 6.2.1 has been updated to reference 7.1.2.*

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

Addendum g to 90.2-2024

Modify Section 3.2 as follows

3.2	Abbreviations and Acronyms
...	
ach₅₀	air changes per hour at 50 pa
...	

Modify Section 6.2.1 as follows

6.2.1 Maximum Envelope Air Leakage. The *building or dwelling unit* shall have a tested air leakage rate in accordance with section 7.1.2, no greater than 3 ach₅₀ or 0.15 cfm₅₀/ft² (0.75 L/s·m²) of dwelling-unit enclosure area or building thermal envelope area, as appropriate, at a pressure differential of 0.2 in. of water (50 Pa).

Modify Section 7.2.1 as follows

7.1.2 Building Thermal Envelope Air Leakage. The *building thermal envelope* shall have a tested air leakage rate not greater than ~~either 3.0 ach₅₀ or~~ 0.15 cfm₅₀/ft² (0.75 L/s·m²) of *dwelling-unit enclosure area* or *building thermal envelope area*, as appropriate, at a pressure differential of 0.2 in. of water (50 Pa).

Modify Normative Appendix C Section C1.3 as follows:

C1.3 Single-Dwelling-Unit Buildings. *Buildings* comprising a single *dwelling unit* shall be tested with a single fan pressurization test and represent the leakage rate for the entire structure. Where the tested leakage rate exceeds the maximum air leakage rate indicated in 7.1.2 ~~15% of the design target~~, diagnostics shall be performed to identify corrective air-leakage sealing measures necessary to achieve compliance. These corrective measures shall be applied and the *building* retested for compliance

Modify Normative Appendix C Section C1.4.1 as follows:

C1.4.1 Dwelling-Unit Testing. Where multiple *dwelling units* or other *spaces* are contained within one *building thermal envelope*, each unit shall be considered an individual testing unit, and the *building* air leakage rate shall be the weighted average of all tested unit results, weighted by each tested unit's enclosure area as follows:

- Where *buildings* have fewer than eight (8) total dwelling or sleeping testing units, each unit shall be tested.
- Where *buildings* have eight (8) or more dwelling or sleeping testing units, the greater of seven (7) units or 20% of the testing units in the *building* shall be tested, including a top-floor unit, a middle-floor unit, a ground-floor unit, and a unit with the largest *dwelling unit enclosure area*. For each tested unit that exceeds the maximum air leakage rate indicated in 7.1.2 ~~15% of the target air leakage rate~~, an additional three (3) units shall be tested, comprising a mixture of testing-unit types and locations within the *building*.
- Common areas with not less than one exterior wall in the *building thermal envelope* shall be tested and included in the weighted average.

Exception to (c): Corridors, *stairwells*, and enclosed *spaces* having a *conditioned floor area* not greater than 1500 ft² (139 m²).

Where any of the tested units exceeds the maximum air leakage rate indicated in 7.1.2 ~~15% of the design target leakage rate~~, diagnostics shall be performed on the noncompliant units to identify corrective air-leakage sealing measures necessary to achieve compliance. A new sampling of untested units shall be tested in accordance with Section C1.4.1(b)

Modify Appendix C Section C1.5.2 as follows

C1.5.2 Air leakage results shall be reported as ~~ach₅₀ or~~ as cfm₅₀/ft² (1.0 L/s·m²) of *dwelling-unit enclosure area* or *building thermal envelope area*, as appropriate, at a pressure differential of 0.2 in. of water (50 Pa). The tested *dwelling-unit enclosure area* or *building thermal envelope area* shall be reported. The conditioned volume (CV) of the building or building portion shall be calculated by taking the conditioned floor area per ANSI Z765³³ or BOMA Z65.4³⁴ and multiplying by the average ceiling height.

If the ceiling is not finished, the height of the lower portion of the floor joist/rafter shall be used to determine average ceiling height. The value of ach₅₀ shall be calculated using the following equation:

$$\text{ach}_{50} = 60 \times \text{cfm}_{50} / \text{CV (ft}^3\text{)}$$

$$\text{ach}_{50} = (3600 \times \text{L/s}) / \text{CV (L)}$$

Revisions to AWWA A100, September 2026

4.9.3 *Permanent Equipment and Material Disinfection.* All permanent equipment and material to be installed in the well shall be disinfected following the procedures in ANSI/AWWA C654 Sec. 4.4.

