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# Project Initiation Notification System (PINS)

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

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

Jerry Yeh <[jjeh2@ahrinet.org](mailto:jjeh2@ahrinet.org)> | 2311 Wilson Boulevard, Suite 400 | Arlington, VA 22201 [www.ahrinet.org](http://www.ahrinet.org)

### Revision

BSR/AHRI Standard 220-202x (SI/I-P), Reverberation Room Qualification and Testing Procedures for Determining Sound Power of HVAC Equipment (revision of ANSI/AHRI Standard 220-2022)

Stakeholders: Groups and individuals known to be, or who have indicated that they are, directly and materially affected by the standard, including manufacturers, testers, regulators and trade or professional organizations.

Project Need: Potential advancements in qualification procedure and in the industry require review of the standard for revisions.

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

This standard applies to HVAC products where sound power is determined by measurement using the comparison method in a reverberation room that meets the qualification requirements as defined in Section 4 of this standard.

## ASTM (ASTM International)

Laura Klineburger <[akcreditation@astm.org](mailto:akcreditation@astm.org)> | 100 Barr Harbor Drive | West Conshohocken, PA 19428-2959 [www.astm.org](http://www.astm.org)

### New Standard

BSR/ASTM E3149-202x, Guide for Facial Image Comparison Feature List for Morphological Analysis (new standard)  
Stakeholders: Digital and Multimedia Evidence Industry

Project Need: This guide defines a set of facial components, characteristics, and descriptors to be considered during a morphological facial comparison (see FISWG Best Practices for Facial Image Comparison Feature List for Morphological Analysis).

Interest Categories: Producer, User, General Interest

Morphological analysis used for facial comparison should utilize consistent terminology and methodology. This guide provides a standard set of facial components, characteristics, and descriptors to be used as a framework in conjunction with a systematic method of analysis for facial image comparison.

**ASTM (ASTM International)**

Lauren Daly <[accreditation@astm.org](mailto:accreditation@astm.org)> | 100 Barr Harbor Drive | West Conshohocken, PA 19428-2959 [www.astm.org](http://www.astm.org)

***New Standard***

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

Stakeholders: Cooking and Warming Equipment Industry

Project Need: Standard is for a product category not currently covered (spanning a variety of heating technologies and sizes) for characterizing energy and performance, establishing identifying metrics that can be used to differentiate within the product category. Users would consist of manufacturers, consultants, rebate programs, sandwich shops, cafeterias, hotels, hospitals, schools and other miscellaneous users.

Interest Categories: Producer, User, General Interest

1.1 This test method covers the energy consumption and cooking performance of panini presses. The food service operator can use this evaluation to select a panini press and understand its energy efficiency and productivity. 1.2 This test method is applicable to thermostatically controlled, gas and electric panini presses with separately heated top surfaces.

**ASTM (ASTM International)**

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***New Standard***

BSR/ASTM WK90902-202x, New Test Method for Performance of Commercial Range Ovens (new standard)

Stakeholders: Productivity and Energy Protocol Industry

Project Need: Standard is for a product category not currently covered that is widespread in the industry and low in innovation. Test Standard will create methodology for characterizing energy and performance, establishing identifying metrics that can be used to differentiate within the product category and encouraging product innovations. Users would consist of manufacturers, consultants, rebate programs, full service restaurants, cafeterias, hotels, hospitals, schools and most foodservice providers.

Interest Categories: Producer, User, General Interest

1.1 This test method covers the energy consumption and cooking performance evaluation of range ovens. The results of applying it can be used by the food service operator to select a range oven and to understand its energy consumption and performance. 1.2 This test method applies to general purpose, built-in range top commercial ovens used for baking food products. It is not applicable to ovens without a built-in range top.

**ASTM (ASTM International)**

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***New Standard***

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

Stakeholders: Digital and Multimedia Evidence Industry

Project Need: This guide provides the minimum requirements of information that shall be documented in accordance with the type of facial comparison conducted and agency specific procedures. This guide outlines the information needed to provide a contemporaneous record of the analysis.

Interest Categories: Producer, User, General Interest

This guide provides minimum guidelines for facial image comparison documentation and reporting.

**DirectTrust (DirectTrust.org, Inc.)**

Stacy Clements <[standards@directtrust.org](mailto:standards@directtrust.org)> | 1629 K Street NW, Suite 300 | Washington, DC 20006 [www.DirectTrust.org](http://www.DirectTrust.org)

***New Standard***

BSR/DS2021-04-100-202x, Referrals via FHIR(R) over Direct (new standard)

Stakeholders: Healthcare Practitioners, Social care Practitioners, Government Agencies, For-Profit and Not-for-Profit Payer Organization, Consumers, Healthcare IT and Social care IT vendors, Systems Integrators, and Information Exchange Service Providers (e.g. HISPs, HIEs, HINs, CIEs, SHRPs, etc.)

Project Need: Social care community-based organizations (or “CBOs”) have not, in the past, had domain-specific information exchange standards defined for them. Yet since many of these CBOs represent a significant percentage of the delivery network of State and Federal Home and Community-Based Service Providers, often paid for by Medicare/Medicaid, there is a desire to incorporate them into extant healthcare interoperability standards. Current HL7- and IHE-defined service referral standards require implementation through sophisticated software applications or apps. While there are some major national social care organizations that could afford to embrace these healthcare standards-based referral products, many of the social care community-based organizations (CBOs) are small and underfunded organizations without the financial resources nor the technical acumen to invest in such applications. Since a significant portion of human services support in both rural and urban communities are provided by organizations which lack capacity to support HL7 or IHE data exchange standards, it is critical to be able to support electronic delivery of referrals to these organizations, as well as an equally minimum-viable, closed-loop referral mechanism.

Interest Categories: (a) Healthcare Sector, (b) Government Sector, (c) Payer Sector, (d) Consumer Sector, (e) Social Care Sector, (f) General Interest and Advocacy, (g) Information Technology Sector, and (h) Interoperability and Systems Integration Sector.

The proposed “Referrals via FHIR® over Direct” standard specifies how existing HL7 FHIR Referral Resources, as profiled in HL7 IGs for healthcare to/from healthcare and healthcare to/from social care organizations, may be exchanged with referral network partners as attachments to a Direct Secure Message. This specification will include necessary workflow to exchange a referral and to accept, reject, or otherwise “close the loop” for a referral via the Direct Standard® using appropriate FHIR Resource attachments. Metadata will be used to convey information about the referral included in attachments. In addition, this specification will include informative (non-normative) guidelines on human readable content to accompany the standard normative attachments for each transaction.

\*FHIR® is the registered trademark of Health Level Seven International and the use does not constitute endorsement by HL7.

**HI (Hydraulic Institute)**

Edgar Suarez <[esuarez@pumps.org](mailto:esuarez@pumps.org)> | 300 Interpace Parkway, Bldg A, 3rd Floor | Parsippany, NJ 07054 [www.pumps.org](http://www.pumps.org)

***Revision***

BSR/HI 9.6.4-202x, Rotodynamic Pumps for Vibration Measurements and Allowable Values (revision of ANSI/HI 9.6.4-2022)

Stakeholders: Pump manufacturers, consultants, EPC's and end-users

Project Need: There is a need to revise the standard to incorporate the results of more recent vibration data collected and to reorganize the standard.

Interest Categories: User, Producer, and General

This standard pertains to evaluation of vibration when the vibration measurements are made on stationary parts associated with bearings (bearing housings) of rotodynamic pumps. It provides specific maximum allowable vibration values measured on bearing housings of rotodynamic pumps in field and factory test environments.

**HPS (ASC N13) (Health Physics Society)**

Amy Wride-Graney <[awride-graney@burkinc.com](mailto:awride-graney@burkinc.com)> | 950 Herndon Parkway, Suite 450 | Herndon, VA 20170 [www.hps.org](http://www.hps.org)

**Revision**

BSR HPS N13.30-202x, Performance Criteria for Radiobioassay (revision of ANSI N13.30-2011 (R2017))

Stakeholders: Government, primarily DOE requiring DOE Laboratory Accreditation Program Accreditation and vendor laboratories.

Project Need: Revision of ANSI/HPS N13.30-2011 (R2017) to address editorial changes and minor revisions to content.

Interest Categories: Government or Regulatory Agency, Professional Society, Trade Association or Labor Union, Technical Expert

The purpose of this standard is to provide criteria for quality assurance, evaluation of performance, and the accreditation of radiobioassay service laboratories. These criteria include bias, precision, and determination of the MDA or MDC.

**MHI (Material Handling Industry)**

Patrick Davison <[pdavison@mhi.org](mailto:pdavison@mhi.org)> | 8720 Red Oak Boulevard, Suite 201 | Charlotte, NC 28217 [www.mhi.org](http://www.mhi.org)

**Revision**

BSR/MH16.3-202X, Design, Testing, and Utilization of Industrial Steel Cantilevered Storage Racks (revision of ANSI/MH16.3-2016)

Stakeholders: Manufacturers, inspectors, distributors, integrators, academia and laboratory personnel, and design engineers for storage systems and material handling applications.

Project Need: This proposed standard is a revision to ANSI MH16.3-2016, and the revisions reflect changes in the industry and references updates to other standards pertaining to industrial steel performance and loading.

Interest Categories: Manufacturer, integrator/distributor, laboratory/researcher, government/regulatory, user, general interest.

This standard specifies minimum requirements for the structural design, testing, and utilization of industrial steel cantilevered storage racks manufactured from cold-formed or hot-rolled structural steel members. This standard also covers cantilevered racks with accessories, such as decked shelves, shed roofs, and canopies.

**NFPA (National Fire Protection Association)**

Dawn Michele Bellis <[dbellis@nfpa.org](mailto:dbellis@nfpa.org)> | One Batterymarch Park | Quincy, MA 02169 [www.nfpa.org](http://www.nfpa.org)

**Revision**

BSR/NFPA 11-202x, Standard for Low-, Medium-, and High-Expansion Foam (revision of ANSI/NFPA 11-2024)

Stakeholders: Manufacturers, users, installers/maintainers, labor, enforcing authorities, insurance, consumers, special experts, and research and testing.

Project Need: Public Interest and Need

Interest Categories: Manufacturer (M), User (U, Installer/Maintainer (I/M), Labor (L), Applied Research/Testing Laboratory (R/T), Enforcing Authority (E), Insurance (I), Consumer (C), and Special Expert (SE)

Please refer to the following link <https://www.nfpa.org/tcclass> for more information about our classifications

1.1 Scope. 1.1.1 This standard shall provide the minimum requirements for the design and installation of foam systems. 1.1.2 It is not the intent of this standard to specify where foam protection is required.

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**Revision**

BSR/NFPA 31-202x, Standard for the Installation of Oil-Burning Equipment (revision of ANSI/NFPA 31-2024)

Stakeholders: Manufacturers, users, installers/maintainers, labor, enforcing authorities, insurance, consumers, special experts, and research and testing.

Project Need: Public Interest and Need

Interest Categories: Manufacturer (M), User (U, Installer/Maintainer (I/M), Labor (L), Applied Research/Testing Laboratory (R/T), Enforcing Authority (E), Insurance (I), Consumer (C), and Special Expert (SE)

Please refer to the following link <https://www.nfpa.org/tcclass> for more information about our classifications

1.1 Scope. 1.1.1 This standard shall apply to the installation of stationary liquid fuel–burning appliances, including but not limited to industrial-, commercial-, and residential-type steam, hot water, or warm air heating appliances; domestic-type range burners; space heaters; and portable liquid fuel–burning equipment. 1.1.2 This standard shall also apply to all accessories and control systems, whether electric, thermostatic, or mechanical, and all electrical wiring connected to liquid fuel–burning appliances. 1.1.3 This standard shall also apply to the installation of liquid fuel storage and supply systems connected to liquid fuel–burning appliances. 1.1.4 This standard shall also apply to those multifueled appliances in which a liquid fuel is one of the standard or optional fuels. 1.1.5\* This standard shall not apply to internal combustion engines, oil lamps, or portable devices not specifically covered in this standard. (See Chapter 11 for portable devices that are covered in this standard.)

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**Revision**

BSR/NFPA 33-202x, Standard for Spray Application Using Flammable or Combustible Materials (revision of ANSI/NFPA 33-2024)

Stakeholders: Manufacturers, users, installers/maintainers, labor, enforcing authorities, insurance, consumers, special experts, and research and testing.

Project Need: Public interest and Need

Interest Categories: Manufacturer (M), User (U, Installer/Maintainer (I/M), Labor (L), Applied Research/Testing Laboratory (R/T), Enforcing Authority (E), Insurance (I), Consumer (C), and Special Expert (SE)

Please refer to the following link <https://www.nfpa.org/tcclass> for more information about our classifications

1.1 Scope.

1.1.1 This standard shall apply to the spray application of flammable or combustible materials, as herein defined, either continuously or intermittently by any of the following methods:

- (1) Compressed air atomization;
- (2) Airless or hydraulic atomization;
- (3) Electrostatic application methods;
- (4) Other means of atomized application.

1.1.2 This standard shall also apply to the application of flammable or combustible materials, as herein defined, either continuously or intermittently by any of the following methods:

- (1) Fluidized bed application methods;
- (2) Electrostatic fluidized bed application methods;
- (3) Other means of fluidized application.

1.1.3 This standard shall also apply to the spray application of water-borne, water-based, and water-reducible materials that contain ignitable (flammable or combustible) liquids or that produce combustible deposits or residues.

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**Revision**

BSR/NFPA 34-202x, Standard for Dipping, Coating, and Printing Processes Using Flammable or Combustible Liquids (revision of ANSI/NFPA 34-2024)

Stakeholders: Manufacturers, users, installers/maintainers, labor, enforcing authorities, insurance, consumers, special experts, and research and testing.

Project Need: Public Interest and Need

Interest Categories: Manufacturer (M), User (U, Installer/Maintainer (I/M), Labor (L), Applied Research/Testing Laboratory (R/T), Enforcing Authority (E), Insurance (I), Consumer (C), and Special Expert (SE)

Please refer to the following link <https://www.nfpa.org/tclass> for more information about our classifications

1.1 Scope. 1.1.1 This standard shall apply to dipping, roll coating, flow coating, curtain coating, printing, cleaning, and similar processes, hereinafter referred to as “coating processes” or “processes,” in which articles or materials are passed through tanks, vats, or containers or passed over rollers, drums, or other process equipment that contain ignitable (flammable or combustible) liquids. 1.1.2 This standard shall also apply to cleaning processes that utilize a solvent vapor, such as vapor degreasing processes. 1.1.3 This standard shall also apply to processes that use waterborne, water-based, and water-reducible materials that contain ignitable (flammable or combustible) liquids or that produce combustible deposits or residues.

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**Revision**

BSR/NFPA 37-202x, Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines (revision of ANSI/NFPA 37-2024)

Stakeholders: Manufacturers, users, installers/maintainers, labor, enforcing authorities, insurance, consumers, special experts, and research and testing.

Project Need: Public Interest and Need

Interest Categories: Manufacturer (M), User (U, Installer/Maintainer (I/M), Labor (L), Applied Research/Testing Laboratory (R/T), Enforcing Authority (E), Insurance (I), Consumer (C), and Special Expert (SE)

Please refer to the following link <https://www.nfpa.org/tclass> for more information about our classifications

1.1 Scope. This standard establishes criteria for minimizing the hazards of fire during the installation and operation of stationary combustion engines and gas turbines.

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**Revision**

BSR/NFPA 67-202x, Recommended Practice on Explosion Protection for Gaseous Mixtures in Piping Systems (revision of ANSI/NFPA 67-2024)

Stakeholders: Manufacturers, users, installers/maintainers, labor, enforcing authorities, insurance, consumers, special experts, and research and testing.

Project Need: Public Interest and Need

Interest Categories: Manufacturer (M), User (U, Installer/Maintainer (I/M), Labor (L), Applied Research/Testing Laboratory (R/T), Enforcing Authority (E), Insurance (I), Consumer (C), and Special Expert (SE)

Please refer to the following link <https://www.nfpa.org/tclass> for more information about our classifications

1.1 Scope. 1.1.1 The intent of this recommended practice is to provide recommendations for the design, installation, and operation of piping systems where there is potential for the formation and ignition of a flammable gas mixture. 1.1.2 This recommended practice addresses protection methods for use where there is an explosion risk due to either a deflagration or detonation. 1.1.3 This document does not apply to runaway reactions, decompositions, or oxidants other than oxygen.

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**Revision**

BSR/NFPA 69-202x, Standard on Explosion Prevention Systems (revision of ANSI/NFPA 69-2024)

Stakeholders: Manufacturers, users, installers/maintainers, labor, enforcing authorities, insurance, consumers, special experts, and research and testing.

Project Need: Public Interest and Need

Interest Categories: Manufacturer (M), User (U, Installer/Maintainer (I/M), Labor (L), Applied Research/Testing Laboratory (R/T), Enforcing Authority (E), Insurance (I), Consumer (C), and Special Expert (SE)

Please refer to the following link <https://www.nfpa.org/tcclass> for more information about our classifications

1.1 Scope. This standard applies to the design, installation, operation, maintenance, and testing of systems for the prevention of explosions by means of the following methods:

- (1) Control of oxidant concentration
- (2) Control of combustible concentration
- (3) Predeflagration detection and control of ignition sources
- (4) Explosion suppression
- (5) Active isolation
- (6) Passive isolation
- (7) Deflagration pressure containment
- (8) Passive explosion suppression

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**Revision**

BSR/NFPA 75-202x, Standard for the Fire Protection of Information Technology Equipment (revision of ANSI/NFPA 75-2024)

Stakeholders: Manufacturers, users, installers/maintainers, labor, enforcing authorities, insurance, consumers, special experts, and research and testing.

Project Need: Public Interest and Need

Interest Categories: Manufacturer (M), User (U, Installer/Maintainer (I/M), Labor (L), Applied Research/Testing Laboratory (R/T), Enforcing Authority (E), Insurance (I), Consumer (C), and Special Expert (SE)

Please refer to the following link <https://www.nfpa.org/tcclass> for more information about our classifications

1.1 Scope. This standard covers the requirements for the protection of information technology equipment (ITE) and ITE areas.



**NFPA (National Fire Protection Association)**

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**Revision**

BSR/NFPA 76-202x, Standard for the Fire Protection of Telecommunications Facilities (revision of ANSI/NFPA 76-2024)

Stakeholders: Manufacturers, users, installers/maintainers, labor, enforcing authorities, insurance, consumers, special experts, and research and testing.

Project Need: Public Interest and Need

Interest Categories: Manufacturer (M), User (U, Installer/Maintainer (I/M), Labor (L), Applied Research/Testing Laboratory (R/T), Enforcing Authority (E), Insurance (I), Consumer (C), and Special Expert (SE)

Please refer to the following link <https://www.nfpa.org/tclass> for more information about our classifications

1.1 Scope. This standard provides requirements for fire protection of telecommunications facilities, including landline, cable, wireless, and satellite telecommunication services such as telephone/voice, voice over internet protocol (VoIP), internet, data, and video transmission that are rendered to the public. 1.1.1 Telecommunications facilities include signal-processing equipment areas, cable entrance facility areas, power areas, main distribution frame areas, standby engine areas, technical support areas, administrative areas, and building services and support areas occupied by a telecommunications service provider.

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**Revision**

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

Stakeholders: Manufacturers, users, installers/maintainers, labor, enforcing authorities, insurance, consumers, special experts, and research and testing.

Project Need: Public Interest and Need

Interest Categories: Manufacturer (M), User (U, Installer/Maintainer (I/M), Labor (L), Applied Research/Testing Laboratory (R/T), Enforcing Authority (E), Insurance (I), Consumer (C), and Special Expert (SE)

Please refer to the following link <https://www.nfpa.org/tclass> for more information about our classifications

1.1 Scope. 1.1.1 The provisions of this standard shall apply to the electrical/electronic equipment, apparatus, or systems of industrial machines supplied from a nominal voltage of 1000 volts or less, and commencing at the point of connection of the supply circuit conductors to the electrical equipment of the machine. 1.1.2 This standard does not include the additional requirements for machines intended for use in hazardous (classified) locations.

**NFPA (National Fire Protection Association)**

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**Revision**

BSR/NFPA 82-202x, Standard on Incinerators and Waste and Linen Handling Systems and Equipment (revision of ANSI/NFPA 82-2024)

Stakeholders: Manufacturers, users, installers/maintainers, labor, enforcing authorities, insurance, consumers, special experts, and research and testing.

