ANSI STANDARDS ACTION

PUBLISHED WEEKLY BY THE AMERICAN NATIONAL STANDARDS INSTITUTE 25 W43RD STREET NY, NY 10036

VOL. 56, NO. 32 AUGUST 8, 2025

CONTENTS

ISSN 0038-9633

Project Initiation Notification System (PINS)

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

ASABE (American Society of Agricultural and Biological Engineers)

Sadie Stell <stell@asabe.org> | 2590 Niles Road | Saint Joseph, MI 49085 https://www.asabe.org/

National Adoption

BSR/ASABE/ISO 5675-202x, Agricultural tractors and machinery — General purpose quick action hydraulic couplers (identical national adoption of ISO 5675:2021 and revision of ANSI/ASABE AD5675-2016 (R2020))
Stakeholders: Equipment Manufacturers, Farmers

Project Need: ISO standard was revised in 2021 and incorporated all US Deviations. This project will adopt the current ISO standard without deviations.

Interest Categories: Academia, Design, General Interest, Producer, Regulatory, Safety

This document specifies the essential interface dimensions and the operating requirements for hydraulic couplers employed to transmit hydraulic power from agricultural tractors to agricultural machinery. It is applicable to couplers used in hydraulic lines other than those used for braking circuits.

AWS (American Welding Society)

Stephen Borrero <sborrero@aws.org> | 8669 NW 36th Street, Suite 130 | Miami, FL 33166-6672 www.aws.org

Revision

BSR/AWS G2.5/G2.5M-202x, Guide for the Fusion Welding of Zirconium and Zirconium Alloys (revision of ANSI/AWS G2.5/G2.5M-2025)
Stakeholders: Engineers, students, welders, program managers, government agencies, civil engineers, automotive industry, aerospace industry, marine and shipbuilding industry, structural industry, higher education instructors, welding equipment manufacturers, welding filler metal manufacturers, welding consultants,structural steel inspectors and firms, and testing agencies

Project Need: This document is needed to provide continued proper procedures and instructions for those companiesfabricating and using zirconium equipment world-wide.

Interest Categories: Users, Producers, Educators, General Interest

The standard Guide for the Fusion Welding of Zirconium and Zirconium Alloys provides instructional guidance for the welding of zirconium and zirconium alloys. This guide explains processes, equipment, materials, workshop practices, joint preparation, welding techniques, tests, and the repair of discontinuities.

ESTA (Entertainment Services and Technology Association)

Richard Nix <standards@esta.org> | 271 Cadman Plaza, P.O. Box 23200 | Brooklyn, NY 11202-3200 www.esta.org

Revision

BSR/E1.66-202x, Safety Standard for Followspot Positions Erected for Short-Term Use in Entertainment Venues (revision of ANSI/E1.66-2020)
Stakeholders: Followspot operators, entertainment venue designers, event producers, venue owners, entertainment equipment specifiers, providers, and manufacturers.

Project Need: Followspot positions are often erected for short-term use in outdoor venues for entertainment show lighting. There is currently no published guidance specific to them that covers construction, power supply, personnel access, fall protection, and the protection of people (e.g., members of the audience) below the followspot position from falling objects.

Interest Categories: Custom market producers, Designers, Mass market producers, Dealer or rental companies, Users, General interest

This standard covers safety requirements for followspot positions in, or on, structures erected for short-term use, and positions not covered by ANSI E1.28. It is applicable to positions located indoors or outdoors. It addresses structural, electrical, and personnel safety requirements associated with non-permanent followspot positions.

HSI (Healthcare Standards Institute)

Haven Boisjoly <hboisjoly@hsi.health> | 347 Park Ridge | Boerne, TX 78006 www.hsi.health/

Revision

BSR/HSI 3000-202X, Credentialing Requirements for Non-Employee (Vendor) Representatives in Healthcare Settings (revision of ANSI/NEMA SC1-2020)

Stakeholders: Stakeholders Expected to be Impacted or Interested:

- Hospitals and health systems;
- Long-term care and ambulatory providers;
- Medical and pharmaceutical suppliers
- Credentialing service providers;
- Facility support contractors (e.g., food, construction, maintenance);
- Regulatory and accreditation bodies (e.g., CMS, The Joint Commission);
- Occupational health and compliance departments;
- Health IT and cybersecurity vendors managing credentialing platforms;
- Other healthcare entities.

Project Need: Healthcare organizations rely on a wide range of third-party, non-employee personnel to sustain operations and deliver safe, effective patient care. Yet the credentialing of these non-employee personnel remains highly variable, inefficient, and at times non-transparent —leading to administrative burden, confusion, risk exposure, and lost productivity. The need for a standardized, scalable credentialing framework is critical to ensuring:

- Patient and staff safety;
- Regulatory and infection control compliance;
- Workforce readiness;
- Consistency and transparency across facilities and regions;
- Management of sensitive Personal Protected Information (PPI) and Personal Health Information (PHI).

A single national standard would support healthcare provider organizations, suppliers, credentialing intermediaries, and regulatory bodies in aligning expectations and practices.

Project Intent: This standard is intended to:

- Define a common, nationally recognized set of credentialing elements;
- Allow flexibility for facility-specific policies while establishing a uniform baseline;
- Improve workforce interoperability across healthcare settings;
- Reduce duplication of credentialing efforts across third-party organizations;
- Promote adoption of electronic, interoperable credentialing records.

Interest Categories: Corporate-Producer, Corporate-User, General Interest, Government, Academia, Patient or Patient Advocacy

This standard will define minimum, consensus-based credentialing requirements for third-party, non-employee representatives entering healthcare systems or environments to support care delivery or facility operations. This includes, but is not limited to, representatives involved in:

- Pharmaceutical detailing or education;
- Medical device service, installation, or support; - Equipment maintenance and calibration;
- Food and nutrition services;
- Facilities operations (e.g., HVAC, waste management, construction).

The standard will address key credentialing categories including identification, background screening, immunization, training (e.g., HIPAA, infection control), and compliance with site-specific protocols. It will be designed to improve safety, accountability, and administrative efficiency while reducing redundant or inconsistent processes across healthcare systems. The standard will apply to individuals who are not directly employed by the healthcare organization but who provide services, support, or expertise in clinical, technical, or operational capacities.

NEMA (ASC C12) (National Electrical Manufacturers Association)

Paul Orr <Pau_orr@nema.org> | 1300 North 17th Street, Suite 900 | Rosslyn, VA 22209 www.nema.org

Revision

BSR C12.1-202x, Standard for Electric Meters - Code for Electricity Metering (revision of ANSI C12.1-2024)
Stakeholders: Meter manufacturers, Electric Utilities

Project Need: Revision to update testing requirements.

Interest Categories: Users, Producers and General Interest

This standard establishes acceptable performance criteria for new types of AC watthour meters, demand meters, demand registers, pulse devices, and auxiliary devices. It also describes acceptable in-service performance levels for meters and devices used in revenue metering. It also includes information on related subjects, such as recommended measurement standards, installation requirements, test methods, and test schedules. This Code for Electricity Metering is designed as a reference for those concerned with the art of electricity metering, such as utilities, manufacturers, and regulatory bodies.

NEMA (ASC C37) (National Electrical Manufacturers Association)

Connor Grubbs <Connor.Grubbs@nema.org> | 1812 N. Moore Street | Rosslyn, Virginia 22209 www.nema.org

Revision

BSR C37.85-202x, Alternating-Current High-Voltage Power Vacuum Interrupters Safety Requirements for X-Radiation Limits (revision of ANSI C37.85-2020)
Stakeholders: Utilities, manufacturers, users, contractors

Project Need: Update the existing standard for current industry practices

Interest Categories: Producer, user, general interest

This standard specifies the maximum permissible X-radiation emission from alternating-current high-voltage power vacuum interrupters that are intended to be operated at voltages above 1000 volts and up to 38,000 volts when tested in accordance with procedures described in this standard.
NOTES: The test procedures prescribed in this standard are not necessarily applicable for higher-voltage vacuum interrupters. In this standard, the term “interrupter”signifies “high-voltage power vacuum interrupter,” unless qualified by other descriptive terms.

NEMA (ASC C82) (National Electrical Manufacturers Association)

Connor Grubbs <Connor.Grubbs@nema.org> | 1812 N Moore Street | Arlington, VA 22209 www.nema.org

New Standard

BSR C82.77-410-202X, Standard for Lighting Equipment - Inrush Current Performance Testing (new standard)
Stakeholders: LED Driver manufacturers, lighting controls manufacturers, wiring device manufacturers, luminaire manufacturers, government entities, laboratories, and consultants

Project Need: This project is needed to ensure the compatibility of electronic devices with respect to inrush currents.

Interest Categories: Producers, Users, General Interest

This standard covers the definition, measurement, and testing of characteristics relevant to the use and application of wiring devices, lighting controls, electronic drivers, electronic discharge ballasts, self-ballasted lamps, electronic power supplies and other electronic devices. This standard covers devices rated at 120 Vac, 277 Vac, 347 Vac, and 480 Vac intended to control up to 16 amps of steady state current. This standard does not cover or require additional testing for 15 A and 20 A general-use AC snap switches rated 120 Vac with or without additional voltage ratings tested and listed in accordance with UL 20/CSA C22.2 No. 111, which includes a high-inrush tungsten lamp load endurance test. They have been evaluated and determined to be compatible with the electronic drivers, discharge ballasts, and self-ballasted lamps as described in this publication.

NEMA (National Electrical Manufacturers Association)

Andrei Moldoveanu <and_moldoveanu@nema.org> | 1300 North 17th Street, Suite 900 | Rosslyn, VA 22209 www.nema.org

Revision

BSR/NEMA ESM1-7-202x, Electrical Submeter - Current Sensor Accuracy (revision of ANSI/NEMA SM 31000-7-2021)
Stakeholders: Weights and Measures departments, testing laboratories, regulators, electrical submeter manufacturers.

Project Need: A base for metrological certification of current sensors used in electrical submeters systems.

Interest Categories: Producer, General Interest, Testing Laboratories, User

ESM1-7 covers metrological requirements and associated testing for current sensors used with electrical energy submeters. The Standard applies to multiple sensor technologies with a variety of outputs. These sensors enable current measurement for AC and DC energy submetering. The Standard applies to indoor and outdoor applications, and covers temporary and permanently installed sensors for AC and DC applications.

NENA (National Emergency Number Association)

Nena Staff <crm@nena.org> | 1700 Diagonal Road, Suite 500 | Alexandria, VA 22314 www.nena.org

Revision

BSR/NENA STA-045.2-202x, NENA Standard for 9-1-1/988 Interactions (revision of ANSI/NENA STA-045.1-2025)
Stakeholders: Operational and technical individuals with knowledge and experience in public safety, 911, 988, and related technologies

Project Need: Revise to incorporate FCC Ruling

Interest Categories: Users, Producers, General Interest

This update will bring the standard into alignment with current FCC regulations.

ULSE (UL Standards and Engagement)

Isabella Brodzinski <isabella.brodzinski@ul.org> | 1603 Orrington Ave, Suite 2000 | Evanston, IL 60201 https://ulse.org/

New Standard

BSR/UL 971-202x, Standard for Nonmetallic Underground Piping For Flammable Liquids (new standard)
Stakeholders: Relevant stakeholders include manufacturers of this product, installers, local and state government officials, authorities holding jurisdictions, and testing organizations.

Project Need: UL 971 does not match any of the current iterations of the Long-Term Compatibility Test in other standards which have been approved by binational Technical Committees. The test fuels and requirements should be updated to match the other products in the fueling system. UL/ULC 1316, UL/ULC 2039, and UL/ULC 2447 were used as references for this proposal and the requirements of UL/ULC 1316 were selected for the basis of the proposal since storage tanks would be in most frequent and extended contact with the stored fuels and soil environments. Unifying the long-term compatibility testing requirements across all the standards that cover products in the fueling system will aid in consistency applying the requirement, reduce confusion around product fuel ratings, ensures the same level of safety is met by all products in the system, and allows for easier use of components or construction materials across a wider range of end-products.

Interest Categories: Interest Categories of the technical committee include producers, supply chain, regulators, commercial/industrial users, and government.

1.1 These requirements cover primary carrier, secondary containment, integral primary/secondary containment, normal vent and vapor recovery, nonmetallic pipe, fittings, and systems (products) intended for use underground in the distribution of flammable and combustible liquids, such as:
(a) Petroleum products, including petroleum hydrocarbon fuels with low-biofuels blends, per specifications, and similar flammable or combustible liquid petroleum derivatives, such as fuel components (cetane, hexane, heptane), and oils (lubricating, hydraulic, machine);
(b) Oxygenated fuel blends, including all “petroleum product” liquids plus petroleum hydrocarbon fuels with low-biofuels blends;
(c) Oxygenates, including all “petroleum product” and “oxygenated fuel blends” liquids plus pure/denatured or highest oxygenated blend stocks for use in mixing of dispensed lower fuel-blends and components, such as biodiesel and ethanol; and
(d) Other flammable and combustible liquids (for which the test fuels in Annex B are not considered to be sufficient or applicable) that can be demonstrated or determined to be compatible with the reinforced plastic underground tank materials as determined by the certifier.

ULSE (UL Standards and Engagement)

Isabella Brodzinski <isabella.brodzinski@ul.org> | 1603 Orrington Ave, Suite 2000 | Evanston, IL 60201 https://ulse.org/

New Standard

BSR/UL 2112-202x, Standard for Safety for Venting Systems for Use with Gas-Fired Direct Vent Appliances (new standard)

Stakeholders: Relevant stakeholders include manufacturers of these appliances, as well as installers, supply chain, fire investigators, and end users/consumers.

Project Need: This is part of a larger project to convert Outlines of Investigation to Standards per the recommendation of engineers and committee members. There is currently no specific standard on the market for venting systems for use with gas-fired direct vent appliances.

Interest Categories: TC 103 consists of Producers, Regulators, Testing Organizations, Supply Chain, and Commercial/Industrial Users.

1 Scope.

1.1 These requirements cover venting systems intended for venting direct vented gas-fired appliances that comply with ANSI Z21 series Standards. Venting systems covered by these requirements are intended to be used with direct-vented gas-fired appliances that have been installed in accordance with the National Fuel Gas Code, NFPA 54 and with Codes such as the International Mechanical Code, International Residential Code, Uniform Mechanical Code, and local Codes.

1.2 The requirements covered by this Outline Standard are intended to address the structural integrity supporting means, rain effects, and corrosion effects of the venting system. For wind effects, leakage, and clearance to combustible construction the appliance standard requirements shall be applied.

