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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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## HL7 (Health Level Seven)

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### ***New Standard***

BSR/HL7 EHRSFMR2USEGUIDEE1-202x, HL7 EHRS-FM Release 2.0.1: Usability Functional Profile, Edition 1 (new standard)

Stakeholders: Healthcare IT Vendors, Healthcare Provider/user, Patients, Providers, Healthcare Institutions, EHR and PHR vendors

Project Need: ISO TC215 WG1 has expressed interest in adopting the Usability Functional Profile (UPF) - which will require HL7 to first re-ballot the UFP as a Normative standard (from its current status as an Informative standard).

Interest Categories: Government/University, Vendor, Consultant, Provider, General Interest, Affiliate, Pharmaceutical, Payor

List of Functions and Conformance Criteria that promote the usability of electronic health record systems. Enables Health Information System designers to design systems that account for and accommodate human factors. Supports purchasing decisions by clinicians and other users of systems that meet traditional human-computer interface requirements.

## HSI (Healthcare Standards Institute)

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### ***New Standard***

BSR/HSI 2200-202x, Healthcare Organization Management - Bill Only (new standard)

Stakeholders: Healthcare Providers who utilize the medical products, Healthcare suppliers who manufacture and market the medical products, software companies who provide the systems and applications that process bill only transactions, governmental bodies who oversee reimbursement for healthcare products and services, and patients who need accurate accounting of their medical care.

Project Need: Complexity and lack of standards and standard processes in Bill Only processes can be remediated by the creation of standards and aligned processes. There are a limited number of data elements that are required to process a bill only product accurately and efficiently. This project seeks to:

- Document all data elements that are required by the various stakeholders
- Define each of the data elements so that stakeholders can align to the standard
- Align the data elements to data standards so that they can be effectively communicated/transmitted to applicable stakeholders.
  - o Establish which data elements are required by the stakeholder groups (Stakeholder “x” data set)
  - o Ensure that data elements that are not required or should not be utilized by a stakeholder group are excluded from their data set
  - o Establish a means to communicate the appropriate data elements to the applicable stakeholders in a single instance.

Interest Categories: Producer: Producers are organizational members who use the standards, bulletins or other documents in question to develop products or implement services. User: Users are members who acquire from Producers equipment or services to which the standards, bulletins, or other documents apply. General Interest: General Interest members are neither Producers nor Users. This category may include regulatory agencies (state and federal), researchers, other organizations and associations, and consumers. Other interest categories such as the following may be established within a standards committee in order to insure adequate levels of representation. Government: Federal, state, and other regional regulatory body Legal or Consultants:

The process for documenting the use of and billing of implantable medical devices and accessories that are procured during surgery and billed after a procedure. Processes outside of a standard purchase have historically been very manual and varies widely with Providers, Suppliers, operational systems, and other stakeholders. This complexity and lack of standards results in compliance concerns, duplicative and manual documentation, and delays in the proper processing of medical products used in the care of the patient. The complexity and duplicative nature of multiple diverse processes also adds to the overall cost of care as well as inaccurate accounting and reimbursement for products and services utilized.

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

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### ***Revision***

BSR/ASSE 1098-202x, Performance Requirements for Atmospheric Vacuum Breakers for Vacuum Toilet Assemblies and Galley Waste Disposal Units on Commercial Aircraft (revision of ANSI/ASSE 1098-2021)

Stakeholders: Air travel consumers, airplane and airplane component manufacturers, federal water regulators

Project Need: Update revisions within the standard.

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

This Standard provides performance criteria for atmospheric vacuum breakers (AVB) installed on vacuum toilet assemblies and galley waste disposal units (GWDU) designed to be installed on passenger aircraft. Vacuum toilet assemblies and GWDUs consist of a connection to potable water stored on the aircraft, a waste collection receptacle, a means to rinse the waste collection receptacle, a means to protect the potable water supply, and a connection to the vacuum waste system. The potable water system protection shall vent to the cabin pressure. The vacuum toilet assemblies and galley waste disposal units shall be integral only to devices specified by the manufacturer.

## IEEE (Institute of Electrical and Electronics Engineers)

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### ***New Standard***

BSR/IEEE 1129-202x, Guide for Online Monitoring of Large Synchronous Generators (10 MVA and Above) (new standard)

Stakeholders: All users of large synchronous generators. All manufacturers of these machines. Organizations such as INPO, NERC/FERC, NRC.

Project Need: Large synchronous generators are one of the key components in generating stations. Online monitoring is crucial for the reliable operation of these large and expensive units, as recognized by NERC/FERC, INPO and others. The soon-to-be-expired IEEE 1129-2014 was written to aid users in identifying the most appropriate online monitoring devices and practice. This new guide is intended as an updated version of the standard.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This document describes guidelines for online monitoring of large synchronous generators with ratings of 10 MVA and above. The scope includes generators with salient-pole rotors as well as generators with cylindrical rotors. This standard also provides basic information on the various online monitoring techniques described as well as recommended threshold values for initiating a remedial or compensating action, whenever those values are typical within the power generation industry. This standard does not cover those instruments that are clearly associated with the protection scheme of the generator, such as: differential, out-of-step, over/under frequency, and so forth.

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### ***New Standard***

BSR/IEEE 1451.99-202x, Standard for Harmonization of Internet of Things (IoT) Systems Interactions (new standard)

Stakeholders: The stakeholders include sensor/network manufacturers, system integrators, and smart sensor/network users of Smart Cities, Smart Grid, SCADA/process control systems, smart transportation systems, e-health devices and systems, smart phones/devices, geospatial/military systems, and other IoT devices and systems.

Project Need: The current architecture and implementations of IoT and IIoT devices and systems do not provide means to realize a common syntax and an interoperability framework (with semantic support) for sharing securely and trustfully data between different IoT and IIoT verticals.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This standard defines an Internet of Things (IoT) TRusted Area Networking (TRAN) architecture, designated as IoT-TRAN, for harmonizing IEEE Std 1451 sensor networks, IoT and Industrial IoT (IIoT) systems. IoT-TRAN provides an interoperability framework, including communication and semantics, allowing data sharing and interoperability in a trusted environment in which security of messages, agreements between devices, life-cycle management, and ownership of devices are granted over a cloud-oriented, federated, and decentralized network of things. The standard is built on top of the eXtensible Messaging and Presence Protocol (XMPP). A set of technologies is identified, allowing different devices to interoperate regardless of underlying communication technology. Each such technology is built as a standardized extension to this open protocol. A gateway to IoT-TRAN is an infrastructural component identified as a binding providing technology-specific devices reachability and real-time transparent conversion with other devices using their respective IoT protocols. As part of the IEEE Std 1451 standard family, features like Transducer Electronic Data Sheet (TEDS) and IEEE Std 1451.0 Universally Unique Identification (UUID) are leveraged in this standard to enhance the support of interfacing with IoT and IIoT systems.

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***New Standard***

BSR/IEEE 1776-202x, Recommended Practice for Thermal Evaluation of Unsealed or Sealed Insulation Systems for AC Electric Machinery Employing Form-Wound Pre-Insulated Stator Coils for Machines Rated 15000 V and Below (new standard)

Stakeholders: The stakeholders for this project are manufacturers and users of large (form wound) electric motors and generators.

Project Need: The original scope and purpose of the documents are being maintained (with minor changes) and the document is being revised to bring it up to date. It will be actively used in the industry to evaluate the temperature class of form wound stator insulation systems.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This recommended practice outlines test procedures for comparing two or more unsealed or sealed insulation systems in accordance with their expected life at rated temperature. The procedure is limited to insulation systems for AC electrical machines using form-wound pre-insulated stator coils rated 15,000 V and below. This test procedure evaluates unsealed insulation systems for use with air cooling under usual (normal) service conditions, or sealed insulation systems for use under severe environmental conditions (where the insulation is exposed to conducting contaminants). This procedure does not cover special requirements, such as those for machines enclosed in gas atmospheres or machines subjected to strong chemicals, metal dust or submersion in liquid, etc. The procedure includes instructions for testing candidate systems in comparison with known reference systems, of the same type, having a proven record of service experience and interpreting the results of these tests.

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### ***New Standard***

BSR/IEEE 2882-202x, Guide for Validation of Software Models of Generators for Power System Studies (new standard)

Stakeholders: Electric utilities, vendors, regulators, consultants, design engineers, system planners, Government authorities, power plant owners, investors, developers and system operators.

Project Need: The guide is needed to address existing gaps in generator models and problems faced in integration with the network. In a few cases, the improper generator models have caused delays, incorrect sizing of auxiliary equipment, and financial losses to projects. The development of inverter-based renewable technology, smart grid, application of superconductors, and High Voltage Direct Current (HVDC) systems have made generator software modelling a complex and challenging task. Although there are different references and reports related to the modelling of generators, there is an emerging interest from the stakeholders for developing a guide for validating generators models used for power system studies. A power system network will have a variety of generator models and many of these models will be developed by different vendors or could be generic. These power system network models are used by stakeholders for a variety of studies and investigations and therefore validating these models is very critical for ensuring reliability and security.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This is a guide for the validation of software models used to study power generators for power system studies. For the purposes of this guide, validation is a procedure and a set of acceptance criteria that can be referenced by users of the models who may not have intimate knowledge of the models' contents to confirm that the models produce acceptable results and provide the intended response(s). The validation procedure can also be used for identifying data errors or inconsistencies before and after assembly of generator software models with the network models. The guide covers generator models that can be either generic or user written models. The guide covers power system analysis such as steady-state, short circuit, harmonic, reliability, motor starting, protection coordination, dynamic stability, Electromagnetic Transients Program (EMTP) limited to power generator. The guide also covers the validation of generators and associated equipment models that are integrated with the transmission and distribution networks. The guide does not cover verification procedures or methods for developing and testing of generator software models, nor does it cover verification of generator software models against field measurements and other types of site or factory tests. For this guide, the purpose of verification is to verify that a model accurately represents real-time responses.

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### ***New Standard***

BSR/IEEE 3472-202x, Standard for Developing Parallel Autonomy Systems within Passenger Vehicles (new standard)  
Stakeholders: All automotive manufacturers who intend to develop parallel automated driving systems. All Tier1 and other automotive suppliers and solution providers who intend to develop hardware, software, and other services for parallel automated driving systems. Third party certification entities for functional safety could refer to this standard. Also, serves as a reference for any regulatory government body that regulates automobiles and drivers world-wide especially for differently-abled drivers while using the parallel Automated Driving System (ADS).

Project Need: Parallel automated driving system are operationally complex in nature where there is a lot of transfer or switching of control between human and vehicle that happens along with sharing of control based on the need. There is a need to address the systems and safety architecture required for each use case to resolve certain aspects of the operational complexity. This standard document also addresses all the applicable scenarios and use cases starting at a Driving Automation Level 2 system moving towards a Driving Automation Level 5 system (please see SAE J3016 for the definition of levels of autonomy). There are no other standards currently in development that cover this area of research and development which makes this effort vital in closing the gap.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This standard provides a definition of a parallel automated driving system (ADS) architecture and defines the technical specifications on how these systems need to be designed and tested. This standard outlines the operational complexity resolutions by addressing the challenges of transfer of control between human and machines. It also describes certain scenarios and use cases that the parallel autonomy systems are beneficial. This standard is limited to light-duty [<4,536 kg (10,000 lbs) GVWR (Gross Vehicle Weight Rating)] vehicles, that are for personal use of drivers or passengers and are operating on public roads. All types of human machine interaction types that are needed to perform the Dynamic Driving Task (DDT) are in-scope for this standard. The standard also includes all types of V2X (Vehicle-to-Everything) communication.

