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Project Initiation Notification System (PINS)

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

AAFS (American Academy of Forensic Sciences)

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

New Standard

BSR/ASB BPR 213-202x, Family Engagement Following a Mass Fatality Incident: Victim Information Center Best Practice Recommendations for Medicolegal Death Investigation Authorities (new standard)

Stakeholders: Medicolegal authorities with a responsibility for identifying decedents. Ancillary audiences include law enforcement agencies, crime laboratories, and emergency managers who may support this process

Project Need: This document provides the best practices included in establishing a Victim Information Center as quickly as possible following a disaster incident to offer a location where the medicolegal death investigation authority and law enforcement can collect forensic reference samples and antemortem data. Practitioners are expected to use this document to develop, implement, exercise, and review mass fatality plans and updating existing procedures to optimize forensic data collection.

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

This document provides guidance on establishing a Victim Information Center (VIC) to conduct scientific medicolegal functions. These guidelines also provide medicolegal death investigation authorities a framework for family engagement during a mass fatality incident response to collect forensic reference samples and antemortem data required to identify victims of an incident. This document defines the purpose and objectives of a VIC, when it should be established, how it is managed, and the role of the medicolegal authority.

AIAA (American Institute of Aeronautics and Astronautics)

Nick Tongson <NickT@aiaa.org> | 12700 Sunrise Valley Drive, Suite 200 | Reston, VA 20191-5807 www.aiaa.org

Revision

BSR/AIAA S-102.0.1A-202x, Capability-based mission assurance program – General requirements (revision of ANSI/AIAA S-102.0.1-2019)

Stakeholders: Manufacturers of aircraft, satellites, ground vehicles, sea vehicles, and any other type of equipment and software

Project Need: (a) There are several US military standards that codify the technical best practices described in this standard. (b) This standard allows suppliers to tailor their product safety, reliability, and quality assurance (SR&QA) processes to be commensurate with the product's unit-value/criticality and systems engineering life cycle phase. (c) Users of products developed and produced using this standard will be able to determine the degree of product SR&QA achieved. (d) This project is important for the career development of entry-level engineers who have little or no experience using technical standards. Also, this project aids in establishing collaborative projects across organizations.

Interest Categories: Industry (manufacturers of space and related equipment), Academic, Government (military and other related agencies), General Interest, Users (of the equipment)

This Standard provides the basis for cost-effectively planning and applying SR&QA analyses to products. The resource requirements, planning, and empirical and analytical processes are established. The linkage of this S-102 Standard to a volume set of 2nd tier S-102 Standards facilitates cost-effective integration of SR&QA processes.

APA (APA - The Engineered Wood Association)

Borjen Yeh <borjen.yeh@apawood.org> | 7011 South 19th Street | Tacoma, WA 98466 www.apawood.org

Revision

BSR/APA 117-202x, Standard Specification for Structural Glued Laminated Timber of Softwood Species (revision of ANSI 117-2020)

Stakeholders: Glulam manufacturers, distributors, designers, users, building code regulators, and government agencies

Project Need: Update the existing standard.

Interest Categories: Manufacturer, Supplier, User, and General Interest

This standard provides basic design information, layup combination details, and laminating lumber grading rules for structural glued laminated timber (glulam).

ASABE (American Society of Agricultural and Biological Engineers)

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

New Standard

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

Stakeholders: Biochar manufacturers and users, carbon credit organizations, research institutions, testing laboratories, governments, biochar specification developers, distributors & wholesalers, consultants, industry associations

Project Need: Markets for biochar and biochar carbon removal credits are growing rapidly, however the international standards for biochar analysis currently in use were developed in 2015 by pulling standards from various industries, resulting in poor methodological alignment. As a result, laboratory comparability is poor and only a few labs are capable of providing a full analysis per the published international standards. Other organizations in Europe have also developed standards, however these are largely based on German methods and are managed by a private company. North American markets urgently need an American National standard that defines what biochar is, properties of biochar, and test methods that can be used for the analysis of biochar.

Interest Categories: General Interest, NGO, Research, Producer

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 useable 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.

ASTM (ASTM International)

Laura Klineburger <accreditation@astm.org> | 100 Barr Harbor Drive | West Conshohocken, PA 19428-2959 www.astm.org

New Standard

BSR/ASTM F2098-202x, Specification for Stainless Steel Clamps for Securing SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) to Metal Insert and Plastic Insert Fittings (new standard)

Stakeholders: Fittings Industry

Project Need: All performance tests shall be performed on assemblies of fittings, clamps and PEX tubing.

Interest Categories: Producer, User, General Interest

This specification covers stainless steel clamps for securing SDR9 cross-linked polyethylene (PEX) tubing to metal insert and plastic insert fittings.

CSA (CSA America Standards Inc.)

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

New Standard

BSR/CSA B100-202x, Hydrogen Compressors – Safety (new standard)

Stakeholders: Users, regulators, certification bodies, and manufacturers

Project Need: The development of this standard will support the safe deployment and the use of hydrogen compressors. This new standard will be a conformity assessment including the minimum safety design requirements hydrogen compressors.

Interest Categories: Users, regulators, certification bodies, and manufacturers

This Standard defines the minimum construction and safety requirements for hydrogen compressors. This Standard applies to newly manufactured equipment designed primarily to provide compressed hydrogen gas. Hydrogen compressor types covered by this Standard include, but are not limited to, reciprocating compressors, integrated combustion engines and compressor packages, and hydraulic intensifier compressors. This standard does not apply to: (a) Vehicle Fueling Appliances for vehicular fuel applications (CSA HGV 5.1); or (b) Compressor packages hydrogen dispensing stations (CSA HGV 4.8).

CSA (CSA America Standards Inc.)

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

New Standard

BSR/CSA B101-202x, Hydrogen Gas Dryer – Safety (new standard)

Stakeholders: Users, regulators, certification bodies, and manufacturers

Project Need: The development of this standard will support the safe deployment and the use of hydrogen gas driers. This new standard will be a conformity assessment including the minimum safety design requirements for hydrogen gas driers

Interest Categories: Users, regulators, certification bodies, and manufacturers

This standard defines the minimum construction and safety requirements for a hydrogen gas dryer. This Standard applies to newly manufactured equipment designed primarily to remove water, oil, and particulate matter from a hydrogen gas stream. Hydrogen gas dryer types covered by this Standard include, but are not limited to, molecular sieve, catalysts (such as palladium), refrigerated type, or desiccant type.

CTA (Consumer Technology Association)

Catrina Akers <cakers@cta.tech> | 1919 South Eads Street | Arlington, VA 22202 www.cta.tech

Revision

BSR/CTA 2051-B-202x, Wearable Sound Amplifier Performance Criteria (revision and redesignation of ANSI/CTA 2051-A-2022)

Stakeholders: Consumer, manufacturers, retailers

Project Need: To revise ANSI/CTA 2051-A, Personal Sound Amplification Performance Criteria

Interest Categories: General interest, producer, user

This standard establishes technical performance metrics and associated target values for consumer products which provide personal sound amplification (OTC Hearing Aids).

IAPMO (Z) (International Association of Plumbing & Mechanical Officials)

Terry Burger <standards@iapmostandards.org> | 4755 East Philadelphia Street | Ontario, CA 91761 <https://www.iapmostandards.org>

Revision

BSR/IAPMO Z1001-202x, Prefabricated Gravity Grease Interceptors (revision of ANSI/IAPMO Z1001-2021)

Stakeholders: Manufacturers, Users, Consumers, Regulatory Authorities

Project Need: Revision to update additional requirements.

Interest Categories: Manufacturer, User, Installer/Maintainer, Research/Standards/Testing Laboratory, Enforcing Authority, Consumer, General Interest

This Standard covers prefabricated gravity grease interceptors made of concrete, fiber reinforced polyester (FRP), thermoplastic, or steel and specifies requirements for design materials, performance, testing, and markings.

IAPMO (Z) (International Association of Plumbing & Mechanical Officials)

Terry Burger <standards@iapmostandards.org> | 4755 East Philadelphia Street | Ontario, CA 91761 <https://www.iapmostandards.org>

New Standard

BSR/IAPMO Z1406-202x, Onsite Water Reuse System (new standard)

Stakeholders: Plumbing engineers, plumbing and construction contractors, regulatory authorities, plumbers, pipefitters

Project Need: This standard intends to encompass only the water reuse requirements currently addressed in other IAPMO ANSI standards such as Water Efficiency and Sanitation standards and the Uniform Plumbing Code. This standard will reference the appropriate product standards, such as NSF/ANSI 350 and IAPMO/ANSI Z1324.

Interest Categories: Manufacturer, User, Installer/Maintainer, Research/Standards/Testing Laboratory, Enforcing Authority Consumer, General Interest

This standard covers onsite water reuse systems which includes potable and non-potable water to be reused based on the intended application. Water reuse includes, but not limited to, grey water, blackwater, rainwater, stormwater, and condensate water.

NECA (National Electrical Contractors Association)

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

New Standard

BSR/NECA 726-202X, Standard for Installing and Maintaining Class 4 Fault-Managed Power (FMP) Systems (new standard)

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

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

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

This Standard describes the procedures for installing and maintaining Class 4 Fault-Managed Power (FMP) systems rated 450 VDC and less, and 450 VAC peak and less, for commercial and industrial applications.

NOTE: Class 4 FMP systems are not permitted in residential applications.

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

New Standard

BSR C12.2-202x, Standard Dictionary of Common Definitions, Terminology and Acronyms used by C12 Standards (new standard)

Stakeholders: Meter manufacturers, electrical utilities, Meter mounting manufacturers and meter testing agencies

Project Need: Provide a collation of all defined definitions, terms and acronyms found in the ANSI C12 Standards.

Interest Categories: Users, Producers, and General Interest.

These definitions can be used as a dictionary by users of the ANSI C12 Standards and as the default reference for undefined terms that are found in the C12 Standards. The Standard also identifies the referenced standard where each of the terms are found. The use of these definitions, terminology and acronyms in other ANSI C12 Standards and Technical-reports sentence construction aims to assist authors by providing references to definitions that are clear, precise, consistent, and unambiguous in their meaning and application.

SCTE (Society of Cable Telecommunications Engineers)

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

New Standard

BSR/SCTE 292 202x-202x, Broadband Component QR Code - Technical Requirements (new standard)

Stakeholders: Cable Telecommunications Industry

Project Need: Create new standard

Interest Categories: Producer, User, General Interest

The purpose of this document is to provide the cable operator ecosystem with the necessary information to deliver standardized information about Network components and modules for use by cable operators. This document focuses on providing direction on two key mechanisms for the delivery of standardized information: (1) the development of consistent and useful physical labels that include serialization and QR codes and (2) the development and delivery of detailed component manufacturing information as part of advanced shipping notices.

SCTE (Society of Cable Telecommunications Engineers)

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

New Standard

BSR/SCTE NOS 215-202x, LoRaWAN® Narrowband Transponder (new standard)

Stakeholders: Cable Telecommunications Industry

Project Need: Create new standard

Interest Categories: Producer, User, General Interest

This standard describes a narrowband transponder for broadband CATV amplifiers that uses a Frequency Shift Keying (FSK) physical (PHY) layer and a LoRaWAN media access control (MAC) layer.

TIA (Telecommunications Industry Association)

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

National Adoption

BSR/TIA 455-204-B-202x, FOTP-204: Adoption of IEC 60793-1-41:2024: Optical Fibres - Part 1:41: Measurement methods and test procedures - Bandwidth (identical national adoption of IEC 60793-1-41:2024)

Stakeholders: Telecom, optical fiber manufacturers, optical cable manufactures, developers, users

Project Need: Adopt identical ISO or IEC standard

Interest Categories: User, Producer and General Interest

Update ANSI/TIA-455-204-A by adopting IEC 60793-1-41:2024 Optical Fibres - Part 1:41 - Measurement methods and test procedures - Bandwidth.

ULSE (UL Standards & Engagement)

Akhira Watson <akhira.watson@ul.org> | 12 Laboratory Drive | Research Triangle Park, NC <https://ulse.org/>

New Standard

BSR/UL 1400-1-202x, Standard for Safety for Fault-Managed Power Systems (new standard)

Stakeholders: Manufacturers, Authorities Having Jurisdiction, Wireless Industry, and Telephone Industry

Project Need: This is a newer technology that at the time it was brought to market did not have a certification standard. A UL Outline was developed and published in December of 2022. The Outline is currently being revised and will be submitted for Standard status as a Proposed First Edition Standard. This standard fills a gap for this type of equipment.

Interest Categories: General, Producer, Supply Chain, Commercial Industrial User, AHJ, Testing & Standards

The scope covers Fault-Managed Power Systems (FMPS), also referred to in the National Electrical Code, ANSI/NFPA 70 as “Class 4 Power Systems.” These systems are characterized by sophisticated monitoring and control systems that monitor the circuit for faults and control the power transmitted to ensure that the energy delivered into a fault is limited. Class 4 power systems differ from Class 2 and Class 3 systems. Class 4 power systems are not power limited at the source but are power limited with respect to risk of electric shock and fire hazards between the output of the Class 4 Transmitter and input of the Class 4 Receiver.

ULSE (UL Standards & Engagement)

Sabrina Khrebtov <sabrina.khrebtov@ul.org> | 100 Queen Street, Suite 1040 | Ottawa, ON K1P 1J9 Canada <https://ulse.org/>

New Standard

BSR/UL 1400-2-202x, Standard for Safety for Cables in Fault-Managed Power Systems (new standard)

Stakeholders: Wire and cable manufacturers, component manufacturers, supply chain, testing and standards for wire and cable.

Project Need: The Outline has been published for 2 years and there are references to UL 1400-2 in the National Electrical Code. UL 1400-2 needs to be an ANSI Consensus Standard

Interest Categories: Authorities Having Jurisdiction, Commercial/Industrial Users, General Interest, Producer, Supply Chain, Testing and Standards Organization.

1.1 These requirements cover 60 – 250°C (140 – 482°F) single- and multiple-conductor, jacketed cables for use as fixed wiring within buildings, may be used outdoors and/or for direct burial in Class 4 circuits in fault-managed power systems as described in Article 726 and other applicable parts of the National Electrical Code (NEC). Cables covered by these requirements include CL4P (plenum cables), CL4R (riser cables), and CL4 (general purpose cables) as described in Article 722. These requirements also cover cables designated as CL4Z that are intended for outdoor use only and are not to be attached to, or used within a building structure. Type CL4Z cables comply with the applicable requirements for CL4 except where otherwise specified. 1.2 Cables for Class 4 circuits are rated for 450 Volts peak but are not so marked.

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 1, 2024

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

BSR/ASHRAE Addendum ab to ANSI/ASHRAE Standard 15-2022, Safety Standard for Refrigeration Systems (addenda to ANSI/ASHRAE Standard 15-2022)

The proposed revisions emphasize the existing normative requirements of the standard and provide information in Appendix A as to what types of equipment are generally expected to be in a machinery room and types of equipment and materials that should not be located in a machinery room. In addition, the proposed changes provide further information on the "authorized personnel" requirements for accessing a machinery room by Section 8.9.4.

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

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

Comment Deadline: September 1, 2024

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

BSR/ASHRAE Addendum ac to ANSI/ASHRAE Standard 15-2022, Safety Standard for Refrigeration Systems (addenda to ANSI/ASHRAE Standard 15-2022)

This proposed Addendum ac to ASHRAE Standard 15-2022 updates Section 7.6.2.5(d) to resolve an internal conflict within the standard. Section 7.6.3.3 of the standard states that it is acceptable to use hot surfaces exceeding 1290 °F (700 °C) so long as there is a minimum face velocity of 200 ft/min. The requirement is based on experimental testing that demonstrated the difficulty in igniting refrigerant with sufficient airflow.

Unfortunately, in Section 7.6.2.5(d), the standard requires de-energizing the hot surface even though Section 7.6.3.3 states the installation is acceptable provided that there is sufficient airflow. This is problematic for cold climates where disabling a heating source could present a life safety issue. The solution is to only require disabling devices not complying with Section 7.6.3.3. This is also the solution that was adopted by ASHRAE Standard 15.2-2022 and this change harmonizes the two standards.

[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 | cking@ashrae.org, www.ashrae.org

Addenda

BSR/ASHRAE Addendum g 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)

This addendum makes additions and changes to the standard. These changes are necessary to improve the usage and readability of the standard and make adjustments as required to comply with the new TPS as approved in addendum f.

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

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

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

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

Addenda

BSR/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)

This addendum makes additions and changes to Section 9 and Section 10 of the standard. These changes are necessary to improve the usage and readability of the standard, make adjustments as required to comply with the new TPS as approved in addendum f, to comply with EPA, and to remove information that is no longer relevant.

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

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

Comment Deadline: September 1, 2024

ASME (American Society of Mechanical Engineers)

Two Park Avenue, 6th Floor, New York, NY 10016-5990 | ansibox@asme.org, www.asme.org

Revision

BSR/ASME PASE-202x, Safety Standard for Portable Automotive Service Equipment (revision of ANSI/ASME PASE-2019)

The scope of this Standard is the standardization of safety and performance requirements for portable automotive service equipment (PASE). This Standard includes requirements for safety, health, design, production, construction, maintenance, performance, or operation of electrical, mechanical, hydraulic, or pneumatically powered equipment, and qualification of personnel.