1.3 These requirements do not cover venting systems intended for use with Category II, III, or IV appliances.

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: September 7, 2025

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

180 Technology Parkway, Peachtree Corners, GA 20092 | knguyen@ashrae.org, www.ashrae.org

Addenda

ASHRAE Addendum b to ANSI/ASHRAE Standard 15-2024, Safety Standard for Refrigeration Systems (addenda to ANSI/ASHRAE Standard 15-2022)
The updates are to be consistent with the model building codes where the primary requirement will be protection for all refrigerant pipe penetrations.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Online Comment Database at https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts

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

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

Addenda

BSR/ASHRAE Addendum b to ANSI/ASHRAE Standard 90.4-2022, Energy Standard for Data Centers (addenda to ANSI/ASHRAE Standard 90.4-2022)
The second publication public review draft fixes clerical errors in the definitions and normative text which were originally omitted during the first publication public review. Changes to the requirements are for clarification and a comprehensive review of the 90.4-2022 standard. The UPS Segment of the ELC calculation requires knowing three different load numbers. While those numbers have always been described in the Informative Appendix examples, they have not been clearly delineated in definitions, leading to confusion in the use of undefined terms. This Addendum b adds a definition for "UPS redundant capacity" to clarify the fact that UPS efficiency must be based on the total available capacity of the UPS, including its redundant capacity, even though that additional capacity is not intended to be used under normal operating conditions. Terminology throughout Section 8 "Electrical" has also been updated to correspond with the revised definitions terminology.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: standards.section@ashrae.org

Comment Deadline: September 7, 2025

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

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

Addenda

BSR/ASHRAE/ASHE Addendum 170x-202x, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Standard 170-2021)
Proposed Addendum x adds a requirement that if a design for emergency conditions includes a plan for infectious aerosols, then it must follow ASHRAE Standard 241, Control of Infectious Aerosols.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Online Comment Database at https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts

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

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

Addenda

BSR/ASHRAE/IES Addendum c to ANSI/ASHRAE/IES Standard 90.2-2024, High-Performance Energy Design of Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.2-2018)
This addendum removes redundant and incompatible requirements for common area parking lots, garages, and stairwells. It also adds a new section for lighting power requirements in common areas.
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

ICC (International Code Council)

4051 Flossmoor Road, Country Club Hills, IL 60478 | kaittaniemi@iccsafe.org, www.iccsafe.org

Revision

BSR/ICC 900/SRCC 300-202x, Standard for Solar Water Heating Systems (revision and redesignation of ANSI/ICC 900-2020)
The objective of this Standard is to establish minimum requirements for the system design, performance evaluation, and installation instructions of solar water heating systems. This Standard establishes a methodology for rating the performance of solar water heating systems based on performance projections and solar collector test data. This Standard is applicable to residential and commercial solar water heating systems intended for use within swimming pool heating, building space heating, building space cooling and/or water heating systems. It is applicable to both direct and indirect solar water heating systems.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: https://form.jotform.com/Code_Apps/ICC-Public_Comments

NSF (NSF International)

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

Revision

BSR/NSF 40-202x (i86r1), Residential Wastewater Treatment Systems (revision of ANSI/NSF 40-2023)
This standard contains minimum requirements for residential wastewater treatment systems having rated treatment capacities between 1,514 LPD (400 GPD) and 5,678 LPD (1,500 GPD). Management methods for the treated effluent discharged from residential wastewater treatment systems are not addressed by this standard.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: smccormick@nsf.org

Comment Deadline: September 7, 2025

NSF (NSF International)

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

Revision

BSR/NSF 350-202x (i89r1), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2023)
This standard contains minimum requirements for onsite residential and commercial water reuse treatment systems. Systems include greywater treatment systems; residential wastewater treatment systems; and commercial treatment systems.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: smccormick@nsf.org

ULSE (UL Standards and Engagement)

100 Queen Street, Suite 1040, Ottawa, Canada, ON | Jacob.Stewart@ul.org, https://ulse.org/

Revision

BSR/UL 499-202x, UL Standard for Safety for Electric Heating Appliances (revision of ANSI/UL 499-2025)
UL is proposing to Recirculate for review Markings for Outdoor/Wet Ratings with revisions, including the addition of an exception.
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)

1603 Orrington Avenue, Suite 2000, Evanston, IL 60201 | mitchell.gold@ul.org, https://ulse.org/

Revision

BSR/UL 962A-202x, Standard for Furniture Power Distribution Units (revision of ANSI/UL 962A-2024)
The following changes in requirements are being proposed: (1) Addition to Class 2 Marking Requirements; (2) Detachable Power Cords on Primary FPDU; (3) Revision to the Spill Test.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Follow the instructions at the following website to enter comments into the CSDS Work Area: https://csds.ul.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 2416-202x, Standard for Safety for Audio/Video, Information and Communication Technology Equipment Cabinet, Enclosure and Rack Systems (revision of ANSI/UL 2416-2020)
This proposal for UL 2416 covers: (1) 508C Withdrawal and Replacement with 61800-5-1.
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

Comment Deadline: September 22, 2025

A3 (Association for Advancing Automation)

900 Victors Way, Suite 140, Ann Arbor, MI 48108-5210 | mroush@automate.org, www.automate.org/robotics

New Standard

BSR/A3 R15.06-3-202x, Standard for Robotics - Safety Requirements - Part 3: Use of Industrial Robot Cells (new standard)
This document specifically addresses user requirements to utilize the information for use as provided by the industrial robot manufacturer and industrial robot integrator to operate and maintain industrial robot applications and develop training and safe work procedures. The user is tasked with performing a user risk assessment, implementing and maintaining risk reduction measures identified in the risk assessment and maintaining risk assessment documentation. The operational scope and characteristics of a robot application can be significantly different than other equipment and machines. Certain tasks may require persons to be in proximity to the robot system while drive power is available.
Single copy price: $195.00
Obtain an electronic copy from: mroush@automate.org
Send comments (copy psa@ansi.org) to: Maren Roush <mroush@automate.org>

ANS (American Nuclear Society)

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

Reaffirmation

BSR/ANS 51.10-2020 (R202x), Auxiliary Feedwater System for Pressurized Water Reactors (reaffirmation of ANSI/ANS 51.10-2020)
This standard specifies updated design requirements for the Auxiliary Feedwater System including system functions, performance requirements, and system description.
Single copy price: $110.00
Obtain an electronic copy from: orders@ans.org
Send comments (copy psa@ansi.org) to: standards@ans.org

ASABE (American Society of Agricultural and Biological Engineers)

2950 Niles Road, Saint Joseph, MI 49085 | wall@asabe.org, https://www.asabe.org/

New Standard

BSR/ASABE/USBI S668 MONYEAR-202x, Methods for Measurement and Testing of Biochar (new standard)
Establish the minimum requirements as to what is to be considered a biochar material. Establish a list of core properties that are pertinent to all biochar materials, regardless of end use. Provide reference to an applicable test method for each of the core properties and if necessary, provide information as to how the test method is to be modified in order for it to be usable for biochar. Establish a list of supplemental properties and provide method references for some specific biochar end-use categories (e.g., provide a list of supplemental properties and method references for biochar used as a soil amendment). Some end-use categories of interest include using biochar as a soil amendment, as filtration media, inclusion in cement admixtures, etc.
Single copy price: Free
Obtain an electronic copy from: wall@asabe.org
Send comments (copy psa@ansi.org) to: Same

Comment Deadline: September 22, 2025

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

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

Revision

BSR/ASHRAE Standard 218-202x, Method of Test for Lubricant and Refrigerant Miscibility Determination (revision of ANSI/ASHRAE Standard 218-2019)
This revision of ANSI/ASHRAE Standard 218-2019 establishes a test procedure to determine the critical solution locus of miscible properties of a lubricant and refrigerant mixture.
Single copy price: Free
Obtain an electronic copy from: http://www.ashrae.org/standards-research--technology/public-review-drafts
Send comments (copy psa@ansi.org) to: http://www.ashrae.org/standards-research--technology/public-review-drafts

ATIS (Alliance for Telecommunications Industry Solutions)

1200 G Street NW, Suite 500, Washington, DC 20005 | akarditzas@atis.org, www.atis.org

Revision

BSR/ATIS 0100523-202x, PTSC Telecom Glossary (revision of ANSI/ATIS 0100523-2019)
The purpose of this standard is to aid interdisciplinary technical communications, and to disseminate the advances in communications technologies benefiting users, vendors, researchers, and developers. Additionally, this standard provides an authoritative source of definitions for standards developers, teachers, technical writers, and all who are active in the telecommunications field.
Single copy price: Free
Obtain an electronic copy from: akarditzas@atis.org
Send comments (copy psa@ansi.org) to: Same

AWS (American Welding Society)

8669 NW 36th Street #130, Miami, FL 33166 | jpadron@aws.org, www.aws.org

Revision

BSR/AWS D1.2/D1.2M-202x, Structural Welding Code - Aluminum (revision of ANSI/AWS D1.2/D1.2M-2014)
This code covers the welding requirements for any type structure made from aluminum structural alloys, except for aluminum pressure vessels and pressure piping. Clauses 1 through 10 constitute a body of rules for the regulation of welding in aluminum construction. A commentary on the code is also included with the document.
Single copy price: $128.00
Obtain an electronic copy from: jpadron@aws.org
Send comments (copy psa@ansi.org) to: jpadron@aws.org

Comment Deadline: September 22, 2025

AWWA (American Water Works Association)

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

Revision

BSR/AWWA C810-202x, Replacement and Flushing of Lead Service Lines (revision of ANSI/AWWA C810-2017)
This standard describes essential procedures for the replacement of lead water service lines and flushing following replacement. Essential procedures include the following: appropriate tools and techniques; flushing a service line after replacement; factors to consider in optimizing flushing; and instructions to provide customers affected by the replacement, including additional risk reduction measures and distribution of pitcher point-of-use filter systems. This standard also describes procedures for partial replacement and repair situations where complete lead service line replacement is not possible or practical.
Single copy price: Free
Obtain an electronic copy from: ETSsupport@awwa.org
Send comments (copy psa@ansi.org) to: AWWA, Paul J. Olson (polson@awwa.org)

CTA (Consumer Technology Association)

1919 South Eads Street, Arlington, VA 22202 | KHaresign@cta.tech, www.cta.tech

New Standard

BSR/CTA 2135-202x, Performance Verification and Validation of Predictive Health AI Solutions (new standard)
This standard outlines the methodology for the pre-market verification and validation of predictive health AI solutions. This Standard describes risk-based processes to verify and validate:
- Predictive health AI solutions where the prediction accuracy of a targeted population is compared to an accepted reference standard in the real world;
- Predictive health AI solutions where the accuracy in real world is compared to the reported model accuracy (e.g., model trained set to validated set or validated/test set to deployed set).
Single copy price: Free
Obtain an electronic copy from: standards@cta.tech
Send comments (copy psa@ansi.org) to: standards@cta.tech

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

New Standard

BSR/ES1.2-202x, Event Safety - Planning and Management (new standard)
This standard gives overall guidance on the general aspects of planning and management for special events.
Single copy price: Free
Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php
Send comments (copy psa@ansi.org) to: Richard Nix <standards@esta.org>

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

New Standard

BSR/ES1.8-202x, Event Safety - Venue & Site Design (new standard)
The goal of this standard is to identify the design considerations that may have a positive or negative impact on the safety of events when choosing an event site or venue. It will also discuss how the design of an event within a chosen venue or event site can improve the safety of event personnel and attendees.
Single copy price: Free
Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php
Send comments (copy psa@ansi.org) to: Richard Nix <standards@esta.org>

Comment Deadline: September 22, 2025

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

New Standard

BSR/E1.31-1-202x, Per-slot priority extension for ANSI E1.31 (new standard)
ANSI E1.31 provides a fast and efficient mechanism to transport the well-understood ANSI E1.11 protocol, but it also introduces a complication not possible in the original DMX standard - multiple sources. ANSI E1.31 does not cover cases where a controller wants to explicitly control a small subsection of values without disturbing the rest. Over the course of time, entertainment manufacturers created a technique to individually set priorities per-slot. This extension to E1.31 formally codifies that technique as an standard.
Single copy price: Free
Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php
Send comments (copy psa@ansi.org) to: Richard Nix <standards@esta.org>

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

New Standard

BSR/E1.78-202x, Weapons Safety in Entertainment Production (new standard)
The purpose of this project is to create a guidance document for the safe use of weapons or weapon-like properties (props) in entertainment event productions. It would cover prop weapons such as those that look like firearms (whether capable of firing cartridges or not), edged weapons (e.g., swords and knives), and projectiles (e.g., arrows and darts). The standard would only cover weapons and weapon-like props used on stages, in motion picture studios, or on motion picture locations in the production of a staged or filmed event. It would not cover weapons used by security forces or carried by audience members or staff for personal protection. It also would not cover weapons used in sporting events such as bullseye pistol or fencing competitions. The goal is to eliminate injuries and deaths from weapons or weapon-like props used in entertainment productions
Single copy price: Free
Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php
Send comments (copy psa@ansi.org) to: Richard Nix <standards@esta.org>

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

New Standard

BSR/E1.79-202x, Television, Film, Live Performance, and Event Electrical Guidelines for Canada (new standard)
This guideline deals with the installation of electrical equipment in the entertainment industry using any source of power, including generator sets, in Canada. Its scope is events of a temporary nature whether held indoors, outdoors, or in tents, such as film, television, live performance, and other events. The project is to make a recommended practices document for all of Canada based on "Electrical Safety Authority Spec 003," which was written by the Electrical Safety Authority (ESA) in cooperation with the Entertainment Electrical Safety Committee of Ontario.
Single copy price: Free
Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php
Send comments (copy psa@ansi.org) to: Richard Nix <standards@esta.org>

Comment Deadline: September 22, 2025

ESTA (Entertainment Services and Technology Association)
271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

New Standard

BSR/E1.86-202x, Standard for construction of cylindrical multi-pin connectors used in connecting power and control to motor hoists in entertainment (new standard)
There are several varieties of cylindrical connectors used in motor hoist applications in Entertainment. (Primarily 7-pin socopex compatible, 7 pin 1/4 turn. 14 pin 1/4 turn). The proposed standard would identify: Dimensional data including contact configuration; Standardized wiring convention (What pin/contact is wired to what); Minimal standard for insert key; Standard for pin and socket location (Pin placement and socket depth). The standard will not cover NEMA wiring devices or IEC 60309 devices, because standards for those devices already exist.
Single copy price: Free
Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php
Send comments (copy psa@ansi.org) to: Richard Nix <standards@esta.org>

ESTA (Entertainment Services and Technology Association)
271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

Reaffirmation

BSR E1.54-2021 (R202x), ESTA Standard for Color Communication in Entertainment Lighting (reaffirmation of ANSI E1.54-2021)
This standard specifies the color space to be utilized when communicating color between lighting controllers and color-changing luminaires. The method is generic and is neither manufacturer-specific nor color technology-specific. It facilitates communication of chromaticity only
Single copy price: Free
Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php
Send comments (copy psa@ansi.org) to: Richard Nix <standards@esta.org>

ESTA (Entertainment Services and Technology Association)
271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

Revision

BSR/E1.2-202x, Entertainment Technology - Design, Manufacture and Use of Aluminum Trusses and Towers (revision of ANSI E1.2-2021)
ANSI E1.2 describes the design, manufacture, and use of aluminum trusses, towers, and associated aluminum structural components, such as head blocks, sleeve blocks, tower bases, and corner blocks, used in the entertainment industry.
Single copy price: Free
Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php
Send comments (copy psa@ansi.org) to: Richard Nix <standards@esta.org>

Comment Deadline: September 22, 2025

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

Revision

BSR/E1.56-202x, Entertainment Technology - Rigging Support Points (revision of ANSI E1.56-2018)
This standard applies to stationary rigging points, attached to a permanent facility structure, that are intended to be permanent, and provides minimum requirements for the design, fabrication, installation, inspection, and documentation of these rigging points for their use to support rigging loads.
Single copy price: Free
Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php
Send comments (copy psa@ansi.org) to: Richard Nix <standards@esta.org>

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

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

Revision

BSR/ASSE 1013-202x, Reduced pressure principle (RP) backflow prevention assemblies (revision of ANSI/ASSE 1013-2021)
The purpose of Reduced Pressure Principle Backflow Prevention Assemblies (RP) is to keep contaminated water from flowing back into a potable water distribution system when some abnormality in the system causes the pressure to be temporarily higher in the contaminated part of the system than in the potable water supply piping.
Single copy price: Free
Obtain an electronic copy from: standards@iapmostandards.org
Send comments (copy psa@ansi.org) to: Terry Burger <standards@iapmostandards.org>

ISA (International Society of Automation)

3252 S. Miami Blvd, Suite 102, Durham, NC 27703 | lfranke@isa.org, www.isa.org

Revision

BSR/ISA 96.01.01-202x, Valve Actuator Terminology (revision of ANSI/ISA 96.01.01-2019)
This document provides a standard nomenclature for those who supply and use valve actuators and their accessories.
Single copy price: $99.00
Obtain an electronic copy from: lfranke@isa.org
Send comments (copy psa@ansi.org) to: Lynne Franke <lfranke@isa.org>

NEMA (ASC C82) (National Electrical Manufacturers Association)

1812 N Moore Street, Arlington, VA 22209 | Connor.Grubbs@nema.org, www.nema.org

National Adoption

BSR C82.77-3-202X, Standard for Lighting Equipment - Electromagnetic Compatibility (EMC) Testing and Measurement Techniques - Radiated, Radio-Frequency Electromagnetic Field Immunity Test (national adoption of IEC 61000-4-3, ed 4.0 (2020-09) with modifications and revision of ANSI C82.77-3-2020)
The C82 Consensus Body adopts IEC 61000-4-3, ed 4 (2020) as a Nationally Acknowledged International Standard with deviations.
Single copy price: $50.00
Obtain an electronic copy from: Connor.Grubbs@nema.org
Send comments (copy psa@ansi.org) to: Same

Comment Deadline: September 22, 2025

NEMA (ASC C82) (National Electrical Manufacturers Association)

1812 N Moore Street, Arlington, VA 22209 | Connor.Grubbs@nema.org, www.nema.org

National Adoption

BSR C82.77-7-202X, Standard for Lighting Equipment - Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests (national adoption of IEC 61000-4-11 Edition 3.0 (2020 -01) with modifications and revision of ANSI C82.77-7-2020)
This standard is a Nationally Acknowledged International Standard (NAIS) of IEC 61000-4-11 with regional deviations.
Single copy price: $50.00
Obtain an electronic copy from: Connor.Grubbs@nema.org
Send comments (copy psa@ansi.org) to: Same

NFRC (National Fenestration Rating Council)