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### ***New Standard***

BSR/IEEE 3476-202x, Standard for Unique IDs and Smart Tags for Supply Chain and Asset Traceability for the Electric Grid (new standard)

Stakeholders: Manufacturers of electric grid products, electric grid operators, utility companies

Project Need: Asset owners need to capture and retain asset traceability data in an automated, standardized format for various asset management use cases. A unique ID with embedded attributes provides a method for manufacturers to transfer required asset traceability data to asset owners in a standardized digital format.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This standard addresses unique identification numbers for electric grid assets including generation, transmission, substation, distribution, storage, and electric vehicle charging stations. The unique identifiers include a universal catalog identifier, manufacturer identifier, and traceability identifier.

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### ***New Standard***

BSR/IEEE 3484-202x, Recommended Practice for an Artificial Intelligence Imaging and Data Process Model for Sustainable Textile Value Chain Operations (new standard)

Stakeholders: Fabric and raw material producer; clothing and fashion manufacturers, Brands and retailers, emission experts, governments and associations in related fields, AI and data science technologists, data experts, supply chain and management experts, Business experts from the fashion and clothing industries.

Project Need: Currently, raw materials at the beginning of supply chains for clothing or fashion manufacturers are reported to potential buyers/manufacturers in broad strokes, leading to additional expenses, low efficiency, and also the risk of inaccurate information being provided. By utilizing AI imaging and data processing techniques at the origin of materials used in the textile to garments manufacturing process, tracking emissions and maximizing material usage means greater sustainability and transparency in overall processes. All partners work together to optimize efficiency and profitability while minimizing waste and emissions, aligning with sustainability and environmental objectives. Although indirect emissions are relatively hard to track, this technology offers comprehensive details for each textile, including fabric specifications, and enables easy tracing of the fabric's journey from the mills to the retailers. Incorporating AI imaging to the process and changing the linear workflow to a centralized workflow in the supply chain process further enhances this strategy, facilitating a seamless and efficient system that significantly reduces excess production and waste.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

The recommended practice outlines a process model that leverages artificial intelligence imaging and data processing technologies for improved emissions information reporting. It provides textile producers with comprehensive data on fabrics, including their origins and metadata. This approach enables stakeholders to purchase only what is needed for specific product cycles, thereby increasing efficiency in supply chain operations and allowing for more accurate emissions reporting. This technology also provides traceability for end users by offering end-to-end information, facilitating increased sustainability by informing the waste typically involved in the textile to garments manufacturing processes. The practice further encourages recording inventory both used and unused to be included in the product life cycle.

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### ***New Standard***

BSR/IEEE C37.30.3-202x, Standard for Requirements for High-Voltage Interrupter Switches, Interrupters, or Interrupting Aids Used on or Attached to Switches Rated for Alternating Currents Above 1000 V (new standard)

Stakeholders: Users and manufacturers of high voltage interrupting devices, interrupters and interrupter switches >1000 V ac.

Project Need: The standards is the basic requirements for switching devices, interrupters and interrupting switches that utilize air and other media for current interruption. The working group will address technical comments, regarding capacitive requirements and discrepancies between this standard and IEEE Std C37.100.2

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This standard provides requirements for interrupter switches, interrupters, or interrupting aids used on or attached to switches rated for high-voltage ac above 1000 V and used indoors, outdoors, or in enclosures for non-fault current interrupting for which an interrupting duty is assigned. This standard covers preferred ratings, construction, application, loading, installation, operation, and maintenance guidelines. This standard does not apply to load-break separable insulated connectors, circuit breakers, circuit switchers, metal-enclosed switchgear, pad-mounted switchgear, reclosers, sectionalizers or other switching devices that are covered by other IEEE standards.



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***New Standard***

BSR/IEEE C37.30.4-202x, Standard for Test Code for Switching and Fault Making Tests for High-Voltage Interrupter Switches, Interrupters or Interrupting Aids Used on or Attached to Switches Rated for Alternating Currents Above 1000 V (new standard)

Stakeholders: Users and manufacturers of high voltage switching devices, interrupters and interrupter switches.

Project Need: The standards cover the testing requirements for switching devices, interrupters and interrupting switches that utilize air and other media for current interruption. The working group will address technical comments, such as TRV values in table 4 and the validity of graphs provided in figure 3.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This standard provides the test code for switching (except capacitive current) and fault making tests for high voltage interrupter switches, interrupters or interrupter aids for use on switches rated for alternating currents above 1000 V and used indoor, outdoors, or in enclosures for non-fault current interrupting for which an interrupting duty is assigned.

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

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***New Standard***

BSR/IEEE C57.12.58-202x, Guide for Conducting a Transient Voltage Analysis of a Dry-Type Winding (new standard)

Stakeholders: Dry-Type Transformer manufacturers and users of dry-type transformers.

Project Need: This standard guide provides an analysis of a dry-type windings electrical design. The guide also provides the requirements for conducting a test in IEEE C57.12.60. Revision of the standard is needed since the standard has an expiration date in the next few years.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This guide applies to the equipment setup, measurement, simulation, and analysis of the transient voltage response of a dry-type winding to a simulated impulse voltage waveform.

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

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***New Standard***

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

Stakeholders: Utilities, power producers, industrials, manufacturers.

Project Need: The current standard is due for revision as per its life cycle. Also, it needs to be updated with the progress in the industry.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This standard covers electrical, dimensional, and related requirements for outdoor power apparatus bushings that have basic lightning impulse insulation levels (BILs) of 110 kV and above. It provides specific values for dimensional and related requirements that are to be interpreted, measured, or tested in accordance with IEEE Std C57.19.00™. Bushings covered by this standard are intended for use in free air as components of liquid-immersed transformers and reactors.

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### ***New Standard***

BSR/IEEE C57.93-202x, Guide for Installation and Maintenance of Liquid-Immersed Power Transformers and Reactors (new standard)

Stakeholders: Transformer manufacturers, shipping companies, service companies and the end users (utilities).

Project Need: The Revision is needed to include reactors. In addition, the revision needs to consider that transformers or reactors can be delivered to the customer in the following ways: 1. Fully assembled, full of liquid, and ready for testing. 2. Partially assembled, partially full; need fully assembled and filled (topped off) prior to testing. 3. No assembly yet, no liquid; need fully assembled and vacuum filled prior to testing.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

The recommendations presented in this guide apply to the installation and maintenance of liquid-immersed power transformers and reactors.

## IEEE (Institute of Electrical and Electronics Engineers)

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### ***New Standard***

BSR/IEEE C57.104-202x, Guide for the Interpretation of Gases Generated in Mineral Oil-Immersed Transformers (new standard)

Stakeholders: The stakeholders for this project include electric utilities, insurance companies, industrial and commercial facilities, universities, hospitals, and any other users of large power transformer equipment.

Project Need: The 1991 Guide was administratively withdrawn in February 2006. The Guide was revised, re-balloted, and reissued in 2008. The guide had a major revision in 2019 to incorporate advances in the art/technology and following the analysis of more than 1 million pieces of laboratory data. The guide will have a new revision to further add new advances in analysis and enhance the methodology for evaluating dissolved gas results.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This guide applies to in-service mineral oil-immersed transformers and addresses: (a) The theory of gas generation in a transformer, (b) The interpretation of dissolved gas analysis, (c) Suggested operating procedures, (d) Various diagnostic techniques, (e) Case studies and examples, (f) Evaluation criteria and guidelines, and (g) A bibliography of related literature.

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### ***New Standard***

BSR/IEEE C57.133-202x, Guide for Evaluating Transformer Performance under Reverse Power Flow (new standard)

Stakeholders: Electrical power utilities and transformer manufacturers.

Project Need: This guide is needed to provide: guidance for transformers subjected to reverse power flow; information on how harmonic content introduced from downstream sources will affect transformers whose base operating frequency is 50 Hz or 60 Hz; direction on regulation requirements for transformers subjected to reverse power flow.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This document provides guidance for the operation and performance evaluation of single- and three- phase transformers subjected to reverse power flow. This guide covers power and distribution transformers, both liquid-filled and dry-type.

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### ***New Standard***

BSR/IEEE C57.161-202x, Guide for Dielectric Frequency Response Test for Liquid-Immersed Transformers and Reactors (new standard)

Stakeholders: Utilities, transformer manufacturers, testing service companies, manufacturer of testing equipment.

Project Need: To review the existing C57.161 document. Since the release of the existing C57.161 document, new experience has been accumulated in using the DFR method, which opens up new opportunities for diagnosing transformers and also allows the method to be used for diagnosing reactors.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This guide is applicable to Dielectric Frequency Response (DFR) measurement and analysis for liquid-immersed transformers and reactors. The guide includes recommendations for instrumentation, procedures for performing the tests, and techniques for analyzing the data. This guide can be used in both field and factory applications.

## NFPA (National Fire Protection Association)

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### ***New Standard***

BSR/NFPA 420-202x, Standard on Fire Protection of Cannabis Growing and Processing Facilities (new standard)

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 provides requirements for protection of facilities where cannabis is being grown or processed from fire and related hazards.

## NFPA (National Fire Protection Association)

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### ***Revision***

BSR/NFPA 921-202x, Guide for Fire and Explosion Investigations (revision of ANSI/NFPA 921-2024)

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 is designed to assist individuals who are charged with the responsibility of investigating and analyzing fire and explosion incidents and rendering opinions as to the origin, cause, fire spread, responsibility, or prevention of such incidents and the damage and injuries that arise from such incidents. 1.1.1 The completion of reports for the United States National Fire Incident Reporting System (NFIRS) are outside the scope of this guide. 1.1.2 This guide considers NFIRS reports as incident reports and not as investigation reports. The information contained in an NFIRS report should generally be considered as the preliminary report of the fire department concerning any fire or explosion incident. An NFIRS report should not be used as a fire investigation report.

**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 1010-202x, Standard on Professional Qualifications for Firefighters (revision of ANSI/NFPA 1010-2024)

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 identifies the minimum job performance requirements (JPRs) for support persons, firefighters, and apparatus driver/operators and the minimum performance capabilities for emergency medical services (EMS) personnel.

**NFPA (National Fire Protection Association)**

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**Revision**

BSR/NFPA 1081-202x, Standard for Facility Fire Brigade Member - Professional Qualifications (revision of ANSI/NFPA 1081-2024)

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 identifies the minimum job performance requirements (JPRs) for incipient facility fire brigade member, advanced exterior facility fire brigade member, interior structural facility fire brigade member, facility fire brigade leader, facility fire brigade training coordinator, and support person.

**NFPA (National Fire Protection Association)**

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**Revision**

BSR/NFPA 1550-202x, Standard for Emergency Responder Health and Safety (revision of ANSI/NFPA 1550-2024)

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 identifies the minimum job performance requirements (JPRs) for a health and safety officer (HSO) and an incident safety officer (ISO) for a fire department and contains minimum requirements for a fire service-related occupational safety, health, and wellness program and an incident management system to be used by emergency services to manage all emergency incidents.

## 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 1960-202x, Standard for Fire Hose Connections, Spray Nozzles, Manufacturers Design of Fire Department Ground Ladders, Fire Hose, and Powered Rescue Tools (revision of ANSI/NFPA 1960-2024)

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 defines the performance and requirements for new fire hose couplings and adapters with nominal sizes from 3/4 in. (19 mm) through 8 in. (200 mm) and the specifications for the screw thread connections on those couplings and adapters. This standard specifies the requirements for new adjustable-pattern spray nozzles intended for general firefighting use; for marine and offshore platform firefighting use; for use with fire hoses affixed to standpipe systems; and for fire hose appliances up to and including 6 in. (150 mm) nominal dimension designed for connection to fire hose, fire apparatus, and fire hydrants intended for general fire service use in controlling or conveying water. This standard also specifies the requirements for the design of fire department ground ladders and the design verification tests to be conducted by the ground ladder manufacturer; the design and construction requirements for new fire hose and the testing to verify the design and construction as well as the inspection and testing of all new fire hose; the minimum requirements for the design, performance, testing, and product conformance verification of powered rescue tools and components; the requirements for spreader, ram, cutter, and combination powered rescue tools; and the...