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

Send comments (copy psa@ansi.org) to: Nicole Gomez <gomezn@asme.org>

NENA (National Emergency Number Association)

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

New Standard

BSR/NENA STA-040.2-202x, NENA Security for Next Generation 9-1-1 Standard (NG-SEC) (new standard)

The document will highlight a framework to assist 9-1-1 authorities in developing a robust cybersecurity plan and is expected to help build and strengthen cybersecurity programs by focusing on NG9-1-1 security through policy management, security and risk management and operations, data security and operations. It will identify the basic requirements, standards, procedures, or practices to provide the minimum levels of security applicable to NG9-1-1 Entities. It will also provide a basis for auditing and assessing levels of security and risk to NG9-1-1 Entities, assets or elements, and exception approval/risk acceptance process in the case of non-compliance to these guidelines.

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

Send comments (copy psa@ansi.org) to: Download and submit comments at https://dev.nena.org/higherlogic/ws/public/document?document_id=33595&wg_id=a7040bd0-f995-4d50-a313-0a3e5f2f2841

NSF (NSF International)

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

Revision

BSR/NSF 18-202x (i23r1), Manual Food and Beverage Dispensing Equipment (revision of ANSI/NSF 18-2023)

This standard contains requirements for equipment and devices that manually dispense food or beverages, in bulk or in portions. The materials, design, and construction requirements of this standard may also be applied to an item that is manufactured as a component of food and beverage dispensing equipment.

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

Send comments (copy psa@ansi.org) to: Allan Rose <arose@nsf.org>

NSF (NSF International)

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

Revision

BSR/NSF 49-202x (i177r3), Biosafety Cabinetry: Design, Construction, Performance and Field Certification (revision of ANSI/NSF 49-2022)

This standard applies to Class II (laminar flow) biosafety cabinetry designed to minimize hazards inherent in work with agents assigned to Biosafety Levels 1, 2, 3, or 4. It also defines the tests that shall be passed by such cabinetry to meet this standard.

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

Send comments (copy psa@ansi.org) to: Allan Rose <arose@nsf.org>

Comment Deadline: September 1, 2024

ULSE (UL Standards & Engagement)

1603 Orrington Ave, Evanston, IL 60210 | alan.t.mcgrath@ul.org, <https://ulse.org/>

National Adoption

BSR/UL 60335-2-34-202X, Standard for Safety for Household and Similar Electrical Appliances- Safety - Part 2 -34: Particular requirements for motor-compressors (national adoption of IEC 60335-2-34 with modifications and revision of ANSI/UL 60335-2-34-2017)

ULSE is proposing to adopt the 7th edition of UL 60335-2-34 which includes the 6th edition of IEC 60335-2-34 plus the North American national differences. This International Standard deals with the safety of sealed (hermetic and semi-hermetic type) motor-compressors, their protection and control systems, if any, which are intended for use in equipment for household and similar purposes.

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

Send comments (copy psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/ProposalAvailable>

Comment Deadline: September 16, 2024

AAFS (American Academy of Forensic Sciences)

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

New Standard

BSR/ASB Std 195-202x, Standard for Scene Response: Initial Response by Scene Investigators (new standard)
This document provides requirements for the activities and actions of a scene investigator when responding to a scene, and the steps to be completed prior to conducting a scene search.

Single copy price: Free

Obtain an electronic copy from: This is a public comment period for a recirculation. Updated document, redline version, and comments can be viewed on the AAFS Standards Board website at: www.aafs.org/academy-standards-board.

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

ANS (American Nuclear Society)

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

Reaffirmation

BSR/ANS 58.8-2019 (R202x), Time Response Criteria for Manual Actions at Nuclear Power Plants (reaffirmation of ANSI/ANS 58.8-2019)

This standard establishes criteria and methods for identifying, calculating, validating, tracking, and documenting time requirements for the performance of nuclear power plant time-limited manual actions that are associated with either design basis events or licensing basis.

Single copy price: \$95.00

Obtain an electronic copy from: orders@ans.org

Send comments (copy psa@ansi.org) to: Patricia Schroeder <pschroeder@ans.org>

Comment Deadline: September 16, 2024

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

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

Addenda

BSR/ASHRAE Addendum m to Standard 209-2018, Energy Simulation Aided Design for Buildings except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE Standard 209-2018)

This addendum adds an appendix that provides guidance on the appropriate level of detail (LoD) for model inputs considering different use cases, specifically the Standard 209 modeling cycles.

Single copy price: \$35.00

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

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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

BSR/ASHRAE Addendum q to ANSI/ASHRAE Standard 15-2022, Safety Standard for Refrigeration Systems (addenda to ANSI/ASHRAE Standard 15-2022)

This proposed addendum addresses the use of the term “system” by clarifying the type of system in each use case. The most common update in the addendum is changing “system” to “refrigeration system”. Changing “system” to “refrigeration system” references a defined term and is italicized. Additional changes include: “system” to “equipment” in some cases, “piping system” to “refrigeration system piping” and removing the word “refrigerating” when referring to a “machinery room”.

Single copy price: \$35.00

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

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ASSP (Safety) (American Society of Safety Professionals)

520 N. Northwest Highway, Park Ridge, IL 60068 | rblanchette@assp.org, www.assp.org

Revision

BSR/ASSP Z244.1-202x, The Control of Hazardous Energy - Lockout, Tagout and Alternative Methods (revision of ANSI/ASSP Z244.1-2016 (R2020))

This standard establishes requirements for machines, equipment, and processes in which the unexpected energization or start-up of the machines or equipment, release of stored energy, or the actions of persons could result in harm to personnel. The standard specifies the use of lockout, tagout or alternative methods to control hazardous energy associated with machines, equipment, or processes. This standard applies to activities such as erecting, installing, constructing, repairing, adjusting, inspecting, unjamming, set-up, testing, troubleshooting, cleaning, dismantling, servicing and maintaining machines, equipment, or processes.

Single copy price: \$125.00

Obtain an electronic copy from: RBlanchette@assp.org

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

Comment Deadline: September 16, 2024

ASTM (ASTM International)

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

New Standard

BSR/ASTM WK63211-202x, Practice for heat fusion joining of polypropylene (PP) pipe and fittings (new standard)

<https://www.astm.org/get-involved/technical-committees/ansi-review>

Single copy price: Free

Obtain an electronic copy from: accreditation@astm.org

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ASTM (ASTM International)

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

New Standard

BSR/ASTM WK72932-202x, Guide for the Collection, Analysis and Comparison of Forensic Glass Samples (new standard)

<https://www.astm.org/get-involved/technical-committees/ansi-review>

Single copy price: Free

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ASTM (ASTM International)

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

New Standard

BSR/ASTM WK81810-202x, Test Method for Performance of Compartmentalized Heated Bin Cabinets (new standard)

<https://www.astm.org/get-involved/technical-committees/ansi-review>

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ASTM (ASTM International)

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

New Standard

BSR/ASTM WK88490-202x, Practice for a Physical Fit Analysis Training Program (new standard)

<https://www.astm.org/get-involved/technical-committees/ansi-review>

Single copy price: Free

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ASTM (ASTM International)

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New Standard

BSR/ASTM WK90158-202x, Practice for Standard Practice for Training in the Areas of Video Analysis, Image Analysis, and Photography (new standard)

<https://www.astm.org/get-involved/technical-committees/ansi-review>

Single copy price: Free

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New Standard

BSR/ASTM WK90190-202x, Guide for Standard Guide for Forensic Photogrammetry (new standard)

<https://www.astm.org/get-involved/technical-committees/ansi-review>

Single copy price: Free

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ASTM (ASTM International)

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

New Standard

BSR/ASTM WK90898-202x, Test Method for Performance of Panini Presses (new standard)

<https://www.astm.org/get-involved/technical-committees/ansi-review>

Single copy price: Free

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ASTM (ASTM International)

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

New Standard

BSR/ASTM WK90918-202x, Guide for Facial Image Comparison Documentation (new standard)

<https://www.astm.org/get-involved/technical-committees/ansi-review>

Single copy price: Free

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ASTM (ASTM International)

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

Reaffirmation

BSR/ASTM D2564-2020 (R202x), Specification for Solvent Cements for Poly(Vinyl Chloride) (PVC) Plastic Piping Systems (reaffirmation of ANSI/ASTM D2564-2020)

<https://www.astm.org/get-involved/technical-committees/ansi-review>

Single copy price: Free

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ASTM (ASTM International)

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

Reaffirmation

BSR/ASTM D2855-2020 (R202x), Practice for the Two-Step (Primer and Solvent Cement) Method of Joining Poly(Vinyl Chloride) (PVC) or Chlorinated Poly(Vinyl Chloride) (CPVC) Pipe and Piping Components with Tapered Sockets (reaffirmation of ANSI/ASTM D2855-2020)

<https://www.astm.org/get-involved/technical-committees/ansi-review>

Single copy price: Free

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ASTM (ASTM International)

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

Reaffirmation

BSR/ASTM F2795-2018 (R202x), Test Method for Performance of Self-Contained Soft Serve and Shake Freezers (reaffirmation of ANSI/ASTM F2795-2018)

<https://www.astm.org/get-involved/technical-committees/ansi-review>

Single copy price: Free

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ASTM (ASTM International)

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

Reaffirmation

BSR/ASTM F2990-2012 (R202x), Test Method for Commercial Coffee Brewers (reaffirmation of ANSI/ASTM F2990-2012 (R2018))

<https://www.astm.org/get-involved/technical-committees/ansi-review>

Single copy price: Free

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ASTM (ASTM International)

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

Revision

BSR/ASTM E23-202x, Test Methods for Notched Bar Impact Testing of Metallic Materials (revision of ANSI/ASTM E23-2024)

<https://www.astm.org/get-involved/technical-committees/ansi-review>

Single copy price: Free

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ASTM (ASTM International)

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

Revision

BSR/ASTM E2881-202x, Test Method for Extraction and Derivatization of Vegetable Oils and Fats from Fire Debris and Liquid Samples with Analysis by Gas Chromatography-Mass Spectrometry (revision of ANSI/ASTM E2881-2018)

<https://www.astm.org/get-involved/technical-committees/ansi-review>

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ASTM (ASTM International)

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

Revision

BSR/ASTM E2997-202x, Test Method for Analysis of Biodiesel Products by Gas Chromatography-Mass Spectrometry (revision of ANSI/ASTM E2997-2016)

<https://www.astm.org/get-involved/technical-committees/ansi-review>

Single copy price: Free

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ASTM (ASTM International)

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

Revision

BSR/ASTM F628-202x, Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe with a Cellular Core (revision of ANSI/ASTM F628-2023)

<https://www.astm.org/get-involved/technical-committees/ansi-review>

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Revision

BSR/ASTM F876-202x, Specification for Crosslinked Polyethylene (PEX) Tubing (revision of ANSI/ASTM F876-2024)

<https://www.astm.org/get-involved/technical-committees/ansi-review>

Single copy price: Free

Obtain an electronic copy from: accreditation@astm.org

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ASTM (ASTM International)

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

Revision

BSR/ASTM F2140-202x, Test Method for Performance of Hot Food Holding Cabinets (revision of ANSI/ASTM F2140-2011 (R2019))

<https://www.astm.org/get-involved/technical-committees/ansi-review>

Single copy price: Free

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ASTM (ASTM International)

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Revision

BSR/ASTM F2788-202x, Specification for Metric and Inch-sized Crosslinked Polyethylene (PEX) Pipe (revision of ANSI/ASTM F2788/F2788M-2021)

<https://www.astm.org/get-involved/technical-committees/ansi-review>

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Revision

BSR/ASTM F2800-202x, Specification for Recirculating Hood System for Cooking Appliances (revision of ANSI/ASTM F2800-2011 (R2017))

<https://www.astm.org/get-involved/technical-committees/ansi-review>

Single copy price: Free

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ASTM (ASTM International)

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Revision

BSR/ASTM F2861-202x, Test Method for Enhanced Performance of Combination Oven in Various Modes (revision of ANSI/ASTM F2861-2020)

<https://www.astm.org/get-involved/technical-committees/ansi-review>

Single copy price: Free

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ASTM (ASTM International)

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

Revision

BSR/ASTM F2968-202x, Specification for Crosslinked Polyethylene (PEX) Pipe for Gas Distribution Applications (revision of ANSI/ASTM F2968/F2968M-2021)

<https://www.astm.org/get-involved/technical-committees/ansi-review>

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ASTM (ASTM International)

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Revision

BSR/ASTM F3288-202x, Specification for MRS-Rated Metric- and Inch-sized Crosslinked Polyethylene (PEX) Pressure Pipe (revision of ANSI/ASTM F3288/F3288M-2020)

<https://www.astm.org/get-involved/technical-committees/ansi-review>

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ASTM (ASTM International)

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

Revision

BSR/ASTM F3506-202x, Specification for Polyethylene of Raised Temperature/Aluminum/Polyethylene of Raised Temperature (PE-RT/AL/PE-RT) Composite Pressure Pipe Based on Inner Diameter (ID) for Use in Air Conditioning and Refrigeration Line Set Systems (revision of ANSI/ASTM F3506-2021)

<https://www.astm.org/get-involved/technical-committees/ansi-review>

Single copy price: Free

Obtain an electronic copy from: accreditation@astm.org

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

AWS (American Welding Society)

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

New Standard

BSR/AWS A5.1/A5.1M-202x, Specification for Carbon Steel Electrodes for Shielded Metal Arc Welding (new standard)

This specification prescribes the requirements for classification of carbon-steel-covered electrodes used for shielded metal arc welding. The requirements include chemical composition and mechanical properties of weld metal, weld metal soundness, usability tests of electrodes, and moisture tests of the low-hydrogen electrode covering. Requirements for standard sizes and lengths, marking, manufacturing, and packaging are also included. Optional supplemental requirements include tests for improved toughness and ductility, lower and absorbed moisture in the electrode covering and for diffusible hydrogen in the weld metal. This specification makes use of both U.S. Customary Units and the International System of Units (SI). Since these are not equivalent, each system must be used independently of the other.

Single copy price: \$42.00 non-member; \$32.00 member

Obtain an electronic copy from: kbulger@aws.org

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

Comment Deadline: September 16, 2024

AWS (American Welding Society)

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

New Standard

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

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

Single copy price: \$25.00

Obtain an electronic copy from: jrosario@aws.org

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

AWWA (American Water Works Association)

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

Reaffirmation

BSR/AWWA C304-2014 (R202x), Design of Prestressed Concrete Cylinder Pipe (reaffirmation of ANSI/AWWA C304-2014 (R2019))

This standard defines the methods to be used in the structural design of buried prestressed concrete cylinder pipe (PCCP) under internal pressure. These methods are provided for the design of pipe subjected to the effects of working, transient, and field-test load and internal pressure combinations.

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)

AWWA (American Water Works Association)

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

Revision

BSR/AWWA G420-202x, Communication and Customer Relations (revision of ANSI/AWWA G420-2017)

This standard covers the essential requirements to effectively manage communication and customer relations.

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)

BHMA (Builders Hardware Manufacturers Association)

529 14th Street NW, Suite 1280, Washington, DC 20045 | agambrall@kellencompany.com, www.buildershardware.com

Revision

BSR/BHMA A156.17-202x, Standard for Self-Closing Hinges and Pivots (revision of ANSI/BHMA A156.17-2014 (R2019))

Requirements in this standard apply to Self Closing Hinges and Pivots. Cycle tests, operational tests, material and dimensional requirements are included.

Single copy price: \$36.00 non-member; \$18.00 member

Obtain an electronic copy from: agambrall@kellencompany.com

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

Comment Deadline: September 16, 2024

CSA (CSA America Standards Inc.)

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

Revision

BSR/CSA B149.6-202x, Code for biogas generation and utilization (revision of ANSI/CSA B149.6-2019)

This Code applies to the installation of systems for the production, handling, storage, and utilization of biogas in newly constructed facilities, as well as additions to and upgrading of existing systems.

Single copy price: Free

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

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

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/ES1.6-202x, Event Safety - Communications (new standard)

This standard describes requirements for both internal communication and public information for live events and related activities. It provides guidelines and recommended practices for effective communication within the production and operation of a live event. It describes communication messaging and technology for internal operations and external groups, such as the audience or general public, with guidelines for assessment with all involved entities. The goal is to determine logistics of and provide channels for general, operational, management, security, health and safety information to the affected parties in a timely manner. While this document will address communicating with law enforcement, medical support, or other AHJs, this standard specifically does not address communications within AHJs or military operations, as such specific systems are beyond the scope of this document.

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: 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/E1.31-1-202x, Per-slot priority extension for 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: standards@esta.org

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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/E1.37-4-202x, Remote Device Management over DMX512 Networks - File Transfer Control with Firmware Upload Capabilities (new standard)

This standard establishes the minimum requirements for controllers and responders to allow a method of firmware uploads using RDM. It defines the transfer process, command implementation and relationship to the existing ANSI E1.20 RDM standard, and specifically provides a transfer mechanism that can be applied to memory-limited responders with transmit and receive buffers as small as 64 bytes, whilst allowing scalable improvements (reduction in transfer times) for responders that have larger buffers.

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: 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/E1.37-8-202x, Additional Message Sets for ANSI E1.20 (RDM) - IPv6 & Improved IPv4 Configuration Messages (new standard)

This document is intended to supersede ANSI E1.37-2, Additional Message Sets for ANSI E1.20 (RDM) – Part 2, IPv4 & DNS Configuration Messages. E1.37-2 did not include support for IPv6, WiFi configuration, and other common needs. There have been many deficiencies identified in the data model used in E1.37-2 that made replacement with a more comprehensive model needed that addresses both IPv4 and IPv6, especially with the advent of ANSI E1.3 (RDMnet).