Project Need: Public Interest and Need

Interest Categories: Manufacturer (M), User (U, Installer/Maintainer (I/M), Labor (L), Applied Research/Testing Laboratory (R/T), Enforcing Authority (E), Insurance (I), Consumer (C), and Special Expert (SE)

Please refer to the following link <https://www.nfpa.org/tclass> for more information about our classifications

1.1 Scope. 1.1.1 This standard covers requirements for the installation, maintenance, and use of waste and recyclables storage rooms, containers, handling systems, incinerators, compactors, and linen and laundry handling systems. 1.1.2 This standard does not include design criteria for the purpose of reducing air pollution. For such criteria, consult the authorities having jurisdiction. 1.1.3 The requirements in this standard shall not apply to one- or two-family residential structures.

**NFPA (National Fire Protection Association)**

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**Revision**

BSR/NFPA 87-202x, Standard for Fluid Heaters (revision of ANSI/NFPA 87-2024)

Stakeholders: Manufacturers, users, installers/maintainers, labor, enforcing authorities, insurance, consumers, special experts, and research and testing.

Project Need: Public Interest and Need

Interest Categories: Manufacturer (M), User (U, Installer/Maintainer (I/M), Labor (L), Applied Research/Testing Laboratory (R/T), Enforcing Authority (E), Insurance (I), Consumer (C), and Special Expert (SE)

Please refer to the following link <https://www.nfpa.org/tcclass> for more information about our classifications

1.1 Scope. 1.1.1 This standard covers fluid heaters and related equipment. 1.1.2

Within the scope of this standard, a fluid heater is considered to be any thermal fluid heater or process fluid heater with the following features: (1) Fluid is flowing under pressure.

(2) Fluid is heated by the deliberate transfer of thermal energy.

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**Revision**

BSR/NFPA 92-202x, Standard for Smoke Control Systems (revision of ANSI/NFPA 92-2024)

Stakeholders: Manufacturers, users, installers/maintainers, labor, enforcing authorities, insurance, consumers, special experts, and research and testing.

Project Need: Public Interest and Need

Interest Categories: Manufacturer (M), User (U, Installer/Maintainer (I/M), Labor (L), Applied Research/Testing Laboratory (R/T), Enforcing Authority (E), Insurance (I), Consumer (C), and Special Expert (SE)

Please refer to the following link <https://www.nfpa.org/tcclass> for more information about our classifications

1.1 Scope. This standard shall apply to the design, installation, acceptance testing, operation, and ongoing periodic testing of smoke control systems.

**NFPA (National Fire Protection Association)**

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**Revision**

BSR/NFPA 170-202x, Standard for Fire Safety and Emergency Symbols (revision of ANSI/NFPA 170-2023)

Stakeholders: Manufacturers, users, installers/maintainers, labor, enforcing authorities, insurance, consumers, special experts, and research and testing.

Project Need: Public Interest and Need

Interest Categories: Manufacturer (M), User (U, Installer/Maintainer (I/M), Labor (L), Applied Research/Testing Laboratory (R/T), Enforcing Authority (E), Insurance (I), Consumer (C), and Special Expert (SE)

Please refer to the following link <https://www.nfpa.org/tcclass> for more information about our classifications

1.1 Scope. This standard presents symbols used for fire safety, emergency, and associated hazards.

**NFPA (National Fire Protection Association)**

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**Revision**

BSR/NFPA 204-202x, Standard for Smoke and Heat Venting (revision of ANSI/NFPA 204-2024)

Stakeholders: Manufacturers, users, installers/maintainers, labor, enforcing authorities, insurance, consumers, special experts, and research and testing.

Project Need: Public Interest and Need

Interest Categories: Manufacturer (M), User (U, Installer/Maintainer (I/M), Labor (L), Applied Research/Testing Laboratory (R/T), Enforcing Authority (E), Insurance (I), Consumer (C), and Special Expert (SE)

Please refer to the following link <https://www.nfpa.org/tcclass> for more information about our classifications

1.1 Scope. 1.1.1 This standard shall apply to the design of venting systems for the emergency venting of products of combustion from fires in buildings. The provisions of Chapters 4 through 10 shall apply to the design of venting systems for the emergency venting of products of combustion from fires in nonsprinklered, single-story buildings using both hand calculations and computer-based solution methods as provided in Chapter 9. Chapter 11 shall apply to venting in sprinklered buildings. 1.1.2 This standard shall not specify under which conditions venting is to be provided or required. 1.1.3 Where a conflict exists between a general requirement and a specific requirement, the specific requirement shall be applicable.

**NFPA (National Fire Protection Association)**

Dawn Michele Bellis <[dbellis@nfpa.org](mailto:dbellis@nfpa.org)> | One Batterymarch Park | Quincy, MA 02169 [www.nfpa.org](http://www.nfpa.org)

**Revision**

BSR/NFPA 401-202x, Recommended Practice for the Prevention of Fires and Uncontrolled Chemical Reactions Associated with the Handling of Hazardous Waste (revision of ANSI/NFPA 401-2024)

Stakeholders: Manufacturers, users, installers/maintainers, labor, enforcing authorities, insurance, consumers, special experts, and research and testing.

Project Need: Public Interest and Need

Interest Categories: Manufacturer (M), User (U, Installer/Maintainer (I/M), Labor (L), Applied Research/Testing Laboratory (R/T), Enforcing Authority (E), Insurance (I), Consumer (C), and Special Expert (SE)

Please refer to the following link <https://www.nfpa.org/tcclass> for more information about our classifications

1.1 Scope. This document applies to the generation, transport, treatment, storage, and disposal of hazardous waste at generator sites, during transportation, and once it reaches a treatment, storage, and disposal facility.

**NFPA (National Fire Protection Association)**

Dawn Michele Bellis <[dbellis@nfpa.org](mailto:dbellis@nfpa.org)> | One Batterymarch Park | Quincy, MA 02169 [www.nfpa.org](http://www.nfpa.org)

**Revision**

BSR/NFPA 418-202x, Standard for Heliports and Vertiports (revision of ANSI/NFPA 418-2024)

Stakeholders: Manufacturers, users, installers/maintainers, labor, enforcing authorities, insurance, consumers, special experts, and research and testing.

Project Need: Public Interest and Need

Interest Categories: Manufacturer (M), User (U, Installer/Maintainer (I/M), Labor (L), Applied Research/Testing Laboratory (R/T), Enforcing Authority (E), Insurance (I), Consumer (C), and Special Expert (SE)

Please refer to the following link <https://www.nfpa.org/tcclass> for more information about our classifications

1.1 Scope. 1.1.1 This standard specifies the minimum requirements for fire protection for heliports, helistops, vertiports, vertistops, and rooftop hangars. 1.1.2 This standard does not apply to ground-level helicopter hangars. 1.1.3 All hangars not covered by this standard are required to comply with NFPA 409. 1.1.4 Temporary landing sites and emergency evacuation facilities are outside the scope of this standard.

## **VITA (VMEbus International Trade Association (VITA))**

Jing Kwok <[jing.kwok@vita.com](mailto:jing.kwok@vita.com)> | 929 W. Portobello Avenue | Mesa, AZ 85210 [www.vita.com](http://www.vita.com)

### ***Revision***

BSR/VITA 67.3-202x, Coaxial Interconnect on VPX - Spring-Loaded Contact on Backplane (revision of ANSI/VITA 67.3-2023)

Stakeholders: Manufacturers, suppliers, and users of modular embedded computers

Project Need: Create a spring loaded contact coaxial connector for VPX modules

Interest Categories: Users, Producers, General Interest

This document describes an open standard of configuration and interconnect with the structure of VITA 67.0 enabling an interface compatible with VITA 46 containing multi-position blind mate analog connectors with coaxial contacts, having fixed contacts on the Plug-In Module and spring action on the backplane. This revision adds SMPS Gen2 contact interfaces to support radial alignment.

# Call for Comment on Standards Proposals

## American National Standards

This section solicits public comments on proposed draft new American National Standards, including the national adoption of ISO and IEC standards as American National Standards, and on proposals to revise, reaffirm or withdraw approval of existing American National Standards. A draft standard is listed in this section under the ANSI-accredited standards developer (ASD) that sponsors it and from whom a copy may be obtained. Comments in connection with a draft American National Standard must be submitted in writing to the ASD no later than the last day of the comment period specified herein. Such comments shall be specific to the section (s) of the standard under review and include sufficient detail so as to enable the reader to understand the commenter's position, concerns and suggested alternative language, if appropriate. Please note that the ANSI Executive Standards Council (ExSC) has determined that an ASD has the right to require that interested parties submit public review comments electronically, in accordance with the developer's procedures.

### Ordering Instructions for "Call-for-Comment" Listings

1. Order from the organization indicated for the specific proposal.
2. Use the full identification in your order, including the BSR prefix; for example, Electric Fuses BSR/SAE J554.
3. Include remittance with all orders.
4. BSR proposals will not be available after the deadline of call for comment.

Comments should be addressed to the organization indicated, with a copy to the Board of Standards Review, American National Standards Institute, 25 West 43rd Street, New York, NY 10036. e-mail: [psa@ansi.org](mailto:psa@ansi.org)

\* Standard for consumer products

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## Comment Deadline: July 7, 2024

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

180 Technology Parkway, Peachtree Corners, GA 20092 | [knguyen@ashrae.org](mailto:knguyen@ashrae.org), [www.ashrae.org](http://www.ashrae.org)

### Addenda

BSR/ASHRAE Addendum f to BSR/ASHRAE Standard 15.2-202x, Safety Standard for Refrigeration Systems in Residential Applications (addenda to ANSI/ASHRAE Standard 15.2-2022)

The US Environmental Protection Agency promulgated SNAP Final Rule 25 (88 FR 26382) on April 28, 2023. In this rule, the EPA approved the use of R-1234yf, R-32, R-452B, R-454A, R-454B, and R-454C in residential dehumidifiers and chillers for comfort cooling. R-32, R-452B, R-454A, R-454B, R-454C, and R-457A had previously been approved for use in residential and light commercial air conditioning and heat pumps by the EPA in SNAP Final Rule 23 (86 FR 24444). Due to their prior SNAP approval, Tables 9-1, 9-2, 9-5, 9-9, and 9-13 in the standard included R-32, R-452B, R-454A, R-454B, R-454C, and R-457A but not R-1234yf. Since R-1234yf is now SNAP-approved, this addendum adds R-1234yf to those tables. This addendum also revises equations to calculate releasable refrigerant charge for refrigerants previously published in the standard after an error was identified in the calculator used to determine the refrigerant density correction factors. The last change is to revise the maximum permissible inductive load values for R-452B, R-454A, and R-454B using latest measurements of burning velocity as required by UL 60335-2-40.

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

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

## Comment Deadline: July 7, 2024

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

180 Technology Parkway, Peachtree Corners, GA 20092 | [knguyen@ashrae.org](mailto:knguyen@ashrae.org), [www.ashrae.org](http://www.ashrae.org)

#### **Addenda**

BSR/ASHRAE Addendum o to BSR/ASHRAE Standard 15-202x, Safety Standard for Refrigeration Systems (addenda to ANSI/ASHRAE Standard 15-2022)

In response to a continuous maintenance proposal, this addendum revises portions of Standard 15 related to ventilation of machinery rooms.

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

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

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

180 Technology Parkway, Peachtree Corners, GA 30092 | [tloxley@ashrae.org](mailto:tloxley@ashrae.org), [www.ashrae.org](http://www.ashrae.org)

#### **Addenda**

BSR/ASHRAE/ASHE Addendum i to BSR/ASHRAE/ASHE Standard 189.3-202x, Design, Construction, and Operation of Sustainable High-Performance Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Standard 189.3-2021)

This addendum follows the changes in 189.1-2023, Section 7.3.6 to have electrical infrastructure for the building for future electrification of fossil fuel equipment. This change adds an informative note cautioning designers to consider the appropriate electrical infrastructure branch when designing their systems.

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

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

180 Technology Parkway, Peachtree Corners, GA 30092 | [tloxley@ashrae.org](mailto:tloxley@ashrae.org), [www.ashrae.org](http://www.ashrae.org)

#### **Addenda**

BSR/ASHRAE/ASHE Addendum j to BSR/ASHRAE/ASHE Standard 189.3-202x, Design, Construction, and Operation of Sustainable High-Performance Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Standard 189.3-2021)

Material and product resilience is important in all types of healthcare facilities, because of infection risk based on premature failure or inappropriate specification for the application based on the cleaning, sanitizing, and disinfecting requirements of healthcare spaces. This change requires the Materials section with subsequent recommendations to the Operations and Indoor Environmental Quality sections. New references are added for the user to comply with specifically rated cleaning products.

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

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

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### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105 | [mmilla@nsf.org](mailto:mmilla@nsf.org), [www.nsf.org](http://www.nsf.org)

#### Revision

BSR/NSF 24-202x (i12r1), Plumbing System Components for Recreational Vehicles (revision of ANSI/NSF 24-2020)

This standard covers pipe, fittings, valves, traps, vents, tanks, pumps, connectors, fixtures, appliances, and similar appurtenances used in a plumbing system of a recreational vehicle.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Monica Milla <[mmilla@nsf.org](mailto:mmilla@nsf.org)>

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | [arose@nsf.org](mailto:arose@nsf.org), [www.nsf.org](http://www.nsf.org)

#### Revision

BSR/NSF 51-202x (i29r1), Food Equipment Materials (revision of ANSI/NSF 51-2023)

This standard is applicable to the materials and finishes used in the manufacture of food equipment (e.g., broiler, beverage dispenser, cutting board, stock pot). The standard is also applicable to components such as tubing, sealants, gaskets, valves, and other items intended for various food equipment applications.

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

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

### ULSE (UL Standards & Engagement)

1603 Orrington Avenue, Suite 2000, Evanston, IL 60201 | [mitchell.gold@ul.org](mailto:mitchell.gold@ul.org), <https://ulse.org/>

#### Revision

BSR/UL 508-202x, Standard for Industrial Control Equipment (revision of ANSI/UL 508-2021)

Recirculation of the following UL 508 ballot topics: (1) Revisions to address changes to UL 869A; (2) Clarification of ambient for tests; (3) Remove exception to Clause 69.5 for definite purpose motor controllers; (4) Move Pressure Test to General Section; (8) Editorial update to remove Appendix A.

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

Send comments (copy [psa@ansi.org](mailto: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, Suite 20000, Evanston, IL 60201 | [Susan.P.Malohn@ul.org](mailto:Susan.P.Malohn@ul.org), <https://ulse.org/>

#### Revision

BSR/UL 2703-202x, Standard for Safety for Mounting Systems, Mounting Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels (revision of ANSI/UL 2703-2023)

(1) Salt Spray Test corrections; (2) Salt Spray Test transition time correction; (3) Salt Spray Test salt mist condition correction.

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

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

## Comment Deadline: July 22, 2024

### ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | [ansibox@asme.org](mailto:ansibox@asme.org), [www.asme.org](http://www.asme.org)

#### Revision

BSR/ASME A17.1-202x/CSA B44-202x, Safety Code for Elevators and Escalators (revision of ANSI/ASME A17.1/CSA B44-2022)

This standard covers safety requirements for elevators, escalators, dumbwaiters, moving walks, and material lifts.

Single copy price: Free

Obtain an electronic copy from: <https://cstools.asme.org/csconnect/PublicReviewPage.cfm>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Geraldine Burdeshaw <[burdeshawg@asme.org](mailto:burdeshawg@asme.org)>

### ASTM (ASTM International)

100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 | [accreditation@astm.org](mailto:accreditation@astm.org), [www.astm.org](http://www.astm.org)

#### New Standard

BSR/ASTM WK74632-202x, Practice for Image Processing to Improve Automated Facial Recognition Search Performance (new standard)

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

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#### New Standard

BSR/ASTM WK81325-202x, Specification for Pressure-Rated Polyvinylidene Fluoride (PVDF) Piping Systems (new standard)

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

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#### Reaffirmation

BSR/ASTM E2912-2017 (R202x), Test Method for Fire Test of Non-Mechanical Fire Dampers Used in Vented Construction (reaffirmation of ANSI/ASTM E2912-2017)

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

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#### **Reaffirmation**

BSR/ASTM E2957-2017 (R202x), Test Method for Resistance to Wildfire Penetration of Eaves, Soffits and Other Projections (reaffirmation of ANSI/ASTM E2957-2017)

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

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#### **Reaffirmation**

BSR/ASTM F707-1981 (R202x), Specification for Modular Gauge Boards (reaffirmation of ANSI/ASTM F707/F707M-1981 (R2019))

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

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#### **Reaffirmation**

BSR/ASTM F841-2020 (R202x), Specification for Thrusters, Tunnel, Permanently Installed in Marine Vessels (reaffirmation of ANSI/ASTM F841-2020)

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

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#### **Reaffirmation**

BSR/ASTM F1005-1997 (R202x), Practice for HVAC Duct Shapes; Identification and Description of Design Configuration (reaffirmation of ANSI/ASTM F1005-1997 (R2020))

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

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#### **Reaffirmation**

BSR/ASTM F1076-2019 (R202x), Practice for Expanded Welded and Silver Brazed Socket Joints for Pipe and Tube (reaffirmation of ANSI/ASTM F1076-2019)

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

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#### **Reaffirmation**

BSR/ASTM F1098-2010 (R202x), Specification for Envelope Dimensions for Butterfly Valves - NPS 2 to 24 (reaffirmation of ANSI/ASTM F1098-2010 (R2019))

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

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#### **Reaffirmation**

BSR/ASTM F1120-2010 (R202x), Specification for Circular Metallic Bellows Type Expansion Joints for Piping Applications (reaffirmation of ANSI/ASTM F1120-2010 (R2019))

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

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#### **Reaffirmation**

BSR/ASTM F1121-2010 (R202x), Specification for International Shore Connections for Marine Fire Applications (reaffirmation of ANSI/ASTM F1121-2010 (R2019))

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

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#### **Reaffirmation**

BSR/ASTM F1123-2010 (R202x), Specification for Non-Metallic Expansion Joints (reaffirmation of ANSI/ASTM F1123-2010 (R2019))

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

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#### **Reaffirmation**

BSR/ASTM F1139-2010 (R202x), Specification for Steam Traps and Drains (reaffirmation of ANSI/ASTM F1139-2010 (R2019))

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#### **Reaffirmation**

BSR/ASTM F1155-2010 (R202x), Practice for Selection and Application of Piping System Materials (reaffirmation of ANSI/ASTM F1155-2010 (R2019))

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#### **Reaffirmation**

BSR/ASTM F1172-2010 (R202x), Specification for Fuel Oil Meters of the Volumetric Positive Displacement Type (reaffirmation of ANSI/ASTM F1172-2010 (R2019))

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

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#### **Reaffirmation**

BSR/ASTM F1245-2020 (R202x), Specification for Faucets, Single and Double, Compression and Self-Closing Type, Shipboard (reaffirmation of ANSI/ASTM F1245-2020)

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

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#### **Reaffirmation**

BSR/ASTM F1333-1997 (R202x), Specification for Construction of Fire and Foam Station Cabinets (reaffirmation of ANSI/ASTM F1333-1997 (R2020))

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

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#### **Reaffirmation**

BSR/ASTM F2087-2013 (R202x), Specification for Packing, Fiberglass, Braided, Rope, and Wick (reaffirmation of ANSI/ASTM F2087-2013 (R2019))

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#### **Reaffirmation**

BSR/ASTM F2138-2012 (R202x), Specification for Excess Flow Valves for Natural Gas Service (reaffirmation of ANSI/ASTM F2138-2012 (R2017))

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#### **Reaffirmation**

BSR/ASTM F2154-2013 (R202x), Specification for Sound-Absorbing Board, Fibrous Glass, Perforated Fibrous Glass Cloth Faced (reaffirmation of ANSI/ASTM F2154-2013 (R2019))

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#### **Reaffirmation**

BSR/ASTM F2168-2013 (R202x), Specification for Packing Material, Graphitic, Corrugated Ribbon or Textured Tape, and Die-Formed Ring (reaffirmation of ANSI/ASTM F2168-2013 (R2020))

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#### **Reaffirmation**

BSR/ASTM F2206-2019 (R202x), Specification for Fabricated Fittings of Butt-Fused Polyethylene (PE) (reaffirmation of ANSI/ASTM F2206-2019)

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#### **Reaffirmation**

BSR/ASTM F2877/F2877M-2013 (R202x), Test Method for Shock Testing of Structural Insulation of A-Class Divisions Constructed of Steel or Aluminum (reaffirmation of ANSI/ASTM F2877/F2877M-2013 (R2019))