## NFPA (National Fire Protection Association)

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### Revision

BSR/NFPA 2400-202x, Standard for Small Unmanned Aircraft Systems (sUAS) Used for Public Safety Operations (revision of ANSI/NFPA 2400-2024)

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 shall cover the minimum requirements relating to the operation, deployment, and implementation of small unmanned aircraft systems (sUAS) for public safety operations. 1.1.1 This standard shall establish operational protocols for public safety entities who use and support sUAS. 1.1.2 This standard shall include minimum job performance requirements (JPRs) for public safety personnel who operate and support sUAS. 1.1.3 This standard shall include minimum requirements for the maintenance of sUAS when used by public safety entities. 1.1.4 This standard shall provide additional minimum requirements specific to public safety entities.

**NFPA (National Fire Protection Association)**

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**Revision**

BSR/NFPA 3000-202x, Standard for an Active Shooter/Hostile Event Response (ASHER) Program (revision of ANSI/NFPA 3000-2024)

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.**

The scope of this standard is limited to the necessary functions and actions related to preparedness, response, and recovery from an active shooter/hostile event (ASHE).

**RESNA (Rehabilitation Engineering and Assistive Technology Society of North America)**

Doug Weinbaum <[dweinbaum@resna.org](mailto:dweinbaum@resna.org)> | 2001 K Street, NW, 3rd Floor North | Washington, DC 20006 [www.resna.org](http://www.resna.org)

**National Adoption**

BSR/RESNA WC-1-202x, RESNA Standard for Wheelchairs - Volume 1: Requirements and Test Methods for Wheelchairs (including Scooters) (national adoption of ISO 7176 with modifications and revision of ANSI/RESNA WC-1-2019)

Stakeholders: Wheelchair users, caregivers/organizations representing persons with mobility impairments, Assistive Technology Practitioners, the Food and Drug Administration that manages wheelchairs as medical devices, the Centers for Medicare & Medicaid Services and Statistical Analysis Durable Medical Equipment Regional Carrier who establish coding guidelines and policy for the provision of mobility technologies, wheelchair/scooter/mobility device manufacturers, suppliers, researchers, designers, and test labs.

Project Need: The existing RESNA WC-1 standard needs to be revised to remain current with existing wheelchair technologies and to provide more comparable results between test laboratories.

Interest Categories: Consumer Clinician Government Wheelchair Manufacturer Manufacturer-Component Wheelchair Supplier Researcher/Test Lab General

This standard applies to manual and powered wheelchairs, including scooters, and accessories for wheelchairs and scooters. It specifies vocabulary, disclosure requirements for testing, and test methods and methods of measurement for the following: static stability; wheelchair and seat dimensions; static, impact and fatigue strength testing; flammability requirements; test mannequin specifications; and set-up procedures.

**RESNA (Rehabilitation Engineering and Assistive Technology Society of North America)**

Doug Weinbaum <dweinbaum@resna.org> | 2001 K Street, NW, 3rd Floor North | Washington, DC 20006 www.resna.org

**National Adoption**

BSR/RESNA WC-2-202x, RESNA Standard for Wheelchairs - Volume 2: Additional Requirements for Wheelchairs (including Scooters) with Electrical Systems (national adoption of ISO 7176 with modifications and revision of ANSI/RESNA WC-2-2019)

Stakeholders: Wheelchair users, caregivers/organizations representing persons with mobility impairments, Assistive Technology Practitioners, the Food and Drug Administration that manages wheelchairs as medical devices, the Centers for Medicare & Medicaid Services and Statistical Analysis Durable Medical Equipment Regional Carrier who establish coding guidelines and policy for the provision of mobility technologies, wheelchair/scooter/mobility device manufacturers, suppliers, researchers, designers, and test labs.

Project Need: The existing RESNA WC-2 standard needs to be revised to remain current with existing wheelchair technologies and to provide more comparable results between test laboratories.

Interest Categories: Consumer Clinician Government Wheelchair Manufacturer Manufacturer-Component Wheelchair Supplier Researcher/Test Lab General

This standard applies to powered wheelchairs, including scooters, and accessories for wheelchairs and scooters. It specifies test methods and requirements for the following: dynamic stability; brake effectiveness; energy consumption; maximum speed, acceleration and deceleration; obstacle climbing ability; climatic testing; power and control system; and electromagnetic compatibility.

**SDI (Canvass) (Steel Deck Institute)**

Thomas Sputo <tsputo50@gmail.com> | 1731 NW 6th Street, Suite D | Gainesville, FL 32609 www.sdi.org

**Revision**

BSR/SDI AISI S100-202x, North American Specification for the Design of Cold-Formed Steel Structural Members (revision of ANSI/AISI S100-2016 (R2020)/S3-2022)

Stakeholders: Cold-formed steel industry

Project Need: With new research findings, the current standard will be updated and improved.

Interest Categories: Producer, User, General Interest

This new edition incorporates approved revisions and additions used for cold-formed steel member and connection design.

**SDI (Canvass) (Steel Deck Institute)**

Thomas Sputo <tsputo50@gmail.com> | 1731 NW 6th Street, Suite D | Gainesville, FL 32609 www.sdi.org

**Revision**

BSR/SDI AISI S902-202x, Test Standard for Determining the Effective Area of Cold-Formed Steel Compression Members (revision of ANSI/AISI S902-2017)

Stakeholders: Cold-Formed Steel industry.

Project Need: This revision updates the test standard using current research.

Interest Categories: Producer, User, General Interest

This test method covers the determination of the effective cross-sectional area of cold-formed steel columns. It primarily considers the effects of local buckling and residual stresses and is applied to solid or perforated columns that have holes (or hole patterns) in the flat and/or curved elements of the cross-section.



**SDI (Canvass) (Steel Deck Institute)**

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**Revision**

BSR/SDI AISI S905-202x, Test Standard for Determining the Strength and Deformation Characteristics of Cold-Formed Steel Connections (revision of ANSI/AISI S905-2017)

Stakeholders: Cold-formed steel industry

Project Need: This is a test standard used by manufacturers and researchers in cold-formed steel design and analysis. Periodic updates are needed.

Interest Categories: Producer, User, General Interest

This standard applies to performance test methods to determine the strength and deformation characteristics of mechanically fastened and welded connections for cold-formed steel building components. Connections that are stressed in shear (loads applied perpendicular to the shank or cross-section of the fastener, or in plane with the connection faying surfaces) and connections that are stressed in tension (loads applied parallel to the shank or cross-section of the fastener, or perpendicular to the connection faying surfaces) and the interaction effects on connections are included.

**SDI (Canvass) (Steel Deck Institute)**

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**Revision**

BSR/SDI AISI S912-202x, Test Standard for Determining the Strength of a Roof Panel-to-Purlin-to-Anchorage Device Connection (revision of ANSI/AISI S912-2017)

Stakeholders: Cold Formed Steel Industry

Project Need: This is a test standard used by manufacturers and researchers in cold-formed steel design and analysis.

Interest Categories: Producer, User, General Interest

The purpose of this test standard is to obtain lower bound strength values for the roof panel-to-purlin-to-anchorage device connections in through-fastened and standing seam, multi-span, multi-purlin line roof systems. The test is not intended to determine the ultimate strength of the connections.

**SDI (Canvass) (Steel Deck Institute)**

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**New Standard**

BSR/SDI AISI S920-202x, Test Standard for Screw Penetration Through Gypsum Board Into Nonstructural Cold-Formed Steel Framing Members (new standard)

Stakeholders: Cold-formed steel industry

Project Need: This test standard is developed for use by manufacturers and researchers in cold-formed steel design and analysis so that consistent results can be obtained.

Interest Categories: Producer, User, General Interest

This Standard applies to nonstructural cold-formed steel framing members to provide a means to verify the member has enough strength to pull the head of the drywall screw below the surface of the gypsum board paper face without screw spin-out.



**SDI (Canvass) (Steel Deck Institute)**

Thomas Sputo <[tsputo50@gmail.com](mailto:tsputo50@gmail.com)> | 1731 NW 6th Street, Suite D | Gainesville, FL 32609 [www.sdi.org](http://www.sdi.org)

***Revision***

BSR/SDI AISI S923-202x, Test Standard for Determining the Strength and Stiffness of Shear Connection in Composite Members (revision of ANSI/AISI S923-2020)

Stakeholders: Cold-formed steel industry

Project Need: With new research findings, the current standard will be updated and improved.

Interest Categories: Producer, User, General Interest

This test standard determines the strength and stiffness of shear connections in composite members through testing.

# 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 14, 2024

### 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)

### Addenda

BSR/ASHRAE/ASHE Addendum 170p-202x, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Standard 170-2021)

The committee evaluated the functional spaces across all tables to verify what differences existed and what evidential support was behind the differences. Several differences were verified by the working group yet the only documented evidential support the work group could find for any of these differences was for certain resident spaces within Table 9-1, Design Parameters for Residential Health, Care, and Support-Specific Spaces. Therefore, the work group has coordinated the necessary changes to align the requirements for similar functional spaces across the tables within the following recommended changes.

[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 14, 2024

### **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)

#### **Addenda**

BSR/ASHRAE/ASHE Addendum 170q-202x, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Standard 170-2021)

Proposed Addendum q adds a requirement that emergency conditions be considered in the design of the HVAC systems and adds an informative appendix to point users of Standard 170 to appropriate resources and procedures for consideration during design. The appendix includes specific information related to infectious events similar to the COVID-19 pandemic and is structured to allow for additional information to be added as it relates to other types of emergency conditions.

[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>

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

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

#### **Revision**

BSR/ASME B16.9-202x, Factory-Made Wrought Butt Welding Fittings (revision of ANSI/ASME B16.9-2018)

This Standard covers overall dimensions, tolerances, ratings, testing, and markings for factory-made wrought butt welding fittings in sizes NPS 1/2 through NPS 48 (DN 15 through DN 1200).

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Daniel Wiener <[WienerD@asme.org](mailto:WienerD@asme.org)>

### **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 14-202x (i140r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2023)

The physical, performance, and health effects requirements in this standard apply to thermoplastic and thermoset plastic piping system components including, but not limited to, pipes, fittings, valves, joining materials, gaskets, and appurtenances.

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

Send comments (copy [psa@ansi.org](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 | [rbrooker@nsf.org](mailto:rbrooker@nsf.org), [www.nsf.org](http://www.nsf.org)

#### **Revision**

BSR/NSF 455-3-202x (i45r1), Good Manufacturing Practices for Cosmetics (revision of ANSI/NSF 455-3-2022)

This standard is intended to define a standardized approach for auditing to determine the level of compliance of cosmetic products to ISO 22716, as well as incorporating additional retailer requirements.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Rachel Brooker <[rbrooker@nsf.org](mailto:rbrooker@nsf.org)>

## Comment Deadline: July 14, 2024

### NSF (NSF International)

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

#### Revision

BSR/NSF/CAN 60-202x (i101r2), Drinking Water Treatment Chemicals - Health Effects (revision of ANSI/NSF/CAN 60-2021)

This standard contains health effects requirements for drinking water treatment chemicals that are directly added to water and are intended to be present in the finished water. This standard also contains health effects requirements for other chemical products that are directly added to water but are not intended to be present in the finished water.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Amy Jump <[ajump@nsf.org](mailto:ajump@nsf.org)>

### ULSE (UL Standards & Engagement)

100 Queen Street, Suite 1040, Ottawa, ON K1P 1J9 Canada | [hilal.elmisilmani@ul.org](mailto:hilal.elmisilmani@ul.org), <https://ulse.org/>

#### New Standard

BSR/UL 979-202x, Standard For Safety for Water Treatment Appliances (new standard)

The requirements of this standard cover electrically operated water treatment appliances for household, commercial use, and industrial use. These appliances are intended for installation and use in accordance with NFPA 70 and are rated 600 V or less. These requirements also cover appliances utilizing features that treat water using cation exchange water softeners, ionization, filters, ultraviolet radiation, ozone generation, and reverse osmosis. These requirements do not cover water treatment appliances for use with pools or spas, water distillers, aquariums, or other equipment connected to plumbing that is covered by individual requirements. They also do not cover appliances for use in hazardous locations, nor the aesthetic effects or the effectiveness of water treatment.