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: 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/E1.43-202x, Performer Flying Systems (revision of ANSI E1.43-2016)

This standard establishes a minimum level of performance parameters for the design, manufacture, use, and maintenance of performer flying systems used in the production of entertainment events. It provides guidance on minimum required strength, reliability, and safety aspects of these systems, to ensure safety of the performer, other production personnel, and audiences under all circumstances associated with performer flying.

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: standards@esta.org

Comment Deadline: September 16, 2024

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/E1.50-1-202x, Requirements for Temporary Display System Structures (revision of ANSI E1.50-1-2017)

The scope of this standard covers LED and other self-illuminated video display structures used as part of the scenery in concerts, theatre shows, and special events. The standard includes advice on planning and site preparedness, assembly and erection, suspension and safety of components, special access requirements, and the use and dismantling of these systems.

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: 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

Withdrawal

ANSI E1.30-10-2009 (R2019), EPI 32, Identification of Draft Device Description Language Modules (withdrawal of ANSI E1.30-10-2009 (R2019))

This EPI specifies how draft DDL modules which may change frequently may be marked and identified. It is being considered for withdrawal because its requirements are outdated and no longer useful.

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: standards@esta.org

ISEA (International Safety Equipment Association)

1101 Wilson Blvd, Suite 1425, Arlington, VA 22209 | hwoehrle@safetysafetyequipment.org, www.safetysafetyequipment.org

New Standard

BSR/ISEA 100-202x, Industrial Bump Caps (new standard)

The proposed standard establishes testing, minimum performance and labeling requirements for bump caps intended to provide protection to a wearer against the effects of striking their head against stationary objects and incurring laceration or other superficial injuries.

Single copy price: \$50.00

Obtain an electronic copy from: hwoehrle@safetysafetyequipment.org

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

RESNET (Residential Energy Services Network, Inc.)

P.O. Box 4561, Oceanside, CA 92052 | rick.dixon@resnet.us, www.resnet.us.com

Revision

BSR/RESNET/ICC 301-202x, Standard for the Calculation and Labeling of the Energy Performance of Dwelling and Sleeping Units Using an Energy Rating Index (revision of ANSI/RESNET/ICC 301-2022)

The project is the triennial update to Standard ANSI/RESNET/ICC 301.

Single copy price: \$55.00

Obtain an electronic copy from: Download by following the "ANSI Standards & Amendments Out For Public Comment" link on webpage, <https://www.resnet.us/about/standards/standards-currently-out-for-public-comment/>

Send comments (copy psa@ansi.org) to: RESNET using the online form for the draft at <https://www.resnet.us/about/standards/standards-currently-out-for-public-comment/>, under link "ANSI Standards & Amendments Out For Public Comment"

Comment Deadline: September 16, 2024

ULSE (UL Standards & Engagement)

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

National Adoption

BSR/UL 61010-2-032-202x, Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 2-032: Particular Requirements for Hand-Held and Hand-Manipulated Current Sensors for Electrical Test and Measurement (national adoption of IEC 61010-2-032 with modifications and revision of ANSI/UL 61010-2-032-2020)

Adoption of IEC 61010-2-032, Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 2-032: Particular Requirements for Hand-Held and Hand-Manipulated Current Sensors for Electrical Test and Measurement (fifth edition issued September 2023) as a new IEC-based UL standard, UL 61010-2-032, 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: 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 & Engagement)

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

National Adoption

BSR/UL 61010-2-033-202x, Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 2-033: Particular Requirements for Hand-Held Multimeters for Domestic and Professional Use, Capable of Measuring Mains Voltage (national adoption of IEC 61010-2-033 with modifications and revision of ANSI/UL 61010-2-032-2020)

Adoption of IEC 61010-2-033, Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 2-033: Particular Requirements for Hand-Held Multimeters for Domestic and Professional Use, Capable of Measuring Mains Voltage, (third edition issued September 2023) as a new IEC-based UL standard, UL 61010-2-033, 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: 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 & Engagement)

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

National Adoption

BSR/UL 61010-2-034-202x, Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 2-034: Particular Requirements for Measurement Equipment for Insulation Resistance and Test Equipment for Electric Strength (national adoption of IEC 61010-2-034 with modifications and revision of ANSI/UL 61010-2-034-2020)

Adoption of IEC 61010-2-034, Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 2-034: Particular Requirements for Measurement Equipment for Insulation Resistance and Test Equipment for Electric Strength (second edition issued July 2023) as a new IEC-based UL standard, UL 61010-2-034, 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: 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 16, 2024

ULSE (UL Standards & Engagement)

1603 Orrington Ave, Evanston, IL 60210 | alan.t.mcgrath@ul.org, <https://ulse.org/>

Revision

BSR/UL 244B-202X, Standard for Field Installed and/or Field Connected Appliance Controls (revision of ANSI/UL 244B-2023)

Proposed revisions covering button/coin cell batteries to mitigate the risk of serious injury or death from the ingestion of button cell or coin batteries by children six years old and younger during reasonably foreseeable use or misuse conditions.

Single copy price: Free

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

Send comments (copy psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/ProposalAvailable>

VITA (VMEbus International Trade Association (VITA))

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

Reaffirmation

BSR/VITA 57.4-2018 (R202x), FPGA Mezzanine Card Plus (FMC+) Standard (reaffirmation of ANSI/VITA 57.4-2018)

This standard extends the VITA 57.1 FMC standard by specifying two new connectors that enable additional Gigabit Transceiver interfaces that run at up to 28 Gbps.

Single copy price: \$25.00

Obtain an electronic copy from: admin@vita.com

Send comments (copy psa@ansi.org) to: admin@vita.com

Comment Deadline: October 1, 2024

ANS (American Nuclear Society)

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

Revision

BSR/ANS 3.11-202x, Determining Meteorological Data for Nuclear Facilities (revision of ANSI/ANS 3.11-2015 (R2020))

This standard provides the identification of which meteorological parameters should be measured relative to the specific monitoring program objectives, meteorological parameter accuracies, meteorological tower siting considerations, meteorological instrument mounting guidance, meteorological data monitoring and transmission methodologies, meteorological data reduction techniques, and quality assurance and completeness requirements.

Single copy price: \$50.00

Obtain an electronic copy from: orders@ans.org

Order from: orders@ans.org

Send comments (copy psa@ansi.org) to: P. Schroeder (pschroeder@ans.org)

Comment Deadline: October 1, 2024

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

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

New Standard

BSR INCITS 566-202x, Information technology - SCSI Primary Commands - 6 (SPC-6) (new standard)
SCSI Primary Commands - 6 (SPC-6) is the next generation of the Primary Commands. SPC-6 follows SPC-5. The following items should be considered for inclusion in SPC-6: More specific command duration limits, Necessary support for ZBC-2, Add sense codes as requested, and Other capabilities that may fit within the scope of this project.

Single copy price: Free

Obtain an electronic copy from: https://standards.incits.org/higherlogic/ws/public/document?document_id=164900&wg_id=4eb659ce-fa74-4b5b-a850-018f186797b7

Order from: https://standards.incits.org/higherlogic/ws/public/document?document_id=164900&wg_id=4eb659ce-fa74-4b5b-a850-018f186797b7

Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

ULSE (UL Standards & Engagement)

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

Revision

BSR/UL 448-202x, Standard for Safety for Centrifugal Stationary Pumps for Fire-Protection Service (revision of ANSI/UL 448-2022)

(1) Update to Wear Ring Material Wording.

Single copy price: Free

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

Send comments (copy psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/ProposalAvailable>

ULSE (UL Standards & Engagement)

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

Revision

BSR/UL 864-202x, Standard for Safety for Control Units and Accessories for Fire Alarm Systems (revision of ANSI/UL 864-2023)

(1) Additional exception for components in Monitoring Integrity, 27.3.

Single copy price: Free

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

Send comments (copy psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/ProposalAvailable>

Comment Deadline: October 1, 2024

ULSE (UL Standards & Engagement)

100 Queen Street, Suite 1040, Ottawa, ON K1P 1J9 Canada | sabrina.khreibtov@ul.org, <https://ulse.org/>

Revision

BSR/UL 1655-202X, Standard for Safety for Community-Antenna Television Cables (revision of ANSI/UL 1655-2009a (R2020))

Proposed New Third Edition of the Standard for Safety Community-Antenna Television Cables

Single copy price: Free

Order from: csds.ul.com/home/proposalsdefault.aspx

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

ULSE (UL Standards & Engagement)

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

Revision

BSR/UL/ULC 2162-202x, Standard for Commercial and/or Outdoor Wood-Fired Baking Ovens - Refractory Type (revision of ANSI/UL 2162-2014 (R2019))

1 SCOPE 1.1 These requirements apply to commercial and/or outdoor wood-fired ovens. Commercial wood-fired ovens are intended for use by commercial establishments for the purpose of cooking or baking food products utilizing solid wood fuel. These ovens utilize refractory materials as the liner of the oven cavity. 1.2 For the purposes of this standard, the ovens described in 1.1 that are installed in commercial establishments are vented by an exhaust hood or by means of a direct connect venting system.

Single copy price: Free

Order from: <https://csds.ul.com/ProposalAvailable>

Send comments (copy psa@ansi.org) to: Isabella Brodzinski, Project Manager, isabella.brodzinski@ul.org

Project Withdrawn

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

AAMI (Association for the Advancement of Medical Instrumentation)

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

BSR/AAMI/ISO 5910-202x, Cardiovascular implants and extracorporeal systems - Cardiac valve repair devices (identical national adoption of ISO/DIS 5910)

Send comments (copy psa@ansi.org) to: Jill Zajac <jzajac@aami.org>

Final Actions on American National Standards

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

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

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

ANSI/ASHRAE Addendum ad to ANSI/ASHRAE Standard 34-2022, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2022) Final Action Date: 7/26/2024 | *Addenda*

ANSI/ASHRAE/ASHE Addendum h to ANSI/ASHRAE/ASHE Standard 189.3-2021, Design, Construction, and Operation of Sustainable High-Performance Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Standard 189.3-2021) Final Action Date: 7/23/2024 | *Addenda*

ANSI/ASHRAE/IES Addendum g to ANSI/ASHRAE/IES Standard 90.2-2018, High-Performance Energy Design of Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.2-2018) Final Action Date: 7/23/2024 | *Addenda*

ANSI/ASHRAE/IES Addendum i to ANSI/ASHRAE/IES Standard 90.2-2018, High-Performance Energy Design of Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.2-2018) Final Action Date: 7/23/2024 | *Addenda*

ANSI/ASHRAE/IES Addendum j to ANSI/ASHRAE/IES Standard 90.2-2018, High-Performance Energy Design of Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.2-2018) Final Action Date: 7/23/2024 | *Addenda*

ANSI/ASHRAE/IES Addendum n to ANSI/ASHRAE/IES Standard 90.2-2018, High-Performance Energy Design of Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.2-2018) Final Action Date: 7/23/2024 | *Addenda*

ANSI/ASHRAE/IES Addendum s 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: 7/23/2024 | *Addenda*

ASME (American Society of Mechanical Engineers)

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

ANSI/ASME NML-1-2024, Rules for the Movement of Loads using Overhead Handling Equipment in Nuclear Facilities (revision of ANSI/ASME NML-1-2019) Final Action Date: 7/29/2024 | *Revision*

ATIS (Alliance for Telecommunications Industry Solutions)

1200 G Street, NW, Ste 500, Washington, DC 20005 | masefa@atis.org, www.atis.org

ANSI/ATIS 0600015.08-2014 (S2024), Energy Efficiency for Telecommunication Equipment: Methodology for Measurement and Reporting for Small Network Equipment (stabilized maintenance of ANSI/ATIS 0600015.08-2014 (R2019)) Final Action Date: 7/29/2024 | *Stabilized Maintenance*

CSA (CSA America Standards Inc.)

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

ANSI/CSA C22.2 No. 273-2019 (R2024), Cablebus (reaffirmation of ANSI/CSA C22.2 No. 273-2019) Final Action Date: 7/29/2024 | *Reaffirmation*

CSA/ANSI C22.2 No. 19085-1 (R2024), Woodworking machines - Safety - Part 1: Common requirements (reaffirm a national adoption ANSI/CSA C22.2 No. 19085-1-2019) Final Action Date: 7/29/2024 | *Reaffirmation*

HI (Hydraulic Institute)

300 Interpace Parkway, Building A, 3rd Floor, #280, Parsippany, NJ 07054 | amoser@pumps.org, www.pumps.org

ANSI/HI 9.6.1-2024, Rotodynamic Pumps Guideline for NPSH Margin (revision of ANSI/HI 9.6.1-2017) Final Action Date: 7/29/2024 | *Revision*

HL7 (Health Level Seven)

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

ANSI/HL7 Arden V2.10-2014 (R2024), Health Level Seven Arden Syntax for Medical Logic Systems, Version 2.10 (reaffirmation of ANSI/HL7 Arden V2.10-2014) Final Action Date: 7/24/2024 | *Reaffirmation*

ANSI/HL7 EHR BHFP, R1-2008 (R2024), HL7 EHR Behavioral Health Functional Profile, Release 1 (reaffirmation of ANSI/HL7 EHR BHFP, R1-2008) Final Action Date: 7/24/2024 | *Reaffirmation*

ANSI/HL7 EHR CHFP, R1-2008 (R2024), HL7 EHR Child Health Functional Profile, Release 1 (reaffirmation of ANSI/HL7 EHR CHFP, R1-2008) Final Action Date: 7/24/2024 | *Reaffirmation*

ANSI/HL7 EHR CRFP, R1-2009 (R2024), HL7 EHR Clinical Research Functional Profile, Release 1 (reaffirmation of ANSI/HL7 EHR CRFP, R1-2009) Final Action Date: 7/24/2024 | *Reaffirmation*

ANSI/HL7 FHIRPath R1-2020 (R2024), HL7 Cross-Paradigm Specification: FHIRPath, Release 1 (reaffirmation and redesignation of ANSI/HL7 NMN R1-2020) Final Action Date: 7/24/2024 | *Reaffirmation*

ANSI/HL7 PRIVECLASSSYS, R1-2014 (R2024), HL7 Healthcare Privacy and Security Classification System, Release 1 (reaffirmation of ANSI/HL7 PRIVECLASSSYS, R1-2014) Final Action Date: 7/24/2024 | *Reaffirmation*

ANSI/HL7 V3 ECG, R1-2004 (R2024), HL7 Version 3 Standard: Regulated Studies - Annotated ECG, Release 1 (reaffirmation of ANSI/HL7 V3 ECG, R1-2004 (R2014)) Final Action Date: 7/24/2024 | *Reaffirmation*

ANSI/HL7 V3IG INFOB, R4-2014 (R2024), HL7 Version 3 Implementation Guide: Context-Aware Knowledge Retrieval Application (Infobutton), Release 4 (reaffirmation of ANSI/HL7 V3IG INFOB, R4-2014) Final Action Date: 7/24/2024 | *Reaffirmation*

ANSI/HL7 V3 PASS SECURITY LABELSRV, R1-R2014 (R2024), HL7 Standard: Privacy, Access and Security Services; Security Labeling Service, Release 1 (reaffirmation and redesignation of ANSI/HL7 V3 PASS SECURITY LABELSRV, R1-2014 (R2019)) Final Action Date: 7/24/2024 | *Reaffirmation*

ANSI/HL7 V3 SOA EPSSRVINT, R1-2019 (R2024), HL7 Version 3 Standard: Event Publish & Subscribe Service Interface, Release 1 - US Realm (reaffirmation and redesignation of ANSI/HL7 V3 SOA EPSSRVINT, R1-2019) Final Action Date: 7/24/2024 | *Reaffirmation*

ANSI/HL7 V3 SOA UCRSVINT, R1-2019 (R2024), HL7 Version 3 Standard: Unified Communication Service Interface, Release 1 - US Realm (reaffirmation and redesignation of ANSI/HL7 V3 SOA UCRSVINT, R1-2019) Final Action Date: 7/24/2024 | *Reaffirmation*

ANSI/HL7 V3XMLITS STRUCT4WFCRIDT, R1-2014 (R2024), HL7 Version 3 Standard: XML Implementation Technology Specification - V3 Structures for Wire Format Compatible Release 1 Data Types, Release 1 (reaffirmation of ANSI/HL7 V3XMLITS STRUCT4WFCRIDT, R1-2014) Final Action Date: 7/24/2024 | *Reaffirmation*

ANSI/HL7 V3XMLITS WFCR1DT, R1-2014 (R2024), HL7 Version 3 Standard: XML Implementation Technology Specification - Wire Format Compatible Release 1 Data Types, Release 1 (reaffirmation of ANSI/HL7 V3XMLITS WFCR1DT, R1-2014) Final Action Date: 7/24/2024 | *Reaffirmation*

IEEE (Institute of Electrical and Electronics Engineers)

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

ANSI/IEEE C37.11-2024, Standard Requirements for Electrical Control for AC High-Voltage (1000 V) Circuit Breakers (new standard) Final Action Date: 7/22/2024 | *New Standard*

ANSI/IEEE C37.122.2-2024, Guide for the Application of Gas Insulated Substations 1 kV to 52 kV (new standard) Final Action Date: 7/24/2024 | *New Standard*

ISA (International Society of Automation)

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

ANSI/ISA 75.10.02-2014 (R2024), Installed Face-to-Face Dimensions for Dual Pinch Flanged Clamp or Pinch Valves (Classes 125 and 150) (reaffirmation of ANSI/ISA 75.10.02-2014) Final Action Date: 7/24/2024 | *Reaffirmation*

ANSI/ISA 75.10.03-2015 (R2024), Installed Face-to-Face Dimensions for Shell and Tube Flanged Pinch Valves (Classes 125 and 150) (reaffirmation of ANSI/ISA 75.10.03-2015) Final Action Date: 7/24/2024 | *Reaffirmation*

ANSI/ISA 75.10.01-2024, General Requirements for Clamp or Pinch Valves (revision of ANSI/ISA 75.10.01-2013) Final Action Date: 7/24/2024 | *Revision*

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

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

INCITS/ISO/IEC 42001:2023 [2024], Information Technology - Artificial Intelligence - Management System (identical national adoption of ISO/IEC 42001:2023) Final Action Date: 7/29/2024 | *National Adoption*

NEMA (ASC C12) (National Electrical Manufacturers Association)

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

ANSI C12.1-2024, Electric Meters - Code for Electricity Metering (revision of ANSI C12.1-2022) Final Action Date: 7/24/2024 | *Revision*

NSF (NSF International)

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

ANSI/NSF 49-2024 (i174r1), Biosafety Cabinetry: Design, Construction, Performance and Field Certification (revision of ANSI/NSF 49-2022) Final Action Date: 7/23/2024 | *Revision*

ANSI/NSF/CAN 600-2024 (i9r1), Health Effects Evaluation and Criteria for Chemicals in Drinking Water (revision of ANSI/NSF/CAN 600-2023) Final Action Date: 7/20/2024 | *Revision*

ULSE (UL Standards & Engagement)

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

ANSI/UL 2592-2015 (R2024), Standard for Safety for Low Voltage LED Wire (reaffirmation of ANSI/UL 2592-2015) Final Action Date: 7/26/2024 | *Reaffirmation*

ANSI/UL 486G-2024, Standard for Sealed Twist-On Connecting Devices (revision of ANSI/UL 486G-2018 (R2022)) Final Action Date: 7/22/2024 | *Revision*

ANSI/UL 778-2024, Standard for Motor-Operated Water Pumps (revision of ANSI/UL 778-2021) Final Action Date: 7/23/2024 | *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.