6305 Ivy Lane, Suite 140, Greenbelt, MD 20770 | jpadgett@nfrc.org, www.nfrc.org

Revision

BSR/NFRC 200-2023 E0A6, Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (revision of ANSI/NFRC 200-2023 E0A5)
To specify a method for calculating solar heat gain coefficient (SHGC) and visible transmittance (VT) at normal (perpendicular) incidence for fenestration products containing glazings or glazing with applied films, with specular optical properties calculated in accordance with ISO 15099 (except where noted) or tested in accordance with NFRC 201, NFRC 202, and NFRC 203.
Single copy price: Free
Obtain an electronic copy from: standards@nfrc.org
Send comments (copy psa@ansi.org) to: standards@nfrc.org

TIA (Telecommunications Industry Association)

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

Addenda

BSR/TIA 322-A-1-202x, Loading, Analysis, and Design Criteria Related to the Installation, Alteration and Maintenance of Communication Structures - Addendum 1 (addenda to ANSI/TIA 322-A-2023)
Addendum is created to address minor edits within the text/tables/figures, as well as directly address the inclusion of personnel loads in the prescribed load combinations in Section 4. Entire document is open for comment.
Single copy price: $141.00
Obtain an electronic copy from: standards-process@tiaonline.org
Send comments (copy psa@ansi.org) to: Same

Comment Deadline: September 22, 2025

TVC (ASC Z80) (The Vision Council)

225 Reinekers Lane, Suite 700, Alexandria, VA 22314 | ascz80@thevisioncouncil.org, www.z80asc.com

Reaffirmation

BSR Z80.29-2015 (R202x), Ophthalmics - Accommodative Intraocular Lenses (reaffirmation of ANSI Z80.29 -2015 (R2020))
This standard applies to any ocular implant whose primary indication is the correction of aphakia and is designed to provide vision over a continuous range of distances by affecting a change in the vergence power of the eye resulting from the implant design that changes eye optical power or implant position in response to a stimulus. For the purposes of this standard, these implants are referred to as accommodative intraocular lenses (AIOLs).
Single copy price: $80.00
Obtain an electronic copy from: https://www.z80asc.com/ or email: ascz80@thevisioncouncil.org
Send comments (copy psa@ansi.org) to: https://www.z80asc.com/ or email: ascz80@thevisioncouncil.org

ULSE (UL Standards and Engagement)

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

National Adoption

BSR/UL 60079-25-202x, Standard for Safety for Explosive Atmospheres - Part 25: Intrinsically Safe Electrical Systems (national adoption of IEC 60079-25 with modifications and revision of ANSI/UL 60079-25-2011 (R2024))
(1) Adoption of IEC 60079-25, Explosive Atmospheres – Part 25: Intrinsically Safe Elecrical Systems (third edition, issued by IEC June 2020), as a new IEC-based UL Standard, UL 60079-25 with US National Differences.
Single copy price: Free
Obtain an electronic copy from: https://csds.ul.com/ProposalAvailable
Send comments (copy psa@ansi.org) to: https://csds.ul.com/ProposalAvailable

ULSE (UL Standards and Engagement)

47173 Benicia Street, Fremont, CA 94538 | Linda.L.Phinney@ul.org, https://ulse.org/

Reaffirmation

BSR/UL 83-2020 (R202x), Standard for Safety for Thermoplastic-Insulated Wires and Cables (reaffirmation of ANSI/UL 83-2020)
Reaffirmation of the 16th Edition of the Standard for Safety for Thermoplastic-Insulated Wires and Cables.
Single copy price: Free
Obtain an electronic copy from: https://csds.ul.com/ProposalAvailable
Send comments (copy psa@ansi.org) to: https://csds.ul.com/ProposalAvailable

ULSE (UL Standards and Engagement)

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

Reaffirmation

BSR/UL 681-2020 (R202x), Standard for Safety for Installation and Classification of Burglar and Holdup Alarm Systems (reaffirmation of ANSI/UL 681-2020)
Reaffirmation and continuance for the Standard for Safety for Installation and Classification of Burglar and Holdup Alarm Systems UL 681, as a standard.
Single copy price: Free
Obtain an electronic copy from: https://csds.ul.com/ProposalAvailable
Send comments (copy psa@ansi.org) to: Follow the instructions at the following website to enter comments into the CSDS Work Area: https://csds.ul.com/ProposalAvailable

Comment Deadline: September 22, 2025

ULSE (UL Standards and Engagement)

12 Laboratory Dr, Research Triangle, NC 27709 | anastasia.letaw@ul.org, https://ulse.org/

Reaffirmation

BSR/UL 810B-2021 (R202x), Standard for Safety for DC Power Capacitors (reaffirmation of ANSI/UL 810B-2021)
Reaffirmation and continuance of the Second Edition of the Standard for Safety for DC Power Capacitors, UL 810B, as an standard
Single copy price: Free
Obtain an electronic copy from: https://csds.ul.com/ProposalAvailable
Send comments (copy psa@ansi.org) to: https://csds.ul.com/ProposalAvailable

ULSE (UL Standards and Engagement)

1603 Orrington Avenue, Evanston, IL 60201 | Vanessa.Johanneson@ul.org, https://ulse.org/

Reaffirmation

BSR/UL 2255-2021 (R202x), Standard for Receptacle Closures (reaffirmation of ANSI/UL 2255-2021)
Reaffirmation and continuance of the Third Edition of the Standard for Receptacle Enclosures, UL 2255, as an standard.
Single copy price: Free
Obtain an electronic copy from: https://csds.ul.com/ProposalAvailable
Send comments (copy psa@ansi.org) to: Follow the instructions at the following website to enter comments into the CSDS Work Area: https://csds.ul.com/ProposalAvailable

ULSE (UL Standards and Engagement)

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

Reaffirmation

BSR/UL 61058-1-2-2017 (R202x), Standard for Switches for Appliances - Part 1-2: Requirements for Electronic Switches (reaffirmation of ANSI/UL 61058-1-2-2017)
Reaffirmation and continuance of the 1st Edition of the Standard for Switches for Appliances - Part 1-2: Requirements for Electronic Switches, UL 61058-1-2, as an standard.
Single copy price: Free
Obtain an electronic copy from: https://csds.ul.org/ProposalAvailable
Send comments (copy psa@ansi.org) to: https://csds.ul.org/ProposalAvailable

VITA (VMEbus International Trade Association (VITA))

929 W. Portobello Avenue, Mesa, AZ 85210 | jing.kwok@vita.com, www.vita.com

Reaffirmation

BSR/VITA 42.3-2020 (R202x), XMC PCI Express Protocol Layer Standard (reaffirmation of ANSI/VITA 42.3-2020)
This standard describes a method for implementing PCI Express on the VITA 42.0, XMC mezzanine form factor. This revision extends FRU support for PCIe Gen 2 and above.
Single copy price: $100.00
Obtain an electronic copy from: admin@vita.com
Send comments (copy psa@ansi.org) to: admin@vita.com

Comment Deadline: September 22, 2025

VITA (VMEbus International Trade Association (VITA))

929 W. Portobello Avenue, Mesa, AZ 85210 | jing.kwok@vita.com, www.vita.com

Reaffirmation

BSR/VITA 46.30-2020 (R202x), Higher Data Rate VPX (reaffirmation of ANSI/VITA 46.30-2020)
VITA 46.30 defines a standard for a VPX connector that supports higher data rates, to at least 25 Gbaud - for protocols such as 100GBASE-KR4 Ethernet and PCIe Gen 4. The higher data rate connectors compliant to VITA 46.30 are intermateable to legacy VITA 46.0 connectors and follow the same form factor.
Single copy price: $100.00
Obtain an electronic copy from: admin@vita.com
Send comments (copy psa@ansi.org) to: VITA 46.30 defines a standard for a VPX connector that supports higher data rates, to at least 25 Gbaud - for protocols such as 100GBASE-KR4 Ethernet and PCIe Gen 4. The higher data rate connectors compliant to VITA 46.30 are intermateable to legacy VITA

VITA (VMEbus International Trade Association (VITA))

929 W. Portobello Avenue, Mesa, AZ 85210 | jing.kwok@vita.com, www.vita.com

Reaffirmation

BSR/VITA 48.1-2020 (R202x), Mechanical Specification for Microcomputers Using REDI Air Cooling (reaffirmation of ANSI/VITA 48.1-2020)
VITA 48.1 defines a detailed mechanical implementation for air-cooling (i.e., cooling air flowing over the components) applications applied to PCBs/plug-in units defined in VITA 46.
Single copy price: $100.00
Obtain an electronic copy from: admin@vita.com
Send comments (copy psa@ansi.org) to: admin@vita.com

VITA (VMEbus International Trade Association (VITA))

929 W. Portobello Avenue, Mesa, AZ 85210 | jing.kwok@vita.com, www.vita.com

Reaffirmation

BSR/VITA 62.2-2020 (R202x), Modular Power Supply Standard for 270v Applications (reaffirmation of ANSI/VITA 62.2-2020)
This standard provides requirements for building a 270v class power supply module that can be used to power a VPX chassis in the VITA 62 family of standards. The module will fit within the standard envelope defined for VPX modules in the VITA 48.0 standards.
Single copy price: $100.00
Obtain an electronic copy from: admin@vita.com
Send comments (copy psa@ansi.org) to: admin@vita.com

Comment Deadline: October 7, 2025

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

700 K Street NW, Suite 600, Washington DC, DC 20001 | jpowers@itic.org, www.incits.org

National Adoption

INCITS/ISO/IEC 19777-3:2025 [202x], Computer graphics, image processing and environmental data representation - Extensible 3D (X3D) language bindings - Part 3: C (identical national adoption of ISO/IEC 19777-3:2025)
This document specifies a C language binding interface for the ISO/IEC 19775-1 Extensible 3D standard. This document specifies a language-dependent layer for the C language, providing an implementation-independent way of accessing the browser capabilities through the C language.
Single copy price: $201.00
Obtain an electronic copy from: https://webstore.ansi.org/
Order from: https://webstore.ansi.org/
Send comments (copy psa@ansi.org) to: incits@itic.org

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

700 K Street NW, Suite 600, Washington, DC 20001 | INCITS-comments@connectedcommunity.org, www.incits.org

National Adoption

INCITS/ISO/IEC 9868:2025 [202x], Information technology - Design, development, use and maintenance of biometric identification systems involving passive capture subjects (identical national adoption of ISO/IEC 9868:2025)
Provides recommendations and requirements for the design, development, use and maintenance of biometric identification systems involving passive capture subjects, including pre- and post-deployment evaluation. While the emphasis is on surveillance systems, this document is also applicable to other types of biometric identification systems involving passive capture subjects, regardless of biometric characteristic or sensing technology. This includes systems involving passive capture of subjects where some capture subjects enrolled voluntarily.
Single copy price: $201.00
Obtain an electronic copy from: https://webstore.ansi.org/
Order from: https://webstore.ansi.org/
Send comments (copy psa@ansi.org) to: incits@itic.org

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

700 K Street NW, Suite 600, Washington, DC 20001 | INCITS-comments@connectedcommunity.org, www.incits.org

National Adoption

INCITS/ISO/IEC 9899:2024 [202x], Information technology - Programming languages - C (identical national adoption of ISO/IEC 9899:2024 and revision of INCITS/ISO/IEC 9899:2018 [R2024])
Specifies the form and establishes the interpretation of programs written in the C programming language. It is designed to promote the portability of C programs among a variety of data-processing systems. It is intended for use by implementers and programmers. It specifies the representation of C programs; the syntax and constraints of the C language; the semantic rules for interpreting C programs; the representation of input data to be processed by C programs; the representation of output data produced by C programs; the restrictions and limits imposed by a conforming implementation of C.
Single copy price: $287.00
Obtain an electronic copy from: https://webstore.ansi.org/
Order from: https://webstore.ansi.org/
Send comments (copy psa@ansi.org) to: incits@itic.org

Comment Deadline: October 7, 2025

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

700 K Street NW, Suite 600, Washington, DC 20001 | INCITS-comments@connectedcommunity.org, www.incits.org

National Adoption

INCITS/ISO/IEC 14882:2024 [202x], Programming languages - C++ (identical national adoption of ISO/IEC 14882:2024 and revision of INCITS/ISO/IEC 14882:2020 [2021])
Specifies requirements for implementations of the C++ programming language. The first such requirement is that they implement the language, so this document also defines C++. Other requirements and relaxations of the first requirement appear at various places within this document. C++ is a general-purpose programming language based on the C programming language as described in ISO/IEC 9899:2018, Programming languages - C (hereinafter referred to as the C standard). C++ provides many facilities beyond those provided by C, including additional data types, classes, templates, exceptions, namespaces, operator overloading, function name overloading, references, free store management operators, and additional library facilities.
Single copy price: $287.00
Obtain an electronic copy from: https://webstore.ansi.org/
Order from: https://webstore.ansi.org/
Send comments (copy psa@ansi.org) to: incits@itic.org

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

700 K Street NW, Suite 600, Washington, DC 20001 | kquigley@itic.org, www.incits.org

National Adoption

INCITS/ISO/IEC 19790:2025 [202x], Information security, cybersecurity and privacy protection - Security requirements for cryptographic modules (identical national adoption of ISO/IEC 19790:2025 and revision of INCITS/ISO/IEC 19790:2012 [R2024])
Specifies the security requirements for a cryptographic module utilized within a security system protecting sensitive information in Information and Communication Technologies (ICT). It defines four security levels for cryptographic modules to provide for a wide spectrum of data sensitivity and a diversity of application environments. This document specifies up to four security levels for each of the 11 requirement areas with each security level increasing security over the preceding level.
Single copy price: $259.00
Obtain an electronic copy from: https://webstore.ansi.org/
Order from: https://webstore.ansi.org/
Send comments (copy psa@ansi.org) to: incits@itic.org

Comment Deadline: October 7, 2025

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

700 K Street NW, Suite 600, Washington, DC 20001 | kquigley@itic.org, www.incits.org

National Adoption

INCITS/ISO/IEC 24759:2025 [202x], Information security, cybersecurity and privacy protection - Test requirements for cryptographic modules (identical national adoption of ISO/IEC 24759:2025 and revision of INCITS/ISO/IEC 24759:2017 [R2023])
Specifies the methods to be used by testing laboratories to test whether the cryptographic module conforms to the requirements specified in ISO/IEC 19790:2025. The methods are developed to provide a high degree of objectivity during the testing process and to ensure consistency across the testing laboratories. This document also specifies the information that vendors are required to provide testing laboratories as supporting evidence to demonstrate their cryptographic modules' conformity to the requirements specified in ISO/IEC 19790:2025. Vendors can also use this document to verify whether their cryptographic modules satisfy the requirements specified in ISO/IEC 19790:2025 before applying to a testing laboratory for testing.
Single copy price: $287.00
Obtain an electronic copy from: https://webstore.ansi.org/
Order from: https://webstore.ansi.org/
Send comments (copy psa@ansi.org) to: incits@itic.org

ULSE (UL Standards and Engagement)

1603 Orrington Ave, Suite 2000, Evanston, IL 60201 | megan.monsen@ul.org, https://ulse.org/

Revision

BSR/UL 2252-202x, Standard for Safety for Adapters for Use with Electric Vehicle Couplers (revision of ANSI/UL 2252-2025)
This revision of ANSI/UL 2252 includes a dielectric strength test clarification and temperature test revisions.
Single copy price: Free
Order from: https://csds.ul.org/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.org/ProposalAvailable".

ULSE (UL Standards and Engagement)

1603 Orrington Ave, Suite 2000, Evanston, IL 60201 | megan.monsen@ul.org, https://ulse.org/

Revision

BSR/UL 6141-202x, Standard for Safety for Wind Turbines Permitting Entry of Personnel (revision of ANSI/UL 6141-2022)
This revision of ANSI/UL 6141 is a proposed Second Edition which contains multiple corrections and administrative edits.
Single copy price: Free
Order from: https://csds.ul.org/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.org/ProposalAvailable".

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.