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

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

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 66-202X, Standard for Safety for Fixture Wire (revision of ANSI/UL 66-2023)  
Gasoline Resistance Rating, Revised Table 27.1

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

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 231-202x, Standard for Power Outlets (revision of ANSI/UL 231-2022)

This purpose of this revision is to revise the 10th edition of UL 231 and approve as an American National Standard.

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

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 29, 2024

### **ANS (American Nuclear Society)**

1111 Pasquellini Drive, Suite 350, Westmont, IL 60559 | [kmurdoch@ans.org](mailto:kmurdoch@ans.org), [www.ans.org](http://www.ans.org)

#### **Reaffirmation**

BSR/ANS 14.1-2004 (R202x), Operation of Fast Pulse Reactors (reaffirmation of ANSI/ANS 14.1-2004 (R2019))  
This standard is for those involved in the design, operation, and review of fast pulse reactors. It has been formulated in general terms to be applicable to all current fast pulse reactors. This standard does not apply to periodically pulsed reactors or booster assemblies.

Single copy price: \$50.00

Obtain an electronic copy from: [orders@ans.org](mailto:orders@ans.org)

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

### **ASA (ASC S3) (Acoustical Society of America)**

1305 Walt Whitman Road, Suite 300, Melville, NY 11747 | [standards@acousticalsociety.org](mailto:standards@acousticalsociety.org), [www.acousticalsociety.org](http://www.acousticalsociety.org)

#### **Revision**

BSR/ASA S3.22-202x, Specification of Hearing Aid Characteristics (revision of ANSI/ASA S3.22-2014 (R2020))  
This standard describes measurement methods for air-conduction hearing aids suitable for specification and quality testing purposes. Test methods described include output sound pressure level with a 90 dB input level, full-on gain, frequency response, harmonic distortion, equivalent input noise, current drain, and induction-coil sensitivity. Tolerance limits in relation to values specified by the manufacturer are also provided for these parameters. A normative annex describes calibration of the sound source. Informative annexes provide information about magnetic field generation, characteristics of battery simulators, additional tests to evaluate the electroacoustic performance of hearing aids, and information about measurement uncertainty for quality assurance.

Single copy price: \$169.00

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

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

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

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

#### **National Adoption**

BSR/ASABE/ISO 11684-202x MONYEAR, Tractors, machinery for agriculture and forestry, powered lawn and garden equipment - Safety labels - General principles (identical national adoption of ISO 11684:2023 and revision of ANSI/ASABE AD11684-1995 APR2011 (R2021))

This document establishes general principles for the design of safety labels and hazard pictorials permanently affixed to, or displayed electronically on, tractors, machinery for agriculture and forestry, and powered lawn and garden equipment. This document outlines safety label objectives, describes the basic safety label formats and colours, provides guidance on developing the various panels that together constitute a safety label, and includes safety label information with regard to operator's manuals.

Single copy price: Free

Obtain an electronic copy from: [companion@asabe.org](mailto:companion@asabe.org)

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

## Comment Deadline: July 29, 2024

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

275 West Street, Suite 107, Annapolis, MD 21401 | [ambria.frazier@x9.org](mailto:ambria.frazier@x9.org), [www.x9.org](http://www.x9.org)

#### **Revision**

BSR X9.58-202X, Financial transaction messages - Electronic Benefits Transfer (EBT) - Supplemental Nutrition Assistance Program (SNAP) and cash benefit programs (revision of ANSI X9.58-2022)

The standard provides all parties involved in Electronic Benefits Transfer (EBT) transactions for SNAP and cash benefit programs with technical specifications for exchanging financial transaction messages between an acquirer and an EBT card issuer processor. It specifies message structure, format and content, data elements and values for data elements used in the Food Stamp program. The method by which settlement takes place is not within the scope of this standard.

Single copy price: \$60.00

Obtain an electronic copy from: [ambria.calloway@x9.org](mailto:ambria.calloway@x9.org)

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

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

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

#### **Addenda**

BSR/ASHRAE Addendum j to Standard 209-202x, Energy Simulation Aided Design for Buildings except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE Standard 209-2018)

This addendum proposes the following changes to cycle 11: Postoccupancy Modeling. The main reasons for the changes are to (1) align the level of detail with the level of detail in other modeling cycles, (2) incorporate comments on the original language, and (3) add informative notes/clarify the language.

Single copy price: \$35.00

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

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

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

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

#### **Revision**

BSR/ASHRAE Standard 150-202xR, Methods of Testing the Performance of Installed Cool-Storage Systems (revision of ANSI/ASHRAE Standard 150-2019)

This revision of ANSI/ASHRAE Standard 150-2019 prescribes a uniform set of testing procedures for determining the performance of installed cool storage systems, including cooling capacities, efficiencies, flows, peak and key charging and discharging, and other performance requirements.

Single copy price: \$35.00

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

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## Comment Deadline: July 29, 2024

### **ASSP (ASC A10) (American Society of Safety Professionals)**

520 N. Northwest Highway, Park Ridge, IL 60068 | [TFisher@ASSP.org](mailto:TFisher@ASSP.org), [www.assp.org](http://www.assp.org)

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

BSR/ASSP A10.2-202X, Safety, Health and Environmental Training for the Construction and Demolition Operations (new standard)

This standard establishes best practices in safety, health, and environmental training for the construction industry.

Single copy price: \$125.00

Obtain an electronic copy from: Tim Fisher <[tfisher@assp.org](mailto:tfisher@assp.org)>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Tim Fisher <[tfisher@assp.org](mailto:tfisher@assp.org)>

### **AWS (American Welding Society)**

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | [sborrero@aws.org](mailto:sborrero@aws.org), [www.aws.org](http://www.aws.org)

#### ***Revision***

BSR/AWS A3.0M/A3.0-202x, Standard Welding Terms and Definitions Including Terms for Additive Manufacturing, Adhesive Bonding, Brazing, Soldering, Thermal Cutting, Thermal Spraying, and Nondestructive Examination (revision of ANSI/AWS A3.0M/A3.0-2019)

This standard is a glossary of the technical terms used in the welding industry. Its purpose is to establish standard terms to aid in the communication of information related to welding and allied processes. Since it is intended to be a comprehensive compilation of welding terminology, nonstandard terms used in the welding industry are also included. All terms are designated as either standard or nonstandard and are arranged in word-by-word alphabetical sequence.

Single copy price: \$110.00

Obtain an electronic copy from: [sborrero@aws.org](mailto:sborrero@aws.org)

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

### **AWS (American Welding Society)**

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | [bboddiger@aws.org](mailto:bboddiger@aws.org), [www.aws.org](http://www.aws.org)

#### ***Revision***

BSR/AWS B5.1-202x, Specification for the Qualification of Welding Inspectors (revision of ANSI/AWS B5.1-2013-AMD1)

This standard defines the qualification requirements to qualify welding inspectors. The qualification requirements for visual welding inspectors include experience and satisfactory completion of an examination, which includes demonstrated capabilities, and proof of visual acuity. The examination tests the inspector's knowledge of welding processes, welding procedures, nondestructive examinations, destructive tests, terms, definitions, symbols, reports, welding metallurgy, related mathematics, safety, quality assurance, and responsibilities.

Single copy price: \$28.00 (Member)/\$36.50 (Non-member)

Obtain an electronic copy from: [bboddiger@aws.org](mailto:bboddiger@aws.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Brenda Boddiger <[bboddiger@aws.org](mailto:bboddiger@aws.org)>

## Comment Deadline: July 29, 2024

### **AWS (American Welding Society)**

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | [kbulger@aws.org](mailto:kbulger@aws.org), [www.aws.org](http://www.aws.org)

#### **Revision**

BSR/AWS C3.12M/C3.12-202x, Specification for Furnace Soldering (revision of ANSI/AWS C3.12M/C3.12-2017)

This specification provides the minimum requirements for equipment, materials, processing procedures as well as inspection for metal and ceramic base materials that can be furnace soldered. This specification provides criteria for classifying furnace-soldered joints based on loading and the consequences of failure. It also provides quality assurance criteria that define the limits of acceptability in each class. This specification describes acceptable furnace soldering equipment, materials, and procedures, as well as the required inspection for each class of solder joint so produced.

Single copy price: \$28.00 (Member)/\$36.50 (Non-member)

Obtain an electronic copy from: [kbulger@aws.org](mailto:kbulger@aws.org)

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

### **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)

#### **Revision**

BSR/AWWA D115-202x, Tendon-Prestressed Concrete Water Tanks (revision of ANSI/AWWA D115-2020)

This standard describes current and recommended practice for the design, construction, and field observations of concrete tanks using internal tendons for prestressing. This standard applies to containment structures for use with potable water, raw water, or wastewater.

Single copy price: Free

Obtain an electronic copy from: [ETSsupport@awwa.org](mailto:ETSsupport@awwa.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: AWWA, Paul J. Olson ([polson@awwa.org](mailto:polson@awwa.org))

### **GBI (Green Building Initiative)**

7805 S.W. 40th #80010, Portland, OR 97219 | [kjohnson@thegbi.org](mailto:kjohnson@thegbi.org), [www.thegbi.org](http://www.thegbi.org)

#### **Revision**

BSR/GBI 01-202X , Green Globes Assessment Protocol for Design, New Construction, and Major Renovations (revision of ANSI/GBI 01-2021)

The Standard includes criteria and practices for resource-efficient, healthy, resilient, and environmentally preferable construction of commercial buildings. Six areas of green building design will be included: environmental/project management, site, energy, water efficiency, materials, and indoor environment.

Single copy price: \$25.00

Obtain an electronic copy from: <https://thegbi.org/green-building-standards/nc/>

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



## Comment Deadline: July 29, 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)

#### **Revision**

BSR/HL7 FHIR IG SHORTHAND, E3-202x, HL7 FHIR® Implementation Guide: FHIR Shorthand, Edition 3.0.0 (revision of ANSI/HL7 FHIR IG SHORTHAND, R2-2022)

FHIR Shorthand (FSH) is a domain-specific language for defining FHIR artifacts involved in creation of FHIR Implementation Guides (IG). The goal of FSH is to allow Implementation Guide (IG) creators to more directly express their intent with fewer concerns about underlying FHIR mechanics, and efficiently produce high-quality FHIR IGs.

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@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)

#### **Revision**

BSR/HL7 V2.9.1-202x, Health Level Standard Standard Version 2.9.1 - An Application Protocol for Electronic Data Exchange in Healthcare Environments (revision of ANSI/HL7 V2.9-2019)

This is an update to the v2.9 standard to include new capabilities including new segments to share data related to gender concepts as being defined by the HL7 Gender Harmony project. New concepts supported include gender identity, pronouns, recorded gender or sex, and sex for clinical use.

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)>

### **NECA (National Electrical Contractors Association)**

1201 Pennsylvania Avenue, Suite 1200, Washington, DC 20004 | [Jeff.Noren@NECAnet.org](mailto:Jeff.Noren@NECAnet.org), [www.neca-neis.org](http://www.neca-neis.org)

#### **Revision**

BSR/NECA/NEMA 105-202X, Standard for Installing Metal Cable Tray Systems (revision of ANSI/NECA/NEMA 105-2015)

NECA/NEMA 105 addresses shipping, handling, storing, and installing cable tray systems, and provides information on maintenance and system modification.