ANSI Accredited Standards Developer

EASA - Electrical Apparatus Service Association

Application Deadline: September 1, 2024

EASA is seeking approval of its draft Recommended Practice for the Repair of Rotating Electrical Apparatus, EASA AR100-202x as a revised American National Standard (ANS). EASA uses a canvass process, conducting a canvass or electronic mail poll of directly and materially affected persons (organizations, standards developers, companies, government agencies, individuals, and the like) in order to obtain evidence of consensus. This evidence will be considered by ANSI in the approval of the standard as an American National Standard.

If you are interested in participating in review and comment on the draft, send your request by September 1, 2024 to EASA Headquarters via fax (+1 314 993 1269) or to eesainfo@easa.com. No phone requests please. Your request must be in writing (fax or email) and documented in order to fulfill our ANSI procedure requirements.

AIAA (American Institute of Aeronautics and Astronautics)

12700 Sunrise Valley Drive, Suite 200, Reston, VA 20191-5807 | NickT@aiaa.org, www.aiaa.org

BSR/AIAA S-102.0.1A-202x, Capability-based mission assurance program - General requirements (revision of ANSI/AIAA S-102.0.1-2019)

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)

AWS (American Welding Society)

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

BSR/AWS A5.1/A5.1M-202x, Specification for Carbon Steel Electrodes for Shielded Metal Arc Welding (new standard)

AWS (American Welding Society)

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

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

BHMA (Builders Hardware Manufacturers Association)

529 14th Street NW, Suite 1280, Washington, DC 20045 | agambrall@kellencompany.com, www.buildershardware.com

BSR/BHMA A156.17-202x, Standard for Self-Closing Hinges and Pivots (revision of ANSI/BHMA A156.17-2014 (R2019))

CTA (Consumer Technology Association)

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

BSR/CTA 2051-B-202x, Wearable Sound Amplifier Performance Criteria (revision and redesignation of ANSI/CTA 2051-A-2022)

Interest Categories: CTA is seeking new members to join the consensus body. CTA and the R11 Health, Fitness & Wellness Committee are particularly interested in adding new members (called "users") who acquire health, fitness and wellness products. from those who create them, and in adding new members who neither produce nor use health, fitness or wellness products, and others (called members with a "general interest").

ESTA (Entertainment Services and Technology Association)

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

BSR/E1.31-1-202x, Per-slot priority extension for E1.31 (new standard)

Interest Categories: The Control Protocols Working Group seeks members in the following interest categories: Custom-market producer; Designer; Dealer or rental company; General interest; User. Interested parties may contact standards@esta.org for additional information.

ESTA (Entertainment Services and Technology Association)

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

BSR/E1.37-4-202x, Remote Device Management over DMX512 Networks - File Transfer Control with Firmware Upload Capabilities (new standard)

Interest Categories: The Control Protocols Working Group seeks members in the following interest categories: Custom-market producer; Designer; Dealer or rental company; General interest; User. Interested parties may contact standards@esta.org for additional information.

ESTA (Entertainment Services and Technology Association)

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

BSR/E1.37-8-202x, Additional Message Sets for ANSI E1.20 (RDM) - IPv6 & Improved IPv4 Configuration Messages (new standard)

Interest Categories: The Control Protocols Working Group seeks members in the following interest categories: Custom-market producer; Designer; Dealer or rental company; General interest; User. Interested parties may contact standards@esta.org for additional information.

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

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

BSR INCITS 566-202x, Information technology - SCSI Primary Commands - 6 (SPC-6) (new standard)

NECA (National Electrical Contractors Association)

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

BSR/NECA 726-202X, Standard for Installing and Maintaining Class 4 Fault-Managed Power (FMP) Systems (new standard)

NSF (NSF International)

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

BSR/NSF 18-202x (i23r1), Manual Food and Beverage Dispensing Equipment (revision of ANSI/NSF 18-2023)

NSF (NSF International)

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

BSR/NSF 49-202x (i177r3), Biosafety Cabinetry: Design, Construction, Performance and Field Certification (revision of ANSI/NSF 49-2022)

TIA (Telecommunications Industry Association)

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

BSR/TIA 455-204-B-202x, FOTP-204: Adoption of IEC 60793-1-41:2024: Optical Fibres - Part 1:41: Measurement methods and test procedures - Bandwidth (identical national adoption of IEC 60793-1-41:2024)

ULSE (UL Standards & Engagement)

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

BSR/UL 448-202x, Standard for Safety for Centrifugal Stationary Pumps for Fire-Protection Service (revision of ANSI/UL 448-2022)

ULSE (UL Standards & Engagement)

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

BSR/UL 864-202x, Standard for Safety for Control Units and Accessories for Fire Alarm Systems (revision of ANSI/UL 864-2023)

VITA (VMEbus International Trade Association (VITA))

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

BSR/VITA 57.4-2018 (R202x), FPGA Mezzanine Card Plus (FMC+) Standard (reaffirmation of ANSI/VITA 57.4-2018)

American National Standards (ANS) Process

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

Where to find Procedures, Guidance, Interpretations and More...

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

- ANSI Essential Requirements: Due process requirements for American National Standards (always current edition):
www.ansi.org/essentialrequirements
- ANSI Standards Action (weekly public review announcements of proposed ANS and standards developer accreditation applications, listing of recently approved ANS, and proposed revisions to ANS-related procedures):
www.ansi.org/standardsaction
- Accreditation information – for potential developers of American National Standards (ANS):
www.ansi.org/sdoaccreditation
- ANS Procedures, ExSC Interpretations and Guidance (including a slide deck on how to participate in the ANS process and the BSR-9 form):
www.ansi.org/asd
- Lists of ANSI-Accredited Standards Developers (ASDs), Proposed ANS and Approved ANS:
www.ansi.org/asd
- American National Standards Key Steps:
www.ansi.org/anskeysteps
- American National Standards Value:
www.ansi.org/ansvalue
- ANS Web Forms for ANSI-Accredited Standards Developers:
<https://www.ansi.org/portal/psawebforms/>
- Information about standards Incorporated by Reference (IBR):
<https://ibr.ansi.org/>
- ANSI - Education and Training:
www.standardstolearn.org

Accreditation Announcements (Standards Developers)

Approval of Reaccreditation – ASD

AAMI - Association for the Advancement of Medical Instrumentation

Effective July 24, 2024

The reaccreditation of **AAMI - Association for the Advancement of Medical Instrumentation** has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on AAMI-sponsored American National Standards, effective **July 24, 2024**. For additional information, please contact: Matthew Williams, Association for the Advancement of Medical Instrumentation (AAMI) | 901 North Glebe Road, Suite 300, Arlington, VA 22203 | (703) 215-8479, MWilliams@aami.org

Approval of Reaccreditation – ASD

ATIS - Alliance for Telecommunications Industry Solutions

Effective July 26, 2024

The reaccreditation of **ATIS - Alliance for Telecommunications Industry Solutions** has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on ATIS-sponsored American National Standards, effective **July 26, 2024**. For additional information, please contact: Jackie Wohlgemuth, Alliance for Telecommunications Industry Solutions (ATIS) | 1200 G Street NW, Suite 500, Washington, DC 20005 | (202) 434-8852, jwohlgemuth@atis.org

Approval of Reaccreditation – ASD

HFES - Human Factors & Ergonomics Society

Effective July 9, 2024

The reaccreditation of **HFES - Human Factors & Ergonomics Society** has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on HFES-sponsored American National Standards, effective **July 9, 2024**. For additional information, please contact: Steven Kemp, Human Factors & Ergonomics Society (HFES) | 2001 K Street NW, 3rd Floor N., Washington, DC 20006 | (202) 367-1114, skemp@hfes.org

Approval of Reaccreditation – ASD

LIA (ASC Z136) - The Laser Institute Safe Use of Lasers

Effective July 26, 2024

The reaccreditation of **LIA - The Laser Institute**, sponsor of Z136, Safe Use of Lasers, has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on LIA/Z136-sponsored American National Standards, effective **July 26, 2024**. For additional information, please contact: Liliana Caldero, The Laser Institute | 12001 Research Parkway, Suite 210, Orlando, FL 32828 | (407) 380-1553, lcaldero@lia.org

Meeting Notices (Standards Developers)

ANSI Accredited Standards Developer

ASSP (Safety) - American Society of Safety Professionals

Meeting Time: September 10, 2024

The American Society of Safety Professionals (ASSP) is the secretariat for the ASSP Z16 Committee for Safety and Health Metrics and Performance Measures. The next Z16 meeting will take place virtually on September 10, 2024. Those interested in participating can contact ASSP for additional information at LBauerschmidt@assp.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)
PRCA (Professional Ropes Course Association)
RESNET (Residential Energy Services Network, Inc.)
SAE (SAE International)
TCNA (Tile Council of North America)
TIA (Telecommunications Industry Association)
TMA (The Monitoring Association)
ULSE (UL Standards & Engagement)

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

ANSI-Accredited Standards Developers (ASD) Contacts

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

AAFS

American Academy of Forensic Sciences
410 North 21st Street
Colorado Springs, CO 80904
www.aafs.org
Teresa Ambrosius
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AIAA

American Institute of Aeronautics and Astronautics
12700 Sunrise Valley Drive, Suite 200
Reston, VA 20191
www.aiaa.org
Nick Tongson
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ANS

American Nuclear Society
1111 Pasquinelli Drive, Suite 350
Westmont, IL 60559
www.ans.org
Kathryn Murdoch
kmurdoch@ans.org

APA

APA - The Engineered Wood Association
7011 South 19th Street
Tacoma, WA 98466
www.apawood.org
Borjen Yeh
borjen.yeh@apawood.org

ASABE

American Society of Agricultural and Biological Engineers
2950 Niles Road
Saint Joseph, MI 49085
<https://www.asabe.org/>
Britni Wall
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ASHRAE

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
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ASME

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Two Park Avenue, M/S 6-2B
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ASSP (Safety)

American Society of Safety Professionals
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Park Ridge, IL 60068
www.assp.org
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ASTM

ASTM International
100 Barr Harbor Drive
West Conshohocken, PA 19428
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Laura Klineburger
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ATIS

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1200 G Street, NW, Ste 500
Washington, DC 20005
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Mignot Asefa
masefa@atis.org

AWS

American Welding Society
8669 NW 36th Street, Suite 130
Miami, FL 33166
www.aws.org

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Kevin Bulger
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AWWA

American Water Works Association
6666 W. Quincy Avenue
Denver, CO 80235
www.awwa.org

Madeline Rohr
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BHMA

Builders Hardware Manufacturers Association
529 14th Street NW, Suite 1280
Washington, DC 20045
www.buildershardware.com
Tony Gambrell
agambrell@kellencompany.com

CSA

CSA America Standards Inc.
8501 East Pleasant Valley Road
Cleveland, OH 44131
www.csagroup.org
Debbie Chesnik
ansi.contact@csagroup.org

CTA

Consumer Technology Association
1919 South Eads Street
Arlington, VA 22202
www.cta.tech
Catrina Akers
cakers@cta.tech

ESTA

Entertainment Services and Technology Association
271 Cadman Plaza, P.O. Box 23200
Brooklyn, NY 11202
www.esta.org
Richard Nix
standards@esta.org

HI

Hydraulic Institute
300 Interpace Parkway, Building A, 3rd
Floor, #280
Parsippany, NJ 07054
www.pumps.org

Alexander Moser
amoser@pumps.org

HL7

Health Level Seven
455 E. Eisenhower Parkway, Suite 300
#025
Ann Arbor, MI 48108
www.hl7.org

Lynn Laakso
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IAPMO (Z)

International Association of Plumbing &
Mechanical Officials
4755 East Philadelphia Street
Ontario, CA 91761
<https://www.iapmostandards.org>

Terry Burger
standards@iapmostandards.org

IEEE

Institute of Electrical and Electronics
Engineers
445 Hoes Lane
Piscataway, NJ 08854
www.ieee.org

Suzanne Merten
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ISA (Organization)

International Society of Automation
3252 S. Miami Blvd, Suite 102
Durham, NC 27703
www.isa.org

Lynne Franke
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ISEA

International Safety Equipment Association
1101 Wilson Blvd, Suite 1425
Arlington, VA 22209
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ITI (INCITS)

InterNational Committee for Information
Technology Standards
700 K Street NW, Suite 600
Washington, DC 20001
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NECA

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NEMA (ASC C12)

National Electrical Manufacturers
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1300 North 17th Street, Suite 900
Rosslyn, VA 22209
www.nema.org

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NENA

National Emergency Number Association
1700 Diagonal Road, Suite 500
Alexandria, VA 22314
www.nena.org

Nena Staff
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NSF

NSF International
789 N. Dixboro Road
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www.nsf.org

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RESNET

Residential Energy Services Network, Inc.
P.O. Box 4561
Oceanside, CA 92052
www.resnet.us.com

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SCTE

Society of Cable Telecommunications
Engineers
140 Philips Road
Exton, PA 19341
www.scte.org

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TIA

Telecommunications Industry Association
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Teesha Jenkins
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ULSE

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VITA

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ISO & IEC Draft International Standards



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

COMMENTS

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

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

ORDERING INSTRUCTIONS

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

ISO Standards

Aircraft and space vehicles (TC 20)

ISO/DIS 21347, Space systems - Fracture and damage control - 10/14/2024, \$102.00

Anaesthetic and respiratory equipment (TC 121)

ISO/DIS 80601-2-67, Medical electrical equipment - Part 2-67: Particular requirements for basic safety and essential performance of oxygen-conserving equipment - 10/10/2024, \$134.00

ISO/DIS 80601-2-69, Medical electrical equipment - Part 2-69: Particular requirements for the basic safety and essential performance of oxygen concentrator equipment - 10/10/2024, \$146.00

Biotechnology (TC 276)

ISO/DIS 20397-3, Biotechnology - Massively parallel sequencing - Part 3: General requirements and guidance for metagenomics - 10/10/2024, \$71.00

Corrosion of metals and alloys (TC 156)

ISO/DIS 16674, Corrosion control engineering life cycle of power transmission and transformation system - General requirements - 10/11/2024, \$71.00

ISO/DIS 18971, Corrosion of metals and alloys - Monitoring method for corrosion states of stainless steel in industrial cooling water - 10/13/2024, \$53.00

Cranes (TC 96)

ISO/DIS 4301-4, Cranes - Classification - Part 4: Jib cranes - 10/10/2024, \$58.00

Dentistry (TC 106)

ISO/DIS 11609, Dentistry - Dentifrices - Requirements, test methods and marking - 10/13/2024, \$82.00

Industrial fans (TC 117)

ISO/DIS 13347-1, Fans - Determination of fan sound power levels under standardized laboratory conditions - Part 1: General overview - 10/11/2024, \$107.00

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

ISO/DIS 12176-2, Plastics pipes and fittings - Equipment for fusion jointing polyethylene systems - Part 2: Electrofusion - 10/11/2024, \$71.00

Railway applications (TC 269)

ISO/DIS 18298, Railway applications - Platform barrier systems - 10/12/2024, \$112.00

Sludge recovery, recycling, treatment and disposal (TC 275)

ISO/DIS 19654, Sludge recovery, recycling, treatment and disposal - Laboratory chemical conditioning procedure - 10/10/2024, \$62.00

ISO/DIS 19658, Sludge recovery, recycling, treatment and disposal - Protocol for validating methods for physical properties of sludges - 10/10/2024, \$46.00

Solid biofuels (TC 238)