AAFS (American Academy of Forensic Sciences)

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

ANSI/ASB BPR 209-2025, Best Practice Recommendations for Communicating with Next of Kin during Medicolegal Death Investigations (new standard) Final Action Date: 7/29/2025 | *New Standard*

ANSI/ASB BPR 021-2025, Best Practice Recommendation for the Preparation of Test Impressions from Footwear and Tires (revision of ANSI/ASB BPR 021-2019) Final Action Date: 7/29/2025 | *Revision*

AGMA (American Gear Manufacturers Association)

1001 N. Fairfax Street, Suite 500, Alexandria, VA 22314 | praneis@agma.org, www.agma.org

ANSI/AGMA 2101-E25, Fundamental Rating Factors and Calculation Methods for Involute Spur and Helical Gear Teeth (revision of ANSI/AGMA 2101-D04 (R2016)) Final Action Date: 7/31/2025 | *Revision*

ANS (American Nuclear Society)

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

ANSI/ANS 10.8-2015 (R2025), Non-Real-Time, High-Integrity Software for the Nuclear Industry - User Requirements (reaffirmation of ANSI/ANS 10.8-2015 (R2020)) Final Action Date: 7/29/2025 | *Reaffirmation*

ANSI/ANS 58.9-2002 (R2025), Single Failure Criteria for Light Water Reactor Safety-Related Fluid Systems (reaffirmation of ANSI/ANS 58.9-2002 (R2020)) Final Action Date: 7/29/2025 | *Reaffirmation*

ARESCA (American Renewable Energy Standards and Certification Association)

256 Farrell Farm Road, Norwich, VT 05055 | secretary@aresca.us, www.aresca.us

ANSI/ARESCA 61400-16-2025, Wind energy generation systems - Part 16: Standard file format for sharing power curve information (identical national adoption of IEC 61400-16:2027) Final Action Date: 7/25/2025 | *National Adoption*

ANSI/ARESCA 61400-32-2025, Wind energy generation systems - Part 32: Operations and maintenance of blades (identical national adoption of IEC 61400-32:2026) Final Action Date: 7/25/2025 | *National Adoption*

ANSI/ARESCA 61400-40-2025, Wind energy generation systems - Part 40: Electromagnetic Compatibility (EMC) - Requirements and test methods (identical national adoption of IEC 61400-40:2025) Final Action Date: 7/25/2025 | *National Adoption*

ASABE (American Society of Agricultural and Biological Engineers)

2950 Niles Road, Saint Joseph, MI 49085 | walsh@asabe.org, https://www.asabe.org/

ANSI/ASABE S620.2-JUL2025, Safety for Anhydrous Ammonia Application Equipment (revision of ANSI/ASABE S620.1-APR2022) Final Action Date: 7/29/2025 | *Revision*

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

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

ANSI/ASHRAE Addendum h to ANSI/ASHRAE Standard 147-2019, Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems (addenda to ANSI/ASHRAE Standard 147-2019) Final Action Date: 7/31/2025 | *Addenda*

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

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

ANSI/ASHRAE/ASHE Addendum 170u-2021, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Standard 170-2021) Final Action Date: 7/31/2025 | *Addenda*

ANSI/ASHRAE/IES Addendum bz to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2022) Final Action Date: 7/31/2025 | *Addenda*

ANSI/ASHRAE/IES Addendum ck to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2022) Final Action Date: 7/31/2025 | *Addenda*

ANSI/ASHRAE Standard 24-2025, Methods of Testing for Rating Evaporators Used for Cooling Liquids (revision of ANSI/ASHRAE Standard 24-2019) Final Action Date: 7/31/2025 | *Revision*

AWS (American Welding Society)

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

ANSI/AWS A5.11/A5.11M-2025, Specification for Nickel and Nickel-Alloy Welding Electrodes for Shielded Metal Arc Welding (revision of ANSI/AWS A5.11/A5.11M-2018) Final Action Date: 7/29/2025 | *Revision*

ANSI/AWS A5.20/A5.20M-2025, Specification for Carbon Steel Electrodes for Flux Cored Arc Welding (revision of ANSI/AWS A5.20/A5.20M-2021) Final Action Date: 7/29/2025 | *Revision*

CTA (Consumer Technology Association)

1919 South Eads Street, Arlington, VA 22202 | KHaresign@cta.tech, www.cta.tech

ANSI/CTA 2127-2025, Performance Characteristics and Requirements for Consumer Pulse Oximetry Monitoring Solutions (new standard) Final Action Date: 8/1/2025 | *New Standard*

DirectTrust™ (DirectTrust.org, Inc.)

1629 K Street NW, Suite 300, Washington, DC 20006 | taylor.davis@directtrust.org, www.DirectTrust.org

ANSI/DS2019-01-200-2025a, XDR and XDM for Direct Secure Messaging Specification (revision of ANSI/DS2019-01-200 -2025) Final Action Date: 7/29/2025 | *Revision*

ECIA (Electronic Components Industry Association)

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

ANSI/EIA 364-1006-2025, Environmental Test Methodology for Assessing the Performance of Electrical Connectors and Sockets Used in Single Phase Immersion Cooling Applications (new standard) Final Action Date: 7/30/2025 | *New Standard*

ANSI/EIA 364-14B-1999 (R2025), Ozone Exposure Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-14B-1999 (R2019)) Final Action Date: 7/31/2025 | *Reaffirmation*

FM (FM Approvals)

One Technology Way, Norwood, MA 02062 | josephine.mahnken@fmapprovals.com, www.fmapprovals.com

ANSI/FM 4996-2019 (R2025), Classification of Pallets and Other Material Handling Products as Equivalent to Wood Pallets (reaffirmation of ANSI/FM 4996-2019) Final Action Date: 7/29/2025 | *Reaffirmation*

IEEE (Institute of Electrical and Electronics Engineers)

445 Hoes Lane, Piscataway, NJ 08854-4141 | s.merten@ieee.org, www.ieee.org

ANSI/IEEE C37.90.1-2025, Standard for Relays, Relay Systems, and Control Devices used for Protection and Control of Electric Power Apparatus - Surge Withstand Capability (SWC) and Electrical Fast Transient (EFT) Requirements and Tests (new standard) Final Action Date: 7/31/2025 | *New Standard*

ISA (International Society of Automation)

3252 S. Miami Blvd, Suite 102, Durham, NC 27703 | lfranke@isa.org, www.isa.org

ANSI/ISA 96.08.01-2025, Guidelines for the Specification of Linear and Rotary Gas Over Oil Valve Actuators (new standard) Final Action Date: 7/29/2025 | *New Standard*

NSF (NSF International)

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

ANSI/NSF 2-2025 (i44r1), Food Equipment (revision of ANSI/NSF 2-2022) Final Action Date: 7/22/2025 | *Revision*

SAAMI (Sporting Arms and Ammunition Manufacturers Institute)

6 Corporate Drive, Suite 650, Shelton, CT 06484 | bosowiecki@saami.org, www.saami.org

ANSI/SAAMI Z299.6-2025, Voluntary Industry Performance Standards Criteria for Firearm Sound Suppressors for the Use of Commercial Manufacturers (new standard) Final Action Date: 7/30/2025 | *New Standard*

TIA (Telecommunications Industry Association)

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

ANSI/TIA 455-133-B-2025, FOTP-133 IEC-60793-1-22, Optical Fibres - Part 1-22: Measurement Methods and Test Procedures Length Measurement (identical national adoption of IEC-60793-1-22) Final Action Date: 7/29/2025 | *National Adoption*

ULSE (UL Standards and Engagement)

1603 Orrington Ave, Evanston, Il 60201 | cynthia.byrne@ul.org, https://ulse.org/

ANSI/UL 61010-2-030-2025, Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 030: Particular Requirements for Equipment Having Testing or Measuring Circuits (national adoption of IEC 61010-2-030 with modifications and revision of ANSI/UL 61010-2-030-2018 (R2023)) Final Action Date: 7/31/2025 | *National Adoption*

ANSI/UL 61131-2-2025, Standard for Programmable Controllers - Part 2: Equipment Requirements and Tests (national adoption of IEC 61131-2 with modifications and revision of ANSI/UL 61131-2-2008 (R2021)) Final Action Date: 3/11/2025 | *National Adoption*

ANSI/UL 62275-2025, Standard for Safety for Cable Management Systems - Cable Ties for Electrical Installations (national adoption of IEC 62275 with modifications and revision of ANSI/UL 62275-2021) Final Action Date: 5/27/2025 | *National Adoption*

ANSI/UL 183-2016 (R2025), Standard for Safety for Manufactured Wiring Systems (reaffirmation of ANSI/UL 183-2016 (R2020)) Final Action Date: 7/31/2025 | *Reaffirmation*

ANSI/UL 1012-2012 (R2025), Standard for Safety for Power Units Other Than Class 2 (reaffirmation of ANSI/UL 1012 -2012 (R2021)) Final Action Date: 7/30/2025 | *Reaffirmation*

ULSE (UL Standards and Engagement)

12 Laboratory Dr, Research Triangle, NC 27709 | anastasia.letaw@ul.org, https://ulse.org/

ANSI/UL 121201-2021 (R2025), Standard for Safety for Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations (reaffirmation of ANSI/UL 121201-2021) Final Action Date: 7/30/2025 | *Reaffirmation*

ANSI/UL 817-2025, Standard for Safety for Cord Sets and Power-Supply Cords (revision of ANSI/UL 817-2023) Final Action Date: 7/30/2025 | *Revision*

ANSI/UL 1685-2025, Standard for Vertical-Tray Fire-Propagation and Smoke-Release Test for Electrical and Optical-Fiber Cables (revision of ANSI/UL 1685-2010 (R2020)) Final Action Date: 7/29/2025 | *Revision*

ANSI/UL 3703-2025a, Standard for Safety for Solar Trackers (revision of ANSI/UL 3703-2025) Final Action Date: 7/31/2025 | *Revision*

ANSI/UL 62368-1-2025, Standard for Safety for Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements (revision of ANSI/UL 62368-1-2021) Final Action Date: 7/31/2025 | *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

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

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

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

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

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

ANSI Accredited Standards Developer

SCTE (Society of Cable Telecommunications Engineers)

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

ASABE (American Society of Agricultural and Biological Engineers)

2590 Niles Road, Saint Joseph, MI 49085 | stell@asabe.org, https://www.asabe.org/

BSR/ASABE/ISO 5675-202x, Agricultural tractors and machinery - General purpose quick action hydraulic couplers (identical national adoption of ISO 5675:2021 and revision of ANSI/ASABE AD5675-2016 (R2020))

ASABE (American Society of Agricultural and Biological Engineers)

2950 Niles Road, Saint Joseph, MI 49085 | wall@asabe.org, https://www.asabe.org/

BSR/ASABE/USBI S668 MONYEAR-202x, Methods for Measurement and Testing of Biochar (new standard)

ATIS (Alliance for Telecommunications Industry Solutions)

1200 G Street NW, Suite 500, Washington, DC 20005 | akarditzas@atis.org, www.atis.org

BSR/ATIS 0100523-202x, PTSC Telecom Glossary (revision of ANSI/ATIS 0100523-2019)

CTA (Consumer Technology Association)

1919 South Eads Street, Arlington, VA 22202 | KHaresign@cta.tech, www.cta.tech

BSR/CTA 2135-202x, Performance Verification and Validation of Predictive Health AI Solutions (new standard)

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

BSR/ES1.2-202x, Event Safety - Planning and Management (new standard)
Interest Categories: The Event Safety Working Group seeks new members in the Insurance, Equipment provider, Performing artist, Event worker, and Dealer or rental company Interest categories. Interested parties please inquire at standards@esta.org

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

BSR/ES1.8-202x, Event Safety - Venue & Site Design (new standard)
Interest Categories: The Event Safety Working Group seeks new members in the Insurance, Equipment provider, Performing artist, Event worker, and Dealer or rental company Interest categories. Interested parties please inquire at standards@esta.org

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

BSR/E1.66-202x, Safety Standard for Followspot Positions Erected for Short-Term Use in Entertainment Venues (revision of ANSI/E1.66-2020)
Interest Categories: The Followspot Positions Working Group seeks new members in the Dealer/Rental company interest category. Interested parties inquire at standards@esta.org for further details.

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

BSR/E1.78-202x, Weapons Safety in Entertainment Production (new standard)
Interest Categories: The Weapons Safety Working Group seeks new members in the Dealer or rental comapnay Interest category. Interested parties please inquire at standards@esta.org

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

BSR/E1.79-202x, Television, Film, Live Performance, and Event Electrical Guidelines for Canada (new standard)
Interest Categories: The Electrical Power Working Group seeks new members in the Custom producer, Designer, Dealer or rental comapnay, and General Interest categories. Interested parties please inquire at standards@esta.org

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

BSR/E1.86-202x, Standard for construction of cylindrical multi-pin connectors used in connecting power and control to motor hoists in entertainment (new standard)
Interest Categories: The Electrical Power Working Group seeks new members in the Custom producer, Designer, Dealer or rental comapnay, and General Interest categories. Interested parties please inquire at standards@esta.org

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

BSR E1.54-2021 (R202x), ESTA Standard for Color Communication in Entertainment Lighting (reaffirmation of ANSI E1.54-2021)
Interest Categories: The Photometrics Working Group seeks new members in the Custom producer, Designer, Dealer or rental comapnay, and General Interest categories. Interested parties please inquire at standards@esta.org

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

700 K Street NW, Suite 600, Washington DC, DC 20001 | jpowers@itic.org, www.incits.org

INCITS/ISO/IEC 19777-3:2025 [202x], Computer graphics, image processing and environmental data representation - Extensible 3D (X3D) language bindings - Part 3: C (identical national adoption of ISO/IEC 19777 -3:2025)

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

700 K Street NW, Suite 600, Washington, DC 20001 | INCITS-comments@connectedcommunity.org, www.incits.org

INCITS/ISO/IEC 9868:2025 [202x], Information technology - Design, development, use and maintenance of biometric identification systems involving passive capture subjects (identical national adoption of ISO/IEC 9868:2025)

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

700 K Street NW, Suite 600, Washington, DC 20001 | INCITS-comments@connectedcommunity.org, www.incits.org

INCITS/ISO/IEC 9899:2024 [202x], Information technology - Programming languages - C (identical national adoption of ISO/IEC 9899:2024 and revision of INCITS/ISO/IEC 9899:2018 [R2024])

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

700 K Street NW, Suite 600, Washington, DC 20001 | INCITS-comments@connectedcommunity.org, www.incits.org

INCITS/ISO/IEC 14882:2024 [202x], Programming languages - C++ (identical national adoption of ISO/IEC 14882:2024 and revision of INCITS/ISO/IEC 14882:2020 [2021])

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

700 K Street NW, Suite 600, Washington, DC 20001 | kquigley@itic.org, www.incits.org

INCITS/ISO/IEC 19790:2025 [202x], Information security, cybersecurity and privacy protection - Security requirements for cryptographic modules (identical national adoption of ISO/IEC 19790:2025 and revision of INCITS/ISO/IEC 19790:2012 [R2024])

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

700 K Street NW, Suite 600, Washington, DC 20001 | kquigley@itic.org, www.incits.org

INCITS/ISO/IEC 24759:2025 [202x], Information security, cybersecurity and privacy protection - Test requirements for cryptographic modules (identical national adoption of ISO/IEC 24759:2025 and revision of INCITS/ISO/IEC 24759:2017 [R2023])

NEMA (ASC C37) (National Electrical Manufacturers Association)

1812 N. Moore Street, Rosslyn, Virginia 22209 | Connor.Grubbs@nema.org, www.nema.org

BSR C37.85-202x, Alternating-Current High-Voltage Power Vacuum Interrupters Safety Requirements for X-Radiation Limits (revision of ANSI C37.85-2020)

NEMA (ASC C82) (National Electrical Manufacturers Association)

1812 N Moore Street, Arlington, VA 22209 | Connor.Grubbs@nema.org, www.nema.org

BSR C82.77-3-202X, Standard for Lighting Equipment - Electromagnetic Compatibility (EMC) Testing and Measurement Techniques - Radiated, Radio-Frequency Electromagnetic Field Immunity Test (national adoption of IEC 61000-4-3, ed 4.0 (2020-09) with modifications and revision of ANSI C82.77-3-2020)

NEMA (ASC C82) (National Electrical Manufacturers Association)

1812 N Moore Street, Arlington, VA 22209 | Connor.Grubbs@nema.org, www.nema.org

BSR C82.77-7-202X, Standard for Lighting Equipment - Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests (national adoption of IEC 61000-4-11 Edition 3.0 (2020-01) with modifications and revision of ANSI C82.77-7-2020)

NEMA (ASC C82) (National Electrical Manufacturers Association)

1812 N Moore Street, Arlington, VA 22209 | Connor.Grubbs@nema.org, www.nema.org

BSR C82.77-410-202X, Standard for Lighting Equipment - Inrush Current Performance Testing (new standard)

NEMA (National Electrical Manufacturers Association)

1300 North 17th Street, Suite 900, Rosslyn, VA 22209 | and_moldoveanu@nema.org, www.nema.org

BSR/NEMA ESM1-7-202x, Electrical Submeter - Current Sensor Accuracy (revision of ANSI/NEMA SM 31000-7 -2021)

NENA (National Emergency Number Association)