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#### **Reaffirmation**

BSR/ASTM F3328-2018 (R202x), Practice for the One-Step (Solvent Cement Only) Method of Joining Poly(Vinyl Chloride) (PVC) or Chlorinated Poly(Vinyl Chloride) (CPVC) Pipe and Piping Components with Tapered Sockets (reaffirmation of ANSI/ASTM F3328-2018)

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#### **Revision**

BSR/ASTM D2466-202x, Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40 (revision of ANSI/ASTM D2466-2023)

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#### **Revision**

BSR/ASTM D2467-202x, Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80 (revision of ANSI/ASTM D2467-2020)

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#### **Revision**

BSR/ASTM D2513-202x, Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings (revision of ANSI/ASTM D2513-2020)

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#### **Revision**

BSR/ASTM D2661-202x, Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe and Fittings (revision of ANSI/ASTM D2661-2021)

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#### **Revision**

BSR/ASTM D2949-202x, Specification for 3.25-in. Outside Diameter Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings (revision of ANSI/ASTM D2949-2022)

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#### **Revision**

BSR/ASTM E84-202x, Test Method for Surface Burning Characteristics of Building Materials (revision of ANSI/ASTM E84-2023D)

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#### **Revision**

BSR/ASTM E108-202x, Test Methods for Fire Tests of Roof Coverings (revision of ANSI/ASTM E108-2020)

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#### **Revision**

BSR/ASTM E136-202x, Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750C (revision of ANSI/ASTM E136-2024A)

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#### **Revision**

BSR/ASTM E162-202x, Test Method for Surface Flammability of Materials Using a Radiant Heat Energy Source (revision of ANSI/ASTM E162-2022)

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#### **Revision**

BSR/ASTM E1412-202x, Practice for Separation of Ignitable Liquid Residues from Fire Debris Samples by Passive Headspace Concentration with Activated Charcoal (revision of ANSI/ASTM E1412-2019)

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#### **Revision**

BSR/ASTM E1678-202x, Test Method for Measuring Smoke Toxicity for Use in Fire Hazard Analysis (revision of ANSI/ASTM E1678-2021A)

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#### **Revision**

BSR/ASTM E2187-202x, Test Method for Measuring the Ignition Strength of Cigarettes (revision of ANSI/ASTM E2187-2020)

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#### **Revision**

BSR/ASTM E2749-202x, Practice for Measuring the Uniformity of Furnace Exposure on Test Specimens (revision of ANSI/ASTM E2749-2023A)

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#### **Revision**

BSR/ASTM F714-202x, Specification for Polyethylene (PE) Plastic Pipe (DR-PR) Based on Outside Diameter (revision of ANSI/ASTM F714-2024)

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#### **Revision**

BSR/ASTM F877-202x, Specification for Crosslinked Polyethylene (PEX) Hot- and Cold-Water Distribution Systems (revision of ANSI/ASTM F877-2024)

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#### **Revision**

BSR/ASTM F1387-202x, Specification for Performance of Piping and Tubing Mechanically Attached Fittings (revision of ANSI/ASTM F1387-2023)

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#### **Revision**

BSR/ASTM F1488-202x, Specification for Coextruded Composite Pipe (revision of ANSI/ASTM F1488-2014 (R2019))

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#### **Revision**

BSR/ASTM F1960-202x, Specification for Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing (revision of ANSI/ASTM F1960-2023B)

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#### **Revision**

BSR/ASTM F1970-202x, Specification for Special Engineered Fittings, Appurtenances or Valves for Use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly(Vinyl Chloride) (CPVC) Systems (revision of ANSI/ASTM F1970-2023)

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#### **Revision**

BSR/ASTM F2165-202x, Specification for Flexible Pre-Insulated Plastic Piping (revision of ANSI/ASTM F2165-2019)

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#### **Revision**

BSR/ASTM F2389-202x, Specification for Pressure-rated Polypropylene (PP) Piping Systems (revision of ANSI/ASTM F2389-2024)

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#### **Revision**

BSR/ASTM F2620-202x, Practice for Heat Fusion Joining of Polyethylene Pipe and Fittings (revision of ANSI/ASTM F2620-2020A)

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#### **Revision**

BSR/ASTM F2767-202x, Specification for Electrofusion Type Polyamide-12 Fittings for Outside Diameter Controlled Polyamide-12 Pipe and Tubing for Gas Distribution (revision of ANSI/ASTM F2767-2018 (R2023))

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#### **Revision**

BSR/ASTM F3059-202x, Specification for Fiber-Reinforced Polymer (FRP) Gratings Used in Marine Construction and Shipbuilding (revision of ANSI/ASTM F3059-2018)

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#### **Revision**

BSR/ASTM F3202-202x, Specification for Solid Wall Poly (Vinyl Chloride) PVC Fittings for Joining Corrugated Wall High Density Polyethylene (PE) and Polypropylene (PP) Piping (revision of ANSI/ASTM F3202-2019A)

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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)

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#### **Withdrawal**

ANSI/ASTM E2726/E2726M-2012a (R2017), Test Method for Evaluating the Fire-Test-Response of Deck Structures to Burning Brands (withdrawal of ANSI/ASTM E2726/E2726M-2012a (R2017))

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#### **Withdrawal**

ANSI/ASTM F2176-2017, Specification for Mechanical Couplings Used on Polyethylene Conduit, Duct and Innerduct (withdrawal of ANSI/ASTM F2176-2017)

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#### **Withdrawal**

ANSI/ASTM F2830-2011 (R2017), Specification for Manufacture and Joining of Polyethylene (PE) Gas Pressure Pipe With a Peelable Polypropylene (PP) Outer Layer (withdrawal of ANSI/ASTM F2830-2011 (R2017))

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#### **New Standard**

BSR/CSA B107-202x, Enclosed Hydrogen Equipment - Safety (new standard)

This standard applies to assemblies of hydrogen equipment integrated into an enclosure such as a freight container or custom enclosure, enclosed hydrogen equipment. This standard applies to enclosures with a minimum of floor area of 7.4 m<sup>2</sup> and a maximum floor area of 41.8 m<sup>2</sup>. The floor area is calculated from the outermost walls of the EHE, regardless if the EHE contains internal compartments. This standard applies to EHE intended for stationary outdoor operation. This standard addresses safety requirements related to hydrogen and its use inside an enclosure and does not apply to: CSA/ANSI FC 1\*CSA C22.2 No. 62282-3-100; ANSI/CSA AMERICA FC 3; CSA/ANSI FC 6 or CSA C22.2 No. 62282-2 with enclosures; CSA/ANSI B22734; CSA/ANSI HGV 4.1; and CSA/ANSI HGV 5.2 or CSA IR 3-18. This standard also does not apply to: gas cabinets installed in accordance with and comply with the requirements of NFPA 2, Section 6.19 or BNQ 1784-000; exhausted enclosures installed in accordance with and comply with the requirements of NFPA 2, Section 6.20; unenclosed hydrogen equipment installed in a room; or hydrogen equipment in shipping containers or custom enclosures for the purpose of transportation or storage.

Single copy price: Free

Obtain an electronic copy from: [ANSI.Contact@csagroup.org](mailto:ANSI.Contact@csagroup.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [ANSI.Contact@csagroup.org](mailto:ANSI.Contact@csagroup.org)

## Comment Deadline: July 22, 2024

### DirectTrust (DirectTrust.org, Inc.)

1629 K Street NW, Suite 300, Washington, DC 20006 | [standards@directtrust.org](mailto:standards@directtrust.org), [www.DirectTrust.org](http://www.DirectTrust.org)

#### **New Standard**

BSR/DS2019-01-200-202x, XDR and XDM for Direct Secure Messaging Specification (new standard)  
The XDR and XDM for Direct Standard was created to provide the necessary requirements for using the IHE XD Metadata in the context of the Direct Standard (ANSI/DS 2019-01-100-2021). It builds upon existing specifications, such as the Cross-Enterprise Document Media Exchange (XDM) which provides Direct-Protocol-compatible healthcare-specific metadata exchange, and the Cross-Enterprise Document Reliable Interchange (XDR) which is used in SOAP-based Web Services healthcare exchange networks. The XDR and XDM for Direct Standard specifies not only a guidance for the use of these specifications but adds requirements and constraints to reduce interoperability "friction" among healthcare organizations with different technological bases

Single copy price: \$30.00

Obtain an electronic copy from: [Standards@DirectTrust.org](mailto:Standards@DirectTrust.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Stacy Clements <[standards@directtrust.org](mailto:standards@directtrust.org)>

### HL7 (Health Level Seven)

455 E. Eisenhower Parkway, Suite 300 #025, Ann Arbor, MI 48108 | [lynn@hl7.org](mailto:lynn@hl7.org), [www.hl7.org](http://www.hl7.org)

#### **Reaffirmation**

BSR/HL7 Arden V2.10-2014 (R202x), Health Level Seven Arden Syntax for Medical Logic Systems, Version 2.10 (reaffirmation of ANSI/HL7 Arden V2.10-2014)

This is the Wire Format Compatible Release 1 Data Types (XML ITS R2B) for datatypes. It implements a subset of the Abstract Data Types R2 with a wire format that is mostly backwards compatible with ITS R1.

Single copy price: Free

Obtain an electronic copy from: [lynn@hl7.org](mailto:lynn@hl7.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Lynn Laakso <[lynn@hl7.org](mailto:lynn@hl7.org)>

### HL7 (Health Level Seven)

455 E. Eisenhower Parkway, Suite 300 #025, Ann Arbor, MI 48108 | [lynn@hl7.org](mailto:lynn@hl7.org), [www.hl7.org](http://www.hl7.org)

#### **Reaffirmation**

BSR/HL7 EHR BHFP, R1-2008 (R202x), HL7 EHR Behavioral Health Functional Profile, Release 1 (reaffirmation of ANSI/HL7 EHR BHFP, R1-2008)

Reaffirmation of HL7 EHR Behavioral Health Functional Profile, Release 1.

Single copy price: Free

Obtain an electronic copy from: [lynn@hl7.org](mailto:lynn@hl7.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Lynn Laakso <[lynn@hl7.org](mailto:lynn@hl7.org)>

### HL7 (Health Level Seven)

455 E. Eisenhower Parkway, Suite 300 #025, Ann Arbor, MI 48108 | [lynn@hl7.org](mailto:lynn@hl7.org), [www.hl7.org](http://www.hl7.org)

#### **Reaffirmation**

BSR/HL7 EHR CHFP, R1-2008 (R202x), HL7 EHR Child Health Functional Profile, Release 1 (reaffirmation of ANSI/HL7 EHR CHFP, R1-2008)

Specifies specific Electronic Health Record System functionality to support Child and Pediatric Health and Healthcare.

Single copy price: Free

Obtain an electronic copy from: [lynn@hl7.org](mailto:lynn@hl7.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Lynn Laakso <[lynn@hl7.org](mailto:lynn@hl7.org)>

## Comment Deadline: July 22, 2024

### HL7 (Health Level Seven)

455 E. Eisenhower Parkway, Suite 300 #025, Ann Arbor, MI 48108 | [lynn@hl7.org](mailto:lynn@hl7.org), [www.hl7.org](http://www.hl7.org)

#### **Reaffirmation**

BSR/HL7 EHR CRFP, R1-2009 (R202x), HL7 EHR Clinical Research Functional Profile, Release 1 (reaffirmation of ANSI/HL7 EHR CRFP, R1-2009)

Reaffirmation of HL7 EHR Clinical Research Functional Profile, Release 1

Single copy price: Free

Obtain an electronic copy from: [lynn@hl7.org](mailto:lynn@hl7.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Lynn Laakso <[lynn@hl7.org](mailto:lynn@hl7.org)>

### HL7 (Health Level Seven)

455 E. Eisenhower Parkway, Suite 300 #025, Ann Arbor, MI 48108 | [lynn@hl7.org](mailto:lynn@hl7.org), [www.hl7.org](http://www.hl7.org)

#### **Reaffirmation**

BSR/HL7 FHIRPath R1-2020 (R202x), HL7 Cross-Paradigm Specification: FHIRPath, Release 1 (reaffirmation and redesignation of ANSI/HL7 NMN R1-2020)

FHIRPath is a path-based navigation and extraction language, somewhat like XPath. Operations are expressed in terms of the logical content of hierarchical data models, and support traversal, selection, and filtering of data.

Single copy price: Free

Obtain an electronic copy from: [ntp@hl7.org](mailto:ntp@hl7.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [ntp@hl7.org](mailto:ntp@hl7.org)

### HL7 (Health Level Seven)

455 E. Eisenhower Parkway, Suite 300 #025, Ann Arbor, MI 48108 | [lynn@hl7.org](mailto:lynn@hl7.org), [www.hl7.org](http://www.hl7.org)

#### **Reaffirmation**

BSR/HL7 PASS SECURITY LABELSRV, R1-R2014 (R202x), 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))

Reaffirming the HL7 Security Labeling Service will ensure continued ANSI normative status of a foundational conceptual security architecture standard used for implementing access control systems that enforce security labels representing privacy and security policies. Security labels are a component of the DS4P and DPROV CDA IGs, FHIR Core Security Labels, FHIR Safety Checklist, FHIR Consent, and FHIR DS4P IG, V2 security labels, DaVinci IG privacy/security, and USCDI security labels.

Single copy price: Free

Obtain an electronic copy from: [lynn@hl7.org](mailto:lynn@hl7.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Lynn Laakso <[lynn@hl7.org](mailto:lynn@hl7.org)>

## Comment Deadline: July 22, 2024

### HL7 (Health Level Seven)

455 E. Eisenhower Parkway, Suite 300 #025, Ann Arbor, MI 48108 | [lynn@hl7.org](mailto:lynn@hl7.org), [www.hl7.org](http://www.hl7.org)

#### Reaffirmation

BSR/HL7 PRIVECLASSSYS, R1-2014 (R202x), HL7 Healthcare Privacy and Security Classification System, Release 1 (reaffirmation of ANSI/HL7 PRIVECLASSSYS, R1-2014)

Reaffirming the HL7 Privacy and Security Healthcare Classification will ensure continued ANSI normative status of a foundational standard upon which the following depend: HL7 Implementation Guide: Data Segmentation for Privacy (DS4P), Data Provenance CDA IG, HL7 Version 2.8 Security Labeling Guidance, FHIR DS4P IG, FHIR Core Security Labels, FHIR Implementer's Safety Checklist, DaVinci HREX Security/Privacy referenced by other DaVinci IGs, USCDI Level 1 & 2 Security Labels.

Single copy price: Free

Obtain an electronic copy from: [lynn@hl7.org](mailto:lynn@hl7.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Lynn Laakso <[lynn@hl7.org](mailto:lynn@hl7.org)>

### HL7 (Health Level Seven)

455 E. Eisenhower Parkway, Suite 300 #025, Ann Arbor, MI 48108 | [lynn@hl7.org](mailto:lynn@hl7.org), [www.hl7.org](http://www.hl7.org)

#### Reaffirmation

BSR/HL7 V3 ECG, R1-2004 (R202x), HL7 Version 3 Standard: Regulated Studies - Annotated ECG, Release 1 (reaffirmation of ANSI/HL7 V3 ECG, R1-2004 (R2014))

These ECG data are typically collected to support the evaluation of drug-induced QT/QTc interval prolongation (ECG measurements to assess the heart's electrical properties) and proarrhythmic (new or more frequent occurrences of an irregular heartbeat) potential as described in the International Council for Harmonisation (ICH) E14 guideline

Single copy price: Free

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### HL7 (Health Level Seven)

455 E. Eisenhower Parkway, Suite 300 #025, Ann Arbor, MI 48108 | [lynn@hl7.org](mailto:lynn@hl7.org), [www.hl7.org](http://www.hl7.org)

#### Reaffirmation

BSR/HL7 V3IG INFOB, R4-2014 (R202x), HL7 Version 3 Implementation Guide: Context-Aware Knowledge Retrieval Application (Infobutton), Release 4 (reaffirmation of ANSI/HL7 V3IG INFOB, R4-2014)

The Context-Aware Knowledge Retrieval (Infobutton) specifications provide a standard mechanism for clinical information systems to request context-specific clinical knowledge from online resources. This has become a widely adopted approach to help clinicians and patients answer their clinical questions that arise in the course of care. These kinds of knowledge retrieval tools have been generally known as "Infobuttons."

Single copy price: Free

Obtain an electronic copy from: [lynn@hl7.org](mailto:lynn@hl7.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Lynn Laakso <[lynn@hl7.org](mailto:lynn@hl7.org)>



## Comment Deadline: July 22, 2024

### HL7 (Health Level Seven)

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#### Reaffirmation

BSR/HL7 V3 SOA EPSSRVINT, R1-2019 (R202x), HL7 Version 3 Standard: Event Publish & Subscribe Service Interface, Release 1 - US Realm (reaffirmation and redesignation of ANSI/HL7 V3 SOA EPSSRVINT, R1-2019)  
The Event Publish and Subscribe Service complements existing HL7 SOA services by providing a Service Functional Model (SFM) for services, components, and systems to subscribe to clinical events of interest and receive notice when new data is available.

Single copy price: Free

Obtain an electronic copy from: [lynn@hl7.org](mailto:lynn@hl7.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Lynn Laakso <[lynn@hl7.org](mailto:lynn@hl7.org)>

### HL7 (Health Level Seven)

455 E. Eisenhower Parkway, Suite 300 #025, Ann Arbor, MI 48108 | [lynn@hl7.org](mailto:lynn@hl7.org), [www.hl7.org](http://www.hl7.org)

#### Reaffirmation

BSR/HL7 V3 SOA UCRSVINT, R1-2019 (R202x), HL7 Version 3 Standard: Unified Communication Service Interface, Release 1 - US Realm (reaffirmation and redesignation of ANSI/HL7 V3 SOA UCRSVINT, R1-2019)  
The Unified Communication Service complements existing SOA services by providing a Service Functional Model (SFM) for delivering alerts, recommendations, and other notifications using a variety of transport mechanisms including email, SMS, VOIP, or other communication channels. The service provides for message routing and/or escalation to ensure that when the intended recipients are not available, appropriate surrogates can be notified in a timely manner.

Single copy price: Free

Obtain an electronic copy from: [lynn@hl7.org](mailto:lynn@hl7.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Lynn Laakso <[lynn@hl7.org](mailto:lynn@hl7.org)>

### HL7 (Health Level Seven)

455 E. Eisenhower Parkway, Suite 300 #025, Ann Arbor, MI 48108 | [lynn@hl7.org](mailto:lynn@hl7.org), [www.hl7.org](http://www.hl7.org)

#### Reaffirmation

BSR/HL7 V3XMLITS STRUCT4WFCRIDT, R1-2014 (R202x), 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)

The ITS Structures for Wire Format Compatible Release 1 Data Types specification, referred to as R2b, intends to be mostly wire-backwards-compatible to existing ITS Structures R1.1 but conformant (directly or indirectly) to abstract datatypes R2 and ISO harmonized datatypes.

Single copy price: Free

Obtain an electronic copy from: [lynn@hl7.org](mailto:lynn@hl7.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Lynn Laakso <[lynn@hl7.org](mailto:lynn@hl7.org)>

## Comment Deadline: July 22, 2024

### **HL7 (Health Level Seven)**

455 E. Eisenhower Parkway, Suite 300 #025, Ann Arbor, MI 48108 | [lynn@hl7.org](mailto:lynn@hl7.org), [www.hl7.org](http://www.hl7.org)

#### **Reaffirmation**

BSR/HL7 V3XMLITS WFCR1DT, R1-2014 (R202x), 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)

This is the Wire Format Compatible Release 1 Data Types (XML ITS R2B) for datatypes. It implements a subset of the Abstract Data Types R2 with a wire format that is mostly backwards compatible with ITS R1.

Single copy price: Free

Obtain an electronic copy from: [lynn@hl7.org](mailto:lynn@hl7.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Lynn Laakso <[lynn@hl7.org](mailto:lynn@hl7.org)>

### **NAAMM (National Association of Architectural Metal Manufacturers)**

1533 Pine Grove Lane, Chesapeake, VA 23321 | [ifnaamm@gmail.com](mailto:ifnaamm@gmail.com), [www.naamm.org](http://www.naamm.org)

#### **Revision**

BSR/NAAMM HMMA 801-24-202x, Glossary of Terms for Hollow Metal Doors and Frames (revision of ANSI/NAAMM HMMA 801-2012 (R2018))

This standard has been revised by the HMMA Division of NAAMM to provide a current list of terms and their definitions relative to the hollow metal industry.