ISO/DIS 17829, Solid Biofuels - Determination of length and diameter of pellets - 10/11/2024, \$58.00

Steel (TC 17)

ISO/DIS 14811, Ultra-low carbon high boron steel wire rod for copper clad wire - 10/10/2024, \$40.00

Sustainable development in communities (TC 268)

ISO/DIS 37190, Guidance for practical implementation of ISO 37155 series for supervising at each life cycle phase of smart community infrastructures - 10/11/2024, \$62.00

(TC 331)

ISO/DIS 17620, Biodiversity - Process for designing and implementing biodiversity net gain in development projects - 10/13/2024, \$98.00

(TC 334)

ISO/DIS 33408, Guidance for the production of pure inorganic substance certified reference materials - 10/12/2024, \$125.00

Textiles (TC 38)

ISO/DIS 17971, Textiles - Smart Textiles - Test method for fabric interface with capacitive touchscreens - 10/13/2024, \$58.00

ISO/IEC JTC 1, Information Technology

ISO/IEC DIS 24791-5, Information technology - Radio frequency identification (RFID) for item management - Software system infrastructure - Part 5: Device interface - 10/10/2024, \$71.00

ISO/IEC DIS 19823-10, Information technology - Conformance test methods for security service crypto suites - Part 10: Crypto suite AES-128 - 10/10/2024, \$112.00

ISO/IEC DIS 19823-11, Information technology - Conformance test methods for security service crypto suites - Part 11: Crypto suite PRESENT-80 - 10/10/2024, \$53.00

ISO/IEC DIS 19823-13, Information technology - Conformance test methods for security service crypto suites - Part 13: Cryptographic Suite Grain-128A - 10/10/2024, \$77.00

ISO/IEC DIS 19823-16, Information technology - Conformance test methods for security service crypto suites - Part 16: Crypto suite ECDSA-ECDH - 10/10/2024, \$77.00

ISO/IEC DIS 19823-21, Information technology - Conformance test methods for security service crypto suites - Part 21: Crypto suite SIMON - 10/10/2024, \$77.00

ISO/IEC DIS 19823-22, Information technology - Conformance test methods for security service crypto suites - Part 22: Crypto suite SPECK - 10/10/2024, \$77.00

ISO/IEC DIS 29167-10, Information technology - Automatic identification and data capture techniques - Part 10: Crypto suite AES-128 security services for air interface communications - 10/11/2024, \$125.00

ISO/IEC DIS 29167-11, Information technology - Automatic identification and data capture techniques - Part 11: Crypto suite PRESENT-80 security services for air interface communications - 10/10/2024, \$93.00

ISO/IEC DIS 29167-13, Information technology - Automatic identification and data capture techniques - Part 13: Crypto suite Grain-128A security services for air interface communications - 10/10/2024, \$107.00

IEC Standards**All-or-nothing electrical relays (TC 94)**

94/1062/FDIS, IEC 63522-20 ED1: Electrical relays - Tests and Measurements - Part 20: Mechanical endurance, 09/06/2024

94/1048(F)/FDIS, IEC 63522-7 ED1: Electrical relays - Tests and measurements - Part 7: Functional tests, 08/16/2024

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

100/4173/CD, IEC 63296-3 ED1: Portable multimedia equipment - Determination of battery duration - Part 3: Wearable powered loudspeaker equipment, 10/18/2024

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

46A/1689/CD, IEC 61196-1-101 ED2: Coaxial communication cables - Part 1-101: Electrical test methods - Test for conductor d.c. resistance of cable, 09/20/2024

46/1009/CD, IEC 62153-4-7/AMD1 ED3: Amendment 1 - Metallic cables and other passive components test methods - Part 4-7: Electromagnetic compatibility (EMC) - Test method for measuring of transfer impedance Z_T and screening attenuation a_S or coupling attenuation a_C of connectors and assemblies - Triaxial tube in tube method, 10/18/2024

Electric road vehicles and electric industrial trucks (TC 69)

69/964/CDV, IEC 63584 ED1: Open Charge Point Protocol (OCPP) (Fast track), 10/18/2024

69/979/NP, PNW TS 69-979 ED1: ELECTRIC VEHICLE CONDUCTIVE CHARGING SYSTEM - Part 23-4: Portable DC EV supply equipment, 10/18/2024

Electrical accessories (TC 23)

23K/99/CD, IEC 63552 ED1: Particular requirements for Switching device for islanding, 10/18/2024

Electrical apparatus for explosive atmospheres (TC 31)

31/1781(F)/CDV, IEC 60079-0 ED8: Explosive atmospheres - Part 0: Equipment - General requirements, 09/27/2024

Electrical installations of buildings (TC 64)

64/2692/CD, IEC 60364-6 ED3: Low voltage electrical installations - Part 6: Verification, 11/15/2024

64/2693/CD, IEC TS 60364-7-725 ED1: Low-voltage electrical installations - Part 7-725: Requirements for special installations or locations - Resilient power supply system, 10/18/2024

Electroacoustics (TC 29)

29/1179/CDV, IEC 61669/AMD1 ED2: Amendment 1 - Electroacoustics - Measurement of real-ear acoustical performance characteristics of hearing aids, 10/18/2024

Electromagnetic compatibility (TC 77)

77C/343/CDV, IEC 61000-4-23/AMD1 ED2: Amendment 1 - Electromagnetic compatibility (EMC) - Part 4-23: Testing and measurement techniques - Test methods for protective devices for HEMP and other radiated disturbances, 10/18/2024

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

112/654/CD, IEC 60343 ED3: Recommended test methods for determining the relative resistance of insulating materials to breakdown by surface discharges, 09/20/2024

Fibre optics (TC 86)

86A/2487/CD, IEC 60794-1-113 ED1: Optical fibre cables - Part 1-113: Generic specification - Basic optical cable test procedures - Mechanical tests methods - Shotgun resistance, Method E13, 09/20/2024

Flat Panel Display Devices (TC 110)

110/1667/FDIS, IEC 62341-6-7 ED1: Organic light emitting diode (OLED) displays - Part 6-7: Measuring methods of optical characteristics for display with under screen feature, 09/06/2024

110/1671/CD, IEC 62977-1-2 ED1: Electronic displays - Part 1-2: Generic - Terminology and letter symbols, 09/20/2024

110/1670/CD, IEC 63211-3-3 ED1: Durability test methods for electronic displays - Part 3-3: Mechanical tests - Dynamic stress, 09/20/2024

Fuses (TC 32)

32C/645/FDIS, IEC 60691/AMD1 ED5: Amendment 1 - Thermal links - Requirements and application guide, 09/06/2024

Industrial-process measurement and control (TC 65)

65E/1113/FDIS, IEC 61987-1 ED2: Industrial-process measurement and control - Data structures and elements in process equipment catalogues - Part 1: Generic structures for measuring equipment, 09/06/2024

65E/1115/DTS, IEC TS 62453-43 ED1: Field Device Tool (FDT) Interface Specification - Part 43: Object model integration profile - CLI and HTML, 09/20/2024

Insulating materials (TC 15)

15/1034/CDV, IEC 60684-2 ED4: Flexible insulating sleeving - Part 2: Methods of test, 10/18/2024

Lamps and related equipment (TC 34)

34D/1739(F)/FDIS, IEC 60598-1 ED10: Luminaires - Part 1: General requirements and tests, 08/09/2024

34A/2405(F)/FDIS, IEC 63356-2 ED2: LED light source characteristics - Part 2: Design parameters and values, 08/09/2024

34A/2410/CD, IEC 63553 ED1: Fully flexible Organic Light Emitting Diode (OLED) panels for general lighting - Performance requirements, 10/18/2024

Performance of household electrical appliances (TC 59)

59K/395/CDV, IEC 60350-2 ED3: Household electric cooking appliances - Part 2: Hobs - Methods for measuring performance, 10/18/2024

Power system control and associated communications (TC 57)

57/2711/FDIS, IEC 61850-6/AMD2 ED2: Amendment 2 - Communication networks and systems for power utility automation - Part 6: Configuration description language for communication in electrical substations related to IEDs, 09/06/2024

Rotating machinery (TC 2)

2/2199/CDV, IEC 60034-15 ED4: Rotating electrical machines - Part 15: Impulse voltage withstand levels of form-wound stator coils for rotating a.c. machines, 10/18/2024

Safety of hand-held motor-operated electric tools (TC 116)

116/816/FDIS, IEC 62841-4-1/AMD1 ED1: Amendment 1 - Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-1: Particular requirements for chain saws, 09/06/2024

Safety of household and similar electrical appliances (TC 61)

61/7278/FDIS, IEC 60335-2-101 ED2: Household and similar electrical appliances - Safety - Part 2-101: Particular requirements for vaporizers, 09/06/2024

61/7280/FDIS, IEC 60335-2-111 ED2: Household and similar electrical appliances - Safety - Part 2-111: Particular requirements for electric ondol mattress with a non-flexible heated part, 09/06/2024

61/7279/FDIS, IEC 60335-2-96 ED3: Household and similar electrical appliances - Safety - Part 2-96: Particular requirements for flexible sheet heating elements for room heating, 09/06/2024

Semiconductor devices (TC 47)

47/2864/CD, IEC 63551-1 ED1: Semiconductor devices - Detection modules of autonomous land vehicle - Part 1: Testing methods of detection performance for LiDAR, 11/15/2024

Switchgear and controlgear (TC 17)

17C/943/CD, IEC 62271-213/AMD1 ED1: Amendment 1 - High-voltage switchgear and controlgear - Part 213: Voltage detecting and indicating system, 09/20/2024

17C/944/CD, IEC 62271-215/AMD1 ED1: Amendment 1 - High-voltage switchgear and controlgear - Part 215: Phase comparator used with VDIS, 09/20/2024

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

121A/622/CD, IEC 60947-7-2 ED4: Low-voltage switchgear and controlgear - Part 7-2: Ancillary equipment - Protective conductor terminal blocks for copper conductors, 10/04/2024

121A/623/CD, IEC 62091 ED2: Low-voltage switchgear and controlgear - Controllers for drivers of stationary fire pumps, 10/04/2024

121B/201/CD, IEC TS 61641 ED1: Low-voltage switchgear and controlgear assemblies - Internal arc-fault protection of low-voltage switchgear and controlgear assemblies in accordance with the IEC 61439 series, 09/20/2024

(TC)

CIS/A/1432/CD, CISPR 16-1-5/AMD2/FRAG2 ED2: Amendment 2 - Fragment 2: Calculable loop antennas, 09/20/2024

CIS/A/1431/CD, CISPR 16-1-6/AMD3/FRAG3 ED1: Amendment 3 - Fragment 3: Calculable loop antennas, 09/20/2024

CIS/H/505/DPAS, CISPR PAS 39 ED1: Conducted emission requirements on the low voltage AC mains port in the frequency range 9 kHz to 150 kHz for equipment intended to operate in residential environments, 09/20/2024

(TC 123)

123/94/CD, IEC TS 63224 ED1: Management of network assets in power systems - Management aspect, 09/20/2024

UHV AC transmission systems (TC 122)

122/177/DTS, IEC TS 63042-103 ED1: UHV AC transmission systems - Security and stability requirements for system planning and design, 09/20/2024

Wearable electronic devices and technologies (TC 124)

124/281/CD, IEC 63203-203-1: Wearable electronic devices and technologies - Part 203-1: Test method for measuring performance of fabric-based triboelectric generator, 10/18/2024

124/280/CD, IEC 63203-203-2: Wearable electronic devices and technologies - Part 203-2: Test method for measuring performance of fabric-based piezoelectric generator, 10/18/2024

Winding wires (TC 55)

55/2053/FDIS, IEC 60317-27-1/AMD1 ED1: Amendment 1 - Specifications for particular types of winding wires - Part 27-1: Paper tape covered round copper wire, 09/06/2024



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

Air quality (TC 146)

[ISO 10313:1993/Amd 1:2024](#), - Amendment 1: Ambient air -

Determination of the mass concentration of ozone - Chemiluminescence method - Amendment 1: Consensus value for the ozone absorption cross-section at room temperature at the mercury-line wavelength (253,65 nm air), \$23.00

[ISO 13964:1998/Amd 1:2024](#), - Amendment 1: Air quality -

Determination of ozone in ambient air - Ultraviolet photometric method - Amendment 1: Consensus value for the ozone absorption cross-section at room temperature at the mercury-line wavelength (253,65 nm air), \$23.00

Anaesthetic and respiratory equipment (TC 121)

[ISO 5362:2024](#), Anaesthetic and respiratory equipment -

Anaesthetic reservoir bags, \$124.00

[ISO 17256:2024](#), Anaesthetic and respiratory equipment -

Respiratory therapy tubing and connectors, \$81.00

Biotechnology (TC 276)

[ISO 8472-1:2024](#), Biotechnology - Data interoperability for stem

cell data - Part 1: Framework, \$81.00

Fasteners (TC 2)

[ISO 3506-7:2024](#), Fasteners - Mechanical properties of corrosion-

resistant stainless steel fasteners - Part 7: Flat washers with specified grades and property classes, \$124.00

Fluid power systems (TC 131)

[ISO 11619:2024](#), Pneumatic fluid power - Polyurethane and

polyamide tubings for use primarily in pneumatic installations - Dimensions and specification, \$124.00

Implants for surgery (TC 150)

[ISO 23500-2:2024](#), Preparation and quality management of fluids

for haemodialysis and related therapies - Part 2: Water treatment equipment for haemodialysis applications and related therapies, \$194.00

Machine tools (TC 39)

[ISO 19085-4:2024](#), Woodworking machines - Safety - Part 4:

Vertical panel circular sawing machines, \$194.00

[ISO 19085-5:2024](#), Woodworking machines - Safety - Part 5:

Dimension saws, \$223.00

[ISO 19085-8:2024](#), Woodworking machines - Safety - Part 8:

Wide belt sanding machines and surface treating machines, \$194.00

[ISO 19085-11:2024](#), Woodworking machines - Safety - Part 11:

Combined machines, \$194.00

Petroleum products and lubricants (TC 28)

[ISO 10050:2024](#), Lubricants, industrial oils and related products

(class L) - Family T (Turbines) - Specifications of triaryl phosphate ester turbine control fluids (category ISO-L-TCD), \$54.00

Plain bearings (TC 123)

[ISO 12843:2024](#), Plain bearings - Reuse, recycling and disposal

of plain bearing materials, \$54.00

Road vehicles (TC 22)

[ISO 24089:2023/Amd 1:2024](#), - Amendment 1: Road vehicles -

Software update engineering - Amendment 1, \$23.00

Rubber and rubber products (TC 45)

[ISO 8028:2024](#), Rubber and/or plastics hoses and hose

assemblies for airless paint spraying - Specification, \$81.00

Soil quality (TC 190)

[ISO 8259:2024](#), Soil quality - Bioaccessibility of organic and

inorganic pollutants from contaminated soil and soil-like materials, \$194.00

Steel (TC 17)

[ISO 4941:2024](#), Steel and iron - Determination of molybdenum

content - Thiocyanate spectrophotometric method, \$81.00

Traditional Chinese medicine (TC 249)

[ISO 13615:2024](#), Traditional Chinese medicine - *Actractylodes*

macrocephala rhizome, \$81.00

ISO Technical Specifications

Industrial automation systems and integration (TC 184)

[ISO/TS 10303-15:2024](#), Industrial automation systems and

integration - Product data representation and exchange - Part 15: Description methods: SysML XMI to XSD transformation, \$250.00

Sieves, sieving and other sizing methods (TC 24)

[ISO/TS 5973:2024](#), Laser diffraction measurements - Good practice, \$166.00

ISO/IEC JTC 1 Technical Reports

[ISO/IEC TR 23002-9:2024](#), Information technology - MPEG video technologies - Part 9: Film grain synthesis technology for video applications, \$223.00

ISO/IEC JTC 1, Information Technology

[ISO/IEC 24079:2024](#), Information technology - Network Controller Sideband Interface (NC-SI) specifications collection, \$278.00

[ISO/IEC 33202:2024](#), Software and systems engineering - Core agile practices, \$223.00

[ISO/IEC 18181-1:2024](#), Information technology - JPEG XL image coding system - Part 1: Core coding system, \$278.00

[ISO/IEC 21122-1:2024](#), Information technology - JPEG XS low-latency lightweight image coding system - Part 1: Core coding system, \$278.00

[ISO/IEC/IEEE 8802-15-4:2024](#), Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 15-4: Wireless medium access control (MAC) and physical layer (PHY) specifications for low-rate wireless personal area networks (WPANs), \$278.00

IEC Standards

Electromagnetic compatibility (TC 77)

[IEC 61000-2-4 Ed. 3.0 b:2024](#), Electromagnetic compatibility (EMC) - Part 2-4: Environment - Compatibility levels in power distribution systems in industrial locations for low-frequency conducted disturbances, \$348.00

[S+ IEC 61000-2-4 Ed. 3.0 en:2024 \(Redline version\)](#), Electromagnetic compatibility (EMC) - Part 2-4: Environment - Compatibility levels in power distribution systems in industrial locations for low-frequency conducted disturbances, \$591.00

Nuclear instrumentation (TC 45)

[IEC/IEEE 62582-3 Ed. 2.0 b:2024](#), Nuclear power plants - Instrumentation and control important to safety - Electrical equipment condition monitoring methods - Part 3: Elongation at break, \$245.00

[S+ IEC/IEEE 62582-3 Ed. 2.0 en:2024 \(Redline version\)](#), Nuclear power plants - Instrumentation and control important to safety - Electrical equipment condition monitoring methods - Part 3: Elongation at break, \$416.00

Accreditation Announcements (U.S. TAGs to ISO)

Approval of Accreditation – U.S. TAG to ISO

TC 173/SC 3, Aids for ostomy and incontinence

Effective July 12, 2024

ANSI's Executive Standards Council (ExSC) has formally approved the accreditation of the U.S. Technical Advisory Group to ISO **TC 173/SC 3, Aids for ostomy and incontinence** and the appointment of the RESNA - Rehabilitation Engineering and Assistive Technology Society of North America as TAG Administrator, effective **July 12, 2024**. The TAG will operate under 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. For additional information, please contact: Director, Standards, RESNA - Rehabilitation Engineering and Assistive Technology Society of North America: 2001 K Street, NW 3rd Floor North, Washington, DC 20006, P: (202) 367-2307 E: technicalstandards@resna.org

International Organization for Standardization (ISO)

Call for comment on ISO/IEC Guide 59:2019

Comment Deadline: October 18, 2024

ISO has initiated a systematic review of ISO/IEC Guide 59:2019 – “ISO and IEC recommended practices for standardization by national bodies”, which has the following scope statement:

This document provides recommended standardization practices that are intended to support the application of the following:

- *the WTO TBT Committee decision on principles for the development of international standards, guides and recommendations (G/TBT/9, 13 November 2000);*
- *the WTO TBT Agreement’s Code of Good Practice for the Preparation, Adoption and Application of Standards (Annex 3 of the 1995 WTO TBT Agreement).*

This document is intended to be used by the national members of ISO and IEC, hereafter referred to as national bodies.