Single copy price: \$30.00 (Member)/\$60.00 (Non-member)

Obtain an electronic copy from: email [neis@necanet.org](mailto:neis@necanet.org)

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

## Comment Deadline: July 29, 2024

### **SCTE (Society of Cable Telecommunications Engineers)**

140 Philips Road, Exton, PA 19341-1318 | [naden@scte.org](mailto:naden@scte.org), [www.scte.org](http://www.scte.org)

#### **Reaffirmation**

BSR/SCTE 42-2019 (R202x), IP Multicast For Digital MPEG Networks (reaffirmation of ANSI/SCTE 42-2019)

The document describes two methods to transmit multicast IP datagrams over MPEG 2 digital transport streams. It describes the use of Digital Video Broadcasting (DVB) Multi-Protocol Encapsulation (MPE) Datagram Sections and the Advanced Television Systems Committee's (ATSC) Addressable Sections, to encapsulate IP datagrams for subsequent segmentation into fixed length MPEG transport packets. It also describes how the encapsulated data will be included within an MPEG Program in a manner that allows a digital MPEG Decoder to efficiently locate the data PID streams carrying multicast IP content.

Single copy price: \$50.00

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

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

### **SCTE (Society of Cable Telecommunications Engineers)**

140 Philips Road, Exton, PA 19341-1318 | [naden@scte.org](mailto:naden@scte.org), [www.scte.org](http://www.scte.org)

#### **Reaffirmation**

BSR/SCTE 53-2019 (R202x), Methods for Asynchronous Data Services Transport (reaffirmation of ANSI/SCTE 53-2019)

This proposal represents transmission format for the carriage of asynchronous data services, compatible with digital multiplex bitstreams constructed in accordance with ISO/IEC 13818-1 (MPEG-2 Systems). Bit rates for the data services extend from 300 bps to 288 kbps including some common high-speed modem rates of 115,200 bps and 230,400 bps. The proposal also covers the entire set of rates specified by the ITU-T Series-V Recommendations (V.22, V.23, V.26, V.27 ter, V.29, V.32, V.32 bis, V.32 ter, and V.34).

Single copy price: \$50.00

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### **SCTE (Society of Cable Telecommunications Engineers)**

140 Philips Road, Exton, PA 19341-1318 | [naden@scte.org](mailto:naden@scte.org), [www.scte.org](http://www.scte.org)

#### **Reaffirmation**

BSR/SCTE 55-1-2019 (R202x), Digital Broadband Delivery System: Out of Band Transport - Part 1: Mode A (reaffirmation of ANSI/SCTE 55-1-2019)

This contribution is a derivative work created from DVS/110. The intention of this document is to provide a contribution whose scope is limited to the physical layer specification for Out-Of-Band cable system.

Specifications of MAC Layer and Link Layer are also provided for the Aloha implementation. The latter should be updated in the future, recognizing the potential adaptation of DOCSIS MAC Layer Specification.

Single copy price: \$50.00

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

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## Comment Deadline: July 29, 2024

### **SCTE (Society of Cable Telecommunications Engineers)**

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#### **Reaffirmation**

BSR/SCTE 55-2-2019 (R202x), Digital Broadband Delivery System: Out of Band Transport - Part 2: Mode B (reaffirmation of ANSI/SCTE 55-2-2019)

This Physical Layer Interface describes the complete physical layer structure, i.e., framing structure, channel coding, and modulation for each direction (Downstream and Upstream).

Single copy price: \$50.00

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

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#### **Reaffirmation**

BSR/SCTE 127-2019 (R202x), Carriage of Vertical Blanking Interval (VBI) Data in North American Digital Television Bitstreams (reaffirmation of ANSI/SCTE 127-2019)

This document specifies a mechanism for transporting analog vertical blanking interval (VBI) information in compressed digital television bitstreams that use the MPEG-2 Transport Stream format. The VBI data so conveyed is intended to be used to generate the appropriate waveforms for insertion into the VBI of SMPTE 170M (NTSC) video output, or acted upon directly by a receiving device. This mechanism is independent of the coding layer and therefore may be used for any coding technology where carriage in an MPEG-2 PES packet format has been defined (e.g., MPEG-2 Video, MPEG-4 AVC, or SMPTE VC-1).

Single copy price: \$50.00

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### **SCTE (Society of Cable Telecommunications Engineers)**

140 Philips Road, Exton, PA 19341-1318 | [naden@scte.org](mailto:naden@scte.org), [www.scte.org](http://www.scte.org)

#### **Reaffirmation**

BSR/SCTE 187-1-2019 (R202x), Stereoscopic 3D Formatting and Coding for Cable (reaffirmation of ANSI/SCTE 187-1-2019)

This document defines the video-related formatting, and encoding parameters for high-definition frame-compatible stereoscopic 3D content for distribution on cable television systems. Encoding parameters and constraints defined by this specification can be applied to different content types, including broadcast programming, switched digital video (SDV), VOD content, and advertising content to be inserted into broadcast or VOD content.

Single copy price: \$50.00

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

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

## Comment Deadline: July 29, 2024

### **SCTE (Society of Cable Telecommunications Engineers)**

140 Philips Road, Exton, PA 19341-1318 | [naden@scte.org](mailto:naden@scte.org), [www.scte.org](http://www.scte.org)

#### **Reaffirmation**

BSR/SCTE 187-2-2019 (R202x), Stereoscopic 3D PSI Signaling (reaffirmation of ANSI/SCTE 187-2-2019)

This document defines the transport and signaling for high-definition frame-compatible stereoscopic 3D content for distribution on cable television systems. Transport parameters and constraints defined by this specification can be applied to different content types, including broadcast programming, switched digital video (SDV), VOD content, and advertising content to be inserted into broadcast or VOD content.

Single copy price: \$50.00

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

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### **SCTE (Society of Cable Telecommunications Engineers)**

140 Philips Road, Exton, PA 19341-1318 | [naden@scte.org](mailto:naden@scte.org), [www.scte.org](http://www.scte.org)

#### **Reaffirmation**

BSR/SCTE 187-3-2019 (R202x), Informative Guidance for Stereoscopic Video (reaffirmation of ANSI/SCTE 187-3-2019)

This document provides informative guidance for the construction or production of stereoscopic 3D programming material intended for transmission or distribution using the frame-compatible stereoscopic 3D format defined in part 1 [SCTE 187-1] and part 2 [SCTE 187-2] of this standard.

Single copy price: \$50.00

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

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### **SCTE (Society of Cable Telecommunications Engineers)**

140 Philips Road, Exton, PA 19341-1318 | [naden@scte.org](mailto:naden@scte.org), [www.scte.org](http://www.scte.org)

#### **Reaffirmation**

BSR/SCTE 254-2019 (R202x), Content Encoding Profiles 3.0 Specification (Closed Specification) (reaffirmation of ANSI/SCTE 254-2019)

This specification defines the video, audio, and related encoding parameters for both Standard and High-Definition content for distribution to cable television systems. Encoding parameters defined by this specification can be applied to different content types, including broadcast programming, which may be switched digital video (SDV), VOD content, and advertising content to be inserted into broadcast or VOD content. Broadcast programming is encoded in streams with no finite length and is not formatted as files. Individual VOD programs or ads of finite length are encoded and formatted as files or byte streams for storage on video servers or other headend equipment.

Single copy price: \$50.00

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## Comment Deadline: July 29, 2024

### **SCTE (Society of Cable Telecommunications Engineers)**

140 Philips Road, Exton, PA 19341-1318 | [naden@scte.org](mailto:naden@scte.org), [www.scte.org](http://www.scte.org)

#### **Revision**

BSR/SCTE 214-1 2022-202x, MPEG DASH for IP-Based Cable Services - Part 1: MPD Constraints and Extensions (revision of ANSI/SCTE 214-1-2022)

This document describes general media presentation description (MPD) constraints and common features supported by both the DASH TS profile and DASH ISO BMFF profile. This will allow a common feature parity between DASH Profile and ISO BMFF Profile versions of the service and includes multiplexed segments. SCTE 214-1 and SCTE 214-2 are used together to support DASH TS Profile delivery which is beneficial while transitioning from traditional broadcast MPEG-2 TS delivery structures using an ATS structured stream. Additional features developed in later DASH editions and needed for CABLE IP Services will be supported in SCTE 214-5 but only for constrained DASH ISO BMFF Profiles with non-multiplexed segments. Profile URNs for DASH/TS and DASH/FF appear in SCTE 214-2 and SCTE 214-5.

Single copy price: \$50.00

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

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### **SCTE (Society of Cable Telecommunications Engineers)**

140 Philips Road, Exton, PA 19341-1318 | [naden@scte.org](mailto:naden@scte.org), [www.scte.org](http://www.scte.org)

#### **Withdrawal**

ANSI/SCTE 215-1-1-2020b, HEVC Video Constraints for Cable Television - Part 1-1 HDR10 Coding (withdrawal of ANSI/SCTE 215-1-1-2020b)

This document in combination with SCTE 215-1 specifies the creation of an HDR10 HEVC coded video elementary stream and is intended for cable video services applications such as broadcast, time-shifting (e.g., PVR/DVR service), Video-on-Demand services, and splicing (e.g., Ad-insertion) that could employ the specifications in this document. However, constraints specific to those applications are outside of the scope of this document.

Single copy price: \$50.00

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

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

### **TIA (Telecommunications Industry Association)**

1320 North Courthouse Road, Suite 200, Arlington, VA 22201-2598 | [tjenkins@tiaonline.org](mailto:tjenkins@tiaonline.org), [www.tiaonline.org](http://www.tiaonline.org)

#### **National Adoption**

BSR/TIA 623.31-202x, Adoption of IEC 61755-3-31: Fibre optic interconnecting devices and passive components - Connector optical interfaces - Part 3-31: Connector parameters of non-dispersion shifted single mode physically contacting fibres - Angled polyphenylene sulphide rectangular ferrules as ANSI/TIA 623.31 (identical national adoption of IEC 61755-3-31)

Adoption of IEC 61755-3-31: Fibre optic interconnecting devices and passive components - Connector optical interfaces - Part 3-31: Connector parameters of non-dispersion shifted single mode physically contacting fibres - Angled polyphenylene sulphide rectangular ferrules as ANSI/TIA 623.31

Single copy price: \$93.00

Obtain an electronic copy from: [standards-process@tiaonline.org](mailto:standards-process@tiaonline.org)

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

## Comment Deadline: August 13, 2024

### AHAM (Association of Home Appliance Manufacturers)

1111 19th Street NW, Suite 1150, Washington, DC 20036 | [GWoyczynski@aham.org](mailto:GWoyczynski@aham.org), [www.aham.org](http://www.aham.org)

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

BSR/AHAM DH-2-2024-202x, Sizing guidelines for portable dehumidifiers (new standard)

This standard covers portable, household, self-contained dehumidifiers employing hermetic refrigerant motor-compressors intended for connection to single-phase circuits rated not more than 20 amperes and 125 volts. The sizing table within this standard enables a consumer to properly size a dehumidifier to maintain a room at 50% RH.

Single copy price: \$60.00

Order from: AHAM

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

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

700 K Street NW, Suite 600, Washington, DC 20001 | [comments@standards.incits.org](mailto:comments@standards.incits.org), [www.incits.org](http://www.incits.org)

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

BSR/INCITS 568-202x, Information technology - Fibre Channel - Switch Fabric - 8 (FC-SW-8) (new standard)

This project proposal recommends the development of a set of technical additions and clarifications to INCITS 547, Fibre Channel - Switch Fabric - 7 (FC-SW-7).