1700 Diagonal Road, Suite 500, Alexandria, VA 22314 | crm@nena.org, www.nena.org

BSR/NENA STA-045.2-202x, NENA Standard for 9-1-1/988 Interactions (revision of ANSI/NENA STA-045.1-2025)
NE seeks volunteers for the 911-988 Georouting (US) Working Group, to assist with a targeted update to the NE Standard for 9-1-1/988 Interactions, NE-STA-045.1-2025, an American National Standard (ANS). The working group is seeking both operationally- and technologically focused individuals with knowledge and experience in public safety, 911, 988, and related technologies. Members are needed in the User, Producer, and General Interest categories, as defined in Section 3 Document Development Process of the NE Development Group Operational Procedures, NE-ADM-001.6-2025, found at https://www.nena.org/page/standards. To join the Working Group: https://www.nena.org/page/Join911988GeoroutingWG

NFRC (National Fenestration Rating Council)

6305 Ivy Lane, Suite 140, Greenbelt, MD 20770 | jpadgett@nfrc.org, www.nfrc.org

BSR/NFRC 200-2023 E0A6, Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (revision of ANSI/NFRC 200-2023 E0A5)

NSF (NSF International)

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

BSR/NSF 40-202x (i86r1), Residential Wastewater Treatment Systems (revision of ANSI/NSF 40-2023)

NSF (NSF International)

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

BSR/NSF 350-202x (i89r1), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2023)

TIA (Telecommunications Industry Association)

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

BSR/TIA 322-A-1-202x, Loading, Analysis, and Design Criteria Related to the Installation, Alteration and Maintenance of Communication Structures - Addendum 1 (addenda to ANSI/TIA 322-A-2023)

ULSE (UL Standards and Engagement)

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

BSR/UL 61058-1-2-2017 (R202x), Standard for Switches for Appliances - Part 1-2: Requirements for Electronic Switches (reaffirmation of ANSI/UL 61058-1-2-2017)

VITA (VMEbus International Trade Association (VITA))

929 W. Portobello Avenue, Mesa, AZ 85210 | jing.kwok@vita.com, www.vita.com

BSR/VITA 42.3-2020 (R202x), XMC PCI Express Protocol Layer Standard (reaffirmation of ANSI/VITA 42.3-2020)

VITA (VMEbus International Trade Association (VITA))

929 W. Portobello Avenue, Mesa, AZ 85210 | jing.kwok@vita.com, www.vita.com

BSR/VITA 46.30-2020 (R202x), Higher Data Rate VPX (reaffirmation of ANSI/VITA 46.30-2020)

VITA (VMEbus International Trade Association (VITA))

929 W. Portobello Avenue, Mesa, AZ 85210 | jing.kwok@vita.com, www.vita.com

BSR/VITA 48.1-2020 (R202x), Mechanical Specification for Microcomputers Using REDI Air Cooling (reaffirmation of ANSI/VITA 48.1-2020)

VITA (VMEbus International Trade Association (VITA))

929 W. Portobello Avenue, Mesa, AZ 85210 | jing.kwok@vita.com, www.vita.com

BSR/VITA 62.2-2020 (R202x), Modular Power Supply Standard for 270v Applications (reaffirmation of ANSI/VITA 62.2-2020)

American National Standards (ANS) Process

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

Where to find Procedures, Guidance, Interpretations and More…

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

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

www.ansi.org/essentialrequirements

• ANSI Standards Action (weekly public review announcements of proposed ANS and standards developer accreditation applications, listing of recently approved ANS, and proposed revisions to ANS-related procedures):

www.ansi.org/standardsaction

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

www.ansi.org/sdoaccreditation

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

www.ansi.org/asd

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

www.ansi.org/asd

• American National Standards Key Steps:

www.ansi.org/anskeysteps

• American National Standards Value:

www.ansi.org/ansvalue

• ANS Web Forms for ANSI-Accredited Standards Developers:

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

• Information about standards Incorporated by Reference (IBR):

https://ibr.ansi.org/

• ANSI - Education and Training:

www.standardslearn.org

American National Standards Under Continuous Maintenance

The ANSI Essential Requirements: Due Process Requirements for American National Standards provides two options for the maintenance of American National Standards (ANS): periodic maintenance (see clause 4.7.1) and continuous maintenance (see clause 4.7.2). Continuous maintenance is defined as follows:

The standard shall be maintained by an accredited standards developer. A documented program for periodic publication of revisions shall be established by the standards developer. Processing of these revisions shall be in accordance with these procedures. The published standard shall include a clear statement of the intent to consider requests for change and information on the submittal of such requests. Procedures shall be established for timely, documented consensus action on each request for change and no portion of the standard shall be excluded from the revision process. In the event that no revisions are issued for a period of four years, action to reaffirm or withdraw the standard shall be taken in accordance with the procedures contained in the ANSI Essential Requirements. The Executive Standards Council (ExSC) has determined that for standards maintained under the Continuous Maintenance option, separate PINS announcements are not required. The following ANSI Accredited Standards Developers have formally registered standards under the Continuous Maintenance option.

AAMI (Association for the Advancement of Medical Instrumentation)

AARST (American Association of Radon Scientists and Technologists)

AGA (American Gas Association)

AGSC (Auto Glass Safety Council)

ASC X9 (Accredited Standards Committee X9, Incorporated)

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

ASME (American Society of Mechanical Engineers)

ASTM (ASTM International)

GBI (Green Building Initiative)

HL7 (Health Level Seven)

Home Innovation (Home Innovation Research Labs)

IES (Illuminating Engineering Society)

ITI (InterNational Committee for Information Technology Standards)

MHI (Material Handling Industry)

NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)

NCPDP (National Council for Prescription Drug Programs)

NEMA (National Electrical Manufacturers Association)

NFRC (National Fenestration Rating Council)

NISO (National Information Standards Organization)

NSF (NSF International)

PHTA (Pool and Hot Tub Alliance)

RESNET (Residential Energy Services Network, Inc.)

SAE (SAE International)

TCNA (Tile Council of North America)

TIA (Telecommunications Industry Association)

TMA (The Monitoring Association)

ULSE (UL Standards & Engagement)

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

ANSI-Accredited Standards Developers (ASD) Contacts

The addresses listed in this section are to be used in conjunction with standards listed in PINS, Call for Comment, Call for Members and Final Actions. This section is a list of developers who have submitted standards for this issue of *Standards Action* – it is not intended to be a list of all ANSI-Accredited Standards Developers. Please send all address corrections to the PSA Department at psa@ansi.org.

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ISO & IEC Draft International Standards

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

COMMENTS

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

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

ORDERING INSTRUCTIONS

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

ISO Standards

Compressors, pneumatic tools and pneumatic machines (TC 118)

ISO/DIS 18623-1.2, Air compressors and compressed air systems - Air compressors - Part 1: Safety requirements - 8/8/2025, $107.00

Control and safety devices for non industrial gas-fired appliances and systems (TC 161)

ISO/DIS 23550, Controls and protective devices for gaseous and liquid fuels - General requirements - 10/19/2025, $146.00

Fine Bubble Technology (TC 281)

ISO/DIS 7383-3, Fine bubble technology - Evaluation method for determining gas content in fine bubble dispersions in water - Part 3: Ozone content - 10/16/2025, $67.00

ISO/DIS 20304-4, Fine bubble technology - Water treatment applications - Part 4: Test method for evaluating the antifouling performance of fine bubble water in crossflow membrane filtration systems - 10/23/2025, $107.00

Graphic technology (TC 130)

ISO/DIS 19307, Graphic technology - Measurement and one-parameter representation of translucency - 10/17/2025, $53.00

Implants for surgery (TC 150)

ISO/DIS 20014, Implants for surgery - Test method to evaluate delamination resistance of ultra-high molecular weight polyethylene materials used for orthopaedic implants - 10/23/2025, $46.00

ISO/DIS 16436-1.2, Implants for surgery - Wear of total shoulder-joint prostheses - Part 1: Methodology for simulator wear testing of anatomic total shoulder-joint prostheses - 8/8/2025, $98.00

Industrial automation systems and integration (TC 184)

ISO/DIS 23726-3, Automation systems and integration - Ontology based interoperability - Part 3: Industrial data ontology - 10/18/2025, $175.00

Natural gas (TC 193)

ISO/DIS 24895-1, Analysis of natural gas - Determination of particulate matter - Part 1: Determination of particles content by gravimetric method - 10/23/2025, $62.00

Other

ISO/DIS 25116-1, Friction stir welding - Steel - Part 1: Qualification of welding operators - 10/18/2025, $58.00

ISO/DIS 25116-2, Friction stir welding - Steel - Part 2: Specification and qualification of welding procedures - 10/18/2025, $82.00

ISO/DIS 25116-3, Friction stir welding - Steel - Part 3: Quality and inspection requirements - 10/18/2025, $62.00

Paints and varnishes (TC 35)

ISO/DIS 3219-3, Rheology - Part 3: Test procedure and examples for the evaluation of results when using rotational and oscillatory rheometry - 10/18/2025, $107.00

Photography (TC 42)

ISO/DIS 20954-1, Digital cameras - Measurement method for image stabilization performance - Part 1: Optical systems - 10/17/2025, $134.00

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

ISO/DIS 24994, Plastics piping systems - Determination of selected metal and semi-metal migration values of plastic pipes, fittings and their joints - 10/19/2025, $46.00

Ships and marine technology (TC 8)

ISO/DIS 22627, Ships and marine technology-Painting technical requirements for accommodation interior of passenger ship - 10/17/2025, $40.00

ISO/DIS 24375, Ships and marine technology - Model tests for ships and structures in snow-covered ice - 10/17/2025, $67.00

(TC 313)

ISO/DIS 24158-1, Packaging machinery - Part 1: General safety requirements - 10/16/2025, $165.00

Textiles (TC 38)

ISO/DIS 25081, Nonwovens - Test methods for filtration of particulate matter - 10/16/2025, $53.00

ISO/DIS 25353, Textiles - Qualitative analysis proteomic analysis of protein fibres from leather - Peptide detection using MALDI-TOF MS - 10/19/2025, $53.00

Welding and allied processes (TC 44)

ISO/DIS 18275, Welding consumables - Covered electrodes for manual metal arc welding of high-strength steels - Classification - 10/16/2025, $93.00

IEC Standards

Capacitors and resistors for electronic equipment (TC 40)

40/3237(F)/FDIS, IEC 60384-14-1 ED4: Fixed capacitors for use in electronic equipment - Part 14-1: Blank detail specification - Fixed capacitors for electromagnetic interference suppression and connection to the supply mains - Assessment level DZ, 08/15/2025

40/3238(F)/FDIS, IEC 60384-14-2 ED3: Fixed capacitors for use in electronic equipment - Part 14-2: Blank detail specification - Fixed capacitors for electromagnetic interference suppression and connection to the supply mains - Safety tests only, 08/15/2025

Documentation and graphical symbols (TC 3)

3D/449/VD, IEC 61360-C00175 ED3: Transfer Switch Equipment (TSE), 09/12/2025

3D/450/VD, IEC 61360-C00179 ED3: Revision of value list definitions in IEC 61987 dictionary, 09/12/2025

3D/451/ED, IEC 61360-C00184 ED3: Switchgear and controlgear assembly objects for building information modelling, 08/29/2025

3/1737/CDV, IEC 81346-2 ED3: Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations - Part 2: Classification of objects and codes for classes, 10/24/2025

Electric traction equipment (TC 9)

9/3228/CDV, IEC 62888-3 ED2: Railway applications - Energy measurement on board trains - Part 3: Data handling, 10/24/2025

Electrical accessories (TC 23)

23B/1580/CDV, IEC 60884-2-5 ED3: Plugs and socket-outlets for household and similar purposes - Part 2-5: Particular requirements for adaptors, 10/24/2025

Electrical apparatus for explosive atmospheres (TC 31)

31J/391/CDV, IEC 60079-13 ED3: Explosive atmospheres - Part 13: Equipment protection by pressurized room "p" and artificially ventilated room "v", 10/24/2025

31G/426(F)/FDIS, IEC 60079-25/AMD1 ED3: Amendment 1 - Explosive atmospheres - Part 25: Intrinsically safe electrical systems, 08/22/2025

31/1889(F)/FDIS, IEC 60079-29-0 ED1: Explosive atmospheres - Part 29-0: Gas detectors - General requirements and test methods, and possible supplementary parts, 08/15/2025

Electrical equipment in medical practice (TC 62)

62D/2239(F)/FDIS, IEC 80601-2-89 ED1: Medical electrical equipment - Part 2-89: Particular requirements for the basic safety and essential performance of medical beds for children, 08/15/2025

Electrical installations of ships and of mobile and fixed offshore units (TC 18)

18A/505/FDIS, IEC 60092-352 ED4: Electrical installations in ships - Part 352: Selection, installation, and operating conditions of cables, 09/12/2025

Electromechanical components and mechanical structures for electronic equipments (TC 48)

48B/3168(F)/FDIS, IEC 61076-2 ED3: Connectors for electronic equipment - Product requirements - Part 2: Sectional specification for circular connectors, 08/29/2025

48B/3174/CD, Connectors for electrical and electronic equipment - Product requirements - Part 2-010: Circular connectors - Detail specification for connectors with outer or inner push-pull locking mechanism, based on mating interfaces according to IEC 61076-2-101, IEC 61076-2-109, IEC 61076-2 -111 and IEC 61076-2-113, 09/26/2025

48B/3166/CDV, IEC 61076-2-117 ED1: Connectors for electrical and electronic equipment - Detail specification for shielded, free and fixed circular connectors M12 to M40 for power, signal and data transmission with frequencies up to 600 MHz, 10/24/2025

Evaluation and Qualification of Electrical Insulating Materials and Systems (TC 112)

112/693/CD, IEC 61621 ED2: Dry, solid insulating materials - Resistance test to high-voltage, low-current arc discharges, 10/10/2025

Fibre optics (TC 86)

86A/2594/CDV, IEC 60794-1-106 ED1: Optical fibre cables - Part 1-106: Generic specification - Basic optical cable test procedures - Mechanical tests methods - Repeated bending, Method E6, 10/24/2025

86A/2595/CDV, IEC 60794-1-120 ED1: Optical fibre cables - Part 1-120: Generic specification - Basic optical cable test procedures - Mechanical tests methods - Cable storage performance before installation, Method E20, 10/24/2025

86A/2613/FDIS, IEC 60794-1-129 ED1: Optical fibre cables - Part 1-129: Generic specification - Basic optical cable test procedures - Mechanical tests methods - Straight midspan access to optical elements, Method E29, 09/12/2025

86A/2614/CD, IEC 60794-1-32 ED1: Optical fibre cables - Part 1 -32: Generic specification - Optical cable elements - Buffered optical fibre, 09/26/2025

86B/5081/CDV, IEC 61300-2-19 ED4: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-19: Tests - Damp heat (steady state), 10/24/2025

Instrument transformers (TC 38)

38/829/FDIS, IEC/IEEE 61869-21 ED1: Instrument transformers - Part 21: Uncertainty evaluation in the accuracy test of instrument transformers, 09/12/2025

Insulation co-ordination for low-voltage equipment (TC 109)

109/244/CD, IEC TR 60664-2-1 ED3: Insulation coordination for equipment within low-voltage systems - Part 2-1: Application guide - Explanation of the application of the IEC 60664 series, dimensioning examples and dielectric testing, 09/26/2025

Lamps and related equipment (TC 34)

34D/1795/CD, IEC 60598-2-17 ED3: Luminaires - Part 2-17: Particular requirements - Luminaires for stage lighting, television and film studios (outdoor and indoor), 10/24/2025

Lightning protection (TC 81)

81/796/CDV, IEC 62561-8 ED1: Lightning protection system components (LPSC) - Part 8: Requirements for components for electrically insulated LPS, 10/24/2025

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

114/597/CD, IEC TS 62600-2 ED3: Marine energy - Wave, tidal and other water current converters - Part 2: Marine energy systems - Design requirements, 11/21/2025

Maritime navigation and radiocommunication equipment and systems (TC 80)

80/1165/CD, IEC 63514 ED1: Maritime navigation and radiocommunication equipment and systems - VHF Data Exchange System (VDES) - Shipborne mobile station - Operational and performance requirements, methods of test and required test results, 09/26/2025

Measuring relays and protection equipment (TC 95)

95/600/CD, IEC 60255-26/AMD1 ED4: Amendment 1 - Measuring relays and protection equipment - Part 26: Electromagnetic compatibility requirements, 09/26/2025

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

113/911/DTS, IEC TS 62607-6-23 ED1: Nanomanufacturing - Key control characteristics - Part 6-23: Graphene-related products - Sheet resistance, carrier density, carrier mobility: Hall bar method, 09/26/2025

113/913/DTS, IEC TS 62607-6-33 ED1: Nanomanufacturing - Key control characteristics - Part 6-33: Graphene-related products - Defect density of graphene: electron energy loss spectroscopy, 09/26/2025

Nuclear instrumentation (TC 45)