4.9.4 *Well Disinfection.* Disinfection is required both before permanent equipment is installed and again before activation of the well for distribution.

4.9.4.1 Disinfection solution. ~~The highest degree of successful chlorination~~ Disinfection can be achieved by preparing the chlorine solution of 100 mg/L available chlorine (ANSI/AWWA C654, Appendices – ‘Chemical Requirements for 100-mg/L Chlorine Solution’) at a recommended pH range of 5.5 to 6.5.

4.9.4.2 Disinfection procedure. The optimal procedure is to prepare a volume of chlorine solution equal to two to four times the standing well volume in a blending tank, then tremie the solution into all zones of the well:

- 25% of the volume at the well bottom
- 25% at the halfway position in the screen zone
- 25% at the top of the screen
- 25% to wash the upper portion of the well above the static water level.

In open-borehole wells, equal portions of chlorine solution should be tremied at the well bottom, halfway up the water column, at the static water level, and the upper level of the well.

Before permanent equipment is installed and after the chlorine solution is in place, a surge block, tight-fitting swab, or other means should be used to distribute the solution, effectively washing most surfaces and forcing the solution into the formation and filter pack. The solution should be distributed for a sufficient period to ensure the disinfecting solution is properly dispersed throughout the well, with the duration proportional to the total length of the well screen. ~~Distribution of the solution should be performed for no less than 30 min for each 20-ft section of screen or casing below the screen area.~~ In open-borehole construction, use of a hose or other device to recirculate the chlorine solution is preferable to avoid damaging the borehole wall.

This solution shall remain in the well for a period of at least 12 hrs.

After permanent equipment is installed and before activating the well for distribution, the disinfection procedures in ANSI/AWWA C654 Sec. 4.5 shall be followed.

4.9.5 *Dechlorination.* Disinfection of wells may require removal and disposal of chlorine solution. Federal, state, provincial, or local environmental regulations may require special provisions or permits before disposing of highly chlorinated water. Refer to ANSI/AWWA C655, Field Dechlorination, for appropriate dechlorination requirements.

4.9.6 *Sampling and testing.* ~~After completion of disinfection,~~ Verification testing in accordance with ANSI/AWWA C654 Section 5 shall be completed after permanent equipment is installed but before activating the well for distribution.

DRAFT

Proposed Revisions to RES-003: Reusable packaging system design standard — Marking and labeling of reusable containers, collection points, signage, and other assets

Note: Additions are shown as underlined text and deletions are shown as ~~striketrough~~.

A copy of the standard and rationale for changes available upon request. Contact pr3standards@resolve.ngo

6 Marking requirements for containers

6.5 Data carriers on container

The data carrier should be placed with consideration for the scanning environment, container design, expected handling, and intended function. For example, data carriers intended for consumer use should be placed on a surface easily viewable by users.

7 Marking requirements for collection points

7.5 Data carriers on collection points

The function and operational needs of a data carrier should be considered when choosing its location on a collection point. For example:

- a. Sufficient line of sight is available to scan data carrier ~~bar codes~~.
- b. Read range and materials are considered when placing RFID (radio signals often do not travel well through metal walls or lids).
- c. Data carriers that are intended to be scanned by users are marked on an external surface that is easily visible
- d. Data carriers that are only intended to be scanned by workers for operational purposes are marked on a surface that is not easily seen by other users and immediately visible to the operational workers that service the collection point, such as inside a main door or lid.
- e. Consideration is given to expected washing, environmental exposure, abrasion, and handling

Annex B Specifications for written text on reusable packaging assets

B.2 Accessible Language

DRAFT

B.2.1 General

Where appropriate, written return instructions SHOULD be supported by simple visual instructions or pictograms.

UL 2201A, Standard for Safety for Flammability Testing for Portable Generator Tents, Running Covers, and Assemblies

1. Revisions to the proposed first edition of the Standard for Safety for Flammability Testing for Portable Generator Tents, Running Covers, and Assemblies, UL 2201A, including applicable requirements for Canada.

PROPOSAL

5.5 ASSEMBLED PRODUCT – A tent, running cover, enclosure assembly, canopy, enclosure, or similar accessory intended to be installed on, over or in close proximity to a portable generator ~~during operation to provide weather protection or environmental shielding~~. A generator tent, running cover and generator enclosure assembly are examples of an assembled product.