Single copy price: Free

Obtain an electronic copy from: [https://standards.incits.org/higherlogic/ws/public/document?document\\_id=163497&wg\\_id=4eb659ce-fa74-4b5b-a850-018f186797b7](https://standards.incits.org/higherlogic/ws/public/document?document_id=163497&wg_id=4eb659ce-fa74-4b5b-a850-018f186797b7)

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

## Project Withdrawn

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

### 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 2845-202x, Trial Use Standard for Testing and Evaluating the Dielectric Performance of Celebratory Balloons in Contact with Overhead Power Distribution Lines Rated up to 38 kV System Voltage (new standard)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Suzanne Merten <[s.merten@ieee.org](mailto:s.merten@ieee.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 3149-202x, Trial Use Guide for Dissection Techniques of Form Wound Stator Coils and Bars (new standard)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Lisa Weisser <[l.weisser@ieee.org](mailto:l.weisser@ieee.org)>

## Project Withdrawn

### **PHTA (Pool and Hot Tub Alliance)**

1650 King Street, Suite 602, Alexandria, VA 22314 | [cdigiovanni@phta.org](mailto:cdigiovanni@phta.org), [www.PHTA.org](http://www.PHTA.org)

BSR/APSP 2-200x, Standard for Public Spas and Swimspas (new standard)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Carvin DiGiovanni <[cdigiovanni@phta.org](mailto:cdigiovanni@phta.org)>

### **PHTA (Pool and Hot Tub Alliance)**

1650 King Street, Suite 602, Alexandria, VA 22314 | [standards@phta.org](mailto:standards@phta.org), [www.PHTA.org](http://www.PHTA.org)

BSR/APSP/ICC 2-202x, Standard for Public Spas and Swim Spas (new standard)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Genevieve Lynn <[standards@phta.org](mailto:standards@phta.org)>

### **PHTA (Pool and Hot Tub Alliance)**

1650 King Street, Suite 602, Alexandria, VA 22314 | [standards@phta.org](mailto:standards@phta.org), [www.PHTA.org](http://www.PHTA.org)

BSR/APSP/ICC 16-202x, Standard for Suction Fittings for Use in Swimming Pools, Wading Pools, Spas, and Hot Tubs (revision and redesignation of ANSI/APSP 16-2011)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Genevieve Lynn <[standards@phta.org](mailto:standards@phta.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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## **ANS (American Nuclear Society)**

1111 Pasquinnelli Drive, Suite 350, Westmont, IL 60559 | [kmurdoch@ans.org](mailto:kmurdoch@ans.org), [www.ans.org](http://www.ans.org)

ANSI/ANS 1-2000 (R2024), Conduct of Critical Experiments (reaffirmation of ANSI/ANS 1-2000 (R2019)) Final Action Date: 6/5/2024 | *Reaffirmation*

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

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

ANSI/ASABE/ISO 12140-1-JUNE2024, Agricultural trailers and trailed equipment - Drawbar jacks - Part 1: Design safety, test methods and acceptance criteria (identical national adoption of ISO 12140-1:2020 and revision of ANSI/ASABE/ISO 12140-1-JUNE2014 (R2018)) Final Action Date: 6/3/2024 | *National Adoption*

ANSI/ASABE/ISO 12140-2-JUNE2024, Agricultural trailers and trailed equipment - Drawbar jacks - Part 2: Application safety, test methods and acceptance criteria (identical national adoption of ISO 12140-2:2020) Final Action Date: 6/3/2024 | *National Adoption*

## **ASNT (American Society for Nondestructive Testing)**

1201 Dublin Road, Suite G04, Columbus, OH 43215 | [mthomas@asnt.org](mailto:mthomas@asnt.org), [www.asnt.org](http://www.asnt.org)

ANSI/ASNT CP-105-2024, Topical Outlines for Qualification of Nondestructive Testing Personnel (revision of ANSI/ASNT CP-105-2020) Final Action Date: 6/4/2024 | *Revision*

## **ASSP (Safety) (American Society of Safety Professionals)**

520 N. Northwest Highway, Park Ridge, IL 60068 | [LBauerschmidt@assp.org](mailto:LBauerschmidt@assp.org), [www.assp.org](http://www.assp.org)

ANSI/ASSP Z359.1-2024, The Fall Protection Code (revision of ANSI/ASSP Z359.1-2020) Final Action Date: 6/5/2024 | *Revision*

## **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)

ANSI/ASTM E2659-2018 (R2024), Practice for Certificate Programs (reaffirmation of ANSI/ASTM E2659-2018) Final Action Date: 6/1/2024 | *Reaffirmation*

ANSI/ASTM E2820-2013 (R2024), Test Method for Evaluating Thermal EMF Properties of Base-Metal Thermocouple Connectors (reaffirmation of ANSI/ASTM E2820-2013 (R2019)) Final Action Date: 5/21/2024 | *Reaffirmation*

ANSI/ASTM F782-2019 (R2024), Specification for Doors, Furniture, Marine (reaffirmation of ANSI/ASTM F782-2019) Final Action Date: 5/21/2024 | *Reaffirmation*

ANSI/ASTM F1069-2019 (R2024), Specification for Doors, Watertight, Gastight/Airtight and Weathertight, Individually Dogged, for Marine Use (reaffirmation of ANSI/ASTM F1069-2019) Final Action Date: 5/21/2024 | *Reaffirmation*

ANSI/ASTM F1070-2019 (R2024), Specification for Doors, Non-Tight, for Marine Use (reaffirmation of ANSI/ASTM F1070-2019) Final Action Date: 5/21/2024 | *Reaffirmation*

ANSI/ASTM F1073-2019 (R2024), Specification for Door Fittings, for Watertight /Gastight /Airtight, Weathertight, and Non-Tight Doors, for Marine Use (reaffirmation of ANSI/ASTM F1073-2019) Final Action Date: 5/21/2024 | *Reaffirmation*



**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)

ANSI/ASTM F1085-2019 (R2024), Specification for Mattress and Box Springs for Use in Berths in Marine Vessels (reaffirmation of ANSI/ASTM F1085-2019) Final Action Date: 5/21/2024 | *Reaffirmation*

ANSI/ASTM F1142-2019 (R2024), Specification for Manhole Cover Assembly, Bolted, Semi-Flush, Oiltight and Watertight (reaffirmation of ANSI/ASTM F1142-2019) Final Action Date: 5/21/2024 | *Reaffirmation*

ANSI/ASTM F1143-2019 (R2024), Specification for Manhole Cover Assembly, Bolted, Raised, Oiltight and Watertight (reaffirmation of ANSI/ASTM F1143-2019) Final Action Date: 5/21/2024 | *Reaffirmation*

ANSI/ASTM F1144-2019 (R2024), Specification for Manhole Cover Assembly, Bolted, Semi-Flush, Oiltight and Watertight, Hinged (reaffirmation of ANSI/ASTM F1144-2019) Final Action Date: 5/21/2024 | *Reaffirmation*

ANSI/ASTM F1196-2019 (R2024), Specification for Sliding Watertight Door Assemblies (reaffirmation of ANSI/ASTM F1196-2019) Final Action Date: 5/21/2024 | *Reaffirmation*

ANSI/ASTM F1197-2019 (R2024), Specification for Sliding Watertight Door Control Systems (reaffirmation of ANSI/ASTM F1197-2019) Final Action Date: 5/21/2024 | *Reaffirmation*

ANSI/ASTM F2044-2005 (R2024), Specification for Liquid Level Indicating Equipment, Electrical (reaffirmation of ANSI/ASTM F2044-2009 (R2019)) Final Action Date: 5/21/2024 | *Reaffirmation*

ANSI/ASTM F2362-2009 (R2024), Specification for Temperature Monitoring Equipment (reaffirmation of ANSI/ASTM F2362-2003 (R2019)) Final Action Date: 5/21/2024 | *Reaffirmation*

ANSI/ASTM D7445-2024, Specification for Rigid Poly(Vinyl Chloride) (PVC) Siding with Foam Plastic Backing (Backed Vinyl Siding) (revision of ANSI/ASTM D7445-2018) Final Action Date: 5/21/2024 | *Revision*

ANSI/ASTM E119-2024, Test Methods for Fire Tests of Building Construction and Materials (revision of ANSI/ASTM E119-2023) Final Action Date: 5/21/2024 | *Revision*

ANSI/ASTM E814-2024, Test Method for Fire Tests of Penetration Firestop Systems (revision of ANSI/ASTM E814-2023A) Final Action Date: 5/21/2024 | *Revision*

ANSI/ASTM E2573-2024, Practice for Specimen Preparation and Mounting of Site-Fabricated Stretch Systems to Assess Surface Burning Characteristics (revision of ANSI/ASTM E2573-2019) Final Action Date: 5/21/2024 | *Revision*

ANSI/ASTM E2688-2024, Practice for Specimen Preparation and Mounting of Tapes to Assess Surface Burning Characteristics (revision of ANSI/ASTM E2688-2023) Final Action Date: 5/21/2024 | *Revision*

ANSI/ASTM E2708-2024, Terminology for Accreditation and Certification (revision of ANSI/ASTM E2708-2023) Final Action Date: 5/21/2024 | *Revision*

ANSI/ASTM F2479-2024b, Guide for Specification, Purchase, Installation and Maintenance of Poured-In-Place Playground Surfacing (revision of ANSI/ASTM F2479-2017) Final Action Date: 6/1/2024 | *Revision*

**CSA (CSA America Standards Inc.)**

8501 East Pleasant Valley Road, Cleveland, OH 44131-5575 | [ansi.contact@csagroup.org](mailto:ansi.contact@csagroup.org), [www.csagroup.org](http://www.csagroup.org)

ANSI/CSA HGV 4.3-2024, Test methods for hydrogen fuelling parameter evaluation (revision of ANSI/CSA HGV 4.3-2022) Final Action Date: 6/5/2024 | *Revision*

**CTA (Consumer Technology Association)**

1919 South Eads Street, Arlington, VA 22202 | [cakers@cta.tech](mailto:cakers@cta.tech), [www.cta.tech](http://www.cta.tech)

ANSI/CTA-NSF 2110-2024, Recommendations and Best Practices of Sleep Quality Determination in Consumer Sleep Monitoring Solutions (new standard) Final Action Date: 6/5/2024 | *New Standard*

**ESTA (Entertainment Services and Technology Association)**

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | [standards@esta.org](mailto:standards@esta.org), [www.esta.org](http://www.esta.org)

ANSI E1.60-2024, Guidelines for the Use of Raked Stages in Live Performance Environments (revision of ANSI E1.60-2018) Final Action Date: 6/3/2024 | *Revision*

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

18927 Hickory Creek Drive, Suite 220, Mokena, IL 60448 | [standards@iapmostandards.org](mailto:standards@iapmostandards.org), [www.asse-plumbing.org](http://www.asse-plumbing.org)

ANSI/ASSE 1103-2024, Performance Requirements for Pilot Operated Water Pressure Reducing Valves for Potable Water (new standard) Final Action Date: 6/5/2024 | *New Standard*

**IES (Illuminating Engineering Society)**

85 Broad Street, 17th Floor, New York, NY 10004 | [pmcgillicuddy@ies.org](mailto:pmcgillicuddy@ies.org), [www.ies.org](http://www.ies.org)

ANSI/IES TM-30-24, Technical Memorandum: IES Method for Evaluating Light Source Color Rendition (revision of ANSI/IES TM-30-2018) Final Action Date: 6/5/2024 | *Revision*

**ISA (International Society of Automation)**

3252 S. Miami Blvd, Suite 102, Durham, NC 27703 | [crobison@isa.org](mailto:crobison@isa.org), [www.isa.org](http://www.isa.org)

ANSI/ISA 96.03.02-2024, Guidelines for the Specification of Pneumatic Rack and Pinion Valve Actuators (revision of ANSI/ISA 96.03.02-2015) Final Action Date: 6/3/2024 | *Revision*

**NEMA (ASC C137) (National Electrical Manufacturers Association)**

1300 N 17th Street, Suite 900, Rosslyn, VA 22209 | [Michael.Erbesfeld@nema.org](mailto:Michael.Erbesfeld@nema.org), [www.nema.org](http://www.nema.org)

ANSI/C137.10-2024, Standard for Lighting Systems - Sensor Data Models (new standard) Final Action Date: 6/5/2024 | *New Standard*

**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 4-2024 (i37r3), Commercial Cooking, Rethermalization, and Powered Hot Food Holding and Transportation Equipment (revision of ANSI/NSF 4-2022) Final Action Date: 6/4/2024 | *Revision*

ANSI/NSF 49-2024 (i191ar1), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2022) Final Action Date: 6/4/2024 | *Revision*

ANSI/NSF 455-2-2024 (i59r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2022) Final Action Date: 6/5/2024 | *Revision*

ANSI/NSF 455-2-2024 (i62r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2022) Final Action Date: 6/7/2024 | *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 1008 sp-2024, Test conditions for fiberglass mat test methods (revision of ANSI/TAPPI T 1008 sp-2015) Final Action Date: 6/3/2024 | *Revision*

**ULSE (UL Standards & Engagement)**

47173 Benicia Street, Fremont, CA 94538 | [Derrick.L.Martin@ul.org](mailto:Derrick.L.Martin@ul.org), <https://ulse.org/>

ANSI/UL 1694-2010 (R2024), Standard for Safety for Flammability of Small Polymeric Component Materials (reaffirmation of ANSI/UL 1694-2010 (R2019)) Final Action Date: 6/5/2024 | *Reaffirmation*

ANSI/UL 2034-2024, Standard for Single and Multiple Station Carbon Monoxide Alarms (revision of ANSI/UL 2034-2023) Final Action Date: 6/4/2024 | *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).