Single copy price: \$25.00

Obtain an electronic copy from: <https://www.naamm.org/ansi-information>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Ike Flory, [ifnaamm@gmail.com](mailto:ifnaamm@gmail.com)

### **NEMA (ASC C8) (National Electrical Manufacturers Association)**

1300 North 17th Street, Suite 900, Arlington, VA 22209 | [Khaled.Masri@nema.org](mailto:Khaled.Masri@nema.org), [www.nema.org](http://www.nema.org)

#### **Revision**

BSR ICEA S-115-730-202x, Standard for Multi-Dwelling Unit (MDU) Optical Fiber Cable (revision of ANSI ICEA S-115-730-2018)

Cables covered by this Standard include two classes of cables using single-mode fiber. The cables are for use in single or multi-dwelling units (MDU) or other FTTX applications where fiber is delivered to the end customer equipment.

Single copy price: \$160.00

Obtain an electronic copy from: [KHALED.MASRI@NEMA.ORG](mailto:KHALED.MASRI@NEMA.ORG)

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

## Comment Deadline: July 22, 2024

### **PDA (Parenteral Drug Association)**

Bethesda Towers, 4350 East-West Highway, Suite 600, Bethesda, MD 20814 | [roberts@pda.org](mailto:roberts@pda.org), [www.pda.org](http://www.pda.org)

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

BSR/PDA Standard 07-202x, Analytical Procedure Replacement, Transfer, and the Use of Platform Analytical Procedures for Biologics (new standard)

The purpose of this document is to outline standard practices for analytical method lifecycle steps where technical guidance or standardized approaches are currently lacking, including Analytical Method Transfer (AMT) and Analytical Method Comparison (AMC) for replacing methods. This document will also provide a standard practice for the validation, qualification, and implementation of Platform Analytical Procedure (PAP) methods. The proposed standard is intended to support lifecycle management of analytical methods for biologics including manufacturers, testing laboratories, and regulatory authorities. The information will benefit users by providing the design of consistent and scientifically sound studies, enabling successful AMT, PAP, and AMC implementation, and improving quality of regulatory submissions.

Single copy price: Free

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [standards@pda.org](mailto:standards@pda.org)

### **ULSE (UL Standards & Engagement)**

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | [Vickie.T.Hinton@ul.org](mailto:Vickie.T.Hinton@ul.org), <https://ulse.org/>

#### ***National Adoption***

BSR/UL 60079-31-202x, Standard for Safety for Explosive Atmospheres - Part 31: Equipment Dust Ignition Protection by Enclosure t (national adoption with modifications of IEC 60079-31)

This proposal is for the Adoption of IEC 60079-31, Explosive Atmospheres – Part 31: Equipment Dust Ignition Protection by Enclosure “t”, (third edition, issued by IEC January 2022) as a new IEC-based UL Standard, UL 60079-31 with US National Differences.

Single copy price: Free

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: <https://csds.ul.com/ProposalAvailable>

### **ULSE (UL Standards & Engagement)**

1603 Orrington Ave, Suite 2000, Evanston, IL 60201 | [roger.pareja@ul.org](mailto:roger.pareja@ul.org), <https://ulse.org/>

#### ***Revision***

BSR/UL 67-202x, Standard for Panelboards (revision of ANSI/UL 67-2023)

This purpose of this revision is to revise the 13th edition of UL 67 and approve as an standard.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Roger Pareja <[roger.pareja@ul.org](mailto:roger.pareja@ul.org)>

## Comment Deadline: July 22, 2024

### ULSE (UL Standards & Engagement)

1603 Orrington Avenue, Suite 2000, Evanston, IL 60201 | [mitchell.gold@ul.org](mailto:mitchell.gold@ul.org), <https://ulse.org/>

#### Revision

BSR/UL 486C-202x, Standard for Splicing Wire Connectors (revision of ANSI/UL 486C-2023)

Ballot of the following items: (1) Addition of optional testing for the line side of service qualification; (2) Flashover Test for splicing wire connectors; (3) Revision to UL 486C Sizing Requirements; (4) Revision to UL 486C Testing Requirements; (5) Revisions to clarify requirements associated with copper-clad aluminum; (6) Alternate information means in UL 486C; (7) Addition of footnote to Table 7.4; (8) Replace Annex B with references to UL/CSA/ANCI standards; (9) Marking Clarification.

Single copy price: Free

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

Send comments (copy [psa@ansi.org](mailto: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: August 6, 2024

### ULSE (UL Standards & Engagement)

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

#### New Standard

BSR/UL 1487-202x, Standard for Battery Containment Enclosures (new standard)

This Standard addresses battery containment enclosures intended to help mitigate the heat, fire, and deflagration hazards that can result from lithium-ion battery thermal runaway. A battery containment enclosure covered by this Standard is intended to be used for storage and/or transport of lithium-ion cells, batteries, battery packs and battery-powered devices.

Single copy price: Free

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

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

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 2196-202x, Standard for Fire Test for Circuit Integrity of Fire-Resistive Power, Instrumentation, Control, and Data Cables (revision of ANSI/UL 2196-2020)

This proposal has the intent to expand the scope beyond the integrity of power during a fire event. As the need for ensuring the performance of communications cables (inclusive of coaxial, twisted pair copper, and fiber) grows, this proposal adds additional requirements to ensure the maintenance of signal integrity during a fire event. All communications cables, which are considered passive components of a complete system, should retain their intended function of continuity and integrity during a fire event.

Single copy price: Free

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

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

## 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:

### **ASABE (American Society of Agricultural and Biological Engineers)**

2950 Niles Road, Saint Joseph, MI 49085 | [walsh@asabe.org](mailto:walsh@asabe.org), <https://www.asabe.org/>

BSR/ASABE EP643 MONYEAR-202x, Putting Green and Sports Field Design and Construction (new standard)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Jean Walsh <[walsh@asabe.org](mailto:walsh@asabe.org)>

### **IEEE (Institute of Electrical and Electronics Engineers)**

445 Hoes Lane, Piscataway, NJ 08854-4141 | [s.merten@ieee.org](mailto:s.merten@ieee.org), [www.ieee.org](http://www.ieee.org)

BSR/IEEE C57.19.01-202x, Standard for Performance Characteristics and Dimensions for Power Transformer and Reactor Bushings (new standard)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Karen Evangelista <[k.evangelista@ieee.org](mailto:k.evangelista@ieee.org)>

# Final Actions on American National Standards

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

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## ADA (American Dental Association)

211 E. Chicago Avenue, Chicago, IL 60611-2678 | [swickm@ada.org](mailto:swickm@ada.org), [www.ada.org](http://www.ada.org)

ANSI/ADA Standard No. 206-2024, Dentistry - Implantable Materials for Bone Filling and Augmentation in Oral and Maxillofacial Surgery - Contents of a Technical File (national adoption with modifications of ISO 22794:2007) Final Action Date: 5/29/2024 | *National Adoption*

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201 | [jyeh2@ahrinet.org](mailto:jyeh2@ahrinet.org), [www.ahrinet.org](http://www.ahrinet.org)

ANSI/AHRI Standard 1500-2024 I-P, Performance Rating of Commercial Space Heating Boilers (revision of ANSI/AHRI Standard 1500-2014) Final Action Date: 6/3/2024 | *Revision*

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

180 Technology Parkway, Peachtree Corners, GA 30092 | [mweber@ashrae.org](mailto:mweber@ashrae.org), [www.ashrae.org](http://www.ashrae.org)

ANSI/ASHRAE Addendum 62.2o-2022, Ventilation and Acceptable Indoor Air Quality in Residential Buildings (addenda to ANSI/ASHRAE Standard 62.2-2022) Final Action Date: 5/31/2024 | *Addenda*

ANSI/ASHRAE Addendum ae to ANSI/ASHRAE Standard 34-2022, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2022) Final Action Date: 5/31/2024 | *Addenda*

ANSI/ASHRAE Addendum t to ANSI/ASHRAE Standard 15-2022, Safety Standard for Refrigeration Systems (addenda to ANSI/ASHRAE Standard 15-2022) Final Action Date: 5/31/2024 | *Addenda*

ANSI/ASHRAE/ASHE Addendum 170n-2021, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Standard 170-2021) Final Action Date: 5/31/2024 | *Addenda*

ANSI/ASHRAE/ASHE Addendum g 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: 5/31/2024 | *Addenda*

ANSI/ASHRAE/IES Addendum p 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: 5/31/2024 | *Addenda*

ANSI/ASHRAE/IES Addendum q 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: 5/31/2024 | *Addenda*

ANSI/ASHRAE/IES Addendum r 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: 5/31/2024 | *Addenda*

ANSI/ASHRAE/IES Addendum t 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: 5/31/2024 | *Addenda*

ANSI/ASHRAE/IES Addendum v 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: 5/31/2024 | *Addenda*

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

180 Technology Parkway, Peachtree Corners, GA 30092 | [etoto@ashrae.org](mailto:etoto@ashrae.org), [www.ashrae.org](http://www.ashrae.org)

ANSI/ASHRAE/IES Addendum x 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: 5/31/2024 | *Addenda*

ANSI/ASHRAE/IES Addendum z 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: 5/31/2024 | *Addenda*

ANSI/ASHRAE Standard 41.1-2024, Standard Methods for Temperature Measurement (revision of ANSI/ASHRAE Standard 41.1-2020) Final Action Date: 5/31/2024 | *Revision*

ANSI/ASHRAE Standard 41.10-2024, Standard Methods for Refrigerant Volumetric or Mass Flow Measurement Using Flowmeters (revision of ANSI/ASHRAE Standard 41.10-2020) Final Action Date: 5/31/2024 | *Revision*

**ASME (American Society of Mechanical Engineers)**

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | [ansibox@asme.org](mailto:ansibox@asme.org), [www.asme.org](http://www.asme.org)

ANSI/ASME/ANS RA-S-1.2-2024, Severe Accident progression and Radiological Release (Level 2) PRA Standard for Nuclear Power Plant Applications for Light Water Reactors (LWRs) (new standard) Final Action Date: 5/31/2024 | *New Standard*

ANSI/ASME B16.15-2024, Cast Copper Alloy Threaded Fittings (revision of ANSI/ASME B16.15-2018) Final Action Date: 5/28/2024 | *Revision*

**AWWA (American Water Works Association)**

6666 W. Quincy Avenue, Denver, CO 80235 | [mrohr@awwa.org](mailto:mrohr@awwa.org), [www.awwa.org](http://www.awwa.org)

ANSI/AWWA D121-2024, Bolted Aboveground Thermosetting FRP Panel-Type Tanks for Water Storage (new standard) Final Action Date: 5/29/2024 | *New Standard*

ANSI/AWWA B402-2024, Ferrous Sulfate (revision of ANSI/AWWA B402-2018) Final Action Date: 5/30/2024 | *Revision*

ANSI/AWWA B407-2024, Liquid Ferric Chloride (revision of ANSI/AWWA B407-2018) Final Action Date: 5/30/2024 | *Revision*

**NEMA (ASC C8) (National Electrical Manufacturers Association)**

1300 North 17th Street, Suite 900, Arlington, VA 22209 | [Khaled.Masri@nema.org](mailto:Khaled.Masri@nema.org), [www.nema.org](http://www.nema.org)

ANSI/ICEA S-58-679-2014 (R2024), Standard for Control, Instrumentation and Thermocouple Extension Conductor Identification (reaffirmation of ANSI/ICEA S-58-679-2014 (R2019)) Final Action Date: 6/3/2024 | *Reaffirmation*

**NSF (NSF International)**

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | [arose@nsf.org](mailto:arose@nsf.org), [www.nsf.org](http://www.nsf.org)

ANSI/NSF 3-2023 (i22r1), Commercial Warewashing Equipment (revision of ANSI/NSF 3-2021) Final Action Date: 5/25/2024 | *Revision*

ANSI/NSF 455-2-2024 (i57r2), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2022) Final Action Date: 5/25/2024 | *Revision*

ANSI/NSF 455-2-2024 (i64r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2022) Final Action Date: 5/30/2024 | *Revision*

ANSI/NSF 455-4-2024 (i45r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2022) Final Action Date: 5/28/2024 | *Revision*



**TAPPI (Technical Association of the Pulp and Paper Industry)**

15 Technology Parkway, Suite 115, Peachtree Corners, GA 30092 | [standards@tappi.org](mailto:standards@tappi.org), [www.tappi.org](http://www.tappi.org)

ANSI/TAPPI T 631 om-2024, Microbiological enumeration of process water and slush pulp (new standard) Final Action Date: 5/29/2024 | *New Standard*

ANSI/TAPPI T 205 sp-2018 (R2024), Forming handsheets for physical tests of pulp (reaffirmation of ANSI/TAPPI T 205 sp-2018) Final Action Date: 5/29/2024 | *Reaffirmation*

ANSI/TAPPI T 266 om-2018 (R2024), Determination of sodium, calcium, copper, iron and manganese in pulp and paper by atomic absorption spectroscopy (reaffirmation of ANSI/TAPPI T 266 om-2018) Final Action Date: 5/29/2024 | *Reaffirmation*

ANSI/TAPPI T 406 om-2013 (R2024), Reducible sulfur in paper and paperboard (reaffirmation of ANSI/TAPPI T 406 om-2013) Final Action Date: 5/28/2024 | *Reaffirmation*

ANSI/TAPPI T 453 sp-2013 (R2024), Effect of dry heat on properties of paper and board (reaffirmation of ANSI/TAPPI T 453 sp-2013 (R2020)) Final Action Date: 5/29/2024 | *Reaffirmation*

ANSI/TAPPI T 527 om-2013 (R2024), Color of paper and paperboard (d/0, C/2) (reaffirmation of ANSI/TAPPI T 527 om-2013 (R2020)) Final Action Date: 5/29/2024 | *Reaffirmation*

ANSI/TAPPI T 812 om-2013 (R2024), Ply separation of solid and corrugated fiberboard (wet) (reaffirmation of ANSI/TAPPI T 812 om-2013 (R2019)) Final Action Date: 5/29/2024 | *Reaffirmation*

ANSI/TAPPI T 834 om-2012 (R2024), Determination of containerboard roll hardness (reaffirmation of ANSI/TAPPI T 834 om-2012 (R2018)) Final Action Date: 5/29/2024 | *Reaffirmation*

ANSI/TAPPI T 1015 sp-2010 (R2024), Fiber glass mat uniformity (visual defects) (reaffirmation of ANSI/TAPPI T 1015 sp-2010 (R2015)) Final Action Date: 5/29/2024 | *Reaffirmation*

ANSI/TAPPI T 1200 sp-2014 (R2024), Interlaboratory evaluation of test methods to determine TAPPI repeatability and reproducibility (reaffirmation of ANSI/TAPPI T 1200 sp-2014 (R2020)) Final Action Date: 5/29/2024 | *Reaffirmation*

ANSI/TAPPI T 815 om-2024, Coefficient of static friction (slide angle) of packaging and packaging materials (including shipping sack papers, corrugated and solid fiberboard) (inclined plane method) (revision of ANSI/TAPPI T 815 om-2012 (R2018)) Final Action Date: 5/29/2024 | *Revision*

ANSI/TAPPI T 825 om-2024, Flat crush test of corrugated board (rigid support method) (revision of ANSI/TAPPI T 825 om-2014) Final Action Date: 5/29/2024 | *Revision*

ANSI/TAPPI T 839 om-2024, Edgewise compressive strength of corrugated fiberboard using the clamp method (short column test) (revision of ANSI/TAPPI T 839 om-2018) Final Action Date: 5/29/2024 | *Revision*

**ULSE (UL Standards & Engagement)**

47173 Benicia Street, Fremont, CA 94538 | [Marcia.M.Kawate@ul.org](mailto:Marcia.M.Kawate@ul.org), <https://ulse.org/>

ANSI/UL 25A-2024, Standard for Safety for Meters for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 - E85) (revision of ANSI/UL 25A-2019) Final Action Date: 5/31/2024 | *Revision*

ANSI/UL 25B-2024, Standard for Safety for Meters for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil (revision of ANSI/UL 25B-2020) Final Action Date: 5/31/2024 | *Revision*



**ULSE (UL Standards & Engagement)**

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ANSI/UL 79-2024, Standard for Safety for Power-Operated Pumps for Petroleum Dispensing Products (revision of ANSI/UL 79-2023) Final Action Date: 5/31/2024 | *Revision*

ANSI/UL 79A-2024, Standard for Safety for Power-Operated Pumps for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 - E85) (revision of ANSI/UL 79A-2020) Final Action Date: 5/31/2024 | *Revision*

ANSI/UL 79B-2024, Standard for Safety for Power-Operated Pumps for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil (revision of ANSI/UL 79B-2020) Final Action Date: 5/31/2024 | *Revision*

ANSI/UL 87A-2024, Standard for Safety for Power-Operated Dispensing Devices for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 - E85) (revision of ANSI/UL 87A-2019) Final Action Date: 5/31/2024 | *Revision*

ANSI/UL 87B-2024, Standard for Safety for Power-Operated Dispensing Devices for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations Up to 20 Percent (B20), Kerosene, and Fuel Oil (revision of ANSI/UL 87B-2019) Final Action Date: 5/31/2024 | *Revision*

ANSI/UL 330A-2024, Hose and Hose Assemblies for Use with Dispensing Devices Dispensing Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations Up To 85 Percent (E0 - E85) (revision of ANSI/UL 330A-2020) Final Action Date: 5/31/2024 | *Revision*

ANSI/UL 330B-2024, Hose and Hose Assemblies for Use with Dispensing Devices Dispensing Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil (revision of ANSI/UL 330B-2020) Final Action Date: 5/31/2024 | *Revision*

ANSI/UL 331A-2024, Standard for Safety for Strainers for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 - E85) (revision of ANSI/UL 331A-2020) Final Action Date: 5/31/2024 | *Revision*

ANSI/UL 331B-2024, Standard for Safety for Strainers for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil (revision of ANSI/UL 331B-2020) Final Action Date: 5/31/2024 | *Revision*

ANSI/UL 567A-2024, Standard for Safety for Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 - E85) (revision of ANSI/UL 567A-2019) Final Action Date: 5/31/2024 | *Revision*

ANSI/UL 567B-2024, Standard for Safety for Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil (revision of ANSI/UL 567B-2020) Final Action Date: 5/31/2024 | *Revision*

ANSI/UL 842A-2024, Valves for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 - E85) (revision of ANSI/UL 842A-2022) Final Action Date: 5/31/2024 | *Revision*

ANSI/UL 842B-2024, Valves for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil (revision of ANSI/UL 842B-2022) Final Action Date: 5/31/2024 | *Revision*

ANSI/UL 1203-2024, Standard for Safety for Explosion Proof and Dust-Ignition Proof Electrical Equipment for Use in Hazardous (Classified) Locations (revision of ANSI/UL 1203-2023) Final Action Date: 5/30/2024 | *Revision*

ANSI/UL 2218-2024, Standard for Impact Resistance of Prepared Roof Covering Materials (revision of ANSI/UL 2218-2022) Final Action Date: 5/28/2024 | *Revision*

**ULSE (UL Standards & Engagement)**

1603 Orrington Ave, Suite 2000, Evanston, IL 60201 | [Jeffrey.prusko@ul.org](mailto:Jeffrey.prusko@ul.org), <https://ulse.org/>

ANSI/UL 2586A-2024, Hose Nozzle Valves for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 - E85) (revision of ANSI/UL 2586A-2022) Final Action Date: 5/31/2024 | *Revision*

ANSI/UL 2586B-2024, Hose Nozzle Valves for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil (revision of ANSI/UL 2586B-2022) Final Action Date: 5/31/2024 | *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.

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## 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](mailto:jgarner@itic.org) or visit <http://www.incits.org/participation/membership-info> for more information.

Membership in all interest categories is always welcome; however, the INCITS Executive Board seeks to broaden its membership base in the following 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](http://www.scte.org) or by e-mail from [standards@scte.org](mailto:standards@scte.org).