13.1 All assembled products shall include clear and concise user instructions for safe installation and ~~operation use~~ in accordance with the requirements of this Standard.

14.1 The assembled product manufacturer shall identify generator frame styles, exhaust orientations (side, rear, vertical), and exhaust configurations for which the product is suitable. Generator styles or configurations (e.g., top-mounted exhausts, open-frame legacy units) that are not compatible shall be clearly identified or excluded by the manufacturer. ~~The manufacturer shall reference applicable standards such as UL 2201, or PGMA G300, or CSA C22.2 No. 100 to support compatibility decisions.~~

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BSR/UL 207, Standard for Safety for Standard for Safety for Refrigerant-Containing Components and Accessories, Nonelectrical

2. Requirements for Evaluating Refrigeration Fittings to Requirements within ISO 14903

PROPOSAL

15.2 In addition to applying the other relevant requirements within this standard, including the tests in Section 19 or 20 and markings in Section 31, if a refrigeration fitting is evaluated for compliance with ISO 14903 as specified in 15.1(c), the requirements from ISO 14903 shall be applied to a refrigeration fitting (mechanical joint), except as follows ~~modified in accordance with the following~~:

NOTE 1: Unless specified otherwise, all clause references in (a) – (t) are to ISO 14903.

NOTE 2: Throughout paragraph 15.2, any references to “A1” are to the “tightness control level” of “A1”, as shown in Table 3 of ISO 14903. The “tightness control level” of “A1” should not be confused with the term “A1” used in the remaining parts of UL 207 to denote a non-toxic, non-flammable refrigerant as specified in ANSI/ASHRAE 34.

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- a) The following shall be applied in lieu of Clause 1 of ISO 14903: ~~Modification to replace Clause 1 (Scope) with the following:~~

1.1 This document provides the qualification procedure for type approval of the tightness of hermetically sealed mechanical joints used in refrigerating systems and heat pumps as described in relevant parts of ISO 5149.

1.2 The requirements contained in this document are applicable to mechanical joints of maximum DN 50 (nominal diameter), i.e., 50 mm (2 in).

1.3 This document is intended to characterize their tightness stresses met during their operations, following the assembly procedure specified by the manufacturer.

1.4 It specifies the level of tightness of the mechanical joint, as a whole, and its assembly as specified by its manufacturer.

1.5 It applies to the hermetically sealed mechanical joints used in refrigeration systems, including those mechanical joints with seals, whatever their material and their design are.

1.6 This document specifies requirements for mechanical joints that can be identified as hermetically sealed joints.

- b) Add ~~Modification to add~~ the following definitions to Clause 3 of ISO 14903:

~~3.11~~ **3.12**

maximum allowable pressure, (PS)

maximum pressure for which a mechanical joint has been designed as specified by the manufacturer and equals the design pressure

~~3.12~~ **3.13**

non-permanent joint

joint which is not permanent and designed to be disconnected, such by a release mechanism. This type of joint may be considered a reusable joint,

Note: A non-permanent joint may be of a type that may be disconnected, such as by a release mechanism and may also be reusable. Threaded (compression and flare) fittings are also examples of non-permanent joints.

- c) The following shall be applied in lieu of the first paragraph of Clause 5, Test Requirements of ISO 14903. ~~Modification to replace Clause 5 (Test Requirements), first paragraph, with the following:~~

The required tests to be applied to mechanical joints used in refrigerating systems and heat pumps are given in Table 2.

- d) The second paragraph of Clause 5 of ISO 14903, shall not be applied. ~~Modification to Clause 5 (Test Requirements) to delete the two paragraphs immediately following the phrase: "Figure 1 — Principle: component body joint".~~

- e) The following shall be applied in lieu of ~~Modification to replace~~ Clause 6, ~~(Requirements for Hermetically Sealed Systems of ISO 14903)~~ with the following:

Mechanical joints in hermetically-sealed systems shall have their tightness control level qualified as A1 per Table 3 and be submitted to the relevant tests specified in Table 2 except that non-permanent joints shall be subjected to either the Pressure Test, Paragraph 15.2(o), or the Fatigue Test, Paragraph 15.2(r).