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

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

BSR/ASABE/ISO 11684-202x MONYEAR, Tractors, machinery for agriculture and forestry, powered lawn and garden equipment - Safety labels - General principles (identical national adoption of ISO 11684:2023 and revision of ANSI/ASABE AD11684-1995 APR2011 (R2021))

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

275 West Street, Suite 107, Annapolis, MD 21401 | [ambria.frazier@x9.org](mailto:ambria.frazier@x9.org), [www.x9.org](http://www.x9.org)

BSR X9.58-202X, Financial transaction messages - Electronic Benefits Transfer (EBT) - Supplemental Nutrition Assistance Program (SNAP) and cash benefit programs (revision of ANSI X9.58-2022)

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

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

BSR/ASME B16.9-202x, Factory-Made Wrought Butt Welding Fittings (revision of ANSI/ASME B16.9-2018)

**ASSP (ASC A10) (American Society of Safety Professionals)**

520 N. Northwest Highway, Park Ridge, IL 60068 | [TFisher@ASSP.org](mailto:TFisher@ASSP.org), [www.assp.org](http://www.assp.org)

BSR/ASSP A10.2-202X, Safety, Health and Environmental Training for the Construction and Demolition Operations (new standard)

**AWS (American Welding Society)**

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | [bboddiger@aws.org](mailto:bboddiger@aws.org), [www.aws.org](http://www.aws.org)

BSR/AWS B5.1-202x, Specification for the Qualification of Welding Inspectors (revision of ANSI/AWS B5.1-2013-AMD1)

**AWS (American Welding Society)**

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | [kbulger@aws.org](mailto:kbulger@aws.org), [www.aws.org](http://www.aws.org)

BSR/AWS C3.12M/C3.12-202x, Specification for Furnace Soldering (revision of ANSI/AWS C3.12M/C3.12-2017)

**GBI (Green Building Initiative)**

7805 S.W. 40th #80010, Portland, OR 97219 | [kjohnson@thegbi.org](mailto:kjohnson@thegbi.org), [www.thegbi.org](http://www.thegbi.org)

BSR/GBI 01-202X, Green Globes Assessment Protocol for Design, New Construction, and Major Renovations (revision of ANSI/GBI 01-2021)

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

700 K Street NW, Suite 600, Washington, DC 20001 | [comments@standards.incits.org](mailto:comments@standards.incits.org), [www.incits.org](http://www.incits.org)

BSR/INCITS 568-202x, Information technology - Fibre Channel - Switch Fabric - 8 (FC-SW-8) (new standard)

**NECA (National Electrical Contractors Association)**

1201 Pennsylvania Avenue, Suite 1200, Washington, DC 20004 | [Jeff.Noren@NECAnet.org](mailto:Jeff.Noren@NECAnet.org), [www.neca-neis.org](http://www.neca-neis.org)

BSR/NECA/NEMA 105-202X, Standard for Installing Metal Cable Tray Systems (revision of ANSI/NECA/NEMA 105-2015)

**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 14-202x (i140r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2023)

**NSF (NSF International)**

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

BSR/NSF 455-3-202x (i45r1), Good Manufacturing Practices for Cosmetics (revision of ANSI/NSF 455-3-2022)

**NSF (NSF International)**

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

BSR/NSF/CAN 60-202x (i101r2), Drinking Water Treatment Chemicals - Health Effects (revision of ANSI/NSF/CAN 60-2021)

**RESNA (Rehabilitation Engineering and Assistive Technology Society of North America)**

2001 K Street, NW, 3rd Floor North, Washington, DC 20006 | [dweinbaum@resna.org](mailto:dweinbaum@resna.org), [www.resna.org](http://www.resna.org)

BSR/RESNA WC-1-202x, RESNA Standard for Wheelchairs - Volume 1: Requirements and Test Methods for Wheelchairs (including Scooters) (national adoption of ISO 7176 with modifications and revision of ANSI/RESNA WC-1-2019)

**RESNA (Rehabilitation Engineering and Assistive Technology Society of North America)**

2001 K Street, NW, 3rd Floor North, Washington, DC 20006 | [dweinbaum@resna.org](mailto:dweinbaum@resna.org), [www.resna.org](http://www.resna.org)

BSR/RESNA WC-2-202x, RESNA Standard for Wheelchairs - Volume 2: Additional Requirements for Wheelchairs (including Scooters) with Electrical Systems (national adoption of ISO 7176 with modifications and revision of ANSI/RESNA WC-2-2019)

**TIA (Telecommunications Industry Association)**

1320 North Courthouse Road, Suite 200, Arlington, VA 22201-2598 | [tjenkins@tiaonline.org](mailto:tjenkins@tiaonline.org), [www.tiaonline.org](http://www.tiaonline.org)

BSR/TIA 623.31-202x, Adoption of IEC 61755-3-31: Fibre optic interconnecting devices and passive components - Connector optical interfaces - Part 3-31: Connector parameters of non-dispersion shifted single mode physically contacting fibres - Angled polyphenylene sulphide rectangular ferrules as ANSI/TIA 623.31 (identical national adoption of IEC 61755-3-31)

**ULSE (UL Standards & Engagement)**

100 Queen Street, Suite 1040, Ottawa, ON K1P 1J9 Canada | [hilal.elmisilmani@ul.org](mailto:hilal.elmisilmani@ul.org), <https://ulse.org/>

BSR/UL 979-202x, Standard For Safety for Water Treatment Appliances (new standard)

Interest Categories: To improve the current balance for TC 979, UL Standards & Engagement is looking for participants in the following interest categories: Authorities Having Jurisdiction, Commercial/Industrial Users, Consumer, General Interest, Government, Supply Chain.

# 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)

# Accreditation Announcements (Standards Developers)

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## Approval of Reaccreditation – ASD

### AIAA - American Institute of Aeronautics and Astronautics

Effective June 6, 2024

The reaccreditation of **AIAA - American Institute of Aeronautics and Astronautics** has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on AIAA-sponsored American National Standards, effective **June 6, 2024**. For additional information, please contact: Nick Tongson, American Institute of Aeronautics and Astronautics (AIAA) | 12700 Sunrise Valley Drive, Suite 200, Reston, VA 20191-5807 | (703) 264-7515, [NickT@aiaa.org](mailto:NickT@aiaa.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).

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<p><b>IAPMO (ASSE Chapter)</b> ASSE International Chapter of IAPMO 18927 Hickory Creek Drive, Suite 220 Mokena, IL 60448 www.asse-plumbing.org Terry Burger standards@iapmostandards.org</p>	<p><b>NFPA</b> National Fire Protection Association One Batterymarch Park Quincy, MA 02169 www.nfpa.org Dawn Michele Bellis dbellis@nfpa.org</p>	<p><b>TIA</b> Telecommunications Industry Association 1320 North Courthouse Road, Suite 200 Arlington, VA 22201 www.tiaonline.org Teesha Jenkins tjenkins@tiaonline.org</p>
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<p><b>ITI (INCITS)</b> InterNational Committee for Information Technology Standards 700 K Street NW, Suite 600 Washington, DC 20001 www.incits.org Lynn Barra comments@standards.incits.org</p>	<p><b>SCTE</b> Society of Cable Telecommunications Engineers 140 Philips Road Exton, PA 19341 www.scte.org Natasha Aden naden@scte.org</p>	<p><b>ULSE</b> UL Standards &amp; Engagement 47173 Benicia Street Fremont, CA 94538 https://ulse.org/ Derrick Martin Derrick.L.Martin@ul.org Linda Phinney Linda.L.Phinney@ul.org</p>
<p><b>NECA</b> National Electrical Contractors Association 1201 Pennsylvania Avenue, Suite 1200 Washington, DC 20004 www.neca-neis.org Jeff Noren Jeff.Noren@NECAnet.org</p>	<p><b>SDI (Canvass)</b> Steel Deck Institute 1731 NW 6th Street, Suite D Gainesville, FL 32609 www.sdi.org Thomas Sputo tsputo50@gmail.com</p>	

# 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

### Banking and related financial services (TC 68)

ISO/DIS 24165-1, Digital token identifier (DTI) - Registration, assignment and structure - Part 1: Method for registration and assignment - 8/26/2024, \$53.00

### Biological evaluation of medical and dental materials and devices (TC 194)

ISO 10993-17:2023/DAmD 1, - Amendment 1: Biological evaluation of medical devices - Part 17: Toxicological risk assessment of medical device constituents - Amendment 1 - 8/24/2024, \$46.00

### Ceramic tile (TC 189)

ISO/DIS 10545-23, Ceramic tiles - Part 23: Determination of elastic modulus for substrates and glaze layer - 8/26/2024, \$53.00

ISO/DIS 10545-24, Ceramic tiles - Part 24: Tensile adhesion strength of multilayer tiles and tile adhesives - 8/25/2024, \$40.00

### Compressors, pneumatic tools and pneumatic machines (TC 118)

ISO/DIS 8573-5, Compressed air - Contaminant measurement - Part 5: Oil vapour content - 8/24/2024, \$58.00

### Document imaging applications (TC 171)

ISO/DIS 4669-2.2, Document management - Information classification, marking and handling - Part 2: Functional and technical requirements for ICMH solutions - 6/14/2024, \$58.00

### Fasteners (TC 2)

ISO 272:1982/DAmD 1, - Amendment 1: Fasteners - Hexagon products - Widths across flats - Amendment 1 - 8/24/2024, \$29.00

### Floor coverings (TC 219)

ISO/DIS 23106, Textile floor coverings - Production of changes in appearance by means of Vettermann drum tester - 8/23/2024, \$40.00

### Gas cylinders (TC 58)

ISO/DIS 13341, Gas cylinders - Fitting of valves to gas cylinders - 8/26/2024, \$53.00

### Health Informatics (TC 215)

ISO/DIS 17523, Health informatics - Requirements for electronic prescriptions - 8/22/2024, \$88.00

### Mechanical testing of metals (TC 164)

ISO/DIS 14577-1, Metallic materials - Instrumented indentation test for hardness and materials parameters - Part 1: Test method - 8/25/2024, \$112.00