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201 | [jyeh2@ahrinet.org](mailto:jyeh2@ahrinet.org), [www.ahrinet.org](http://www.ahrinet.org)

BSR/AHRI Standard 220-202x (SI/I-P), Reverberation Room Qualification and Testing Procedures for Determining Sound Power of HVAC Equipment (revision of ANSI/AHRI Standard 220-2022)

**DirectTrust (DirectTrust.org, Inc.)**

1629 K Street NW, Suite 300, Washington, DC 20006 | [standards@directtrust.org](mailto:standards@directtrust.org), [www.DirectTrust.org](http://www.DirectTrust.org)

BSR/DS2021-04-100-202x, Referrals via FHIR(R) over Direct (new standard)

Interest Categories: This is the call for members description below: Are you interested in contributing to the development and maintenance of the IX4HS Consensus Body? The project will evaluate and identify existing and developing standards (such as the Direct Standard®), or create new standards or profiles as needed, for the secure communication of sensitive information between healthcare settings and Human Services organizations as well as between Human Services organizations for the purposes of endpoint discovery, referral, information exchange, information requests, and care coordination.

**HI (Hydraulic Institute)**

300 Interpace Parkway, Bldg A, 3rd Floor, Parsippany, NJ 07054 | [esuarez@pumps.org](mailto:esuarez@pumps.org), [www.pumps.org](http://www.pumps.org)

BSR/HI 9.6.4-202x, Rotodynamic Pumps for Vibration Measurements and Allowable Values (revision of ANSI/HI 9.6.4-2022)

**MHI (Material Handling Industry)**

8720 Red Oak Boulevard, Suite 201, Charlotte, NC 28217 | [pdavison@mhi.org](mailto:pdavison@mhi.org), [www.mhi.org](http://www.mhi.org)

BSR/MH16.3-202X, Design, Testing, and Utilization of Industrial Steel Cantilevered Storage Racks (revision of ANSI/MH16.3-2016)

**NAAMM (National Association of Architectural Metal Manufacturers)**

1533 Pine Grove Lane, Chesapeake, VA 23321 | [ifnaamm@gmail.com](mailto:ifnaamm@gmail.com), [www.naamm.org](http://www.naamm.org)

BSR/NAAMM HMMA 801-24-202x, Glossary of Terms for Hollow Metal Doors and Frames (revision of ANSI/NAAMM HMMA 801-2012 (R2018))

**NEMA (ASC C8) (National Electrical Manufacturers Association)**

1300 North 17th Street, Suite 900, Arlington, VA 22209 | [Khaled.Masri@nema.org](mailto:Khaled.Masri@nema.org), [www.nema.org](http://www.nema.org)

BSR ICEA S-115-730-202x, Standard for Multi-Dwelling Unit (MDU) Optical Fiber Cable (revision of ANSI ICEA S-115-730-2018)

**NSF (NSF International)**

789 N. Dixboro Road, Ann Arbor, MI 48105 | [mmilla@nsf.org](mailto:mmilla@nsf.org), [www.nsf.org](http://www.nsf.org)

BSR/NSF 24-202x (i12r1), Plumbing System Components for Recreational Vehicles (revision of ANSI/NSF 24-2020)

**NSF (NSF International)**

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | [arose@nsf.org](mailto:arose@nsf.org), [www.nsf.org](http://www.nsf.org)

BSR/NSF 51-202x (i29r1), Food Equipment Materials (revision of ANSI/NSF 51-2023)

### **ULSE (UL Standards & Engagement)**

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

BSR/UL 2196-202x, Standard for Fire Test for Circuit Integrity of Fire-Resistive Power, Instrumentation, Control, and Data Cables (revision of ANSI/UL 2196-2020)

### **VITA (VMEbus International Trade Association (VITA))**

929 W. Portobello Avenue, Mesa, AZ 85210 | [jing.kwok@vita.com](mailto:jing.kwok@vita.com), [www.vita.com](http://www.vita.com)

BSR/VITA 67.3-202x, Coaxial Interconnect on VPX - Spring-Loaded Contact on Backplane (revision of ANSI/VITA 67.3-2023)

# American National Standards (ANS) Process

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Please visit ANSI's website ([www.ansi.org](http://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](http://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](http://www.ansi.org))

- ANSI Essential Requirements: Due process requirements for American National Standards (always current edition):  
[www.ansi.org/essentialrequirements](http://www.ansi.org/essentialrequirements)
- ANSI Standards Action (weekly public review announcements of proposed ANS and standards developer accreditation applications, listing of recently approved ANS, and proposed revisions to ANS-related procedures):  
[www.ansi.org/standardsaction](http://www.ansi.org/standardsaction)
- Accreditation information – for potential developers of American National Standards (ANS):  
[www.ansi.org/sdoaccreditation](http://www.ansi.org/sdoaccreditation)
- 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](http://www.ansi.org/asd)
- Lists of ANSI-Accredited Standards Developers (ASDs), Proposed ANS and Approved ANS:  
[www.ansi.org/asd](http://www.ansi.org/asd)
- American National Standards Key Steps:  
[www.ansi.org/anskeysteps](http://www.ansi.org/anskeysteps)
- American National Standards Value:  
[www.ansi.org/ansvalue](http://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](http://www.standardstolearn.org)

# American National Standards Under Continuous Maintenance

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

# ANSI-Accredited Standards Developers (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](mailto:psa@ansi.org).

## ADA (Organization)

American Dental Association  
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Chicago, IL 60611  
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## AHRI

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## ASHRAE

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## ASME

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## ASTM

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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](mailto:isot@ansi.org)); comments on ISO documents must be submitted electronically in the approved ISO template and as a Word document as other formats will not be accepted.

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

## ORDERING INSTRUCTIONS

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

## ISO Standards

### Aircraft and space vehicles (TC 20)

ISO/DIS 16615, Space systems - Stable operation requirements for satellite attitude and orbit control system - 8/17/2024, \$53.00

### Bamboo and rattan (TC 296)

ISO/DIS 16830, Specification of bamboo drinking straws - 8/17/2024, \$53.00

### Biotechnology (TC 276)

ISO/DIS 8472-2, Biotechnology - Data interoperability for stem cell data - Part 2: Key characteristics of stem cell data - 8/16/2024, \$46.00

### Fine Bubble Technology (TC 281)

ISO/DIS 21910-2, Fine bubble technology - Characterization of microbubbles - Part 2: In-situ dynamic image analysis method - 8/16/2024, \$67.00

### Health Informatics (TC 215)

ISO/DIS 17117-1, Health informatics - Terminological resources - Part 1: Characteristics - 8/15/2024, \$82.00

### Hydrogen energy technologies (TC 197)

ISO/DIS 19880-5, Gaseous hydrogen - Fuelling stations - Part 5: Dispenser hoses and hose assemblies - 8/18/2024, \$98.00

### Implants for surgery (TC 150)

ISO/DIS 18192-3, Implants for surgery - Wear of total intervertebral spinal disc prostheses - Part 3: Impingement-wear testing and corresponding environmental conditions for test of lumbar and cervical prostheses - 8/18/2024, \$67.00

### Mechanical contraceptives (TC 157)

ISO/DIS 4074, Natural rubber latex male condoms - Requirements and test methods - 8/16/2024, \$155.00

### Optics and optical instruments (TC 172)

ISO/DIS 14133, Optics and photonics - Specifications for binoculars, monoculars and spotting scopes - General purpose and high performance instruments - 8/22/2024, \$33.00

### Paints and varnishes (TC 35)

ISO/DIS 8501-3, Preparation of steel substrates before application of paints and related products - Visual assessment of surface cleanliness - Part 3: Preparation grades of welds, edges and other areas with surface imperfections - 8/17/2024, \$58.00

### Plastics (TC 61)

ISO/DIS 75-3, Plastics - Determination of temperature of deflection under load - Part 3: High-strength thermosetting laminates and long-fibre-reinforced plastics - 8/22/2024, \$58.00

ISO/DIS 4898, Rigid cellular plastics - Thermal insulation products for buildings - Specifications - 8/16/2024, \$62.00

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

ISO/DIS 15875-1, Plastics piping systems for hot and cold water installations - Crosslinked polyethylene (PE-X) - Part 1: General - 8/16/2024, \$46.00

ISO/DIS 15875-2, Plastics piping systems for hot and cold water installations - Crosslinked polyethylene (PE-X) - Part 2: Pipes - 8/17/2024, \$82.00

ISO/DIS 15875-3, Plastics piping systems for hot and cold water installations - Crosslinked polyethylene (PE-X) - Part 3: Fittings - 8/18/2024, \$82.00

ISO/DIS 15875-5, Plastics piping systems for hot and cold water installations - Crosslinked polyethylene (PE-X) - Part 5: Fitness for purpose of the system - 8/18/2024, \$46.00

### Rubber and rubber products (TC 45)

ISO/DIS 18752, Rubber hoses and hose assemblies - Wire- or textile-reinforced single-pressure types for hydraulic applications - Specification - 8/16/2024, \$67.00

### Safety of machinery (TC 199)

ISO/DIS 11161, Safety of machinery - Integration of machinery into a system - Basic requirements - 8/22/2024, \$134.00

### Terminology (principles and coordination) (TC 37)

ISO/DIS 24611-1, Language resource management - Morphosyntactic annotation framework (MAF) - Part 1: Core model - 8/18/2024, \$102.00

### Textiles (TC 38)

ISO/DIS 17299-6, Textiles - Determination of deodorant property - Part 6: Gas chromatography method using automated dosing and sampling - 8/19/2024, \$62.00

ISO/DIS 9073-11, Nonwovens - Test methods - Part 11: Run-off - 8/22/2024, \$67.00

### Transport information and control systems (TC 204)

ISO/DIS 24298, Intelligent transport systems - Public transport - Light emitting diode (LED) destination board system for public transport buses - 8/18/2024, \$71.00

ISO/DIS 17438-5, Intelligent transport systems - Indoor navigation for personal and vehicle ITS stations - Part 5: Requirements and message specification for central ITS station (C-ITS-S) based positioning - 8/16/2024, \$71.00

## IEC Standards

### All-or-nothing electrical relays (TC 94)

94/1035/CD, IEC 63522-55 ED1: Electrical Relays - Tests and measurements - Part 55: Maximum load breaking capacity, 07/26/2024

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

100/4152/CD, IEC 63002 ED3: Interoperability specifications and communication method for external power supplies used with computing and consumer electronics devices, 07/26/2024

100/4151/CD, IEC TR 63583-1 ED1: Multimedia systems and equipment for vehicles - Compact Driving Simulator (CDS) - Part 1: General, 08/23/2024

### Electrical apparatus for explosive atmospheres (TC 31)

31M/225/CD, ISO/IEC 80079-34 ED3: Explosive atmospheres - Part 34: Application of quality management systems for Ex Product manufacture, 09/20/2024

### Electrical equipment in medical practice (TC 62)

62C/912/CDV, IEC 61675-2 ED3: Radionuclide imaging devices - Characteristics and test conditions - Part 2: Gamma cameras for planar, wholebody, and SPECT imaging, 08/23/2024

### Electrostatics (TC 101)

101/713/FDIS, IEC 61340-6-1/AMD1 ED1: Amendment 1 - Electrostatics - Part 6-1: Electrostatic control in healthcare - General requirements for facilities, 07/12/2024

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

104/1061A/CD, IEC 60721-3-7 ED3: Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities - Section 7: Portable and non-stationary use, 08/16/2024

### Fibre optics (TC 86)

86A/2469/CD, IEC 60794-1-136 ED1: Optical fibre cables - Part 1-136: Generic specification - Basic optical cable test procedures - Determination of the maximum applicable push force during cable installation by blowing, 08/23/2024

86A/2453/CDV, IEC 60794-1-205 ED1: Optical fibre cables - Part 1-205: Generic specification - Basic optical cable test procedures - Environmental test methods - Water penetration, Method F5, 08/23/2024

86A/2457/CDV, IEC 60794-1-214 ED1: Optical fibre cables - Part 1-214: Generic specification - Basic optical cable test procedures - Environmental test methods - Cable UV resistance test, Method F14, 08/23/2024

### Flat Panel Display Devices (TC 110)

110/1641/CDV, IEC 63211-2-21 ED1: Durability test methods for electronic displays - Part 2-21: Environmental tests - Test methods for heat and humidity, 08/23/2024

110/1650/NP, PNW 110-1650 ED1: Eyewear display - Part 50: User interaction, 07/26/2024

### Hydraulic turbines (TC 4)

4/500/FDIS, IEC 61362 ED3: Guidelines to specification of hydraulic turbine governing systems, 07/12/2024

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

65/1051/DPAS, IEC PAS 62443-2-2 ED1: Security for industrial automation and control systems - Part 2-2: IACS Security Protection, 07/26/2024

**Lightning protection (TC 81)**

81/769/FDIS, IEC 62305-2 ED3: Protection against lightning - Part 2: Risk management, 07/12/2024

**Maritime navigation and radiocommunication equipment and systems (TC 80)**

80/1120/NP, PNW 80-1120 ED1: Maritime navigation and radiocommunication equipment and systems - Global navigation satellite systems (GNSS) - Part 8: Quasi-Zenith Satellite System (QZSS) receiver equipment - Performance requirements, methods of testing and required test results, 08/23/2024

**Measuring equipment for electromagnetic quantities (TC 85)**

85/924/NP, PNW 85-924 ED1: Electrical safety in low voltage distribution systems up to 1.000 V AC and 1.500 V DC - Equipment for testing, monitoring or measuring the protective measures in energy distribution system - part 19: Monitoring device for earthing impedance in IT-systems, 08/23/2024

**Methods for the Assessment of Electric, Magnetic and Electromagnetic Fields Associated with Human Exposure (TC 106)**

106/647(F)/FDIS, IEC 61786-1/AMD1 ED1: Amendment 1 - Measurement of DC magnetic, AC magnetic and AC electric fields from 1 Hz to 100 kHz with regard to exposure of human beings - Part 1: Requirements for measuring instruments, 06/14/2024

**Power electronics (TC 22)**

22E/267/CDV, IEC 62909-1 ED2: Bi-directional grid connected power converters - Part 1: General and safety requirements, 08/23/2024

**Small power transformers and reactors and special transformers and reactors (TC 96)**

96/599(F)/FDIS, IEC 61558-2-5 ED3: Safety of transformers, reactors, power supply units and combinations thereof - Part 2 -5: Particular requirements and test for transformer for shavers, power supply units for shavers and shaver supply units, 06/28/2024

**Solar photovoltaic energy systems (TC 82)**

82/2259(F)/FDIS, IEC 62788-7-3/AMD1 ED1: Amendment 1 - Measurement procedures for materials used in photovoltaic modules - Part 7-3: Accelerated stress tests - Methods of abrasion of PV module external surfaces, 06/14/2024

**Switchgear and controlgear (TC 17)**

17C/939/DTR, IEC TR 62271-307 ED2: High-voltage switchgear and controlgear - Part 307: Guidance for the extension of validity of type tests of AC metal and solid-insulation enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV, 07/26/2024

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

121B/199(F)/CDV, IEC 61439-8 ED1: Low-voltage switchgear and controlgear assemblies - Part 8: Assemblies for use in photovoltaic installations, 08/16/2024



# 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](http://www.ansi.org). All paper copies are available from Standards resellers (<http://webstore.ansi.org/faq.aspx#resellers>).

## ISO Standards

### Implants for surgery (TC 150)

[ISO 8637-1:2024](#), Extracorporeal systems for blood purification - Part 1: Haemodialysers, haemodiafilters, haemofilters and haemoconcentrators, \$194.00

[ISO 8637-3:2024](#), Extracorporeal systems for blood purification - Part 3: Plasmafilters, \$124.00

### Jewellery (TC 174)

[ISO 18214:2024](#), Jewellery and precious metals - Determination of high purity gold, silver, platinum and palladium - Difference method using SPARK-OES, \$81.00

### Materials, equipment and offshore structures for petroleum and natural gas industries (TC 67)

[ISO 13623:2017/Amd 1:2024](#), - Amendment 1: Petroleum and natural gas industries - Pipeline transportation systems - Amendment 1: Complementary requirements for the transportation of fluids containing carbon dioxide or hydrogen, \$23.00

[ISO 15544:2024](#), Oil and gas industries - Offshore production installations - Requirements and guidelines for emergency response, \$223.00

[ISO 6398-1:2024](#), Oil and gas industries including lower carbon energy - Submersible linear motor systems for artificial lift - Part 1: Submersible linear motor, \$194.00

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

[ISO 17491-4:2024](#), Protective clothing - Test methods for clothing providing protection against chemicals - Part 4: Determination of resistance to penetration by a spray of liquid (spray test), \$124.00

### Petroleum products and lubricants (TC 28)

[ISO 8217:2024](#), Products from petroleum, synthetic and renewable sources - Fuels (class F) - Specifications of marine fuels, \$223.00

### Refrigeration (TC 86)

[ISO 19967-2:2024](#), Air to water heat pumps - Testing and rating for performance - Part 2: Space heating and/or space cooling, \$194.00

### (TC 334)

[ISO 33403:2024](#), Reference materials - Requirements and recommendations for use, \$166.00

### Terminology (principles and coordination) (TC 37)

[ISO 21636-1:2024](#), Language coding - A framework for language varieties - Part 1: Vocabulary, \$124.00

[ISO 21636-3:2024](#), Language coding - A framework for language varieties - Part 3: Application of the framework, \$81.00

[ISO 24620-5:2024](#), Language resource management - Controlled human communication (CHC) - Part 5: Lexico-morpho-syntactic principles and methodology for personal data recognition and protection in text, \$166.00

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

[ISO 11040-4:2024](#), Prefilled syringes - Part 4: Glass barrels for injectables and sterilized subassembled syringes ready for filling, \$250.00

[ISO 11040-7:2024](#), Prefilled syringes - Part 7: Packaging systems for sterilized subassembled syringes ready for filling, \$166.00

### ISO/IEC JTC 1, Information Technology

[ISO/IEC 18477-1:2024](#), Information technology - Scalable compression and coding of continuous-tone still images - Part 1: Core coding system specification, \$124.00

[ISO/IEC 29794-1:2024](#), Information technology - Biometric sample quality - Part 1: Framework, \$166.00

## IEC Standards

### Electric cables (TC 20)

[IEC 60502-2 Amd.1 Ed. 3.0 en:2024](#), Amendment 1 - Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) - Part 2: Cables for rated voltages from 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV), \$148.00

[IEC 60502-2 Ed. 3.1 en:2024](#), Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) - Part 2: Cables for rated voltages from 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV), \$1030.00

**Electrical accessories (TC 23)**

[IEC 61196-12 Ed. 1.0 en:2024](#), Coaxial communication cables -  
Part 12: Specification for spacer clamps for radiating cables,  
\$245.00

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

[IEC 60721-3-2 Ed. 3.0 b Cor.3:2024](#), Corrigendum 3 -  
Classification of environmental conditions - Part 3-2:  
Classification of groups of environmental parameters and their  
severities - Transportation and handling, \$0.00

**Fibre optics (TC 86)**

[IEC 60794-1-201 Ed. 1.0 b:2024](#), Optical fibre cables - Part 1  
-201: Generic specification - Basic optical cable test procedures  
- Environmental test methods - Temperature cycling, method  
F1, \$103.00

[IEC 60794-1-209 Ed. 1.0 b:2024](#), Optical fibre cables - Part 1  
-209: Generic specification - Basic optical cable test procedures  
- Environmental test methods - Ageing, method F9, \$52.00

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

[IEC 63093-13 Ed. 1.0 b Cor.1:2024](#), Corrigendum 1 - Ferrite  
cores - Guidelines on dimensions and the limits of surface  
irregularities - Part 13: PQ-cores, \$0.00

# International Organization for Standardization (ISO)

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## Accreditation Announcements (US TAGs to ISO)

### Transfer of TAG Administrator (US TAG to ISO TC 260)

**Comment Deadline: June 23, 2024**

The U.S. Technical Advisory Group to ISO **TC 260, *Human resource management*** has voted to approve the transfer of TAG Administrator responsibilities from the American National Standards Institute to the HR Certification Institute (HRCI). The TAG will continue to operate under its currently accredited operating procedures.

For additional information or to submit comments, please contact: Michaela Miller, Sr. Program Manager, Standards Facilitation, American National Standards Institute, 25 W 43<sup>rd</sup> Street, 4<sup>th</sup> Floor, New York, NY 10036; ph. 212.642.8934; email: [mmiller@ansi.org](mailto:mmiller@ansi.org) (please copy [jthomps@ansi.org](mailto:jthomps@ansi.org)). If no comments are received by June 23, 2024, this action will be formally approved, effective that date.