- f) The following shall be applied in lieu of ~~Modification to replace~~ Clause 7.1, ~~(General of ISO 14903, and Figure 2 of ISO 14903)~~, first paragraph and Figure 2 with the following:

7.1.1 Mechanical joints shall comply with the Tightness Test in Clause 7.4 before the other tests are conducted. The other tests are determined based on Table 2 with the tightness control level as A1 in accordance with Tables 3 and 5.

7.1.2 Mechanical joints shall be tested with sections of pipe or tube made of a material for which the mechanical joint is intended.

7.1.3 Mechanical joints intended for use with both soft (annealed) tubing and hard (rigid) tubing shall be tested with each type of tubing.

- g) The following shall be applied in lieu of the first paragraph of ~~Modification to replace~~ Clause 7.4.2.1, ~~(Tightness Level Control – Test Method of ISO 14903)~~, first paragraph, with the following:

The tightness control level of mechanical joints shown in Table 3 shall be measured by the vacuum chamber technique which sum all leaks.

- h) The following shall be applied in lieu of the third paragraph of ~~Modification to replace~~ Clause 7.4.2.1, ~~(Tightness Level Control – Test Method of ISO 14903)~~, third paragraph, with the following:

The mechanical joint shall be assembled to pipe or tube as specified in the fitting installation instructions. The assembled test sample shall be similar to those used for the Freezing Test in 7.8 except that the end of the sample which is not hermetically sealed shall allow for connection of a vacuum pump and tracer gas source as shown in Figure 3. The complete test sample assembly shall then be placed within the vacuum chamber in which the sum of all leaks is measured.

- i) The fourth paragraph of ~~Modification to~~ Clause 7.4.2.1, ~~(Tightness Level Control – Test Method of ISO 14903, shall be applied except)~~, ~~fourth paragraph to replace~~ the term "component" shall be replaced with the term ~~with~~ "test sample". The fifth paragraph shall not be applied.
- j) ~~Modification to~~ Clause 7.4.2.2, ~~(Tightness Level Control – Alternative Test Methods, shall be applied except)~~ ~~to replace~~ the term "component" shall be replaced with the term ~~with~~ "test sample".

- k) The following shall be applied in lieu of Clauses 7.5.2, Requirements for Joints – Torque and 7.5.3, Requirements for Joints – Reusable Joint of ISO 14903:

7.5.1.1 Prior to conducting any of the required tests of Table 2, all samples of non-permanent joints shall comply with all the following:

- 1) Be connected by the method specified in the installation instructions to the tubes for which they are intended. Joints having a threaded connection shall be subjected to the maximum torque, $K_{\text{test max}}$, specified in Table 6.
- 2) Be disconnected by the method specified in the installation instructions from the tubes. Any sealing materials shall be changed, as described in the second paragraph of Clause 7.5.4.
- 3) Repeat (1) and (2) above four (4) times.

NOTE: The intent of Clause 7.5.1.1 is to ensure that all non-permanent joint samples are assembled and disassembled five (5) times before starting the tests of Table 2.

7.5.1.2 Where relevant, tube joints shall be tested both at the minimum torque, $K_{\text{test min}}$, and the maximum torque, $K_{\text{test max}}$, specified in Table 6. For a non-permanent joint with a threaded connection, two sets of samples shall be subjected to the tests of Table 2. One set shall be tested at $K_{\text{test min}}$, and one set tested at $K_{\text{test max}}$.

- l) ~~Modification to Clause 7.6 (Pressure Temperature Vibration Tests, PTV of ISO 14903, shall be applied except:)~~ ~~to replace the terms: “components or joints” or “components” with the term “mechanical joints”.~~

- 1) The following terms are replaced with the phrase “mechanical joints”:

- a) Clause 7.6.1 – “joints and components”;
- b) Clauses 7.6.3.1(b) and 7.6.4.2 – “joints”;
- c) Clauses 7.6.4.1, 7.6.4.3.2 and 7.6.4.3.3 – “components”;
- d) Table 8 “other components” and footnote a, “component”; and
- e) Table 9 footnote a, “components”.

- 2) The following terms are replaced with the phrase “mechanical joint”:

- a) Clause 7.6.3.1(f) – “component or joint”;
- b) Clause 7.6.4.3.1 – “component and joints”;
- c) Clause 7.6.4.3.1 – “component”; and,
- d) Clause 7.6.4.3.1 – “joint”.