ANSI, is seeking U.S. Stakeholders’ input on ISO/IEC Guide 59:2019 to help ANSI determine if ANSI should vote revise, reconfirm as is, or withdraw the standard. Anyone wishing to review ISO/IEC Guide 59:2019 can request a copy by contacting ANSI’s ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on **Friday, October 18, 2024**.

Call for comment on ISO/IEC Guide 63:2019

Comment Deadline: October 18, 2024

ISO has initiated a systematic review of ISO/IEC Guide 63:2019 – “Guide to the development and inclusion of aspects of safety in International Standards for medical devices”, which has the following scope statement:

This document provides requirements and recommendations to writers of medical device standards on the inclusion of aspects related to safety in International Standards, based on well-established risk management concepts and methodology.

This document is applicable to any aspect related to the safety of people, property, the environment, or a combination of these.

In this document, the term “product” includes a medical device or a system consisting of one or more medical devices, possibly combined with non-medical devices.

ANSI, is seeking U.S. Stakeholders’ input on ISO/IEC Guide 63:2019 to help ANSI determine if ANSI should vote revise, reconfirm as is, or withdraw the standard. Anyone wishing to review ISO/IEC Guide 63:2019 can request a copy by contacting ANSI’s ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on **Friday, October 18, 2024**.

International Organization for Standardization (ISO)

Call for U.S. TAG Administrator

ISO/TC 101 – Continuous mechanical handling equipment

Comment Deadline: August 2, 2024

There is currently no ANSI-accredited U.S. TAG Administrator for ISO/TC 101 – *Continuous mechanical handling equipment* and therefore ANSI is not a member of this committee. The Secretariat for the committee is held by Germany (DIN).

ISO/TC 101 operates under the following scope:

Standardization in the field of continuous mechanical handling equipment for loose bulk materials or unit loads, comprising terminology, general design and construction, leading dimensions, safety requirements and testing and inspection methods.

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

Call for U.S. TAG Administrator

ISO/TC 113 – Hydrometry

Comment Deadline: August 2, 2024

There is currently no ANSI-accredited U.S. TAG Administrator for ISO/TC 113 – *Hydrometry*, or any of the active Subcommittees, and therefore ANSI is not a member of these committees. The Secretariats for the committees are held by:

ISO/TC 113 – *Hydrometry*: India (BIS)

ISO/TC 113/SC 1 – *Velocity area methods*: India (BIS)

ISO/TC 113/SC 2 – *Flow measurement structures*: India (BIS)

ISO/TC 113/SC 5 – *Instruments, equipment and data management*: China (SAC)

ISO/TC 113/SC 6 – *Sediment transport*: India (BIS)

ISO/TC 113/SC 8 – *Ground water*: Korea (KATS)

ISO/TC 113 operates under the following scope:

Standardization of methods, procedures, instruments, and equipments relating to techniques for hydrometric determination of water level, velocity, discharge and sediment transport in open channels, precipitation and evapotranspiration, availability and movement of ground water, including:

- *terminology and symbols;*
- *collection, evaluation, analysis, interpretation and presentation of data;*
- *evaluation of uncertainties.*

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

International Organization for Standardization (ISO)

Call for U.S. TAG Administrator

ISO/TC 155 – Nickel and nickel alloys

Comment Deadline: August 2, 2024

There is currently no ANSI-accredited U.S. TAG Administrator for ISO/TC 155 – *Nickel and nickel alloys* and therefore ANSI is not a member of this committee. The Secretariat for the committee is held by France (AFNOR).

ISO/TC 155 operates under the following scope:

Standardization in the field of nickel and nickel alloys including terminology, specifications and methods of sampling, testing and analysis.

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

Call for U.S. TAG Administrator

ISO/TC 256 – Pigments, dyestuffs and extenders

Comment Deadline: August 2, 2024

There is currently no ANSI-accredited U.S. TAG Administrator for ISO/TC 256 – *Pigments, dyestuffs and extenders* and therefore ANSI is not a member of this committee. The Secretariat for the committee is held by Germany (DIN).

ISO/TC 256 operates under the following scope:

Standardization in the field of colouring materials, i.e. pigments, extenders and dyestuffs, including terminology, product specifications and test methods.

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

Establishment of ISO Subcommittee

ISO/TC 8/SC 26 – Smart shipping

Comment Deadline: August 2, 2024

ISO/TC 8 – *Ships and marine technology* has created a new ISO Subcommittee on *Smart shipping* (ISO/TC 8/SC 26). The Secretariat has been assigned to China (SAC).

ISO/TC 8/SC 26 operates under the following scope:

Standardization in the field of emerging and advanced information and communication technologies, (e.g. big data and processing, IoT, onboard sensors, artificial intelligence) in shipbuilding and maritime intelligent transportation system.

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

International Organization for Standardization (ISO)

Establishment of Three ISO Subcommittees

ISO/TC 48 – Laboratory equipment

Comment Deadline: August 2, 2024

ISO/TC 48 – *Laboratory equipment* has created three new ISO Subcommittees:

- ISO/TC 48/SC 7 – *Non-measuring equipment made of glass, plastic and ceramics*
 - o SC 7 Secretariat: Germany (DIN)
 - o SC 7 Scope: *Standardization of material characterization, specification, construction, marking and testing for laboratory equipment, which is not intended to be used for measurement of physical quantities. This includes standardization of principles and materials for construction, performance, dimensions and testing with respect to material characteristics, as well as the terms and definitions used in connection therewith.*
- ISO/TC 48/SC 8 – *Volume measuring instruments*
 - o SC 8 Secretariat: Portugal (IPQ)
 - o SC 8 Scope: *Volume measuring instruments* under the scope of ISO/TC 48 – *Laboratory equipment*.
- ISO/TC 48/SC 9 – *Laboratory furniture*
 - o SC 9 Secretariat: Germany (DIN)
 - o SC 9 Scope: *Laboratory furniture* under the scope of ISO/TC 48 – *Laboratory equipment*.

Organizations interested in serving as the U.S. TAG Administrator or participating on any of the U.S. TAGs 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

RadiusXR

Public Review: July 22 to October 22, 2024

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 ab
to ANSI/ASHRAE Standard 15-2022**

First Public Review Draft

**Proposed Addendum ab to
Standard 15-2022, Safety Standard
for Refrigeration Systems**

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

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

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

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

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ASHRAE

(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

There is historical precedent for machinery room spaces to be used for housing or storing other equipment or systems within the room that are not related to the machinery systems the room is specifically designed and intended to house. This creates a situation that often requires unauthorized non-utility personnel to access the space and the equipment they are operating, inspecting, or maintaining. This creates increases the risk of an accident potential that Section 8.9.4 was trying to minimize. The concern is particularly heightened as many facilities begin their transition to A2L refrigerant systems.

The proposed revisions emphasize the existing normative requirements of the standard and provide information in Appendix A as to what types of equipment are generally expected to be in a machinery room and types of equipment and materials that should not be located in a machinery room. In addition, the proposed changes provide further information on the “authorized personnel” requirements for accessing a machinery room by Section 8.9.4.

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

Addendum ab to Standard 15-2022

Modify Section 8 as follows. The remainder of Section 8 remains unchanged.

8.9.1* *Machinery rooms* are not prohibited from housing other mechanical equipment unless specifically prohibited elsewhere in this standard. Where equipment other than *machinery* is located in a *machinery room*, any personnel who must access the *machinery room* to operate, inspect, repair, or maintain such equipment *shall* comply with Section 8.9.4.

8.9.1.1 *A machinery room shall* be so dimensioned that parts are accessible with space for service, maintenance, and operations.

8.9.1.2 There *shall* be clear head room of not less than 7.25 ft (2.2 m) below equipment situated over passageways.

[...]

8.9.4* **Access.** Access to the refrigerating *machinery room* *shall* be restricted to authorized personnel. Doors *shall* be clearly marked, or permanent signs *shall* be posted at each entrance to indicate this restriction.

[...]

Modify Informative Appendix A as follows. The remainder of the appendix is unchanged.

INFORMATIVE APPENDIX A

EXPLANATORY MATERIAL

Sections of the standard with associated explanatory information in this appendix are marked with an asterisk “*” after the section number.

[...]

Section 8.9.1

The primary function of refrigerating *machinery rooms* is to safely house refrigerating *machinery* and related support equipment such as secondary fluid pumps, condenser water pumps, condenser water sumps, condenser water treatment systems, etc. A refrigerating *machinery room* is not intended to house or store other unrelated equipment, materials, and supplies such as irrigation equipment and their control panels, telecommunications equipment, window washing equipment, janitorial supplies, pallets, boxes, seasonal furniture, etc. The reason to prohibit locating other equipment or supplies in a *machinery room* is threefold. First, added equipment within a machinery room increases hazards within the room and the likelihood of an incident by the presence of co-located equipment and supplies the room as well as by reducing the space available for inspections, tests, and operating the refrigerating *machinery*. Second, locating unrelated equipment and supplies in a *machinery room* increases the likelihood that unauthorized personnel lacking appropriate refrigerating *machinery room* safety training will access the *machinery room*. Third, locating unrelated equipment and supplies in a *machinery room* must not impact or alter safety systems such as refrigerant detection and machinery room ventilation air flow. Although this section does permit housing other mechanical equipment in the room, it is essential that all personnel accessing a *machinery room* are authorized to do so by the owner in accordance with Section 8.9.4.

Section 8.9.4

The purpose of restricting *machinery room* access to authorized personnel is to ensure those occupying the *machinery room* understand the hazards that exist within the room as well as evacuation/response plans should a refrigerant leak be detected or another type of incident occur. In addition, authorized personnel need to have appropriate training that enables them to safely perform assigned work within the room. The owner is responsible for establishing the threshold requirements and instruction/training to credential each individual considered as “authorized” for *machinery room* access. In the case of authorizing contractors or other outside personnel, the owner is obligated to inform a representative from the contractor’s organization or other outside personnel of hazards within the space, alarms & emergency action planning, and to ensure they have appropriate training for the work they are expected to conduct within the space. The informed contractor or other outside personnel is then responsible to ensure all of its employees who will conduct work on-site have been trained according for authorization. In cases where non-authorized personnel require access to the space, such as AHJs, consultants, etc., authorized facility personnel can serve as their escort during periods where they must access the *machinery room*.



**BSR/ASHRAE Addendum ac to
ANSI/ASHRAE Standard 15-2022**

First Public Review Draft

**Proposed Addendum ac to
Standard 15-2022, Safety Standard for
Refrigeration Systems**

**First Publication Public Review (August, 2024)
(Draft shows Proposed Changes to Current Standard)**

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

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First Public Review Draft

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FOREWORD

This proposed Addendum ac to ASHRAE Standard 15-2022 updates Section 7.6.2.5(d) to resolve an internal conflict within the standard. Section 7.6.3.3 of the standard states that it is acceptable to use hot surfaces exceeding 1290°F (700°C) so long as there is a minimum face velocity of 200 ft/min. The requirement is based on experimental testing that demonstrated the difficulty in igniting refrigerant with sufficient airflow. Unfortunately, in Section 7.6.2.5(d) the standard requires de-energizing the hot surface even though Section 7.6.3.3 states the installation is acceptable provided that there is sufficient airflow. This is problematic for cold climates where disabling a heating source could present a life safety issue. The solution is to only require disabling devices not complying with Section 7.6.3.3. This is also the solution that was adopted by ASHRAE Standard 15.2-2022 and this change harmonizes the two standards.

Note: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~striking through~~ (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 ac to Standard 15-2022

Modify Section 7 as follows. The remainder of Section 7 remains unchanged.

7.6.2.5* Mitigation Action Requirements. The following *mitigation actions shall* be completed in not more than 15 seconds after the initiation of the output signal of Section 7.6.2.4(g), and *shall* be maintained for at least 5 minutes after the output signal has reset:

- a. [...]
- b. [...]
- c.* [...]
- d. De-energize electric resistance heat installed in ~~the~~ an air duct that is connected to the refrigeration system unless in accordance with Section 7.6.3.3.
- e.* [...]
- f.* [...]



**BSR/ASHRAE Addendum g
to ANSI/ASHRAE Standard 147-2019**

Public Review Draft

**Proposed Addendum g to
Standard 147-2019, Reducing the Release
of Halogenated Refrigerants from
Refrigerating and Air-Conditioning
Equipment and Systems**

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

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BSR/ASHRAE Addendum g to ANSI/ASHRAE Standard 147-2019, *Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems*
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FOREWORD

This addendum makes additions and changes to the standard. These changes are necessary to improve the usage and readability of the standard and make adjustments as required to comply with the new TPS as approved in addendum f.

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

Addendum g to Standard 147-2019

Revise Section 3 definitions, as shown below

joint, brazed: a gas-tight joint obtained by joining metal parts with alloys that melt at temperatures higher than ~~800~~ 840°F (426 449°C) but less than the melting temperatures of the joined parts.

joint, soldered: a gas-tight joint obtained by joining metal parts with metallic mixtures or alloys that melt at temperatures between 400°F and ~~800~~ 840°F (204°C and 426 449°C).

pressure, design: the maximum allowable working pressure for which a specific part of a system is designed to operate under normal or abnormal conditions, as defined in a relevant standard such as UL 1995, *Heating and Cooling Equipment*[†]. ~~the maximum gage pressure for which a specific part of a refrigerating system is designed.~~

pressure, high: as applied to ~~refrigeration~~ refrigerating systems, this term refers to gage pressure at room temperature (74°F [23.3°C]) that is typically more than 100 psig (689 kPa gage). Common high-pressure refrigerants include ~~R-22, R-502, R-404A, R-407A, R-407C, R-410A, R-32, R-454B,~~ and R-507A.

pressure, low: as applied to ~~refrigeration~~ refrigerating systems, this term refers to absolute pressure at room temperature (74°F [23.3°C]) that is below absolute ambient pressure. Low-pressure refrigerants include ~~R-11, R-113 and R-123~~ R-514A and R-1336mzz(Z).

pressure, medium: as applied to ~~refrigeration~~ refrigerating systems, this term refers to gage pressure at room temperature (74°F [23.3°C]) that is greater than atmospheric pressure but typically less than 100 psig (689 kPa gage). Common medium-pressure refrigerants include ~~R-12, R-500, R-134a, R-513A, R-513B, R-1234ze(E),~~ and R-245fa.

vacuum, deep (high vacuum): a vacuum of ~~1000~~ 500 $\mu\text{m Hg}$ (130Pa) 500 $\mu\text{m Hg}$ (0.02 inHg) or less of absolute pressure.

Revise Section 4 as shown below to break up Section 4.1 into multiple sub sections.

4.5.1 Minimized Connections. Systems shall be designed in such a manner as to minimize the number of fittings and connections. Tapered pipe threads shall not be used for fittings in refrigerant circuits unless the threads are back welded or sealed by equally effective means. Single flare copper fittings shall not be used on cooling only refrigeration systems or refrigeration systems whose normal design is less than 40°F (4.4°C) saturated suction temperature. Where flare fittings are used, they shall be tightened to manufacturer's torque specifications.

BSR/ASHRAE Addendum g to ANSI/ASHRAE Standard 147-2019, *Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems*
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4.5.2 Tapered pipe threads. Tapered pipe threads shall not be used for fittings in refrigerant circuits unless the threads are back welded or sealed by equally effective means.

4.5.3 Single-flare fittings. Single-flare fittings shall not be used on cooling-only refrigeration systems or refrigeration systems whose normal design is less than 40°F (4.4°C) saturated suction temperature. Where flare fittings are used, they shall be tightened to manufacturer's torque specifications.

4.6. Isolation Valves section c: The valve meets the requirements of Section 6.2.4 for type 1 equipment.

4.9.1 Subatmospheric Pressure. Purging devices shall be provided for Equipment Types 7, 8, and 10 that have any portion of the system that operates at subatmospheric pressure. New equipment designs shall specify purging devices that release less than one unit mass of refrigerant per unit mass of air as tested by AHRI Standard 580, *Non-Condensable Gas Purge Equipment for Use with Low Pressure Centrifugal Liquid Chillers*⁵.