## Call for U.S. TAG Administrator

### ISO/TC 300 – Solid recovered materials, including solid recovered fuels

**Response Deadline: June 21, 2024**

There is currently no ANSI-accredited U.S. TAG Administrator for ISO/TC 300 – *Solid recovered materials, including solid recovered fuels* and therefore ANSI is not a member of this committee. The Secretariat for the committee is held by Finland (SFS).

ISO/TC 300 operates under the following scope:

*Standardization of solid recovered materials, including solid recovered fuels, from non-hazardous waste for the purpose of utilisation (recovery and recycling) in a following process. The scope covers the material from the point of acceptance to the point of delivery into the next stage of processing.*

*Excluded: Fuels covered by ISO/TC 238.*

*NOTE Solid recovered material (SRM) is any non-hazardous waste that can be specified and classified for a specific recovery or recycling purpose, as with Solid Recovered Fuel (SRF), which is only to be called SRF if it has specifications and classes that meet the requirements for energy conversion. Other purposes may, for example, be chemical recycling and mineral input into cement manufacture. The purpose of use for the SRM, in and of itself, is not important to these SRM standards unless specifically stated as such within the relevant standard(s). Reuse is not recognised as a purpose for SRM within these standards.*

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](mailto:isot@ansi.org)).

## International Organization for Standardization (ISO)

### Call for U.S. TAG Administrator

#### ISO/TC 63 – Glass containers

**Response Deadline: June 21, 2024**

There is currently no ANSI-accredited U.S. TAG Administrator for ISO/TC 63 – *Glass containers* and therefore ANSI is not a member of this committee. The Secretariat for the committee is held by the UK (BSI).

ISO/TC 63 operates under the following scope:

*Standardization of glass containers made from moulded glass used as a means of packaging.*

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](mailto:isot@ansi.org)).

### Call for U.S. TAG Administrator

#### ISO/TC 72 – Textile machinery and accessories

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### Call for U.S. TAG Administrator

#### ISO/TC 72 – Textile machinery and accessories

**Response Deadline: June 21, 2024**

There is currently no ANSI-accredited U.S. TAG Administrator for ISO/TC 72 – *Textile machinery and accessories*, 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 72 – *Textile machinery and accessories*: Switzerland (SNV)

ISO/TC 72/SC 1 – *Spinning preparatory, spinning, twisting and winding machinery and accessories*: Switzerland (SNV)

ISO/TC 72/SC 8 – *Safety requirements for textile machinery*: Germany (DIN)

ISO/TC 72/SC 10 – *Common standards*: Switzerland (SNV)

ISO/TC 72 operates under the following scope:

*Standardization of textile machinery, parts thereof and of accessories; machinery for dry-cleaning and industrial laundering and parts thereof and of accessories.*

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](mailto:isot@ansi.org)).



## **International Organization for Standardization (ISO)**

### **Call for U.S. TAG Administrator**

#### **ISO/TC 91 – Surface active agents**

**Response Deadline: June 21, 2024**

There is currently no ANSI-accredited U.S. TAG Administrator for ISO/TC 91 – *Surface active agents* and therefore ANSI is not a member of this committee. The Secretariat for the committee is held by the Islamic Republic of Iran (INSO).

ISO/TC 91 operates under the following scope:

*Standardization in the field of surface active agents and mixtures containing one or more surface active agents with or without other conventional components of soap and detergent formulations.*

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](mailto:isot@ansi.org)).

# Meeting Notices (International)

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## **American Society of Safety Professionals**

### **U.S. TAG to ISO/TC 283 – Occupational health and safety management**

**Meeting Date: June 19, 2024 2:30 PM - 4:30 PM Central Time**

The ANSI Accredited U.S. Technical Advisory Group (U.S. TAG) to ISO/TC 283 “Occupational health and safety management” has announced a virtual meeting on June 19, 2024 from 2:30 PM to 4:30 PM Central time.

For more information or to participate, please contact the U.S. TAG Administrator, Mr. Tim Fischer ([TFisher@assp.org](mailto:TFisher@assp.org)).

# Registration of Organization Names in the United States

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The Procedures for Registration of Organization Names in the United States of America (document ISSB 989) require that alphanumeric organization names be subject to a 90-day Public Review period prior to registration. For further information, please contact the Registration Coordinator at (212) 642-4975.

When organization names are submitted to ANSI for registration, they will be listed here alphanumerically.

Alphanumeric names appearing for the first time are printed in bold type. Names with confidential contact information, as requested by the organization, list only public review dates.

## Public Review

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

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

# Proposed Foreign Government Regulations

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## 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](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](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](https://tcc.export.gov/report_a_barrier/trade_barrier_examples/index.asp).

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



**BSR/ASHRAE Addendum f  
to ANSI/ASHRAE Standard 15.2-2022**

**First Public Review Draft**

**Proposed Addendum f to  
Standard 15.2-2022, Safety Standard  
for Refrigeration Systems in  
Residential Applications**

**First Public Review (May 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 <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts> and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore) or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE website, [www.ashrae.org](http://www.ashrae.org).

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*Residential Applications*

First Public Review Draft

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

## FOREWORD

*The US Environmental Protection Agency promulgated SNAP Final Rule 25 (88 FR 26382) on April 28, 2023. In this rule, the EPA approved the use of R–1234yf, R–32, R–452B, R–454A, R–454B, and R–454C in residential dehumidifiers and chillers for comfort cooling. R–32, R–452B, R–454A, R–454B, R–454C, and R–457A had previously been approved for use in residential and light commercial air conditioning and heat pumps by the EPA in SNAP Final Rule 23 (86 FR 24444). Due to their prior SNAP approval, Tables 9–1, 9–2, 9–5, 9–9, and 9–13 in the standard included R–32, R–452B, R–454A, R–454B, R–454C, and R–457A but not R–1234yf. Since R–1234yf is now SNAP-approved, this addendum adds R–1234yf to those tables.*

*This addendum also revises equations to calculate releasable refrigerant charge for refrigerants previously published in the standard after an error was identified in the calculator used to determine the refrigerant density correction factors.*

*The last change is to revise the maximum permissible inductive load values for R–452B, R–454A, and R–454B using latest measurements of burning velocity as required by UL 60335–2–40.*

**Note:** This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~strike 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 f to Standard 15.2-2022

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

## 9. REFRIGERANT CHARGE LIMITS

### 9.3 Flammable A2L Refrigerant Charge Levels for Mitigation.

[ ... ]

**Table 9–1 Flammable A2L Refrigerant Charge Levels for Mitigation**

	<i>m</i> <sub>1</sub> Charge Level		<i>m</i> <sub>2</sub> Charge Level	
	lbm	kg	lbm	kg
R–32	4.1	1.8	35.1	15.9
R–452B	4.1	1.9	35.6	16.1
R–454A	3.7	1.7	32.3	14.6
R–454B	3.9	1.8	34.0	15.4
R–454C	3.9	1.8	33.4	15.2
R–457A	2.9	1.3	24.8	11.2
<u>R–1234yf</u>	<u>3.8</u>	<u>1.7</u>	<u>33.1</u>	<u>15.0</u>

[ ... ]

**9.5 Maximum Allowable Refrigerant Charge.**

[ ... ]

**Table 9–2 LFL Conversion Factor**

Refrigerant	C
R-32	1.00
R-452B	1.02
R-454A	0.90
R-454B	0.96
R-454C	0.94
R-457A	0.65
<u>R-1234yf</u>	<u>0.93</u>

*Note to the reader: Some values in Table 9–2 were recently revised in addendum c to ASHRAE Standard 15.2–2022.*

[ ... ]

**9.6 Releasable Refrigerant Charge ( $m_{rel}$ ).** Releasable refrigerant charge ( $m_{rel}$ ) shall be determined as shown in the following subsections.

**9.6.1** For systems without safety shut-off values, the releasable refrigerant charge ( $m_{rel}$ ) shall be the system refrigerant charge ( $m_s$ ).

**9.6.2** For systems using safety shut-off valves, the releasable refrigerant charge ( $m_{rel}$ ) shall be determined according to Section 9.6.3.

[ ... ]

**9.6.3 Releasable Refrigerant Charge for Systems Using Safety Shut-Off Valves with A2L Refrigerants.** The releasable refrigerant charge ( $m_{rel}$ ) shall be the refrigerant contained in the interconnecting tubing and indoor section located downstream of the safety shut-off valves and shall be the largest value determined by Sections 9.6.3.1, 9.6.3.2, and 9.6.3.3. The releasable refrigerant charge ( $m_{rel}$ ) shall not exceed the maximum refrigerant charge ( $m_{max}$ ) as determined by Section 9.5.

**9.6.3.1 Releasable Refrigerant Charge in Heating Mode.** The releasable refrigerant charge in heating mode shall be calculated using the appropriate equation from Table 9-5.

**9.6.3.2 Releasable Refrigerant Charge in Cooling Mode.** The releasable refrigerant charge in cooling mode shall be calculated using the appropriate equation from Table 9-9.

**9.6.3.3 Releasable Refrigerant Charge in Off/Standby Mode.** The releasable refrigerant charge in off/standby mode shall be calculated using the appropriate equation from Table 9-13.

[ ... ]

**Table 9–5  $m_{rel}$  Equations for Systems Using Safety Shut-Off Valves in Heating Mode**

Refrigerant	Releasable Refrigerant Charge in Heating Mode
R-32	$m_{rel} = ML_H + MG_H + MU_H$
R-452B	$m_{rel} = (1.03 \times ML_H) + (1.11 \times MG_H) + (1.04 \times MU_H)$
R-454A	$m_{rel} = (1.07 \times ML_H) + (1.05 \times MG_H) + (1.06 \times MU_H)$
R-454B	$m_{rel} = (1.02 \times ML_H) + (1.08 \times MG_H) + (1.03 \times MU_H)$
R-454C	$m_{rel} = (1.09 \times ML_H) + (0.99 \times MG_H) + (1.08 \times MU_H)$
R-457A	$m_{rel} = (1.08 \times ML_H) + (0.87 \times MG_H) + (1.06 \times MU_H)$
<u>R-1234yf</u>	<u><math>m_{rel} = (1.16 \times ML_H) + (0.85 \times MG_H) + (1.13 \times MU_H)</math></u>

$ML_H$  = refrigerant liquid contained in liquid interconnecting tubing in heating mode in lb<sub>m</sub> (kg) per Table 9–6.

$MG_H$  = refrigerant vapor contained in vapor interconnecting tubing in heating mode in lb<sub>m</sub> (kg) per Table 9–7.

$MU_H$  = refrigerant contained in the indoor section in heating mode in lb<sub>m</sub> (kg) per Table 9–8.

BSR/ASHRAE Addendum f to ANSI/ASHRAE Standard 15.2–2022, *Safety Standard for Refrigeration Systems in Residential Applications*  
First Public Review Draft

[ ... ]

**Table 9–9  $m_{rel}$  Equations for Systems Using Safety Shut-Off Valves in Cooling Mode**

Refrigerant	Releasable Refrigerant Charge in Cooling Mode
R-32	$m_{rel} = ML_C + MG_C + MU_C$
R-452B	$m_{rel} = (1.02 \times ML_C) + (1.11 \times MG_C) + (\del{0.91}1.04 \times MU_C)$
R-454A	$m_{rel} = (1.07 \times ML_C) + (1.01 \times MG_C) + (\del{0.93}1.06 \times MU_C)$
R-454B	$m_{rel} = (1.02 \times ML_C) + (1.07 \times MG_C) + (\del{0.90}1.03 \times MU_C)$
R-454C	$m_{rel} = (1.10 \times ML_C) + (0.94 \times MG_C) + (\del{0.94}1.06 \times MU_C)$
R-457A	$m_{rel} = (1.09 \times ML_C) + (0.82 \times MG_C) + (\del{0.92}1.04 \times MU_C)$
<u>R-1234yf</u>	<u><math>m_{rel} = (1.16 \times ML_C) + (0.80 \times MG_C) + (1.09 \times MU_C)</math></u>

$ML_C$  = refrigerant liquid contained in liquid interconnecting *tubing* in cooling mode in lb<sub>m</sub> (kg) per Table 9–10.

$MG_C$  = refrigerant vapor contained in vapor interconnecting *tubing* in cooling mode in lb<sub>m</sub> (kg) per Table 9–11.

$MU_C$  = refrigerant contained in the *indoor section* in cooling mode in lb<sub>m</sub> (kg) per Table 9–12.

[ ... ]

**Table 9–13  $m_{rel}$  Equations for Systems Using Safety Shut-Off Valves in Off/Standby Mode**

Refrigerant	Releasable Refrigerant Charge in Off/Standby Mode
R-32	$m_{rel} = ML_S + MG_S + MU_S$
R-452B	$m_{rel} = (\del{1.03}1.05 \times ML_S) + (\del{1.03}1.05 \times MG_S) + (\del{1.03}1.05 \times MU_S)$
R-454A	$m_{rel} = (\del{1.06}1.05 \times ML_S) + (\del{1.06}1.05 \times MG_S) + (\del{1.06}1.05 \times MU_S)$
R-454B	$m_{rel} = (1.03 \times ML_S) + (1.03 \times MG_S) + (1.03 \times MU_S)$
R-454C	$m_{rel} = (\del{1.08}1.06 \times ML_S) + (\del{1.08}1.06 \times MG_S) + (\del{1.08}1.06 \times MU_S)$
R-457A	$m_{rel} = (\del{1.07}1.03 \times ML_S) + (\del{1.07}1.03 \times MG_S) + (\del{1.07}1.03 \times MU_S)$
<u>R-1234yf</u>	<u><math>m_{rel} = (1.08 \times ML_S) + (1.08 \times MG_S) + (1.08 \times MU_S)</math></u>

$ML_S$  = refrigerant liquid contained in liquid interconnecting *tubing* in off/standby mode in lb<sub>m</sub> (kg) per Table 9–14.

$MG_S$  = refrigerant vapor contained in vapor interconnecting *tubing* in off/standby mode in lb<sub>m</sub> (kg) per Table 9–15.

$MU_S$  = refrigerant contained in the *indoor section* in off/standby mode in lb<sub>m</sub> (kg) per Table 9–16.

[ ... ]

**Modify Section 12 as follows. The remainder of Section 12 remains unchanged.**

## 12. ADD-ON HEAT PUMPS

[ ... ]

**Table 12–1 Maximum Inductive Loads**

Refrigerant	Breaking All Phases	Breaking 2 Legs (3Ph) or 1 Leg (1Ph)
R-32	<u>5.0</u>	2.5
R-452B	<del>38.7</del> <u>39.4</u>	<del>19.4</del> <u>19.7</u>
R-454A	<del>12.1</del> <u>11.8</u>	<del>6.1</del> <u>5.9</u>
R-454B	<del>5.7</del> <u>5.6</u>	2.8
R-454C	39.4	19.7
R-457A	6.4	3.2
<u>R-1234yf</u>	<u>39.4</u>	<u>19.7</u>

[ ... ]

**Modify Informative Appendix A as follows. The remainder of Informative Appendix A remains unchanged.**

[ ... ]



**Section 6.1**

~~For A2L refrigerants, this~~ This standard provides tabulated values for ~~covers over~~ the group A2L refrigerants listed as acceptable for use in the residential and light commercial air conditioning and heat pumps end uses in the ~~recently proposed~~ SNAP 23 and 25 rule Final Rules from the U.S. EPA: R–32, R–452B, R–454A, R–454B, R–454C, R–457A, and R–1234yf. Other group A2Ls refrigerants will be added as they ~~become available~~ are approved by the U.S. EPA.

[ ... ]

**Section 9.6**

Tables in this section are derived from equations in UL 60335-2-40/CSA-C22.2 No. 60335-2-40<sup>2</sup>. The factor 68 g/s (0.15 lb/s) was reduced to 6.8 g/s (0.015 lb/s), the 1.3 multiplier was eliminated, and the vapor-liquid ratios were found to be wrong and inverted. The *releasable refrigerant charge*,  $m_{rel}$ , is the larger value as calculated by Appendix A, Sections 9.6.3.1, 9.6.3.2, and ~~9.6.3.2~~ 9.6.3.3, below. ~~It was determined that the off mode releasable charge was always lower than the heating mode and cooling mode and is not shown here.~~ The *releasable refrigerant charge* is calculated using the internal volume of all interconnecting *tubing* and all *indoor sections* downstream of the *safety shut-off valves*. Internal volume of *tubing* is determined by multiplying the length of *tubing* times the internal volume per length specified in Table A–1. *Refrigerant* real gas properties are from either NIST REFPROP, or ISO 17584, or the *refrigerant manufacturer*. Table A–2 provides values of *refrigerant* density that may be used to calculate *releasable refrigerant charge* in the absence of *refrigerant* properties from NIST REFPROP, ISO 17584, or the *refrigerant manufacturer*.

[ ... ]

**Section 12.1.6**

The maximum inductive load is a function of the ~~refrigerant~~ highest burning velocity at of the refrigerant as determined in accordance with UL 60335–2–40<sup>2</sup>, considering both dry and worst case formulation (WCF) condition humid air burning velocity measurements as reported in ISO 817. Currently, ISO 817 does not list there is no value listed humid air burning velocity velocities at WCF for R–454C and R–457C for R–1234yf and R–457A. ~~For the table, the worst case fractionated formulation (WCF) values were used.~~ Based on the trends exhibited by the burning velocities of R–32 and R–32/R–1234yf-containing blends, the highest burning velocity of R–1234yf is expected to be lower than the highest burning velocity of R–454C. Therefore, the maximum inductive loads shown here for R–454C are also used for R–1234yf. For R–457A, the burning velocity reported in ISO 817 is the WCF in dry air. This value is expected to be higher than the WCF value. As this is the only available burning velocity value, it was used as the basis for the maximum inductive loads for this blend. This Once the required burning velocities are reported in ISO 817, the maximum inductive loads in Table 12–1 will be updated when those accordingly burning velocities are available for R–1234yf and R–457A. The maximum allowable inductive load (switched electrical load) in kVA for add-on heat pumps is calculated with one of the following equations:

[ ... ]



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

**First Public Review Draft**

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

**First Public Review (May 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](http://www.ashrae.org/standards-research--technology/public-review-drafts) and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore) or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

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## FOREWORD

*In response to a continuous maintenance proposal, this addendum revises portions of Standard 15 related to ventilation of machinery rooms.*

**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 o to Standard 15-2022

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

## 8. INSTALLATION RESTRICTIONS

[ ... ]

### 8.9 Refrigerating Machinery Room, General Requirements.

[ ... ]

**8.9.5** Each refrigerating *machinery room* shall contain a ~~detector~~ *refrigerant detector*, located in an area where *refrigerant* from a leak will concentrate, that actuates an alarm and mechanical ventilation in accordance with Section ~~8.9.7~~ *8.9.6* at a set point not greater than the *occupational exposure limit (OEL)* value as published in ASHRAE Standard 34<sup>3</sup>. [...]

[...]

**8.9.6\*** *Machinery rooms*, in accordance with Section 8.9, shall be vented to the outdoors, using mechanical ventilation in accordance with Sections 8.9.7 and 8.9.8. The air temperature within the *machinery room* shall not exceed 122°F (50°C).

~~8.9.7~~ Mechanical ventilation referred to in Section 8.9.6 shall be by one or more power-driven fans capable of exhausting air from the machinery room at least in the amount given in the formula in Section 8.9.8. ~~To obtain a reduced airflow for normal ventilation, multiple fans or multispeed fans shall be used. Provision shall be made for inlet air to replace that being exhausted. Openings for inlet air shall be positioned to avoid recirculation. Air supply and exhaust ducts to the machinery room shall serve no other area. The discharge of the air shall be to the outdoors in such a manner so as not to cause a nuisance or danger. The mechanical exhaust inlets shall be located in an area where refrigerant from a leak is likely to concentrate, in consideration of the location of the replacement air paths, refrigerating machines, and the density of the refrigerant relative to air.~~

**8.9.7\* General.** Mechanical ventilation referred to in Section 8.9.6 shall comply with the following:

- Include one or more fans capable of exhausting air from the *machinery room*.
- Include *makeup air* provisions to replace air being exhausted.
- Ducts* for supply to and exhaust from the *machinery room* shall serve no other space.
- The *makeup air* supply locations in the *machinery room* shall be positioned relative to the exhaust opening locations within the *machinery room* to avoid short circuiting of ventilation airflow within the *machinery room*.
- Inlets to exhaust openings or *ducts* shall be located where leaked *refrigerant* will concentrate.

f. The bottom edges of inlets to exhaust openings or ducts shall be within 1.00 ft (0.30 m) of the floor at locations identified per Section 8.9.7(e).

g. Where the machinery room contains refrigerants with relative molar mass less than 42.0, additional inlets to exhaust openings or ducts shall be within 1.00 ft (0.30 m) of the highest point of the machinery room.

h. The discharge of the exhaust air shall be to the outdoors in such a manner so as not to cause a nuisance or danger.

i. Mechanical ventilation systems used to exhaust refrigerant shall not be combined with combustion venting systems.