- m) ~~Modification to Clause 7.6 (Pressure Temperature Vibration Tests, PTV) to replace the terms: “component or joint” or “component” with the term “mechanical joint”.~~

- n) The following shall be applied in lieu of ~~Modification to replace~~ Clause 7.6.3.27-6.5.4.3 ~~(Pressure Temperature Vibration Tests, PTV – Test Arrangements of ISO 14903 of Joint) with the following:~~

7.6.3.2.1 The ~~test~~ samples shall be ~~mounted~~arranged as shown in ~~Figure 6~~Annex B. The ~~climatic enclosure~~environmental chamber shall be of sufficient size to accommodate the test samples.

7.6.3.2.2 The tube section diameter and dimensional tolerances shall be specified by the manufacturer of the mechanical joint.

7.6.3.2.3 The instructions of the manufacturer shall be used for the assembly of the mechanical joint on the tube.

7.6.3.2.4 For the pressure test, one end of the tube shall be connected to the pressure generator. The other end shall be tightly closed.

- o) ~~Modification to~~ Clause 7.8(c). ~~(Freezing Test of ISO 14903, shall be applied except) to~~ replace the word "component" is replaced with the word "mechanical joint".
- p) The following shall be applied in lieu of ~~Modification to replace~~ Clause 7.9 ~~(Additional Pressure Test for Hermetically Sealed Joints) of ISO 14903, second, and third and fourth paragraphs, with the following:~~

7.9.1 During this test of a mechanical joint:

- 1) The pipe or tube to which the mechanical joint is attached shall have the necessary wall thickness and strength to withstand the required pressure such that the mechanical joint is subjected to the full required test pressure; or,
- 2) If the tube or pipe fails before the full required test pressure is reached, then:
 - a) Each of the 3 sample mechanical joints shall be tested to and withstand a pressure that is within 50 psig (0.34 MPa) of the pressure at which the weakest of the 3 sample tubes or pipes fail. The mechanical joint PS shall then be established as a value that does not exceed one-third~~one-fifth~~ of the value used as the test pressure; or
 - b) One or more externally attached, reinforcing devices (such as clamps), may be secured to the external portion of the tube or pipe such that no part of the clamping device is closer than one-half the nominal tube or pipe diameter to any part of the mechanical joint. The externally reinforced tube or pipe shall then be retested with the mechanical joint installed and subjected to the full required test pressure.

NOTE 1: Leakage may occur through the pipe or tube wall as long as the full required test pressure is applied.

NOTE 2: An example of one-half the nominal tube or pipe diameter would be that for a nominal 3/4 inch diameter copper tube, the clamping device would be spaced at least 3/8 inch away from the mechanical joint.

NOTE 3: The intent of Clause 7.9 of ISO 14903, second paragraph appears to be addressed by Clause 7.9.1(2)(a) ~~Paragraph 15.2(e)(2)(a)~~.

NOTE 4: The test method of Clause 7.9.1(2)(b) ~~Paragraph 15.2(e)(2)(b)~~ is not a method presently specified in ISO 14903.

7.9.2 The fluid used for this test shall be liquid such as oil, water, or similar incompressible fluids. Air or other gases shall not be used. Following this test, the liquid shall be completely removed for conducting the Tightness Level Control Test. ~~(Clause 7.4 of ISO 14903)~~.

7.9.3 A mechanical joint complying with this test shall be considered as fulfilling the requirements in Section 19. ~~(Strength Test)~~ of UL 207.

NOTE 5: A mechanical joint complying with this test is not required to comply with the test in sub-item (r) for compliance with UL 207.

- q) The first paragraph of ~~Modification to~~ Clause 7.11.2, (Compatibility Screening Test – Test Fluids of ISO 14903, shall be applied except), ~~first paragraph, to replace~~ the term: “multipurpose components” shall be replaced with the term “multipurpose mechanical joints”.
- r) The first paragraph of ~~Modification to~~ Clause 7.11.5, (Compatibility Screening Test – Test Procedure of ISO 14903, shall be applied except), ~~first paragraph, to replace~~ the term “component” shall be replaced with the term “mechanical joint”.
- s) Add ~~Modification to add~~ the following to Clause 7.12, (Fatigue Test for Hermetically Sealed Joints of ISO 14903):