45/1011/NP, PNW 45-1011 ED1: Nuclear Instrumentation- Geophysical borehole neutron- gamma spectroscopy instrumentation to analyse formation elements and minerals, 10/24/2025

Power system control and associated communications (TC 57)

57/2822/NP, PNW TS 57-2822 ED1: Communication networks and systems for power utility automation - Part 7-5: IEC 61850 Modelling concepts, 10/24/2025

Power transformers (TC 14)

14/1158/NP, PNW 14-1158 ED1: Power Transformers - Part 17: Transformers for photovoltaic power generation, battery storage, electric vehicle supply and hydrogen generation, 09/26/2025

Semiconductor devices (TC 47)

47F/517/FDIS, IEC 62047-53 ED1: Semiconductor devices - Micro-electromechanical devices - Part 53: MEMS electrothermal transfer device, 09/12/2025

47/2949/FDIS, IEC 63150-2 ED1: Semiconductor devices - Measurement and evaluation methods of kinetic energy harvesting devices under practical vibration environment - Part 2: Human arm swing motion, 09/12/2025

Solar photovoltaic energy systems (TC 82)

82/2456(F)/FDIS, IEC 63409-3 ED1: Photovoltaic power generating systems connection with grid - Testing of power conversion equipment - Part 3: Basic operations, 08/15/2025

Standard voltages, current ratings and frequencies (TC 8)

8B/269/CD, IEC TS 62898-5 ED1: Guidelines for the operation and control of microgrid clusters, 09/26/2025

8B/268/CD, IEC TS 63354 ED1: Guideline for the planning and design of direct current or hybrid microgrids, 09/26/2025

Surface mounting technology (TC 91)

91/2057/CD, IEC 61189-3-303 ED1: Test methods for electrical materials, printed board and other interconnection structures and assemblies - Part 3-303: Test methods for interconnection structures (circuit boards) - Etch factor measurement for traces on circuit boards, 09/26/2025

91/2055/CD, IEC 61191-10-2 ED1: Circuit board assemblies - Part 10-2: Guideline for the Output Profile Design in Laser-Assisted Bonding, 09/26/2025

Switchgear and controlgear (TC 17)

17C/980/FDIS, IEC 62271-201 ED3: High-voltage switchgear and controlgear - Part 201: AC solid-insulation enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV, 09/12/2025

Switchgear and Controlgear and Their Assemblies for Low Voltage (TC 121)

121A/699/FDIS, IEC 60947-5-5 ED2: Low-voltage switchgear and controlgear - Part 5-5: Control circuit devices and switching elements - Electrical emergency stop device with mechanical latching function, 09/12/2025

(TC)

SyCSmartCities/390/NP, PNW TS SYCSMARTCITIES-390 ED1: Smart city system ontology - Part 2: Guidance on ontology management for smart cities, 10/24/2025

SyCSmartCities/391/NP, PNW TS SYCSMARTCITIES-391 ED1: Smart city system ontology - Part 4: Ontology for Positive Energy Districts, 10/24/2025

UHV AC transmission systems (TC 122)

122/201/DTS, IEC TS 63042-401 ED1: UHV AC transmission systems - Part 401: Substation maintenance, 09/26/2025

Wind turbine generator systems (TC 88)

88/1109/FDIS, IEC 61400-1/AMD1 ED4: Amendment 1 - Wind energy generation systems - Part 1: Design requirements, 09/12/2025

Newly Published ISO & IEC Standards

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

ISO Standards

Agricultural food products (TC 34)

ISO 22002-1:2025, Prerequisite programmes on food safety - Part 1: Food manufacturing, $84.00

ISO 22002-2:2025, Prerequisite programmes on food safety - Part 2: Catering, $84.00

ISO 22002-4:2025, Prerequisite programmes on food safety - Part 4: Food packaging manufacturing, $84.00

ISO 22002-5:2025, Prerequisite programmes on food safety - Part 5: Transport and storage, $84.00

ISO 22002-6:2025, Prerequisite programmes on food safety - Part 6: Feed and animal food production, $56.00

ISO 22002-7:2025, Prerequisite programmes on food safety - Part 7: Retail and wholesale, $84.00

ISO 22002-100:2025, Prerequisite programmes on food safety - Part 100: Requirements for the food, feed and packaging supply chain, $172.00

Aircraft and space vehicles (TC 20)

ISO 22552:2025, Space systems - Manufacturing readiness review, $84.00

Dentistry (TC 106)

ISO 6877:2025, Dentistry - Endodontic obturating materials, $172.00

ISO 18618:2025, Dentistry - Interoperability of CAD/CAM systems, $259.00

Essential oils (TC 54)

ISO 13171:2016/Amd 1:2025, - Amendment 1: Essential oil of oregano [Origanum vulgare L. subsp. hirtum (Link) Ietsw.] - Amendment 1, $23.00

Gas cylinders (TC 58)

ISO 10286:2025, Gas cylinders - Vocabulary, $259.00

Petroleum products and lubricants (TC 28)

ISO 23505:2025, Petroleum and liquid petroleum products - Calibration of spherical tanks - External electro-optical distance-ranging method, $172.00

Transfusion, infusion and injection equipment for medical use (TC 76)

ISO 8536-16:2025, Infusion equipment for medical use - Part 16: Infusion sets for single use with volumetric infusion controllers, $84.00

Water re-use (TC 282)

ISO 18997:2025, Water reuse in urban areas - Guidelines for urban reclaimed water for landscaping uses, $127.00

ISO/IEC JTC 1 Technical Reports

ISO/IEC TR 16088:2025, Information technology - Computer graphics, image processing and environmental representation - Constructs for visual positioning systems in mixed and augmented reality (MAR), $84.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 19086-1:2016/Amd 1:2025, - Amendment 1: Information technology - Cloud computing - Service level agreement (SLA) framework - Part 1: Overview and concepts - Amendment 1, $23.00

ISO/IEC 19086-2:2018/Amd 2:2025, - Amendment 2: Cloud computing - Service level agreement (SLA) framework - Part 2: Metric model - Amendment 2, $23.00

ISO/IEC 19086-3:2017/Amd 1:2025, - Amendment 1: Information technology - Cloud computing - Service level agreement (SLA) framework - Part 3: Core conformance requirements - Amendment 1, $23.00

ISO/IEC 23009-8:2025, Information technology - Dynamic adaptive streaming over HTTP (DASH) - Part 8: Session-based DASH operations, $127.00

ISO/IEC 15444-16:2025, Information technology - JPEG 2000 image coding system - Part 16: Enhanced encapsulation of JPEG 2000 images into ISO/IEC 14496-12, $84.00

Accreditation Announcements (U.S. TAGs to ISO)

Public Review of Application for Accreditation of a U.S. TAG to ISO

TC 82/SC 7, Sustainable mining and mine closure

Comment Deadline: September 8, 2025

The American National Standards Institute has submitted an Application for Accreditation for a new proposed U.S. Technical Advisory Group (TAG) to ISO TC 82/SC 7, Sustainable mining and mine closure, and a request for approval as TAG Administrator. The proposed TAG intends to operate using the Model Operating Procedures for U.S. Technical Advisory Groups to ANSI for ISO Activities as contained in Annex A of the ANSI International Procedures.

To obtain a copy of the TAG application or to offer comments, please contact: Jason Knopes, Sr. Program Manager, ISO Outreach and Enhanced Services, ANSI, 1180 Avenue of the Americas, 10th Floor, New York, NY 10036; ph. 212.642.4886; email: jknopes@ansi.org. Please submit any comments to ANSI by September 8, 2025 (please copy (jthompso@ANSI.org)

International Organization for Standardization (ISO)

Call for International (ISO) Secretariat

ISO/TC 8/SC 2 – Marine environment protection

Reply Deadline: August 22, 2025

Currently, the U.S. holds a leadership position as Secretariat of ISO/TC 8/SC 2 – *Marine environment protection*. ANSI has delegated the responsibility for the administration of the Secretariat for ISO/TC 8/SC 2 to the U.S. DOT Maritime Administration (MARAD). MARAD has advised ANSI of its intent to relinquish its role as delegated Secretariat for this committee.

ISO/TC 8/SC 2 operates under the following scope:

Standardization of marine pollution abatement materials, equipment and technologies and environmental matters to be used in shipbuilding and operation of ships, comprising sea-going ships, vessels for inland navigation, offshore structures, ship-to-shore interface and all other marine structures subject to International Maritime Organization (IMO) requirements.

ANSI is seeking organizations in the U.S. that may be interested in assuming the role of delegated Secretariat for ISO/TC 8/SC 2. Alternatively, ANSI may be assigned the responsibility for administering an ISO Secretariat. Any request that ANSI accept the direct administration of an ISO Secretariat shall demonstrate that:

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

If no U.S. organization steps forward to assume the ISO/TC 8/SC 2 Secretariat, or if there is insufficient support for ANSI to assume direct administration of this activity **by Friday, August 22, 2025**, then ANSI will inform the ISO Central Secretariat that the U.S. will relinquish its leadership of the committee. This will allow ISO to solicit offers from other countries interested in assuming the Secretariat role.

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

International Organization for Standardization (ISO)

New Secretariats

ISO/TC 8/SC 25 – Maritime GHG reduction

Comment Deadline: August 8, 2025

Trident Maritime Systems, Inc. (TMS) has requested ANSI to delegate the responsibilities of the administration of the ISO/TC 8/SC 25 secretariat to Trident Maritime Systems, Inc. The secretariat was previously held by the U.S. Coast Guard (USCG) and the secretariat transfer is supported by the U.S. TAG.

ISO/TC 8/SC 25 operates under the following scope:

Standardization of ship GHG assessment and documentation procedures; bunkering and/or charging operations associated, and on-dock power generation.

Organizations wishing to comment on the delegation of the responsibilities should contact ANSI's ISO Team (isot@ansi.org).

Registration of Organization Names in the United States

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

Public Review

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

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

Proposed Foreign Government Regulations

Call for Comment

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

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

BSR/ASHRAE Addendum b
to ANSI/ASHRAE Standard 15-2024

Second Public Review Draft

Proposed Addendum b to Standard 15-2024, Safety Standard for Refrigeration Systems

Second Public Review (July 2025)
(Draft shows Proposed Changes to Current Standard)

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

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

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

(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

The model building codes were revised in the 1980s to remove the mandatory requirement for a pipe shaft. A pipe shaft was still permitted as an option, however, the building codes focused on the piping penetrations. At that time Standard 15 chose to not revise similar language and has been out of harmonization ever since. This was partially corrected by Addendum a to Standard 15-2024. However, the committee felt this was patchwork and a more holistic approach was required.

The proposed change will update ASHRAE Standard 15-2024 to be consistent with the model building codes where the primary requirement will be protection for all refrigerant pipe penetrations. The addendum moves language from Section 9.12.3 to Section 9.12.1.5 and lists it first as the primary protection means. Use of pipe shafts remains a design option. The proposed language further clarifies shaft ventilation requirements to mitigate flammability hazards.

Note: 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 b to Standard 15-2024

Modify Section 9 as follows. The remainder of Section 9 remains unchanged.

9. DESIGN AND CONSTRUCTION OF REFRIGERATION EQUIPMENT AND SYSTEMS

[…]

9.12 Refrigerant Pipe Installation

9.12.1 Piping Location. […]

[…]

~~9.12.3~~ 9.12.1.5 Refrigerant Pipe Penetrations. ~~In other than *industrial occupancies*, the~~ The annular space between the outside of a *refrigerant* pipe and the inside of a pipe sleeve or opening in a building envelope, wall, floor, or ceiling assembly penetrated by a *refrigerant* pipe *shall* be sealed in an *approved* manner with caulking material, foam sealant, or closed with a gasketing system. The caulking material, foam sealant, or gasketing system *shall* be designed for the conditions at the penetration location and *shall* be compatible with the pipe, sleeve, and building materials in contact with the sealing materials. *Refrigerant* pipes penetrating required *fire-resistance-rated* assemblies or membranes of *fire-resistance-rated* assemblies *shall* be sealed or closed in accordance with the *building code*.

~~9.12.1.5~~ 9.12.1.5.1 Refrigerant Pipe Shafts. *Refrigerant piping* that penetrates ~~two or more~~ multiple floor/ceiling assemblies *shall* be permitted to be enclosed in a *fire-resistance-rated* shaft enclosure. The *fire-resistance-rated* shaft enclosure *shall* comply with the requirements of the *building code*. Other building utilities or *piping* systems *shall* be allowed in the *refrigerant piping* shaft.

*{**Note to reviewer:** This proposed addendum supersedes prior revisions to Section 9.12.1.5.1 of Standard 15-2024 as made by Addendum a.}*

~~**9.12.1.5.1 Shaft Alternative.** A shaft enclosure *shall not* be required for the *refrigerant piping* for any of the following *refrigeration systems*:~~

~~a. Systems using R-718 (water) *refrigerant*~~

~~b. *Piping* in a *high-probability system* where the *refrigerant* concentration does not exceed the amounts shown in ASHRAE Standard 34,[3] Table 4-1 or 4-2, for the smallest *occupied space* through which the *piping* passes~~

~~c. *Piping* located on the exterior of the building where vented to the outdoors~~

~~d. Continuous *refrigerant* pipe or tube, including joints and connections, that have been tested in accordance with Section 9.13.~~

[…]

9.12.2 Installation Requirements for Flammable Refrigerants. […]

[…]

9.12.2.2 Shaft Ventilation. *Refrigerant* pipe installed within a *fire-resistance-rated* shaft~~s~~ enclosure with *refrigeration systems* using only Group A2L or B2L *refrigerants shall* be naturally or mechanically ventilated. *Refrigerant* pipe installed within a *fire-resistance-rated* shaft~~s~~ enclosure with one or more *refrigeration systems* using any Group A2, A3, B2, or B3 *refrigerant shall* be continuously mechanically ventilated and *shall* include a *refrigerant detector*. The shaft ventilation exhaust outlet *shall* comply with the discharge location requirement *specified* in Section 9.7.8.2.

a. Naturally ventilated shafts *shall* have a minimum of a 4.0 in. (102 mm) diameter pipe, *duct*, or conduit that connects at the lowest point of the shaft and connects to the outdoors. The pipe, *duct*, or conduit *shall* be level or pitched down to the outdoors. A *makeup air* opening *shall* be provided at the top of the shaft.

b. When active, mechanically ventilated shafts *shall* have a minimum air velocity in accordance with Table 9-12. *Makeup air shall* be provided at the inlet to the shaft for mechanically ventilated shafts. The mechanical ventilation *shall* either be continuously operated or, for pipe shafts containing only *refrigeration systems* using Group A2L or B2L *refrigerants*, activated by a *refrigerant detector*. *Refrigerant* pipe shafts utilizing a *refrigerant detector shall* have a set point not exceeding the *occupational exposure limit* (*OEL*) of the *refrigerant*. The detector, or a sampling tube that draws air to the detector, *shall* be located in an area where *refrigerant* from a leak will concentrate.

c. The shaft *shall not* be required to be ventilated for double-wall *refrigerant* pipe where the interstitial space of the double-wall pipe is vented to the outdoors in accordance with the discharge location requirements *specified* in Section 9.7.8.2.

d. The shaft *shall not* be required to be ventilated where all the *refrigerant* pipe or tube is continuous and has been tested in accordance with Section 9.13.

e. The shaft *shall not* be required to be ventilated for systems using only Group A2L or B2L *refrigerants* where there are no hot surfaces exceeding 1290° F (700° C) in the shaft and the pipes, tubes, joints, or connections have been tested in accordance with Section 9.13.

~~9.12.4~~ 9.12.3 Stress and Strain. […]

[…]

~~9.12.5~~ 9.12.4 Stop Valves. […]

[…]

~~9.12.5.1~~ 9.12.4.1 Refrigeration Systems Containing More than 6.6 lb (3.0 kg) of Refrigerant. […]

[…]

~~9.12.5.2~~ 9.12.4.2 Refrigeration Systems Containing More than 110 lb (50 kg) of Refrigerant. […]

[…]

~~9.12.5.3~~ 9.12.4.3 Identification. […]

BSR/ASHRAE Addendum b
to ANSI/ASHRAE Standard 90.4-2022

Second Public Review Draft

Proposed Addendum b to Standard 90.4-2022, *Energy Standard for Data Centers*

Second Public Review (July, 2025)
(Draft Shows Proposed Changes to Current Standard)

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

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE website, www.ashrae.org.
The appearance of any technical data or editorial material in this public review document does not constitute endorsement, warranty, or guaranty by ASHRAE of any product, service, process, procedure, or design, and ASHRAE expressly disclaims such.