**8.9.8 Ventilation Airflow.** For Group A1, A2, A3, B1, B2, and B3, For machinery rooms containing only Group A1 or B1 refrigerants, or containing any A2, A3, B2, or B3 refrigerants, the airflow shall comply with Section 8.9.8.1 and 8.9.8.2.

8.9.8.1 When personnel are present, the machinery room mechanical ventilation in Section 8.9.7 shall automatically or manually exhaust at an airflow rate not less than 0.50 ft<sup>3</sup>/min/ft<sup>2</sup> (0.0025 m<sup>3</sup>/s/m<sup>2</sup>) of machinery room area.

8.9.8.2 When triggered by the refrigerant detector of Section 8.9.5, the machinery room shall be ventilated automatically to supply not less than the airflow calculated using Equation 8-1a or 8-1b: The mechanical ventilation required to exhaust an accumulation of refrigerant due to leaks or a rupture of the refrigeration system shall be capable of removing air from the machinery room in not less than the quantity calculated using Equation 8-1a or 8-1b:

$$Q = 100 \times G^{0.5} \quad (8-1a \text{ [I-P]})$$

$$Q = 0.070 \times G^{0.5} \quad (8-1b \text{ [SI]})$$

where

$Q$  = airflow, ft<sup>3</sup>/min (m<sup>3</sup>/s)

$G$  = mass of refrigerant in the largest refrigeration system (*independent circuit*), any part of which is located in the *machinery room*, lb (kg)

A part of the refrigerating machinery room mechanical ventilation shall be

a. operated, when occupied, to supply at least 0.5 ft<sup>3</sup>/min/ft<sup>2</sup> (0.00254 m<sup>3</sup>/s/m<sup>2</sup>) of machinery room area or 20 ft<sup>3</sup>/min (0.00944 m<sup>3</sup>/s) per person and

b. operable when occupied at a volume required to not exceed the higher of a temperature rise of 18°F (10°C) above inlet air temperature or a maximum temperature of 122°F (50°C).

**8.9.9** No open flames that use combustion air from the *machinery room* shall be [...]

[ ... ]

**8.10 Machinery Room, Special Requirements.** In cases *specified* in the rules of Section 7.4, a refrigerating *machinery room* shall meet the following special requirements in addition to those in Section 8.9:

[ ... ]

**8.11 Machinery Room, Special Requirements, A2L and B2L.** When in cases specified in Section 7.4, and when a refrigeration system *refrigerating system* is located indoors, and a *machinery room* is required by Section 7.4.3, *machinery rooms* shall comply with Sections 8.11.1 through 8.11.7 8.11.10 in addition to Sections 8.9.1 through 8.9.4.

**8.11.1\*** The air temperature within the *machinery room* shall not exceed 122°F (50°C). There shall be no flame-producing device or hot surface over 1290°F (700°C) in the room, other than that used for maintenance or repair, unless installed in accordance with Section 8.9.9.

[ ... ]

**8.11.11\* Ventilation.** *Machinery rooms*, in accordance with Section 8.11, shall be vented to the outdoors using mechanical ventilation in accordance with Sections 8.11.11.1 through 8.11.11.3 8.11.11.4.

**8.11.11.1\*** Mechanical ventilation referred to in Section 8.11.11 shall be in accordance comply with all of the following:

- a. Include one or more ~~power-driven~~ fans capable of exhausting air from the *machinery room*; ~~multispeed fans shall be permitted.~~
- b. ~~Electric motors driving fans shall not be placed inside ducts; fan rotating elements shall be nonferrous or nonsparking, or the casing shall consist of or be lined with such material.~~
- e. ~~b.~~ Include makeup air provisions to supply makeup air to replace that air being exhausted;
- c. ~~ducts~~ Ducts for supply to and exhaust from the *machinery room* shall serve no other area space;
- d. ~~the~~ The makeup air supply locations in the *machinery room* shall be positioned relative to the makeup air exhaust opening locations within the *machinery room* to avoid short circuiting of ventilation airflow within the *machinery room*.
- ~~d.~~ e. Inlets to the exhaust openings or ducts shall be located in an area where leaked refrigerant from a leak will concentrate, in consideration of the location of the replacement supply air paths, refrigerating machines, and the density of the refrigerant relative to air.
- e. f. The bottom edges of inlets ~~Inlets~~ to exhaust openings or ducts shall be within 1 ft 1.00 ft (0.3 m 0.30 m) of the lowest point of the *machinery room* floor at locations identified per Section 8.11.11.1(e.) for refrigerants that are heavier than air and shall be within 1 ft (0.3 m) of the highest point for refrigerants that are lighter than air.
- g. Where the *machinery room* contains refrigerants with relative molar mass less than 42.0, additional inlets to exhaust openings or ducts shall be within 1.00 ft (0.30 m) of the highest point of the *machinery room*.
- f. h. The discharge of the exhaust air shall be to the outdoors in such a manner as not to cause a nuisance or danger.
- i. Mechanical ventilation systems used to exhaust refrigerant shall not be combined with combustion venting systems.
- j. Electric motors driving fans shall not be placed inside ducts; fan rotating elements shall be nonferrous or nonsparking, or the casing shall consist of or be lined with such material.

**8.11.11.2 Level 1 Ventilation.** When personnel are present, ~~The~~ the refrigerating *machinery room* mechanical ventilation in Section 8.11.11.1 shall automatically or manually exhaust at an airflow rate not less than 0.50 ft<sup>3</sup>/min/ft<sup>2</sup> (0.0025 m<sup>3</sup>/s/m<sup>2</sup>) of *machinery room* area shown in Table 8-2.

**Table 8-2 Level 1 Ventilation Rate for Class 2L Refrigerants**

Status	Airflow
Operated when occupied, and operated when activated in accordance with Section 8.11.9(c) and Table 8-1	The greater of <ol style="list-style-type: none"> <li>a. 0.5 ft<sup>3</sup>/min/ft<sup>2</sup> (0.00254 m<sup>3</sup>/s/m<sup>2</sup>) of <i>machinery room</i> area or</li> <li>b. 20 ft<sup>3</sup>/min (0.00944 m<sup>3</sup>/s) per person</li> </ol>
Operable when occupied	With or without mechanical cooling of the <i>machinery room</i> , the greater of <ol style="list-style-type: none"> <li>a. the airflow rate required to not exceed a temperature rise of 18°F (10°C) above inlet air temperature or</li> <li>b. the airflow rate required to not exceed a maximum air temperature of 122°F (50°C) in the <i>machinery room</i></li> </ol>

**8.11.11.3 Level 2 Ventilation.** A part of the refrigerating machinery room mechanical ventilation referred to in Section 8.11.11.1 shall exhaust an accumulation of refrigerant due to leaks or a rupture of a refrigerating system, or portion thereof, in the machinery room. The refrigerant detectors required in accordance with Section 8.11.8 shall activate ventilation at a set point and response time in accordance with Table 8-1, at an airflow rate not less than the value determined in accordance with Section 8.11.11.4. When triggered by the refrigerant detector of Section 8.11.8, at a set point and response time in accordance with Table 8-1, the machinery room shall be ventilated automatically to supply not less than the airflow determined in accordance with Section 8.11.11.4.

When multiple *refrigerant designations* are in the *machinery room*, evaluate the required airflow according to each *refrigerating system*, and the highest airflow quantity *shall* apply.

Ventilation reset *shall* be in accordance with the type of reset in Table 8-1. Manual-type ventilation reset *shall* have the reset located inside the refrigerating *machinery room*.

***Modify Informative Appendix A as follows. The remainder of Informative Appendix A remains 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 8.9.6 and Section 8.11.11**

*Machinery rooms* are typically provided with a ventilation system, or mechanical cooling system, or combination of both. When evaluating whether ventilation alone, without the use of mechanical cooling, is sufficient to maintain adequate ambient temperature in a *machinery room*, consult the annual 2% design dry bulb temperature for the installation location. As the available supply air temperature during hot weather conditions approaches the temperature limit of the *machinery room*, the required airflow increases significantly, and the addition of mechanical cooling may be required.

#### **Section 8.9.6 and Section 8.11.1.**

The limit of 122°F (50°C) is based on a safety margin to the 140°F (60°C) flame propagation test temperature used to determine flammability classification. Use of equipment marked for an ambient temperature rating in excess of 122°F (50°C) does not permit a higher allowable *machinery room* space temperature. Use of equipment marked for an ambient temperature rating of 104°F (40°C) will limit the allowable *machinery room* space temperature to 104°F (40°C).

The maximum temperature limit applies to the bulk air temperature, spatially averaged over a significant portion of the *machinery room* volume, and should not be evaluated locally in proximity to an exhaust outlet for an air-cooled electrical equipment or near other heat producing equipment.

#### **Section 8.9.7(e) and Section 8.11.11.1(e)**

When determining location(s) of *makeup air* supply and location(s) of exhaust intakes, the user should consider the resulting air paths and location(s) of *refrigerating systems*.





**BSR/ASHRAE/ASHE Addendum i  
to ANSI/ASHRAE/ASHE Standard 189.3-2021**

**Public Review Draft**

**Proposed Addendum i to  
Standard 189.3-2021, Design,  
Construction, and Operation of  
Sustainable High-Performance  
Health Care Facilities**

**(Draft shows Proposed Changes to Current Standard)**

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

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE website, [www.ashrae.org](http://www.ashrae.org).

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

BSR/ASHRAE/ASHE Addendum i to ANSI/ASHRAE/ASHE Standard 189.3-2021, *Design, Construction, and Operation of Sustainable High-Performance Health Care Facilities*

First Public Review Draft

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## FOREWORD

This addendum follows the changes in 189.1-2023, Section 7.3.6 to have electrical infrastructure for the building for future electrification of fossil fuel equipment. This change adds an informative note cautioning designers to consider the appropriate electrical infrastructure branch when designing their systems.

**Note:** This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~striethrough~~ (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 i to Standard 189.3-2021

***Add Section 7.3.6 as follows:***

**7.3.6 [JO] Electrical infrastructure.** Electrical infrastructure shall be provided in accordance with Standard 189.1 section 7.3.6.

***Informative Note:*** The project team should evaluate whether the branch circuit is served from the normal branch circuit or the essential electrical system (EES) equipment branch circuit, as required by other standards.





**BSR/ASHRAE/ASHE Addendum j  
to ANSI/ASHRAE/ASHE Standard 189.3-2021**

**Public Review Draft**

**Proposed Addendum j to  
Standard 189.3-2021, Design,  
Construction, and Operation of  
Sustainable High-Performance  
Health Care Facilities**

**(Draft shows Proposed Changes to Current Standard)**

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

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## FOREWORD

Material and product resilience is important in all types of healthcare facilities, because of infection risk based on pre-mature failure or inappropriate specification for the application based on the cleaning, sanitizing, and disinfecting requirements of healthcare spaces. This change requires the Materials section with subsequent recommendations to the Operations and Indoor Environmental Quality sections. New references are added for the user to comply with specifically rated cleaning products.

*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 j to Standard 189.3-2021**

***Modify Section 3 as follows. The remainder of Section 3 remains unchanged.***

#### Definitions

...

***High Touch Surfaces:*** a frequently touched surface within a healthcare setting. Reference: Centers for Disease Control and Prevention: <https://www.cdc.gov/hai/prevent/resource-limited/high-touch-surfaces.html>

***Fomite:*** a high touch surface (e.g., door levers, chair arm, cubicle curtain, bedrail, light switch, etc.) that may be contaminated with infectious pathogens and serve as a means for transmission.

...

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

**8.4.2.7 [JO] Exposure and care population.** For sensitive and/or vulnerable care populations being treated in healthcare settings, comply with the Allergy Standards Ltd (ASL) or equivalent standards for products specified.

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

#### **9.6 Material Resilience**

**9.6.1 High Touch Surfaces (Fomites), Floors, and Wall Finish Selection.** Surface and material selection for healthcare environments shall be based on anticipated product service life, durability, cleaning, sanitizing, and disinfecting methods, and application conforming to the *owner's project requirements (OPR)*.

**9.6.1.1 Performance Metric.** Surfaces and materials shall meet *OPR* performance characteristics and criteria that address risks identified in the safety risk assessment completed as part of the functional programming process. The assessment includes material selection criteria and product service life completed in accordance with the Facility Guidelines Institute's *Guidelines for Design and Construction of Hospitals*, *Guidelines for Design and Construction of Outpatient Facilities*, and *Guidelines for Design and Construction of Residential Health, Care, and Support Facilities*.

**9.6.1.2 Documentation.** Product and finish specifications and schedules shall be provided in construction/contract documentation that include the cleaning, sanitizing, and/or disinfecting manufacturer recommendations based on the documented requirements in the OPR from the completed safety risk assessment.

***Informative Note:*** The colors, textures, and patterns of surface materials should be evaluated according to *patient* and *resident*, staff, and visitor safety based on demographic and diagnosis of *patient* or *resident*. The impact of the Centers for Disease Control and Prevention (CDC) required frequency methods and chemicals used for cleaning, sanitizing, and disinfecting surfaces in healthcare environments should be evaluated in the planning and design of healthcare settings to enhance maintenance and meet product life-cycle performance. Use of minimum performance testing standards (e.g., ASTM standards) can verify if a product meets specific performance criteria. When selecting surfaces, materials, and products, third-party independent testing can assure that they meet necessary code and anticipated product service life requirements.

**9.7.2 Reusable Goods.** For building projects with residential spaces, there shall be an area that serves the entire building and is designed for the collection and storage of discarded but clean items in good condition for materials and products that have not been breached nor considered infectious or hazardous waste. If periodic pickups by charitable organizations or others to be arranged, for periodic pickups notices shall be identified and posted.

***Informative Note:*** Products that do not have a breached surface should be evaluated for re-use and/or refurbishment for landfill avoidance. Re-use and refurbishment of stored materials and products, including those that are componentized, should be inventoried within dedicated storage areas for future use.

***Modify Section 10 as follows. The remainder of Section 10 remains unchanged.***

**10.9.5 Building Green Cleaning Plan.** A green cleaning plan shall be developed for the building project in compliance with Green Seal Standard GS-42 and Centers for Disease Control and Prevention requirements to maintain infection control. US Environmental Protection Agency (EPA) Design for the Environment (DfE) Certified Disinfectants and EPA's Safer Choice Chemicals (or equivalent jurisdiction) to be utilized if they meet the efficacy requirements for disinfection based on pathogen. *Note:* EPA Registration Numbers are used to identify active ingredients for disinfection.

**Exception to 10.9.5:** *Dwelling units of a building project.*

**10.9.5.1 Chemical Storage.** Based on care population, chemical storage to be secured.

**10.9.5.2 Environmental services processes and procedures.** Evaluate cleaning methods to reduce chemical exposure to building occupants (e.g., reduction or elimination of stripping and waxing flooring, products that are the least caustic for disinfection efficacy based on pathogen, etc.)

**10.9.5.3 [JO] Scope 3 emissions.** Identify and evaluate operational Scope 3 emissions to reduce operational carbon and improve overall environmental impacts.

***Modify Section 10 as follows. The remainder of Section 10 remains unchanged.***

## 10.11[JO] Service Life Plan

**10.11.1 Minimum performance standards.** For high touch surfaces and materials, minimum performance standards (e.g., ASTM, ANSI, etc.) for cleaning, sanitizing, and disinfecting shall be included in the operation and maintenance (O&M) documentation based on specifications completed in the OPR and finish documentation required in Section 9.6.1.2.

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**11.11.2 Waste and end of life plan.** For the service life plan, surfaces, materials, and products that have been breached and considered infectious or hazardous waste must be disposed of according to applicable regulations. Products that do not have a breached surface to be evaluated for re-use and/or refurbishment for landfill avoidance.

**Modify Section 11 as follows. The remainder of Section 11 remains unchanged.**

### 11.3.4 Solid Waste

#### 11.3.4.1 Storage and Collection of Waste Streams—Focus on Segregation and Minimization.

New building projects shall be provided with space inside the building dedicated to the collection, separation, and storage of all recycling, HIPPA records, donation and reuse items, and universal waste recycling, including batteries, fluorescent lamps (tube, compact fluorescent, and HID), and electronics in accordance with FGI *Guidelines for Design and Construction of Hospitals*, Section A2.1-5.4.4; *Guidelines for Design and Construction of Outpatient Facilities*, Section 2.1-5.2; *Guidelines for Design and Construction of Residential Health, Care, and Support Facilities*, Section 2.1-3.83-4.8; ~~the sustainability white paper available at <https://www.fgiguideines.org>; and FGI *Materials and Resources in the Guidelines for Design and Construction of Residential Health, Care, and Support Facilities*, Section 2.1-7.2-2.5.~~

**11.3.4.2 Breached surfaces, materials, and products.** Re-used items shall not include materials and products that have been breached or considered infectious or hazardous waste.

**Modify Section 11 as follows. The remainder of Section 11 remains unchanged.**

**11.4.2.6 Chemical sensitivities.** For sensitive and/or vulnerable care populations being treated in healthcare settings, comply with the Allergy Standards Ltd (ASL) or equivalent standards for products specified.

**Modify Section 12 with new references as follows:**

### Resources

<u>Allergy Standards Ltd (ASL)</u> <u>Trinity Enterprise Campus,</u> <u>Grand Canal Quay,</u> <u>D02 RP44, Ireland</u> <u>+353-1-675-5678</u> <u>+1-212-252-2109</u> <u><a href="http://www.allergystandards.com">www.allergystandards.com</a></u>	<u>Allergy Standards</u>	<u>11.4.2.6</u>
<u>U.S. Environmental Protection Agency</u> <u>(USEPA)</u> <u>Office of Pesticide Programs (Mail Code</u> <u>7506C)</u> <u>1200 Pennsylvania Ave., NW Washington DC</u> <u>20460</u> <u>Office of Pollution Prevention &amp; Toxics</u> <u>(Mail Code 7406-M)</u>	<u>DfE- Certified Disinfectants</u> <u>: <a href="https://www.epa.gov/pesticide-labels/dfecertified-disinfectants">https://www.epa.gov/pesticide-labels/dfecertified-disinfectants</a></u> <u>SaferChoice:</u> <u><a href="https://www.epa.gov/saferchoice/products">https://www.epa.gov/saferchoice/products</a></u>	<u>10.9.5</u>          <u>10.9.5</u>

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U.S. Department of Health and Human Services

Centers for Disease Control and Prevention (CDC)

Healthcare Infection Control Practices Advisory Committee

1600 Clifton Rd.

Atlanta, GA 30033, United States

1800 CDC INFO 800-232-4636

<http://www.cdc.gov>

[Appendix C – Example of high-touch 3.1 surfaces in a specialized patient area](#)

<https://www.cdc.gov/infectioncontrol/guidelines/disinfection/index.html>

<https://www.cdc.gov/hai/prevent/resource-limited/high-touch-surfaces.html>

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

## NSF/ANSI Standard for Plastics and RV Plumbing Components –

# Plumbing System Components for Recreational Vehicles

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## 2 Normative references and tools

The following reference documents contain requirements that, by reference in this text, constitute requirements of this NSF/ANSI standard. At the time of publication, the indicated editions were valid. All of the documents are subject to revision, and it is the responsibility of the user of this specification to determine the applicability of the most recent editions of these documents and parties are encouraged to investigate the possibility of applying the recent editions of the documents indicated below. The most recent published edition of the document shall be used for undated references.