A mechanical joint complying with the test in Clause 7.12 of ISO 14903 and with all of the following shall be considered as fulfilling the requirements in Section 20, ~~(Fatigue Test)~~ of UL 207:

- 1) Not less than three of the samples shall be tested based on the relevant ambient temperature as specified in 20.3.1 – 20.3.2 of UL 207;
- 2) Not less than three of the samples subjected to this test shall withstand, without leaking, a pressure of at least two times the PS. The pressure shall be maintained for at least 1 min. The pressure shall be applied following the fatigue cycling but prior to conducting the Tightness Test in 7.4 of ISO 14903; and,
- 3) Two additional (different) samples shall comply with the test in 7.9 of ISO 14903 or shall withstand, without leaking, a pressure of at least three times the PS. The pressure shall be maintained using an incompressible fluid and applied for at least 1 min. These samples are not required to comply with the Tightness Level Control Test, ~~(Clause 7.4 of ISO 14903.)~~ following this test.

NOTE 1: If the test in Clause 7.12 of ISO 14903 is conducted in accordance with this sub-item (r), the test in sub-item (o) is not required for compliance with UL 207.

NOTE 2: The modifications to the test in Clause 7.12 of ISO 14903 as specified in sub-item (r) are not necessary for compliance with ISO 14903.

- t) The Clause 8, Test Report of ISO 14903, is not to be applied. ~~Modification to delete Clause 8 (Test Report).~~
- u) The following shall be applied in lieu of Clause 9, Information to the User of ISO 14903 ~~Modification to replace Clause 9 (Information to the User), with the following:~~

Installation instructions shall be provided with each mechanical joint and shall specify the range of minimal/maximal temperatures, the installation method of the mechanical joint, and a statement indicating that the mechanical joint complies with ISO 14903.

BSR/UL 1008S, Standard for Safety for Solid-State Transfer Switches

1. Clarify UL 1008S Short Circuit Compliance Criteria

PROPOSAL

35.3 For transfer switches intended for optional standby systems only, the switch shall comply with items (a) – (c) below.

a) For electrically operated devices, it shall be possible to operate the transfer switch to the off position, if provided by the electrical means. If no off position is provided, it shall be possible to operate the transfer switch to the untested source (close the switch onto the source which was not subjected to the short-circuit withstand and short-circuit closing test) by the electrical means.

b) There shall be no continuity between the normal and alternate source terminals with the switch operator in any position. Continuity between either set of source terminals and the load terminals is not required.

c) If the transfer switch can be moved to the untested source such that there is continuity between any of the untested source side terminals and any of the load terminals, the transfer switch shall comply with (1) and (2) below:

1) There shall be continuity on all phases, including any contacts which switch the grounded circuit conductor (the neutral).

2) There shall be no damage to the untested side of the switch.

Exception: When the electrical operation depends on the power switching components and those components fail as permitted by 35.4(b), the electrical operation verification specified in 35.3(a) is not required.

38.2 The sample for this test shall be that used for the withstand test. ~~The same set of contacts subjected to the withstanding test shall be subjected to this test.~~ Test procedures and conditions for the closing test are to be as described in 35.5 – 35.27. ~~The switch shall be closed on the circuit.~~

38.2A The same set of power switching components subjected to the Withstand Test shall be subjected to this test. The power switching components shall be closed on the circuit.

Exception No. 1: If one or more of the power switching components fail in the open condition during the Withstand Test and in a manner that prevents the continuation of the Closing Test, the failed power switching components are to be replaced prior to conducting the Closing Test.

Exception No. 2: If one or more of the power switching components remain shorted after the Withstand Test, the test circuit shall be closed on the assembly.

BSR/UL 2849, Standard for Safety for Electrical Systems for eBikes**9. Withdrawal of Proposal: Revision to the criteria of the Input Test from the charger ratings to the product ratings****PROPOSAL**

27.1 The input current to a product is to be measured with the unit operating while charging a fully discharged battery. The current input of the product shall not be more than 110 % ~~percent~~ of the rated current value for the eBike as assigned by the manufacturer and if an external charger is used, the measured input current shall not exceed the rated output current of the external charger.

43.1 Products shall be marked with the manufacturer's name, trade name, trademark or other descriptive marking which may identify the organization responsible for the product, part number or model number, and electrical ratings in volts dc and Ah or Wh.

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