Revise Section 5 as shown below

5. PRODUCT DEVELOPMENT

This section of the standard describes compliance requirements for products during their development and evaluation phase.

5.2 Refrigerant Handling. ~~The laboratory development or evaluation facility shall be equipped with a recovery/recycling system and storage capacity for a holding charge recovered from any individual test unit in the laboratory. When servicing of a recovery/recycling unit is required, refrigerant in the unit shall be recovered and recycled or reclaimed in the same manner as that from test systems.~~

5.2.1 Recovery. ~~Upon testing completion of tests, the refrigerant shall be recovered from an experimental the system. It is recognized that sometimes the recovered refrigerant must first be put into a container to determine or confirm charge levels, but ultimately all refrigerant shall be recovered into appropriate storage devices as required under Section 10. Refrigerant that is known to be contaminated (for example, with a motor burnout) shall be recovered into proper containers and recycled, reclaimed, or disposed of as described in Section 9.~~

5.2.2 Inventory Record. A refrigerant inventory record shall be maintained to account for virgin material received into the ~~laboratory development or evaluation facility~~ and material shipped for reclaim or destruction. This inventory must include the types and quantities of refrigerant received and shipped for reclamation or destruction and the dates of receipt and shipment.

Revise Section 6 as shown below

Table 6-1 Equipment Manufacture Leak Threshold Limits

Equipment Type	Description	Leak Rate Measurement Threshold	Leak Location Method Threshold
Type 1	Component	0.1 oz/year (2.8 g/year)	0.1 oz/year/joint (2.8 g/year/joint)
Type 2	Small assembly	0.5 oz/year (14.2 g/year)	0.1 oz/year/joint (2.8 g/year/joint)
Type 3	Large assembly	1.0 oz/year (28.3 g/year)	0.1 oz/year/joint (2.8 g/year/joint)
Type 4	Appliance	1.0 oz/year (28.3 g/year)	0.1 oz/year/joint (2.8 g/year/joint)

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Type 5	Small packaged	3.0 oz/year (<u>85.0 g/year</u>)	0.1 oz/year/joint (<u>2.8 g/year/joint</u>)
Type 7	Large packaged	Greater of 15 oz/year (<u>425g/year</u>) or 0.25% of the charge	0.1 oz/year/joint (<u>2.8 g/year/joint</u>)
Type 8	Large assembled	Greater of 15 oz/year (<u>425g/year</u>) or 0.25% of the charge	0.1 oz/year/joint (<u>2.8 g/year/joint</u>)

6.4 Evacuation. Systems shall be evacuated to 500 μ Hg (~~65Pa~~ 0.020 inHg) or less and held long enough to remove detrimental moisture as defined by the manufacturer.

Revise Section 7 as shown below

7.1.1 **General.** All piping, tubing, and connections shall be installed as required by Section 4.5 and ASHRAE Standard 15.

7.1.2.2 All tubes and fittings shall be thoroughly cleaned prior to assembly. Both the outside of copper tube and the inside of fittings must be bright and clean before brazing. Braze filler metal selection shall be consistent with the types of materials being joined and as specified in the installation manual. ~~Solder filler material with a melting point less than 800°F (426°C) shall not be used with copper to copper or copper to steel joints. Solder filler material with a melting point less than 715°F (379°C) shall not be used with copper to aluminum or aluminum to aluminum joints~~

7.1.2.7 ~~The~~ Any brazing process shall be purged with inert gas to prevent oxidation, which can cause plugged driers, filters, and strainers; dirty oil; and compressor failure.

7.2 Field Leak Testing. Equipment Types 6, 8, 9, and 10 shall be leak tested as an Equipment Type 8 per Section 6.2~~4~~ to ensure system integrity and minimize refrigerant leakage.

Revise Section 8, as shown below

8.1.5 **Oil Removal.** Before oil is removed from a compressor, the oil sump heater if present (~~if the compressor is so equipped~~) shall be turned on, and the oil sump refrigerant pressure shall be ~~repetitively~~ reduced by via safe and correct recovery or by pumpdown to 0 psig (0 kPa gage) or below until such time that the oil sump pressure does not noticeably rise within ten minutes of terminating the pressure reduction

Revise Section 11 as shown below to add a normative reference

22 International Organization for Standardization. (2017) ISO 17025 General requirements for the competence of testing and calibration laboratories. Third edition. Washington, DC.



**BSR/ASHRAE Addendum h
to ANSI/ASHRAE Standard 147-2019**

Public Review Draft

**Proposed Addendum h to
Standard 147-2019, Reducing the Release
of Halogenated Refrigerants from
Refrigerating and Air-Conditioning
Equipment and Systems**

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

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FOREWORD

This addendum makes additions and changes to Section 9 and Section 10 of the standard. These changes are necessary to improve the usage and readability of the standard, make adjustments as required to comply with the new TPS as approved in addendum f, to comply with EPA, and to remove information that is no longer relevant.

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Addendum h to Standard 147-2019

Revise Section 9 as shown below.

9. REFRIGERANT RECOVERY ~~REUSE,~~ AND DISPOSAL

This section gives the requirements for recovery ~~reuse,~~ and disposal of refrigerant from refrigerating and air-conditioning equipment and systems.

9.1 **General.** Refrigerant used in any type of air-conditioning or refrigerating equipment shall be recovered and reused in the owner's equipment, or it shall be shipped in proper containers to a reclamation or destruction facility ~~whenever~~ after it is removed from equipment. It shall not be released to the atmosphere unless explicitly allowed per all applicable local and national regulations.

9.1.1 **Recovery Equipment.** Refrigerant recovery equipment shall comply with UL 1963, *Standard for Refrigerant Recovery/Recycling Equipment* and per AHRI 740.

9.2 **Refrigerant Transfer and Transport, ~~and~~ Storage.** Refrigerant withdrawn from a system or equipment shall be transferred to an appropriate pressure vessel for storage on site or transport to another site. ~~Disposable refrigerant containers, including those identified as complying with the U.S. Department of Transportation (USDOT) Specification 39-17, shall not be reused under any circumstances.~~

9.2.1 Disposable refrigerant containers, including those identified as complying with the U.S. Department of Transportation (USDOT) Specification 39¹⁷, shall not be reused under any circumstances.

~~9.2.1.1 Color-Coded Containers.~~ Refrigerant shall be transferred to a container that has been identified by the color code for the refrigerant, as specified in AHRI Guideline K, *Containers for Recovered Non-Flammable Fluorocarbon Refrigerants* 18, and shall comply with appropriate USDOT regulations for refillable containers.

BSR/ASHRAE Addendum h to ANSI/ASHRAE Standard 147-2019, *Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems*
First Public Review Draft

~~9.2.3 Storage. Refrigerant shall be stored in a safe manner in accordance with local laws and regulations. The storage site shall be dry and protected from weather to minimize corrosion of refrigerant containers. Containers (except those designed for outdoor storage of refrigerant) shall not be stored in direct sunlight (see also Section 10.2) or in close proximity to a heat source.~~

~~9.2.3.1 Storage of Flammable Refrigerants. Storage of Class 2L, 2, and 3 refrigerants shall comply with NFPA 55, Compressed Gases and Cryogenic Fluids Code, and International Fire Code (IFC) Chapter 58, "Flammable Gases and Flammable Cryogenic Fluids."~~

Revise Section 10, Handling and Storage of Refrigerants, as shown below

10.2 Storage. Refrigerant shall be stored in a safe manner in accordance with local laws and regulations. The storage site shall be dry and protected from weather to minimize corrosion of refrigerant containers. Containers (except those designed for outdoor storage of refrigerant) shall not be stored in direct sunlight or in close proximity to a heat source.

10.2.1 Storage of Flammable Refrigerants. Storage of Class 2L, 2, and 3 refrigerants shall comply with NFPA 55, Compressed Gases and Cryogenic Fluids Code, and International Fire Code (IFC) Chapter 58, "Flammable Gases and Flammable Cryogenic Fluids."

10.2.2 Refrigerant Container Design. Portable Refrigerant containers shall be constructed to meet USDOT packaging requirements as required by 49 CFR, Part 178¹⁷.

10.2.3 Containers for Recovered Refrigerants. Pressure cylinders for recovered nonflammable fluorocarbon refrigerants shall be of refillable design, which includes a properly set relief valve and a valve guard (49 CFR, Part 178¹⁷).

July 2024 Draft for Public Review

PASE-20XX, Safety Standard for Portable Automotive Service Equipment
(Proposed Revisions of ASME PASE-2019)

TENTATIVE
SUBJECT TO REVISION OR WITHDRAWAL
Specific Authorization Required for Reproduction or Quotation
ASME Codes and Standards

July 2024 Draft
PASE-20XX

Record 20-1459

5-1.2 Configuration

(a) mechanical screw jacks consisting of concentric telescoping screws, or a single screw, that actuate an adapter or saddle, extended and retracted by a gear system, for engaging a load

5-4.1 Load Tests

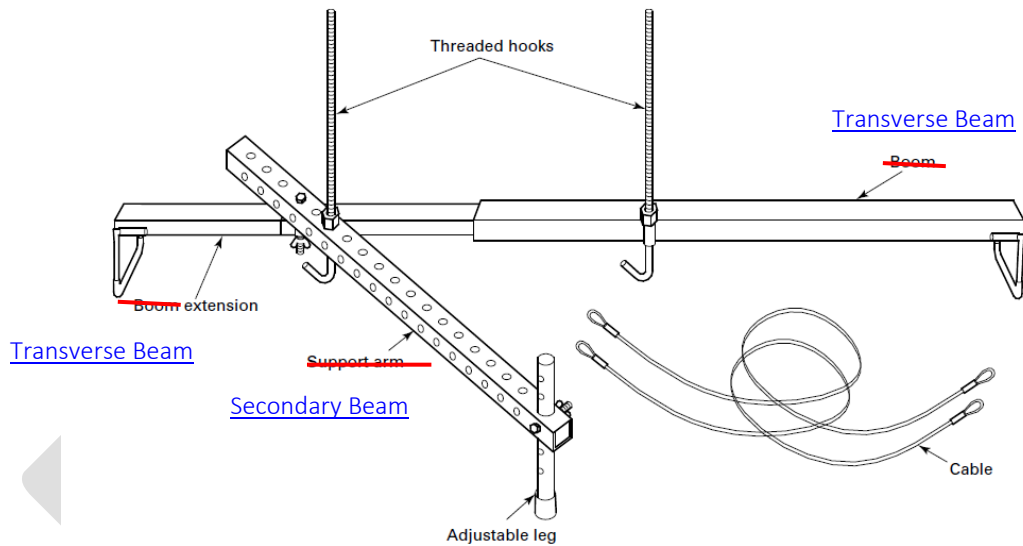
Each jack's ability to sustain a load and limit a load shall be tested by applying a load centrally to the saddle or adapter with the lifting mechanism positioned as follows and using the jack's actuating handle to raise and lower the load over the entire range of the jack.

18-1.2 Configuration

Portable hydraulic power kits covered by this Part typically include hydraulic pumps, hoses, cylinders, feet, adapters, and spreaders used in conjunction with extension tubes and adapters, which may be assembled in various configurations. An example of a typical kit is

...

Figure 19-1.3-1 Typical Engine Support Tools



Public Review 3

National Emergency Number Association (NENA) Security for Next Generation 9-1-1 Standard (NG-SEC), NENA-STA-040.2-202Y

For Public Review 3, only the underlined and strikethrough revisions stated below are available for public comment. Items underlined are new or revised text while ~~strikethrough~~ indicates a removal of text. Content without an underline or strikethrough is included for context only.

Comments can be submitted to NENA at https://dev.nena.org/higherlogic/ws/public/document?document_id=33595&wg_id=a7040bd0-f995-4d50-a313-0a3e5f2f2841.

Please send any questions to Sandy Dyre, NENA Committee Resource Manager, at CRM@nena.org.

Section 3.1 Overview

Security and Risk Management Domain

A Security and Risk Management Domain focuses on the areas that apply to the ~~functional and non-functional~~ implementation of components, services, and systems that protect the perimeter of a NG9-1-1 system. This domain contains the deployment of such things as physical security, firewalls, system hardening and intrusion protection.

Section 4.2.2 Information Classification Guidelines

All data within an NG9-1-1 Entity has a value and should be considered an asset across all functional and operational units. Therefore, all data needs to be protected just like any other physical or operational asset. NG9-1-1 systems use a standardized Data Rights Management system defined in STA-010 **Error! Reference source not found.** which allows each interface, each data object and/or element in a data object to be restricted by a standard data rights management policy created by an agency. Other computerized systems may have different data rights management systems. Where data is manually managed, data must be classified as described below and manual policies created that control access to data by classification. This section is intended to serve as a guideline to classifying and accessing data not managed by a more sophisticated data rights management system. This section is intended to serve as a guideline to classifying and accessing data not managed by a more sophisticated data rights management system. NG9-1-1 Entities should ensure they comply with all applicable laws and regulations. There are some exemptions to data protection when used for emergency services since the drawbacks of disclosing personal data are outweighed by the benefit for the emergency caller.

Section 4.2.2.1 Classification Levels

WARNING: There may be copyright, local legislation, or other legal requirements that apply to some collections of data. Check with your local legal counsel for clarification.

- The Data Protection Policy SHALL specify the different classification levels of data not covered by a more comprehensive data rights management system for the Entity. In this section, the term "classified data" means data not controlled by a data rights management system.
- The Data Protection Policy SHALL define which classifications levels the Entity believes are not subject to the Freedom of Information Act (FOIA) **Error! Reference source**

not found. or similar laws **Error! Reference source not found. Error! Reference source not found..**

- All classified data SHALL be assigned a classification level according to the highest sensitivity of any information in that data set.
- All access to information by any service provider, vendor, NG9-1-1 Entity employee or contractor SHALL comply with applicable codes of conduct, policies, contracts, laws, and regulations.
- Persons not authorized to view or modify information SHALL be prohibited from viewing or modifying information.
- Persons who are not NG9-1-1 Entity employees (e.g., contractors, suppliers, or vendors) SHALL have appropriate contractual agreements in place that establish their relationship to a NG9-1-1 Entity and authorize their access to NG9-1-1 Entity resources prior to being granted access to information of any classification other than Public.
- Access to sensitive information SHALL be reviewed at least annually.

The following are the minimum recommended classification levels for classified data for a NG9-1-1 Entity.

4.2.2.5 Protecting Sensitive Information

- To protect NG9 1 1 Entity data, policies SHALL define how each classification level of classified data is to be handled and protected relevant to the three states of data defined below.

Section 6.7 Device Protections

Device protections help protect NG9-1-1 system assets from loss, compromise, or damage. These could be from things like natural disasters, connection of unauthorized devices, or the physical loss of Sensitive Data as well as attacks from within the network.

Section 6.10 Firewalls

Firewall functions monitor traffic passing through them and allow or deny that traffic based on a set of user-defined rules. They typically sit at the edges of a network, at the border of network segments, and on host systems. As perimeter defense, firewalls are important but ~~MUST NOT~~ are not sufficient to provide sole protection for NG9-1-1 systems ~~be relied upon to provide the sole protection.~~ Rather, the systems inside the network must be intrinsically secure, with the firewall providing an additional layer of protection. In some cases, firewalls can be bypassed in an attack. Inside attacks, often enabled by a phishing attempt or other compromise of an individual or system have become a more commonly observed attack for which firewalls may not provide protection.

Section 6.10.2 Session Border Controller

A Session Border Controller (SBC) is a security element that operates similarly to a firewall but the SBC is primarily designed to handle SIP and media. Traditional firewalls can only allow or block SIP traffic whereas an SBC can anchor SIP signaling and media. The SBC can act as a gateway to manipulate a session to translate between formats allowing different devices to communicate. SBC's can inspect the session and apply security policies. As a type of firewall intended to provide perimeter defense, SBCs are important but are not sufficient to provide sole protection for NG9-1-1 systems. Rather, the systems inside the network must be intrinsically secure, with the SBC providing an additional layer of protection.

As with other firewalls, as perimeter defense, SBCs are important but ~~MUST NOT~~ are not to be

relied upon to provide the sole protection. Rather, the systems inside the network must be intrinsically secure, with the SBC providing an additional layer of protection.

Section 6.19 Endpoint Security

An endpoint is a computing device that communicates with one or more other devices that may or may not be on a NG9 1 1 network. These are things like ~~workstations-computers,~~ smartphones, tablets, internet-of-things devices, or network components like firewalls, routers, switches, gateways, or sensors. In essence, everything that is plugged into or connected to a NG9-1-1 system that has some sort of processing capabilities. Endpoints are what allow a NG9-1-1 system to function, employees to accomplish day-to-day activities, and, unfortunately, where malicious actors perform their actions.

Hardening an endpoint decreases the risk that an endpoint will be exploited. Device hardening may help protect against threats such as URL manipulation attacks, input validation attacks from within, denial of service attacks, brute force attacks, session hijacking, clickjacking, port scanning, etc.

Hardening endpoints involves deleting or disabling programs, applications, ports, protocols, drivers, etc. that are not required. It also involves things like updating and patching the device's firmware and software, access controls such as restricting permissions to system files and data, encrypting storage, logging, following robust authentication and authorization for all services, ~~strong authentication/password practices~~ active threat monitoring, and ensuring implementation of modern endpoint protection software. In essence, only allow what is needed for the device to perform its intended function and delete or block everything else. This takes time, and when possible, should be performed on a master image that can be replicated to other similar devices.