21 C.F.R., § Parts 170-199, Food and Drugs

~~ANSI/ASSE 1001-2017~~ 2021, Performance Requirements for Atmospheric Type Vacuum Breakers

~~ANSI/ASSE 1002-2015~~ 2020/ASME A112.1002-2020/CSA B125.12:20, Anti-Siphon Fill Valves for Water Closet Tanks

~~ANSI/ASSE 1051-2009~~ 2021, Performance Requirements for Individual and Branch Type Air Admittance Valves for Sanitary Drainage Systems

ASME A112.18.2-2020/CSA B125.2-2015, Plumbing Waste Fittings

ASME A112.18.3-2008 2002 (R2022), Performance Requirements for Backflow Devices and Systems in Plumbing Fixture Fittings

ASME A112.19.2-2018/CSA B45.1-2019 18, Ceramic Plumbing Fixtures

ASME A112.19.3-2022/CSA B45.4-2017:22, Stainless Steel Plumbing Fixtures

ASME BPVC 2019 2023, Boiler and Pressure Vessel Code

ASTM D543-2014 21, Standard Practices for Evaluating the Resistance of Plastics to Chemical Reagents

ASTM D1384-05 (2012) 24, Standard Test Method for Corrosion Test for Engine Coolants in Glassware

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ASTM D2444-2017 21, Standard Test Method for Determination of the Impact Resistance of Thermoplastic Pipe and Fittings by Means of a Tup (Falling Weight)

ASTM E202-2018, Standard Test Methods for Analysis of Ethylene Glycols and Propylene Glycols

CSA B45.5-22/IAPMO Z124-201722, Plastic Plumbing Fixtures

~~IAPMO PS 033-2011, Flexible PVC Hose for Pools, Hot Tubs, Spas, and Jetted Bathtubs~~

IAPMO TS 1-2011e1, Mechanical Seal Toilets With or Without Integral Wastewater Tank for Use in Recreational Vehicles

IAPMO TS 12-97e1 (R2020), Self-Contained, Electrically Operated Recirculating, Chemically Controlled Toilet

~~IAPMO Z1033-2015 (R2020), Flexible PVC Hose and Tubing for Pools, Hot Tubs, Spas, and Jetted Bathtubs~~

IEEE/ASTM SI 10-2016, American National Standard for Metric Practice

~~NFPA 1192-2021 NFPA (FIRE)-119.2-2018, Standard on Recreational Vehicles~~

NSF/ANSI 14, Plastics Piping System Components and Related Materials

NSF/ANSI/CAN 61, Drinking Water System Components – Health Effects

***Rationale: Updates boilerplate language in introductory paragraph for consistency with other standards; updates normative references.***

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**12.3.8** An overflow in the toilet shall be optional when the toilet is equipped with an inlet opening at least nominal 2 in (12.7 mm) in diameter. The overflow line shall be at least a nominal 2 in diameter or less, if the diameter will take the full discharge of the supply valve, and form a trap with a seal at least 2 in (50.8 mm) deep, and be accessible for cleaning. The trap may have a drain fitting. The overflow outlet shall discharge beneath the mechanical seal. A portion of the water in the overflow trap shall be replaced with fresh water at each flushing.

***Rationale: Makes minor grammar updates.***

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- 

## **5 Design and construction**

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### **5.3 Backflow and back siphonage**

**5.3.1** If a backflow protection device is required, it shall conform to the applicable requirements under ASME A112.18.3M.

***Rationale: Updates to current ASME standard version/name.***

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## 19 Flexible drain system

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### 19.3 Performance

**19.3.1** System components shall comply with Sections 22.2 and 22.6 of this Standard as well as IAPMO PS-033 Z1033, Section 35 (Testing Requirements).

**Rationale:** Updates to current IAPMO standard name and section.

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## 22 Flexible vent systems, pipe, and fittings

**Rationale:** Corrects typo.

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### 22.6 Chemical resistance

Pipe and fittings shall not increase in weight more than 0.5% when tested according to ASTM D543 using the chemicals in Table 22.1.

**Table 22.1**  
**Chemical resistance testing**

Chemicals	Concentration in water solution
sodium chloride	5%
acetic acid	5%
Ivory soap <sup>a</sup>	5%
household detergent	5%
<sup>a</sup> Or equivalent.	

**Rationale:** Creates consistency with how brands are handled across other standards.



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## NSF/ANSI Standard for Food Equipment –

# Food Equipment Materials

- 

## 4 Material Formulation

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**4.1.2** Food zone materials shall not contain ~~lead, arsenic, cadmium, or mercury~~ **any of the following** as intentional ingredients.

- Lead;
- Arsenic;
- Cadmium;
- Mercury;
- Bisphenols, including BPA, BPAF, BPF, and BPS
- Per- and polyfluoroalkyl substances (PFAS)

Brass and bronze materials may contain lead as permitted under Section 4.2.3.2.

***Rationale:** Information papers on PFAS and Bisphenols were presented at the 08/2023 JC Meeting. An action to submit an issue paper for restriction of Bisphenols was established. International concerns for health risks associated with Bisphenols has been increasing over the past many years. More recently, concerns on the use of PFAS is growing aggressively. Adding Bisphenols and PFAS to the list of ingredients that are not permitted in food zone materials is a proactive approach to get ahead of the inevitable. Also, reformatting the structure of this section to a more preferred bullet item list.*

- 

- 

## 6 Coatings

- 

**6.2.1.7** ~~Fluoropolymer coatings and other nonstick~~ **Nonstick** coatings used on heated food zones shall be exempt from impact resistance, abrasion resistance, adhesion ability, and heat resistance performance tests.

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**6.2.1.8** ~~Fluoropolymer coatings and other nonstick~~ Nonstick coatings may be used on blades of powered slicing equipment. All food zone direct food contact coating requirements shall apply.

***Rationale:** Fluoropolymer materials would no longer comply with the proposed changes to 4.1.2.*

## BSR/UL 508, Standard for Safety for Industrial Control Equipment

### 1. Revisions to Address Changes to UL 869A

#### PROPOSAL

187.2 Industrial control equipment intended for use as service equipment shall comply with the requirements for the size of a grounding electrode conductor and main bonding jumper contained in the appropriate table in the Reference Standard for Service Equipment, UL 869A, ~~and in addition, 310 service equipment ampere ratings shall be included which use the same conductor and jumper sizes as the 400 ampere ratings.~~

187.4 Exposure to inadvertent contact with ungrounded uninsulated live parts on the supply side of service disconnects while every service disconnect is in the off position as required by the Reference Standard for Service Equipment, UL 869A, shall be determined using the requirements for accessibility of live parts in Section 7.17 under the following conditions:

a) The probe referenced in 7.17 shall be applied to openings in and edges of barriers that are used to protect against inadvertent contact of ungrounded uninsulated live parts on the supply side of a service disconnect. The probe is applied to openings in barriers, and for barrier edges the probe is applied up to the point of where the web stop reaches the edge of the barrier. Factory installed barriers, including those that are removable, shall be in place during this investigation.

a b) Line-side service conductors sized in accordance with Section 26.5 shall be installed in the terminals when determining exposure to inadvertent contact.

~~b) Metal barriers that prevent inadvertent contact shall have a thickness not less than 0.032 inch (0.81 mm) if uncoated, not less than 0.034 inch (0.86 mm) if galvanized, and not less than 0.050 inch (1.27 mm) if aluminum and be constructed so that they can be readily removed or repositioned, and then re-installed, without the likelihood of contacting bare live parts or damage the insulation of any insulated live part.~~

~~c) Nonmetallic barriers that prevent inadvertent contact shall comply with requirements for insulating barriers, Section 38 and be constructed so that they can be readily removed or repositioned, and then re-installed, to allow access to the terminal for servicing.~~

187.5 Barriers used to prevent inadvertent contact with ungrounded uninsulated live parts on the supply side of service disconnects shall be constructed so that they can be readily removed or repositioned, and then reinstalled, to allow access to the terminal for servicing, and comply with (a) or (b) as follows:

a) Metal barriers shall have a thickness not less than 0.032 inch (0.81 mm) if uncoated, not less than 0.034 inch (0.86 mm) if galvanized, and not less than 0.050 inch (1.27 mm) if aluminum and be constructed so that they can be readily removed or repositioned, and then re-installed, without the likelihood of contacting bare live parts or damage the insulation of any insulated live part. They shall be bonded to the enclosure or equipment grounding conductor terminal by means in compliance with 7.6 and 7.7.

b) Nonmetallic barriers shall comply with requirements for insulating barriers, Section 38.

~~187.5~~ 187.6 Barriers that are factory installed and that limit access to factory installed wiring and terminations may be constructed such that they are not able to be removed or repositioned.

~~187.6~~ 187.7 Barriers and other parts necessary to comply with 187.4 may be provided as a field installable kit provided with the equipment.

~~187.7~~ 187.8 Service equipment shall not be marked "EMERGENCY DISCONNECT, SERVICE DISCONNECT".

## 2. Clarification of Ambient for Tests

### PROPOSAL

9.5 An external operating means – such as those for a disconnect, a pilot device, or a resetting operation – mounted on or through an enclosure shall withstand the tests specified for the enclosure unless otherwise indicated [in the specific test section](#).

65.1.1 Unless otherwise specified [in the specific test section](#), the test measurements are to be made as follows:

- a) The primary voltage supplied to the isolating source shall be not less than specified in [Table 44.2](#) for the Temperature Test. For an isolating source with multiple primary voltage ratings, the highest voltage rating shall be used for this test. Overcurrent protective devices in the branch circuit shall not open as a result of this test.
- b) The maximum open circuit voltage potential available to the secondary circuit under consideration is to be measured directly across the output terminals of the isolating source. ~~and~~
- c) For an isolating source with multiple secondary circuits, only one secondary circuit is to be tested at a time. All other secondaries not under test are not required to be connected to a load.
- d) The applicable voltage, current and volt-ampere capacity measurements shall be made directly across the secondary output terminals of the isolating source. When a tapped transformer winding is used to supply a full-wave rectifier, the measurements are to be made from either end of the winding to the tap. When the transformer is used as part of a switching-type power supply, the measurements are to be made after the transformer secondary winding rectification means.

69.1 Unless otherwise indicated [elsewhere in this standard](#), industrial control equipment shall be rated in volts; and also in horsepower, amperes, volt-amperes, or any combination thereof; and the rating shall indicate whether the equipment is for direct or alternating current. The rating of alternating-current equipment shall include the number of phases and, if necessary, the frequency; except that the rating of equipment obviously intended for single-phase use only need not include the number of phases. The rating of a controller for slip-ring motors shall include the secondary rated current.

## 3. Remove Exception to Clause 69.5 for Definite Purpose Motor Controllers

### PROPOSAL

**Table 69.4**  
**Ratings of a device controlling an external load**

Load	Load designations
General Purpose, ac	Amperes
Resistance (heating), ac	Amperes, resistance, only
General Purpose, dc or resistance (heating), dc	Amperes
Incandescent lamp	Amperes or watts, tungsten
Ballast (electric discharge lamp)	Amperes, ballast
Electronic Fluorescent Ballast (electric discharge lamp)	Amperes, electronic fluorescent ballast
Coil	Code designation, volt-amperes, standard or heavy pilot duty
Motor – General Use	Horsepower (also see 69.5 and 69.6)
<del>Motor – Heating &amp; Refrigeration Applications</del>	<del>FLA/LRA Definite Purpose or DP</del>

Load	Load designations
Capacitive Switching	kVar, Full-Load amperes (FLA)
LED driver or self-ballasted LED	Amperes, LED
Self-ballasted CFL	Amperes, CFL
Capacitive load similar to electronic ballast	Amperes, (Load description)

#### **4. Move Pressure Test to General Section**

### **PROPOSAL**

#### **69A 68B Pressure Tests**

##### **69A.1 68B.1 General**

69A.1.1 68B.1.1 A pressure-operated switch shall comply with the pressure test in 69A.2 68B.2 for enclosed devices, or 69A.3 68B.3 for open devices, when:

- a) The device is actuated by an external source of pressure;
- b) The device employs a Bourdon tube, a flexible metal bellows, a diaphragm, or similar device; and
- c) The maximum rated pressure is 300 psig (2069 kPa) or more.

##### **69A.2 68B.2 Parts contained in an enclosure**

69A.2.1 68B.2.1 A sample is to be filled with water to exclude air and then connected to a hydraulic pump. The pressure is to be raised gradually to the required test pressure as follows and in this order:

- a) The hydraulic test pressure is to be raised to two times the maximum rated pressure and held for one minute.
- b) The hydraulic test pressure is to be then raised to three times the maximum rated pressure of the device and held for one minute. A leaking gasket or flexible member is to be replaced by a heavier material to reach the required pressure value.
- c) The hydraulic test pressure is to be then raised to four times the maximum rated pressure of the device and held for one minute. A leaking gasket or flexible member is to be replaced by a heavier material to reach the required pressure value.
- d) When the test pressure in (c) is not attainable, such as due to a ruptured disc, a sample of the outer enclosure shall either maintain a hydraulic test pressure equal to the maximum rated pressure for one minute, or relieve pressure equal to the maximum rated pressure.

69A.2.2 68B.2.2 As a result of the test in 69A.2.1 68B.2.1(a), the device shall withstand the test pressure without rupture and without leakage at gaskets or fittings.

69A.2.3 68B.2.3 As a result of the tests in 69A.2.1 68B.2.1(b) and either 69A.2.1 68B.2.1(c) or 69A.2.1 68B.2.1(d), the device shall withstand the test pressure and no part of the device shall be released outside the enclosure.

##### **69A.3 68B.3 Parts not contained in an enclosure**

69A.3.1 68B.3.1 A sample is to be filled with water to exclude air and then connected to a hydraulic pump. The pressure is to be raised gradually to the required test pressure as follows and in this order:

- a) The hydraulic test pressure is to be raised to two times the maximum rated pressure and held for one minute; and
- b) The hydraulic test pressure is to be then raised to four times the maximum rated pressure of the device and held for one minute.

~~69A.3.2~~ [68B.3.2](#) As a result of the test in ~~69A.3.4~~ [68B.3.1](#)(a), the device shall withstand the test pressure without rupture and without leakage at gaskets or fittings.

~~69A.3.3~~ [68B.3.3](#) As a result of the test in ~~69A.3.4~~ [68B.3.1](#)(b), the device shall withstand the test pressure without rupture.

**Table 131.1**  
**Sequence of tests**

Standard reference section	Test	Sample number <sup>a</sup>					
		1	2	3	4	5	6
		Sequence	Sequence	Sequence	Sequence	Sequence	Sequence
45	Temperature	1					
132	Overload		1				
133	Endurance		2				
51	Dielectric Voltage-Withstand	2	3				
52	Short Circuit			1			
<del>69A</del> <a href="#">68B</a>	Pressure				1		
135	Hub and Nipple					1	
136	Float Switch						1

<sup>a</sup> All or any combination of sequences may be conducted on a single sample if agreeable to those concerned. More than one sample may be used if more than one rating is being tested. One sequence need not be completed as a prerequisite to the starting of another.

## **8. Editorial Update to Remove Appendix A**

*(Section 5 Truncated for Clarity)*

### **PROPOSAL**

#### **5 Referenced Publications**

5.2 The following publications are referenced in this Standard:

~~UL 218, Fire Pump Controllers~~

UL 248 Series, [Low-Voltage Fuses](#)

~~UL 508A, Industrial Control Panels~~

~~UL 873, Temperature-Indicating and -Regulating Equipment~~

~~UL 1008, Transfer Switch Equipment~~

~~UL 1203, Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations~~

~~UL 1437, Electrical Analog Instruments—Panel Board Types~~

~~UL 60730-1, Automatic Electrical Controls for Household and Similar Use, Part 1: General Requirements~~

~~UL 60947-4-1, Low Voltage Switchgear and Controlgear—Part 4-1: Contactors and Motor Starters—  
Electromechanical Contactors and Motor Starters~~

~~UL 61010-2-201, Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use—  
Part 2-201: Particular Requirements for Control Equipment~~

~~UL 61800-5-1, Adjustable Speed Electrical Power Drive Systems—Part 5-1: Safety Requirements—  
Electrical, Thermal, and Energy~~

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**BSR/UL 2703, Standard for Safety for Mounting Systems, Mounting Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels**

**1. Salt Spray Test Corrections**

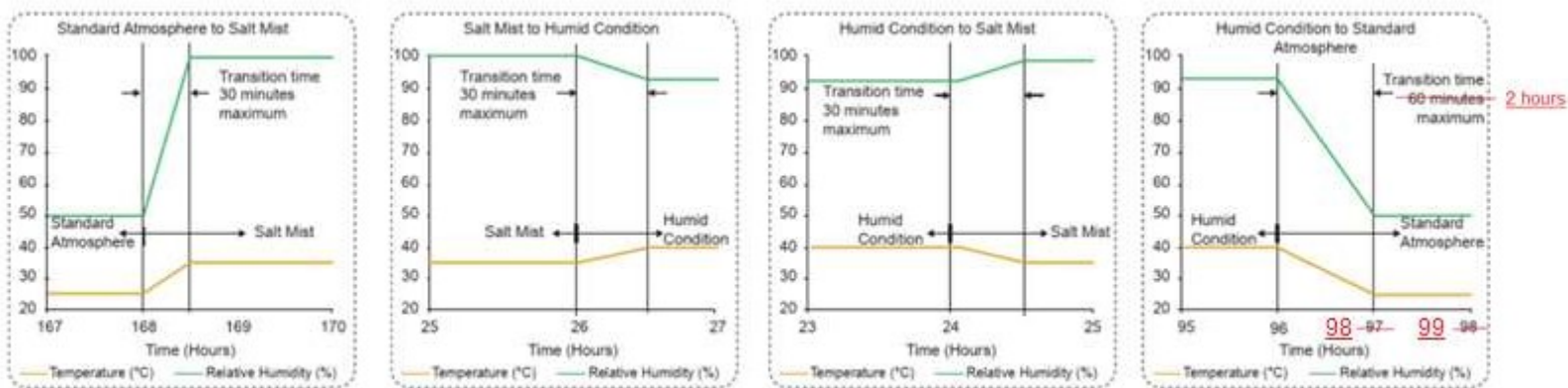
**PROPOSAL**

19.1.9 The zinc coated reference specimens are to be cleaned with soap and water. The specimens are then rinsed with: (1) ethyl alcohol or isopropyl alcohol and (2) ethyl ether or acetone. After the specimens are rinsed, the specimens are dried, and the cut edges protected with paint, wax, or other effective medium before being placed in the salt spray chamber.

**2. Salt Spray Test Transition Time Correction**

**PROPOSAL**

**Figure 19.2**  
**Maximum durations for transitions between test conditions (see also Figure 19.1)**



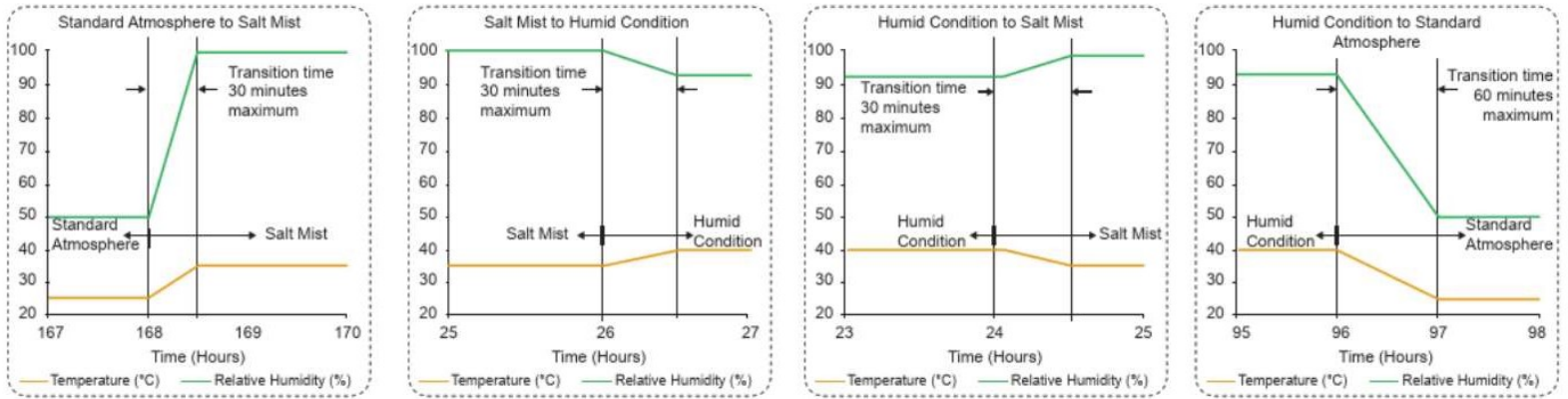
**3. Salt Spray Test Salt Mist Condition Correction**

**PROPOSAL**

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**Figure 19.2**  
**Maximum durations for transitions between test conditions (see also Figure 19.1)**



Note: The 100% humidity shown on the transition from Salt Mist to Humid Condition (second box) is only for reference and it does not need to be measured (controlled) during the Salt Mist cycle.

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