ASHRAE, 180 Technology Pkwy NW, Peachtree Corners, GA 30092

BSR/ASHRAE Addendum b to ANSI/ASHRAE Standard 90.4-2019, *Energy Standard for Data Centers* Second Public Review Draft. Independent Substantive Changes.

(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

The second publication public review draft fixes clerical errors in the definitions and normative text which were originally omitted during the first publication public review. Changes to the requirements are for clarification and a comprehensive review of the 90.4-2022 standard. Definitions and sections were no changes were made were omitted from the ISC, however the first publication public review draft is available for comparison. This ISC also makes changes to Section 6.6.2.1 which was previously updated by Published Addendum g to 90.4-2022.

The UPS Segment of the ELC calculation requires knowing three different load numbers. While those numbers have always been described in the Informative Appendix examples, they have not been clearly delineated in definitions, leading to confusion in the use of undefined terms. This Addendum b adds a definition for "UPS redundant capacity" to clarify the fact that UPS efficiency must be based on the total available capacity of the UPS, including its redundant capacity, even though that additional capacity is not intended to be used under normal operating conditions.

Terminology throughout Section 8 "Electrical", as well as in the Informative Appendices, has also been updated to correspond with the revised definitions terminology.

[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. Highlighted changes shown where the previous public review draft made a previous change. 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 b to 90.4-2022, PPR 2 ISC

Modify the following definitions to Section 3.

data center ITE design power: the combined power in *kilowatts* of all the *ITE* loads for which the *ITE system* was designed. The *data center ITE design power* ~~shall~~ does not include any additional loads. See *UPS operational design load*., ~~such as *cabinet fans* or other devices that are not inherent parts of the *ITE*., even if the loads are part of the *UPS operational design load*.~~

design electrical loss component (design ELC): the *design electrical loss component* for the *data center* or *data center addition* ~~shall be~~ are the combined *losses* (or the *losses* calculated from *efficiencies*) of two segments of the electrical chain: *UPS segment* and *ITE distribution segment*. ~~The *design ELC* shall be calculated using the highest *loss* (lowest efficiency) parts of each segment of the power chain in order to demonstrate a minimum level of electrically efficient design. The *design ELC* does not, and is not intended to, integrate all electrical *losses* in the facility.~~

incoming electrical service ~~segment~~: the *incoming electrical service ~~segment~~* ~~shall include~~ includes all elements of the electrical *power chain* ~~power chain~~ prior to the *UPS segment*, beginning with the load side of the *incoming electrical service point* supplying the *building*, continuing through all other intervening *transformers*, wiring, and switchgear, and ending at the *manufacturer*-provided input *terminals* of the *UPS* or its equivalent location in the *power chain* ~~circuit~~.

redundancy (redundant): deliberate duplication of components, *equipment*, controls, or *systems* and their interconnections to enable continued operation ~~at needed functional capacities~~ during the failure ~~and after the *loss*~~ of ~~the~~ primary components, *equipment*, controls, or *systems* due to failure, maintenance, servicing, or other modification activities.

N: base number of capacity components needed to provide design *system* functional capacity.

N+1, N+2, etc.: single *system redundancy* having one or more additional capacity components.

2N, 2N+1 or 2(N+1), etc.: dual *system redundancy* having one or more additional capacity components.

incoming electrical service point (service point): the point of connection between the ~~facilities of the~~ serving utility wiring and the premises wiring, also known as the point of demarcation between where the serving utility wiring ends and the premises wiring begins, as defined by the *National Electrical Code*® (NFPA 70).

Informative Note: Any power generation source, e.g. microgrids, can be considered the serving utility to the data center.

~~***service point:*** the point of connection between the facilities of the serving utility and the premises wiring. The *service point* can be described as the point of demarcation between where the serving utility ends and the premises continuation begins. The serving utility generally specifies the location of the *service point* based on the conditions of *service*.~~

terminal: a device by which *energy* from a *system* is finally delivered (e.g., UPS, transformers, receptacles ~~registers, diffusers, lighting fixtures, faucets~~) terminating prior to the interface with the *ITE* or *ITE enclosure*. For devices used for other purposes or in other *systems*, the definition of *terminal* in ANSI/ASHRAE/IES Standard 90.1 applies (see Annex 1).

UPS economy mode: a mode of *UPS* operation in which power is ~~normally~~ fed to the load without going through power conversions ~~within the *UPS* for the purpose of reducing~~ in order to reduce *loss* during normal operation. ~~so as to save *energy*. Circuitry is incorporated to rapidly switch the load to the rectifier/battery/inverter in the event of a power failure or voltage drop below a preset threshold. Economy mode is normally a configurable option that can be used or overridden at user discretion.~~

UPS operational design load: the load in *kilowatts* at which the *UPS* is intended to operate by design that includes ~~. This will be~~ the *data center ITE design power* plus any other loads, such as *cabinet* door fans or refrigerant pumps, that will be connected to the *UPS*. The *UPS operational design load* is typically less than the *UPS rated capacity*.

UPS rated capacity: the maximum load in *kilowatts* or *kilovolt-amperes* at which an individual *UPS* is designed and specified by the *manufacturer* to operate on a continuous basis under specified ~~environmental~~ conditions. *UPS rated capacity* does not include the capacity of any *redundant UPS* components or *systems*.

UPS redundant capacity: the *UPS rated capacity* plus the capacities of *redundant* online modules. For non-*redundant UPS systems*, this will be the same as the *UPS rated capacity*.

UPS segment: ~~the *UPS segment* of the *design ELC* shall include the *manufacturer* provided *UPS system*~~ segment from the input *terminals* to the output *terminals* of the *manufacturer*-provided *UPS system,* including all *transformers*, switchgear, rectifiers, inverters, rotary propulsion units, and wiring ~~provided by the *manufacturer*~~ between those two points. ~~Transformers and switchgear provided by the *UPS manufacturer* but housed in different *cabinets* from the actual *UPS* capacity components shall be considered parts of the *UPS segment* along with associated wiring. *Transformers* and switchgear functioning as parts of the *UPS* but installed separately and not provided by the *UPS manufacturer* (such as custom-configured bypass) shall not be considered part of the *UPS segment*. All such associated components shall be included with the *incoming electrical service segment* and/or the *ITE distribution segment* in accordance with their specific design logic.~~

Core and shell buildout: site work, walls, floor slabs and roof structure including utilities necessary to obtain a Certificate of Occupancy. Infrastructure such as raised access floors, communications ducts, header piping or primary switchboards

may be installed, but no power or *HVAC systems* specific to *data center* usage are included.

Full buildout: design for the complete *data center* facility based on total *UPS Operational Design Load* and as permitted and constructed in-full as a single project.

Scaled buildout: design is for the complete facility (as if for a *full buildout*), based on total *UPS Operational Design Load* where the *ITE cabinets* and associated power and *HVAC systems* are initially installed for only a portion of the facility, with the remainder of the facility left to be built-out as future phases. Each intended phase is delineated on design documents.

Modular buildout: design, permitting, and construction are "Per Module", based on the *UPS Operational Design Load* for each module. Each Module is delineated by demising walls.

Modify the language in Section 4.2.1.3 and the Exceptions to 4.2.1.3 as follows:

4.2.1.3 Alterations to Existing Buildings. *Alterations* of existing *data center spaces* shall comply with the provisions of Sections 5, 7, 9, and 10 and with either Sections 6 and 8 or Section 11, provided such compliance will not result in the increase of *energy* consumption of the *building*.

Component or *system* replacements or modifications that result in changes in either capacity or type of technology require compliance with the applicable sections and versions of this standard in accordance with Chart 1 (see Informative Appendix C).

Alterations of other *spaces* shall comply with ANSI/ASHRAE/IES Standard 90.1, Section 4.2.1.3.

Exceptions to 4.2.1.3:

1. ITE adds, moves, and changes ~~*ITE adds, moves and changes*~~ are excluded.

Informative Note: ITE adds, moves, and changes are the normal and somewhat perpetual additions, moves, and changes to ITE.

…

Add new Section 4.2.1.4 as follows:

4.2.1.4 Applicable Editions of Standard for Various Forms of Design and Buildout

4.2.1.4.1 Core and shell buildouts. Design and construction of *core and shell buildouts* shall be in accordance with the most recent applicable version of Standard 90.1. Compliance with Standard 90.4 is required when *data center* power and *HVAC systems equipment* are designed and permitted for installation in the *space* and shall be in accordance with the applicable form of design and buildout in Section 4.2.1.4.2 - 4.2.1.4.4.

4.2.1.4.2 Full buildout. Design and construction of *full buildouts* shall comply with the most recent applicable version of this Standard.

4.2.1.4.3 Scaled buildout. Design and construction of *scaled buildouts* shall comply in accordance with the most recent applicable version of this standard at the time of design and permitting, with the following requirements:

a) Permitting shall be based on the *full buildout* design.

b) Facility remains in compliance with the Standard if all stages of the buildout adhere to the original design and permit.

c) Initial stage of the *scaled buildout*, and each subsequent stage, shall comply with the latest applicable version of this Standard at the time each stage is designed and permitted.

d) If deviations from the original power or *HVAC systems* designs occur in any stage of the remaining buildout, they shall be considered *additions*, require new permitting, and comply with the latest applicable version of this Standard.

Exception to 4.2.1.4.3: If power or *HVAC system* deviations are newer models of the originally specified *equipment* and meet or exceed the energy efficiencies of those systems, they are considered compliant with the original design. (See Exception 2 to Section 6.1.1.3.1 and 8.1.1.3.1, respectively.)

4.2.1.4.4 Modular buildout: *Modular buildout* and each subsequent *modular buildout* shall comply with the latest applicable version of this Standard at the time each module is designed and permitted.

Informative Note: More information on buildout types are found in Informative Appendix C.

Modify the language in Section 6.6.2.1as follows:
Note to reviewer: highlighted language was added by Published Addendum g to Standard 90.4-2022.

6.6.2.1 Drawings. *Construction documents* shall require ~~that~~, within 90 days after the date of *system* acceptance, *record drawings* of the actual installation be provided to the *building* owner or the designated representative of the *building* owner. *Record drawings* shall include, as a minimum, the location and performance data on each piece of *equipment*; general configuration of the duct and pipe *distribution system*, including sizes; and the ~~*terminal*~~ air or water design flow rates. Plans shall show the location of *equipment* to be installed and locations for all deferred *equipment*. Plans shall ~~D~~describe the amount ~~amounts~~ of mechanical & electrical *equipment* assumed (in each part-load MLC calculation) to be installed and operating during the 25%, 50%, 75% and 100% *ITE* power level in the associated MLC compliance calculation.

Modify the language in Section 8.4.1 as follows:

8.4.1 **Electrical Distribution Systems for Mechanical Loads.** The electrical *distribution systems* serving…

8.4.1.2 Minimum Efficiency or Maximum Loss. The *design ELC* calculations shall use the minimum operating *efficiency* or maximum operating *loss* of each segment of the *power chain* ~~component~~ unless a specific mode of operation (with higher *efficiency* or lower *loss*) is designated on the approved design documents.

Informative Note: The *design ELC* does not, and is not intended to, integrate all electrical *losses* in the facility.

…

8.4.1.4 Incoming Electrical Service ~~Segment~~. The *incoming electrical service* ~~*segment*~~ is not part of the *design ELC* ~~ELC~~ calculation. However, all ~~components~~ *transformers* in the incoming *power chain* ~~power chain~~ shall meet or exceed published U.S. DOE minimum *efficiencies* for *transformers* or the equivalent international standards, and shall comply with all related applicable codes. ~~U.S. National Electrical Code® (NFPA 70) maximum losses for service conductors or the equivalent international electrical codes.~~

~~**Exception to 8.4.1.4:** Emergency or stand-by power *systems* are not considered a part of the *incoming electrical service segment*, with the exception of individual elements such as associated transfer switches, transformers, or other devices that are also included between the *design ELC demarcation* and the *UPS*. Diesel rotary *UPS* (DRUPS) *systems* shall be calculated as part of the *UPS segment* with the engine element decoupled.~~

8.4.1.5 UPS Segment Efficiency.

Efficiency and resulting *loss* through the *UPS segment* shall be calculated at both full and partial loads as follows:

a. *UPS* configuration *losses* shall be based on the *manufacturer*'s stated *efficiencies* at 100%, 75%, 50%, and 25% of the *operational design load* at *efficiencies* based on the *UPS redundant capacity* ~~*UPS operational design load*~~.

b. For *2N*, *2N+1*, *2(N+1)* or other dual-feed *UPS* configurations where *UPS systems* are identical, only one of the *systems* shall be used in the calculation. Where *UPS systems* are not identical, both *systems* shall be calculated, and the *system* with the lowest *efficiency* shall be used to compute the *UPS segment* of the *design ELC*.

c. Where a *UPS* has more than one mode of operation (e.g., normal and *UPS economy modes*), the mode used in these calculations shall be the same as the mode used as the Basis of Design and so designated on the approved *construction documents*.

d. Where nonrated *UPS systems* are used, the *efficiencies* and *losses* shall be as published or provided in writing by the *manufacturer*.

e. Diesel rotary *UPS* (DRUPS) *systems* shall be calculated as part of the *UPS segment* with the engine element decoupled.

8.4.1.6 ITE Distribution Segment Efficiency. Where significant numbers of power paths exist between the *UPS* and the many *equipment cabinets*, the *ITE distribution segment efficiency* shall be that with the lowest path *efficiency*. This shall be the longest path with the largest numbers of *loss* producing components, such as *transformers*, switchgear, and/or panelboards. Calculations are required to determine the path with the greatest *loss* or lowest *efficiency*, which shall be used in developing the total *design ELC*.

Informative Note: The *ITE distribution segment* does not include the actual *ITE*, its power cords, or any accessory part of the *ITE*. In cases where power is to be permanently installed or hardwired into self-contained, *manufacturer* configured *cabinets*, the calculation path terminates at the power input *terminals* provided by the *manufacturer* within that *equipment*. The *ITE distribution segment* used to calculate the *design ELC* is the highest *loss* (lowest *efficiency*) path. This is normally the longest path that also contains devices producing a *loss* (e.g. *transformers*).

BSR/ASHRAE/ASHE Addendum x
to ANSI/ASHRAE/ASHE Standard 170-2021

Public Review Draft

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

First Public Review (July 2025)
(Draft shows Proposed Changes to Current Standard)

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

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

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

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

FOREWORD

Proposed Addendum x adds a requirement that if a design for emergency conditions includes a plan for infectious aerosols, then it must follow ASHRAE Standard 241, Control of Infectious Aerosols.

[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 x to 170-2021

Revise Section 5.7 as shown below. Section 5.7 and Informative Appendix E were added by Addendum q to Standard 170-2022. Published addenda are available for free on the ASHRAE website at https://www.ashrae.org/technical-resources/standards-and-guidelines/standards-addenda.

5.7 Emergency Conditions. HVAC system design and arrangement shall address the applicable recommendations contained in the facility's operational and emergency plan. When the owner's project requirements include a plan for an Infection Risk Management Mode, the design shall follow ASHRAE Standard 241 Control of Infectious Aerosols.

Informative Note: Refer to Informative Appendix E for other design guidance and considerations.

Add a new reference to Section 11 as shown below.

11. NORMATIVE REFERENCES

ASHRAE. 2023. ASHRAE Standard 241, *Control of Infectious Aerosols*. Atlanta: ASHRAE.

BSR/ASHRAE/IES Addendum c
to ANSI/ASHRAE/IES Standard 90.2-2024

Public Review Draft

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

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

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

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FOREWORD

This proposal removes redundant and incompatible requirements for common area parking lots, garages, and stairwells. Plus is provides some editorial changes for clarity – removing the term public area. And adds a new section for lighting power requirements in common areas.

[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 c to 90.2-2024

Modify the standard as follows (IP and SI Units)

7.5.4 Common ~~and Public~~ Areas

7.5.4.1 ~~Public and~~ Common Areas of Multifamily ~~Residential~~ Buildings. In ~~public and~~ *common areas* of *multifamily ~~residential~~ buildings*, the lighting shall meet the requirements of Section 7.5.4.1.1 and 7.5.4.1.2.

7.5.4.1.1 Lighting Controls

~~**7.5.4.2 Parking Garages and Parking Lots**~~

~~a. *Parking garages* shall comply with ANSI/ASHRAE/IES Standard 90.1[10], Section 9.4.1.2 and Table 9.5.1, if using the Building Area Method, or Section 9.4.1.2 and Table 9.5.2.1-1 and 9.5.2.1-2 if using the Space-by-Space Method.~~
~~**Exception to (a):** *Parking garages* serving an individual *dwelling unit*.~~
~~b. *Parking lots* shall comply with ANSI/ASHRAE/IES Standard 90.1, Sections 9.4.1.4 and 9.4.2.~~
~~c. *Parking garages* and *parking lots* shall comply with Section 7.6.7~~

~~**7.5.4.3 Lighting for Common or Public Use Stairwells.** Lighting in *stairwells* shall comply with the *stairwell* section of ANSI/ASHRAE/IES Standard 90.1, Tables 9.5.2.1-1 and 9.5.2.1-2.~~

7.5.4.1.2 Lighting Power. Permanently installed interior lighting power shall be no greater than 0.44 W/ft^2 (4.73 W/m^2) of lighting power for all interior *common areas*. Permanently installed exterior lighting power shall comply with Table 7-6.