It is important to note that backup and recovery procedures are separate from hardening, but they are equally important and should not be overlooked. See sections **Error! Reference source not found.** and **Error! Reference source not found.** for details.

Endpoint protection software implements safeguards to protect devices against attack (e.g., antivirus, antispyware, antiadware, personal firewalls, host-based intrusion detection and prevention systems, etc.).

For more information on endpoint protection software see NIST SP 800-128 0.

Section 7 Abbreviations, Terms, and Definitions

Classified Data	<u>In this document, the term "classified data" means data not controlled by a data rights management system.</u>	
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Section 8 References

[41] National Institute of Standards and Technology. *NIST Special Publication NIST SP 800-128, Guide for Security-Focused Configuration Management of Information Systems, August 2011.*

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

NSF/ANSI Standard
for Food Equipment –

Manual Food and Beverage Dispensing Equipment

•

5 Design and construction

This section contains design and construction requirements for equipment covered within the scope of this standard.

•

5.1.4 Food zones for which CIP is intended shall be designed and manufactured so that cleaning and sanitizing solutions may be circulated or passed throughout the fixed system. The design shall ensure that cleaning and sanitizing solutions contact all food contact surfaces. The system shall be self-draining or capable of being completely evacuated. Equipment and appurtenances designed for CIP shall have a section of the cleaned area accessible for inspection or shall provide for other acceptable inspection methods. The manufacturer shall provide written instructions for the cleaning and sanitizing of all food zone surfaces for which CIP is intended. The type and concentration of sanitizing agent recommended in the instructions by the manufacturer shall comply with 40 C.F.R. § 180.940. Error! Bookmark not defined.

~~NOTE — CIP procedures are not required for fat / oil filter systems that circulate filtered fat or oil throughout the fixed system.~~

5.1.4.1 CIP procedures are not required for fat / oil filter systems that circulate filtered fat or oil throughout the fixed system.

5.1.4.2 Equipment for which automatic integral CIP is intended shall have a drain that enables the equipment to be plumbed to waste.

5.1.4.3 Components with a drain shall be:

- self-draining
- provided with a standard plumbing industry drain connection
- if gravity drain, then connection shall be for piping no less than ½” internal diameter.

***Ballot Rationale:** NSF / ANSI 2 requires beverage stands to have a plumbed drip tray, but this requirement is not present for dispensing equipment certified under Standards 4 and 18. Many regulatory agencies require equipment using automatic cleaning cycles be plumbed to waste.*

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NSF/ANSI International Standard for Biosafety Cabinetry —

Biosafety Cabinetry: Design, Construction, Performance, and Field Certification

-

6.4 Noise level

6.4.1 The noise level shall be determined with the cabinet operating at the nominal set point velocities.

6.4.2 The overall noise level ~~42~~ 14 in (300 ~~360~~ mm) in front of the cabinet top of the access opening and 45 ~~4~~ in (380 ~~100~~ mm) above the ~~plane of the work surface~~ top of the access opening at the side-to-side vertical centerline of the cabinet shall not exceed:

- 67 dBA with a maximum background level of 57 dBA (biosafety cabinets with an access opening less than 12 in (300 mm)).

- 69 dBA with a maximum background level of 59 dBA (biosafety cabinets with an access opening greater or equal to 12 in (300 mm)).

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N-1.3 Noise level test

N-1.3.1 Purpose

This test provides a uniform method for measuring the noise level produced by the cabinet. The methods can be performed in most acoustically ordinary rooms, such as a factory, where walls are neither sound absorbing nor completely sound reflecting. The cabinet shall be operated at the manufacturer's recommended nominal set points ± 2 ft/min (0.01 m/s).

N-1.3.2 Apparatus

The measuring instrument shall be a type / Class 1 sound level meter with a minimum range of 50 to 100 dB and an "A" weighting scale set up in accordance with the manufacturer's instructions.

N-1.3.3 Method

- a) Turn on the cabinet blower and lights.
- b) Set the instrument to the "A" weighting mode.
- c) Position the noise level meter ~~42~~ 14 in (0-30 ~~m~~ 300 mm) in front of the cabinet front edge sash at the top of the access opening and 45 ~~4~~ in (0-38 ~~m~~ 100 mm) above the ~~plane of the work surface~~ top of the access opening, in line with the side-to-side vertical centerline of the cabinet (see Figure 12).

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- d) Measure the gross noise level.
- e) Measure the background noise level with the cabinet blower(s) and light(s) off and, if applicable, the exhaust blower on.
- f) Correct the gross noise level in accordance with curves or tables provided in the instrument operator's manual to determine the net noise level.

N-1.3.4 Acceptance

Biosafety cabinets with an access opening less than 12 in (250 mm): The net noise level in front of the cabinet shall not exceed 67 dBA.

Biosafety cabinets with an access opening greater or equal to 12 in (250 mm): The net noise level in front of the cabinet shall not exceed 69 dBA.

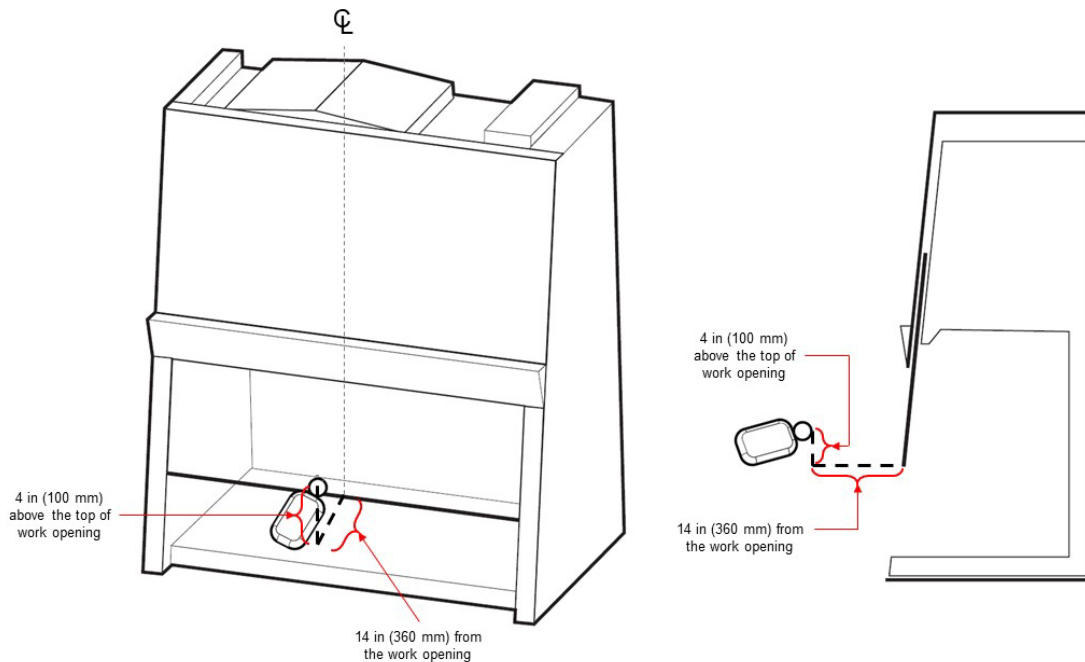


Figure 12
Noise level test

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N-5.11 Noise level tests

N-5.11.1 Purpose

This test is performed to measure the noise levels produced by the cabinet as a guide to satisfactory mechanical performance and an aid in minimizing cabinet operator's fatigue. The procedures can be performed in most acoustically ordinary rooms, such as a factory, where walls are neither sound absorbing nor completely sound reflecting.

N-5.11.2 Apparatus

A-type / Class 2 sound level meter with a minimum range of at least 50 to 100 dB and an "A" weighing scale set up in accordance with the manufacturer's instructions.

N-5.11.3 Method

- a) Operate the cabinet within 5 ft/min (0.025 m/s) of the nominal set point with lights on.
- b) Set the instrument to the "A" weighting mode.
- c) Position the noise level meter 42 14 in (300 360 mm) in front of the sash at the top of the access opening cabinet (front edge of the access opening) and 45 4 in (380 100 mm) above the top of the access opening plane of the work surface, in line with the side-to-side vertical centerline of the cabinet (Annex N-1, Figure 13).
- d) Measure the gross noise level.
- e) Measure the background noise level with the cabinet blower(s) and light(s) off and, if applicable, the exhaust blower on.
- f) Correct the gross noise level in accordance with curves or tables provided in the instrument operator's manual to determine the net noise level.
- g) Reported values shall be:
 - gross sound level reading (cabinet sound level before correcting for background);
 - background sound level reading (with cabinet turned off);
 - net sound level;
 - pass or fail; and
 - name of test (noise level tests).

N-5.11.4 Acceptance

Biosafety cabinets with an access opening less than 12 in (300 mm): The net cabinet noise level in front of the cabinet shall not exceed 70 dBA.

Biosafety cabinets with an access opening greater or equal to 12 in (300 mm): The net cabinet noise level in front of the cabinet shall not exceed 72 dBA.

Rationale: the issue proponent argued use of the old term 'front edge' was ambiguous. The TG was convened and

Tracking #49i177r3
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Revision to NSF/ANSI 49 – 2022
Issue 177, Revision 3 (July 2024)

discussed additional language to make the tests more objectively worded as well.

**BSR/UL 60335-2-34, Standard for Safety for Household and Similar Electrical Appliances
- Safety - Part 2-34: Particular requirements for motor-compressors**

1. ANSI approval of the 7th edition of UL 60335-2-34.

1DV DR Modification by replacing Clause 1 of the Part 2 with the following:

This International Standard deals with the safety of sealed (hermetic and semi-hermetic type) MOTOR-COMPRESSORS, their protection and control systems, if any, which are intended for use in equipment for household and similar purposes and which conform with the standards applicable to such equipment. It applies to MOTOR-COMPRESSORS tested separately, under the most severe conditions that may be expected to occur in normal use, their rated voltage being not more than 15 000 V, single or multi-phase and direct current (DC). MOTOR-COMPRESSORS covered by this standard are intended for use in accordance with:

- CSA C22.1, *Canadian Electrical Code, Part I*, in Canada;
- NFPA 70, *National Electrical Code (NEC)*, in the United States.

This standard is unique in that it applies to MOTOR-COMPRESSORS which are components used within an end-use appliance having its own safety certification standard. Thus, this standard does not distinguish whether a specific MOTOR-COMPRESSOR is intended for use in household, commercial, or industrial applications. MOTOR-COMPRESSOR usage is defined by the end-use standard.

NOTE: For MOTOR-COMPRESSORS with a rated voltage from 600 to 15 000 V volts shall use Annex 101.DVI together with other relevant requirements in this standard for guidance.

This standard also covers

- multi-speed MOTOR-COMPRESSORS, that are MOTOR-COMPRESSORS, the speed of which can be set to different values;
- variable capacity MOTOR-COMPRESSORS, that are MOTOR-COMPRESSORS where the capacity of the compressor is controlled at fixed speeds;
- MOTOR-COMPRESSORS used in an appliance not intended for normal household use but which nevertheless can be a source of danger to the public. These appliances are intended to be used by lay people in shops, in light industry, farms, and similar applications.

NOTE 101 Examples of equipment which contain MOTOR-COMPRESSORS are

- tumble dryers (IEC 60335-2-11);
- refrigerating appliances, ice-cream appliances and ice-makers (CSA C22.2 No. 60335-2-24/ UL 60335-2-24);
- electrical heat pumps, air-conditioners, and dehumidifiers (CSA C22.2 No. 60335-2-40/ UL 60335-2-40);
- commercial dispensing appliances and vending machines (IEC 60335-2-75);
- commercial refrigerating appliances and ice makers with an incorporated or remote refrigerant unit or compressor (CSA C22.2 No. 60335-2-89/ UL 60335-2-89).
- electrical equipment for measurement, control, and laboratory use (CSA C22.2 No. 61010-2-011/ UL 61010-2-011);
- professional ice-cream makers (IEC 60335-2-118);
- refrigerating systems and heat pumps (ISO 5149-2).

This standard does not supersede the requirements of standards relevant to the particular appliance in which the MOTOR-COMPRESSOR is used. However, if the MOTOR-COMPRESSOR type used complies with this standard, the tests for the MOTOR-COMPRESSOR specified in the particular appliance standard may not need to be made in the particular appliance or assembly. If the MOTOR-COMPRESSOR CONTROL SYSTEM is associated with the particular appliance control system, additional tests could be necessary on the final appliance.

So far as is practical, this standard deals with the common hazards presented by MOTOR-COMPRESSORS used in appliances which are encountered by all persons in and around the home. However, it does not in general take into account

- the use of appliances by young children or infirm persons without supervision;
- playing with the appliances by young children.

NOTE 102 Attention is drawn to the fact that

- this standard is unique in that it applies to MOTOR-COMPRESSORS which are components used within an end-use appliance having its own safety certification standard. Thus, this standard does not distinguish whether a specific MOTOR-COMPRESSOR is intended for use in household, commercial or industrial applications. MOTOR-COMPRESSOR usage is defined by the end-use standard.
- for MOTOR-COMPRESSORS intended to be used in appliances in vehicles or on-board ships, additional requirements could be necessary;
- in many countries, additional requirements are specified by the national health authorities, the national authorities responsible for the protection of labour and similar authorities.

7.1ADV.2 DR Modification of Clause 7.1 of the Part 1 to add the following after the eighth dashed item:

- MOTOR-COMPRESSOR locked rotor amperage (LRA) rating(s) for a MOTOR-COMPRESSOR in which protection is other than that provided by either a PROTECTIVE ELECTRONIC CIRCUIT or an ADJUSTABLE SPEED DRIVE having a PROTECTIVE ELECTRONIC CIRCUIT. If motor winding switching or alternate motor wiring options cause or allow different LRA, the highest resulting LRA shall be marked;
- MAXIMUM RATED CURRENT (MRC) for MOTOR-COMPRESSORS intended to be controlled or protected by a PROTECTIVE ELECTRONIC CIRCUIT or an ADJUSTABLE SPEED DRIVE having a PROTECTIVE ELECTRONIC CIRCUIT. This MRC shall be the maximum current value as measured during Clause AA.3 or Clause 101.DVM.4 testing; or if Clause AA.3 or Clause 101.DVM.4 testing is not conducted, the MRC shall be the current rating of the MOTOR-COMPRESSOR CONTROLLING DEVICE if a PROTECTIVE ELECTRONIC CIRCUIT or ELECTRONIC CIRCUIT is part of the controlling device.

Note 1: Marking the LRA rating(s) is appropriate for an electronically controlled MOTOR-COMPRESSOR in which the electronic control is not relied upon (e.g., bypassed or removed from circuit) for compliance with the test of Clause 19.101DV.1.

Note 2: The MAXIMUM CONTINUOUS CURRENT (MCC) determined in Annex 101.DVH or Clause 101.DVM.4 is not required to be marked.

Note 3: MOTOR-COMPRESSORS employing a thermal protection component, or device, or electronic protection utilizing a thermal protection component(s) are not required to mark the MRC if the thermal protection component or device is relied upon for compliance with this standard since they are considered thermally protected systems.

19.1DV.2 A MOTOR-COMPRESSOR having an INCORPORATED OR ASSOCIATED ADJUSTABLE SPEED DRIVE provided with a PROTECTIVE ELECTRONIC CIRCUIT which is required for compliance with Clause 19 shall be subjected to the relevant tests in Clause 19.1DV.1 unless the

a) PROTECTIVE ELECTRONIC CIRCUIT complies with one of the following:

- 1) relevant requirements within this standard, including the software requirements in Annex R;

- 2) UL 61800-5-2 with a safety integrity level (SIL) of 2 or higher;
- 3) CSA C22.2 No. 0.8 with a Class B or Class C control function; or
- 4) Annex H of UL 60730-1 or CSA E60730-1 with a Class B or Class C control function; or

b) ADJUSTABLE SPEED DRIVE complies with UL 61800-5-1 and CSA C22.2 No. 274, in which the ADJUSTABLE SPEED DRIVE is

- 1) marked "For equipment incorporating overload protection"; and
- 2) protected by an overload protective device that is responsive to MOTOR-COMPRESSOR current and will trip at not more than 140% of the MAXIMUM RATED CURRENT (MRC) of the MOTOR-COMPRESSOR.

NOTE MOTOR-COMPRESSORS controlled by an ADJUSTABLE SPEED DRIVE having the protection specified in Items 19.1DV.2 a) 2) to 4) and or b) fulfill the single-fault requirements in Clauses 19.11.2 and 19.11.3 and the software requirements in Clause 22.46.

24.102DV.2.1 The short circuit tests on the protective device may be waived if the PROTECTIVE DEVICE complies with one of the following a) to d)

a) is located inside the MOTOR-COMPRESSOR HOUSING;

b) is located in the center of the wye in three-phase wye-connected MOTOR-COMPRESSORS whether inside or outside of the MOTOR-COMPRESSOR.

c) is located within a MOTOR-COMPRESSOR terminal enclosure made of metal or complying with Clause 30.101DV and in which:

- 1) tools are required for the removal of the terminal enclosure or cover; and
- 2) there are no openings in the terminal enclosure that could allow either the emission of flames or the dropping of molten materials outside of the terminal enclosure; or

d) has been evaluated in accordance with Clauses 27.7DV.1.5 to 27.7DV.1.7 of the Part 1, using the relevant North American component standard specified in Annex DVA.

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