Exception to 7.5.4.1.2: *Common areas* of multifamily buildings that comply with the lighting power requirements of section 9.2.2.1 and 9.2.2.2 of ANSI/ASHRAE/IES Standard 90.1.

Table 7-6 Exterior Lighting Power Allowances for Common Areas of Multifamily Buildings (IP)

Exterior Area Type	Exterior Lighting Power Allowance
Base allowance of 200 W which may be used in any exterior area in addition to the *exterior lighting power allowance*	
Façade lighting	0.10 W/ft^2
Roof terraces, special feature areas, walkways, plazas and ramps	0.07 W/ft^2
Landscape	0.036 W/ft^2
Entry doors	14 W/linear ft
Stairs	Exempt
Parking lots and drives	0.037 W/ft^2
All other areas not listed	0.20 W/ft^2

Table 7-6 Exterior Lighting Power Allowances for Common Areas of Multifamily Buildings (SI)

Exterior Area Type	Exterior Lighting Power Allowance
Base allowance of 200 W which may be used in any exterior area in addition to the *exterior lighting power allowance*	
Façade lighting	1.08 W/m^2
Roof terraces, special feature areas, walkways, plazas and ramps	0.75 W/m^2
Landscape	0.39 W/m^2
Entry doors	45.92 W/linear m
Stairs	Exempt
Parking lots and drives	0.40 W/m^2
All other areas not listed	2.15 W/m^2

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

ICC 900 Revisions to Public Review Draft 1

This draft only shows Substantive and Informative Changes

This appendix D is normative and is part of the standard. It provides criteria for the listing and labeling of factory-built subassemblies of components used for solar thermal systems, including those known as pump stations. Separate listing and labeling of these subassemblies, is an option in the standard but is not required.

D.4.10 Drainback tanks. Drainback tanks incorporated into subassemblies shall comply with Section 304.3. Drainback tanks incorporated into pump stations shall have a storage volume not exceeding 15% of the total solar storage volume of the system.

D4.11 Electric heaters. Sheathed electric heating elements installed in subassemblies shall comply with UL 1030. Electric air-water and water-water heat pump units incorporated into subassemblies shall comply with UL 60335-2-40.

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

NSF/ANSI Standard
for Wastewater Technology –

NSF/ANSI 40 - Residential Wastewater Treatment Systems

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8.4 Analytical descriptions

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8.4.2.4 Oily film and foam

Diluted effluent sample aliquots shall be visually evaluated for the presence of an oily film or foaming. The effluent composite samples shall be diluted 1:1,000 with deionized water. During dilution, samples shall be gently stirred and allowed to settle for 15 minutes prior to assessment. Presence of oily film shall be reported. Presence of foam shall be described.

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8.5 Criteria

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8.5.2.3 Color, odor, oily film, and foam

8.5.2.3.1 Color

The color rating of each of the three undiluted composite effluent samples shall be reported. There are no criteria that these values shall meet.

8.5.2.3.2 Odor

The odor rating of each of the three undiluted composite effluent samples shall be reported. There are no criteria that these values shall meet.

8.5.2.3.3 Oily film and foam

~~Oily films and foaming shall not be visually detected in any of the diluted composite effluent samples.~~ Oily films and foaming in each of the diluted composite effluent samples shall be reported. There are no criteria that these values shall meet.

8.5.3 Class II systems

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NSF/ANSI Standard
for Wastewater Technology –

NSF/ANSI 350 Onsite Residential and Commercial Water Reuse Treatment Systems

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8.6 Criteria (applicable to all reuse systems evaluated in accordance with Sections 8.1, 8.2, and 8.3)

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8.6.1.9 When a system does not discharge at least 50% of its rated daily hydraulic capacity for five consecutive days, the system is in malfunction. An assessment shall be conducted to determine the root cause for the discharge failure. Manufacturers shall be given the choice to follow one of the options in Section 8.6.1.3.

Table 8.1
Summary of effluent criteria for individual classifications

Measure	Class R		Class C	
	Test average	Single sample maximum	Test average	Single sample maximum
$CBOD_5$ (mg/L)	10	25	10	25
TSS (mg/L)	10	30	10	30
turbidity (NTU)	5	10	2	5
E. coli [a] (MPN/100 mL)	14	240	2.2	200
pH (SU)	6.0 to 9.0	NA	6.0 to 9.0	NA
storage vessel disinfection (mg/L) [b]	≥ 0.5 to ≤ 2.5	NA	≥ 0.5 to ≤ 2.5	NA
color	MR	NA	MR	NA
odor	MR	NA	MR	NA
oily film and foam	~~Nondetectable~~ MR	~~Nondetectable~~ NA	~~Nondetectable~~ MR	~~Nondetectable~~ NA

energy consumption	MR	NA	MR	NA

NOTE — NA: Not applicable. MR: Measured and reported only; there is no criteria requirement for these values.

[a] Calculated as geometric mean.

[b] If chlorine disinfection is used with a storage vessel, see Section **Error! Reference source not found.** or **Error! Reference source not found.**.

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8.6.2.7 Color

The color rating of each of the three diluted composite effluent samples shall be reported. There are no criteria that these values shall meet.

8.6.2.8 Odor

The odor rating of each of the three undiluted composite effluent samples shall be reported. There are no criteria that these values shall meet.

8.6.2.9 Oily film and foam

~~Oily films and foaming shall not be visually detected in any of the diluted composite effluent samples.~~ Oily films and foaming in each of the diluted composite effluent samples shall be reported. There are no criteria that these values shall meet.

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8.6.3.7 Color

The color rating of each of the three diluted composite effluent samples shall be reported. There are no criteria that these values shall meet.

8.6.3.8 Odor

The odor rating of each of the three undiluted composite effluent samples shall be reported. There are no criteria that these values shall meet.

8.6.3.9 Oily film and foam

~~Oily films and foaming shall not be visually detected in any of the diluted composite effluent samples.~~ Oily films and foaming in each of the diluted composite effluent samples shall be reported. There are no criteria that these values shall meet.

8.6.3.10 Energy consumption

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Rationale: Revise the oily film and foam test criteria per the 2025 WWT JC meeting, to align with similar test requirements in the standard in the absence of a standard method for measuring oily film and foam.

BSR/UL 499 Standard for Safety for Electric Heating Appliances

1. Marking for Outdoor/Wet Rating

PROPOSAL

MARKINGS

53 Details

53.52 A product that is intended for use outdoors shall be marked "Suitable for outdoor use".

53.53 A product that is intended for use in a wet environment and that is subjected to testing in 37.4-37.6 as specified in 37.3, shall be marked "Suitable for wet locations".

Exception: This marking is not required for products intended for outdoor use and marked per 53.52.

BSR/UL 962A, Standard for Safety for Furniture Power Distribution Units

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1. Addition to Class 2 Marking Requirements

PROPOSAL

53.5 A FPDU shall be marked with:

a) The manufacturer's name, trade name, trademark, or other descriptive marking by which the organization responsible for the product is identified;

b) The distinctive catalog number or equivalent;

c) The FPDU electrical rating in volts, amperes, and frequency; ~~and~~

d) The date or other dating period of manufacture not exceeding any three consecutive months. Abbreviation of the date of manufacture complies with the intent of this requirement~~.~~; and

e) The voltage range and maximum amperes deliverable at each voltage for each output Class 2 connector and the maximum total wattage available from all the output Class 2 connectors.

Exception: The date of manufacture that appears in a nationally-accepted conventional code or in a code affirmed by the manufacturer complies with the intent of this requirement when the code does not repeat in less than 10 years and does not require reference to the production records of the manufacturer to determine when the product was manufactured.

53.25 The output Class 2 connectors shall be marked with one of the following as identified in (a) – ~~(c)~~ (d). The markings identified in (a) – ~~(c)~~ (d) shall be permanently marked and visible after installation of the FPDU enclosure or cover:

a) "Class 2" and electrical rating;

b) "Class 2"; ~~or~~

c) Electrical rating~~.~~; or

d) The following power/charging symbol and/or any such charging symbol as approved by the USB Consortium.

The output electrical rating may be expressed in amperes and voltage, or wattage or in volt-ampere.

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2. Detachable Power Cords on Primary FPDU

PROPOSAL

D1.6 The requirements of this Annex also address separable interconnecting cords and both detachable and nondetachable power supply cords intended for use only with FPDU enclosures for movable work space tables and customizable in length and in connection for various work space table arrangements.

D2.4 POWER SUPPLY CORD – A length of flexible cord with an attachment plug at one end and individual insulated conductors intended for termination within an FPDU enclosure. It may have additional components such as an integral over current protection device strain relief bushing or individual terminals.

D2.8 PRIMARY FPDU ENCLOSURE – The FPDU enclosure intended for direct connection to the branch circuit receptacle outlet with a non-detachable power supply cord, the resulting assembly containing ~~and which contains~~ the primary supplementary overcurrent protection device which may be either within the attachment plug housing or inline on the cord or within the FPDU housing, or a male interconnection connector for a ~~and the~~ non-detachable power supply cord with a supplementary overcurrent protection device. The primary FPDU enclosure may also be interconnected to subordinate FPDU enclosures.

D4 Use

D4.1 The ~~non-detachable~~ power supply cord and interconnecting cords of an FPDU for movable work space tables shall be protected from pedestrian traffic. The ~~non-detachable~~ power supply cord and interconnecting cords of an FPDU for movable work space tables shall be located and positioned to prevent damage to the flexible cord.

D4.2 The FPDU for movable work space tables may be comprised of:

a) A single FPDU enclosure with one non-detachable power supply cord for direct cord-and-plug connection to a permanently-installed branch circuit receptacle outlet, or

b) A primary FPDU enclosure with one detachable or non-detachable power supply cord for direct cord-and-plug connection to a permanently-installed branch circuit receptacle outlet and one or more subordinate FPDU enclosures supplied by either separable or non-separable interconnecting cords of maximum lengths as specified in this Annex. The interconnection(s) may be arranged as a series, branch, star, or ring.

D4.3 The ~~non-detachable~~ power supply cord of a primary enclosure of a FPDU for movable work space tables is not intended to be connected to any extension cord, relocatable power tap or to any other device or equipment, other than plugged-into a permanently installed branch circuit receptacle outlet.

D5.2 A FPDU for movable work space tables shall be provided with primary supplementary overcurrent protection at the primary FPDU enclosure or in the power supply cord to protect the entire FPDU power circuit.

D9.1.3 A FPDU for movable work space tables shall employ a non-detachable power-supply cord and either a detachable or non-detachable interconnecting cord. The minimum ampere rating of the interconnecting male of a detachable interconnecting cord and interconnecting outlet of an FPDU enclosure for movable work space tables shall be as indicated in Table D5.1. The minimum ampere rating of any interconnecting female of a detachable power cord or interconnecting cord and interconnecting inlet on an FPDU enclosure for movable work space tables shall be as indicated in Table D5.1.

Exception: A detachable power-supply cord may be used if all the following requirements are met:

a) The connection to the primary FPDU enclosure, by interconnecting female connector and male interconnecting inlet, complies with D9.4 and D9.5;

b) The interconnecting male and female mating connectors shall have a latch mechanism that complies with the Latching Test, Section D18;

c) The detachable power cord shall be fitted with a supplementary overcurrent protection device that complies with D10.2; and

d) The FPDU and the user instructions are marked with a warning that only the manufacturer's supplied power cord with an integral supplementary overcurrent protection device should be used.

D9.2 Power-supply cord

D9.2.1 The length of ~~a non-detachable~~ the power-supply cord of a FPDU for movable work space tables – as measured from the outside surface of the primary enclosure of the FPDU to the plane of the face of the attachment plug – shall not exceed 25 ft (7.6 m) nor be less than 1.5 ft (0.46 m).

D9.2.2 The attachment plug of the ~~non-detachable~~ power-supply cord shall be either molded-on or assembled-on to the flexible cord. The attachment plug shall be of a grounding-type, rated either 15- or 20-amperes, 125- or 250-volts and of the NEMA WD6 configuration 5-15P, L5-15P, 6-15P, L6-15P, 5-20P, L5-20P, 6 20P, or L6-20P only.

D9.2.3 The attachment plug of the ~~non-detachable~~ power-supply cord shall comply with the requirements in UL 498 or UL 817. A molded-on or assembled-on attachment plug may be of the hospital grade type complying with either UL 817 or UL 498 Supplement SC respectively, except the FPDU shall be marked in accordance with UL 962A, 53.19.

D10.2 Primary supplementary overcurrent protection

D10.2.1 The primary enclosure or power supply cord of the FPDU for movable work space tables shall be provided with supplementary overcurrent protection to a maximum rating indicated in Table D5.1. The primary supplementary overcurrent protection shall provide protection to the power circuit of the primary enclosure of the FPDU for movable work space tables and to the power circuit of all interconnected subordinate enclosures.

D10.2.2 The supplementary protection device of the primary FPDU enclosure or power supply cord for movable work space tables shall not open during the Temperature Test, Section D14.

Exception: The OCP is not prohibited from being bypassed when nuisance tripping occurs during the Temperature Test. If the OCP is bypassed during the Temperature Test at Temperature Test Load rating, then the Temperature Test needs to be repeated at FPDU rating to confirm that the OCP does not nuisance trip at this level. OCP shall not trip when the FPDU is operated at the FPDU-marked rated current.

D20.8 The instructions of a FPDU for movable work space tables shall include instructions that only the manufacturers detachable power supply cord and interconnection cords must be used and the detachable power supply cord must contain a suitably rated overcurrent protection device.

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3. Revision to the Spill Test

PROPOSAL

D17 Spill Test

D17.1 A FPDU for a movable workspace table shall be subjected to the Spill Test in Section 43. ~~A FPDU for movable work space tables shall be subjected to the test described in this section and, after the testing, shall be subjected to the Dielectric Voltage-Withstand Test, UL 962A, Section 30.~~

~~*Exception: When the FPDU for movable work space tables is provided with a portable GFCI Class A that complies with UL 943 and the GFCI is located at the attachment plug or within 12 in (305 mm) of the attachment plug, compliance with the spill test is not required.*~~

~~D17.2 Class 2 output connectors of receptacles with integral power supplies with Class 2 output connector(s) shall be blocked from liquid ingress during this test. Openings to the FPDU enclosure interior~~

~~portion containing solely Class 2 load circuits shall be blocked from liquid ingress during this test. There shall be no additional blockage of openings to FPDU enclosure interior portions that contain any circuit(s) providing power to Class 2 power supplies.~~

~~D17.3 The FPDU enclosure for movable work space tables shall be mounted as instructed by the manufacturer. Any cover is to be opened to the position that allows the greatest egress of liquid. A cover that is self-closing or tends to close itself is to be allowed to fall to its natural resting position. If more than one receptacle is enclosed by such a self-closing cover, then a single power-supply cord is to be mated with one of the receptacles and the cord is to exit through the wiring channel from behind the cover as instructed.~~

~~D17.4 A 3-in (76.2-mm) diameter container, 4 inches (101.6 mm) in height, is to be filled with 8 fl oz (0.24 L) of saline solution, consisting of 8 g of table salt per liter of distilled water, and placed on a supporting surface immediately adjacent to the receptacle outlets of the FPDU enclosure. The container is then to be tipped over and an effort is to be made to direct the spill toward the area of the assembly that allows the greatest ingress of liquid. The Dielectric Voltage-Withstand Test, UL 962A, Section 30 is to be conducted 1 min after the container is tipped over.~~

BSR/UL 2416, Standard for Safety for Audio/Video, Information and Communication Technology Equipment Cabinet, Enclosure and Rack Systems

1. 508C Withdrawal and Replacement with 61800-5-1

PROPOSAL

Appendix A (Normative)
Standards for Components

Standards under which components of the products covered by this standard are evaluated include the following:

Title of Standard – UL Standard Designation

Adjustable Speed Electrical Power Drive Systems – Part 5-1: Safety Requirements – Electrical, Thermal, and Energy, UL 61800-5-1
Attachment Plugs and Receptacles – UL 498
Audible Signal Appliances – UL 464
…

Positioning Devices – UL 1565
Power Conversion Equipment – UL 508C
Power Units Other Than Class 2 – UL 1012
…