ISO/DIS 14577-2, Metallic materials - Instrumented indentation test for hardness and materials parameters - Part 2: Verification and calibration of testing machines - 8/26/2024, \$88.00

ISO/DIS 14577-3, Metallic materials - Instrumented indentation test for hardness and materials parameters - Part 3: Calibration of reference blocks - 8/24/2024, \$46.00

### Metallic and other inorganic coatings (TC 107)

ISO/DIS 4517, Physical vapor deposition coatings - Contact angle measurement of metallic hydrophobic PVD coatings - 8/23/2024, \$40.00

### Other

ISO/DIS 17236, Leather - Physical and mechanical tests - Determination of extension set - 8/22/2024, \$33.00

### Refractories (TC 33)

ISO/DIS 16206, Phase quantitative analysis of residual quartz in silica bricks - X-ray diffraction method - 8/26/2024, \$46.00

### Rubber and rubber products (TC 45)

ISO/DIS 2007, Rubber, unvulcanized - Determination of plasticity - Rapid-plastimeter method - 8/22/2024, \$53.00

### Small craft (TC 188)

ISO/DIS 12215-9, Small craft - Hull construction and scantlings - Part 9: Sailing craft appendages - 8/25/2024, \$146.00

### Small tools (TC 29)

ISO/DIS 20929, Tools for pressing - Heel guidings in large stamping and forming dies - 8/22/2024, \$46.00

### Soil quality (TC 190)

ISO/DIS 18400-105, Soil quality - Sampling - Part 105: Packaging, transport, storage and preservation of samples - 8/23/2024, \$53.00

### Sustainable non-sewered sanitation systems (TC 305)

ISO/DIS 30500, Non-sewered sanitation systems - Prefabricated integrated treatment units - General safety and performance requirements for design and testing - 8/26/2024, \$165.00

### (TC 331)

ISO/DIS 17298, Biodiversity - Requirements and guidelines for strategically and operationally addressing biodiversity at the organizational level - 8/26/2024, \$82.00

### Tyres, rims and valves (TC 31)

ISO/DIS 15222, Truck and bus tyres - Method for measuring relative wet grip performance - Loaded new tyres - 8/26/2024, \$82.00

## ISO/IEC JTC 1, Information Technology

ISO/IEC 30134-4:2017/DAmD 1, - Amendment 1: Information technology - Data centres - Key performance indicators - Part 4: IT Equipment Energy Efficiency for servers (ITEEsv) - Amendment 1 - 8/26/2024, \$29.00

ISO/IEC DIS 6523-2, Information technology - Structure for the identification of organizations and organization parts - Part 2: Registration of organization identification schemes - 8/26/2024, \$46.00

## IEC Standards

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

ISO & IEC Draft International Standards

94/1022(F)/FDIS, IEC 63522-45 ED1: Electrical relays - Tests and Measurements - Part 45: Maximum frequency of operation, 06/21/2024

94/1036/FDIS, IEC 63522-8 ED1: Electrical relays - Tests and measurements - Part 8: Timing, 07/19/2024

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

40/3144(F)/FDIS, IEC 60384-8 ED5: Fixed capacitors for use in electronic equipment - Part 8: Sectional specification - Fixed capacitors of ceramic dielectric, Class 1, 06/21/2024

### Electric road vehicles and electric industrial trucks (TC 69)

69/965/NP, PNW TS 69-965 ED1: Electric vehicle battery swap system - Part 3: Specific requirements for battery swap system operating with removable battery systems, 08/30/2024

### Electric welding (TC 26)

26/761/CDV, IEC 60974-4 ED4: Arc welding equipment - Part 4: Periodic inspection and testing, 08/30/2024

### Electrical accessories (TC 23)

23J/478/CDV, IEC 61058-1 ED5: Switches for appliances - Part 1: General requirements, 08/30/2024

23K/98/CDV, IEC 63445 ED1: System referencing conductor switching device, 08/30/2024

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

31/1786/NP, PNW 31-1786 ED1: Explosive atmosphere - Part 101: Principles of explosion protection, 08/30/2024

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

62D/2133/CDV, IEC 80601-2-23 ED1: Medical electrical equipment - Part 2-23: Particular requirements for the basic safety and essential performance of transcutaneous partial pressure monitoring equipment, 08/30/2024

### Environmental standardization for electrical and electronic products and systems (TC 111)

111/768/NP, PNW 111-768 ED1: General method for assessing the proportion of recycled materials content in products, 08/30/2024

### Fibre optics (TC 86)

86B/4913/CDV, IEC 61300-3-14 ED4: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-14: Examinations and measurements - Error and repeatability of the attenuation settings of a variable optical attenuator, 08/30/2024

86B/4914/CDV, IEC 61753-084-02 ED1: Fibre optic interconnecting devices and passive components - Performance standard - Part 084-02: Non connectorised single-mode 980/1550 nm WWDM devices for category C - Indoor controlled environment, 08/30/2024

86C/1932/CD, IEC 61757 ED2: Fibre optic sensors - Generic specification, 08/30/2024

86C/1931/CD, IEC 62149-4/AMD1 ED3: Amendment 1 - Fibre optic active components and devices - Performance standards - Part 4: 1 300 nm fibre optic transceivers for Gigabit Ethernet application, 08/30/2024

86A/2473/CD, IEC TR 62316 ED4: Guidance for the interpretation of OTDR backscattering traces for single-mode fibres, 08/02/2024

### **Flat Panel Display Devices (TC 110)**

110/1643/CDV, IEC 63211-2-23 ED1: Durability test methods for electronic displays - Part 2-23: Environmental tests - Outdoor weathering, 08/30/2024

110/1642/CDV, IEC 63211-3-2 ED1: Durability test methods for electronic displays - Part 3-2: Mechanical tests - Static stress, 08/30/2024

110/1652/DTR, IEC TR 62595-1-6 ED1: Display light unit- Part 1 -6: Quantum dot films and quantum dot diffuser plates used in backlight unit, 08/02/2024

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

65E/1083(F)/FDIS, IEC 63261 ED1: Representation of electrical and instrument objects in digital 3D plant models during engineering, 06/21/2024

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

34B/2193/CDV, IEC 60061-PR2024-1 ED3: Lamp caps and holders together with gauges for the control of interchangeability and safety - Proposal for GJ6.6d-2-x fits with keys in IEC 60061-1 (7004-188) and IEC 60061-2 (7005-188), 08/30/2024

34/1197/CD, IEC 63544 ED1: Horticultural luminaires incorporating LED sources - Performance, 08/30/2024

### **Nuclear instrumentation (TC 45)**

45/976/NP, PNW 45-976 ED1: Mobile remotely controlled systems for nuclear and radiological applications - Particular requirements for aerial surveillance, 08/30/2024

### **Printed Electronics (TC 119)**

119/501/CD, IEC 62899-302-8 ED1: Printed electronics - Part 302-8: Equipment - Inkjet- Drop Weight Measurement for Drop Size Estimation, 08/02/2024

### **Rotating machinery (TC 2)**

2/2200/CD, IEC 60034-27-8 ED1: Rotating machinery - Part 27-8: Detection of interturn short-circuits in rotor windings of cylindrical rotor synchronous generator, 08/02/2024

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

82/2266/NP, PNW TS 82-2266 ED1: Renewable energy and hybrid systems for rural electrification - Part 200: System selection and design, 08/02/2024



# 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

### Acoustics (TC 43)

[ISO 26101-2:2024](#), Acoustics - Test methods for the qualification of the acoustic environment - Part 2: Determination of the environmental correction, \$124.00

### Cleaning equipment for air and other gases (TC 142)

[ISO 23742:2024](#), Test method for the evaluation of permeability and filtration efficiency distribution of bag filter medium, \$124.00

### Corrosion of metals and alloys (TC 156)

[ISO 9227:2022/Amd 1:2024](#), - Amendment 1: Corrosion tests in artificial atmospheres - Salt spray tests - Amendment 1: Footnote of Warning, \$23.00

[ISO 10062:2022/Amd 1:2024](#), - Amendment 1: Corrosion tests in artificial atmosphere at very low concentrations of polluting gas (es) - Amendment 1: Footnote of Warning, \$23.00

### Equipment for fire protection and fire fighting (TC 21)

[ISO 7076-6:2024](#), Fire protection - Foam fire extinguishing systems - Part 6: Vehicle-mounted compressed air foam systems, \$166.00

### Freight containers (TC 104)

[ISO 1496-1:2013/Amd 2:2024](#), - Amendment 2: Series 1 freight containers - Specification and testing - Part 1: General cargo containers for general purposes - Amendment 2, \$23.00

### Gas cylinders (TC 58)

[ISO 18119:2018/Amd 2:2024](#), - Amendment 2: Gas cylinders - Seamless steel and seamless aluminium-alloy gas cylinders and tubes - Periodic inspection and testing - Amendment 2, \$23.00

### Mechanical vibration and shock (TC 108)

[ISO 20816-2:2017/Amd 1:2024](#), - Amendment 1: Mechanical vibration - Measurement and evaluation of machine vibration - Part 2: Land-based gas turbines, steam turbines and generators in excess of 40 MW, with fluid-film bearings and rated speeds of 1 500 r/min, 1 800 r/min, 3 000 r/min and 3 600 r/min - Amendment 1, \$23.00

### Microbeam analysis (TC 202)

[ISO 14594:2024](#), Microbeam analysis - Electron probe microanalysis - Guidelines for the determination of experimental parameters for wavelength dispersive spectroscopy, \$124.00

### Non-destructive testing (TC 135)

[ISO 16946:2024](#), Non-destructive testing - Ultrasonic testing - Specification for a step wedge standard block, \$54.00

### Refractories (TC 33)

[ISO 21068-2:2024](#), Chemical analysis of raw materials and refractory products containing silicon-carbide, silicon-nitride, silicon-oxynitride and sialon - Part 2: Determination of volatile components, total carbon, free carbon, silicon carbide, total and free silicon, free and surface silica, \$223.00

[ISO 21068-3:2024](#), Chemical analysis of raw materials and refractory products containing silicon-carbide, silicon-nitride, silicon-oxynitride and sialon - Part 3: Determination of nitrogen, oxygen and metallic and oxidic constituents, \$166.00

[ISO 21068-4:2024](#), Chemical analysis of raw materials and refractory products containing silicon-carbide, silicon-nitride, silicon-oxynitride and sialon - Part 4: XRD methods, \$81.00

### Road vehicles (TC 22)

[ISO 5474-1:2024](#), Electrically propelled road vehicles - Functional and safety requirements for power transfer between vehicle and external electric circuit - Part 1: General requirements for conductive power transfer, \$166.00

[ISO 5474-2:2024](#), Electrically propelled road vehicles - Functional and safety requirements for power transfer between vehicle and external electric circuit - Part 2: AC power transfer, \$194.00

[ISO 5474-3:2024](#), Electrically propelled road vehicles - Functional and safety requirements for power transfer between vehicle and external electric circuit - Part 3: DC power transfer, \$194.00

### Surface chemical analysis (TC 201)

[ISO 5861:2024](#), Surface chemical analysis - X-ray photoelectron spectroscopy - Method of intensity calibration for quartz-crystal monochromated Al K $\alpha$  XPS instruments, \$194.00



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

[ISO 18725:2024](#), Tourism and related services - Yacht harbours and dry stacks - Requirements for clean harbours and active biodiversity harbours, \$124.00

**Traditional Chinese medicine (TC 249)**

[ISO 9299:2024](#), Traditional Chinese medicine - Curcuma longa rhizome, \$124.00

**ISO Technical Reports****Health Informatics (TC 215)**

[ISO/TR 6231:2024](#), Health informatics - Standardizing graphical content, \$124.00

**ISO Technical Specifications****Traditional Chinese medicine (TC 249)**

[ISO/TS 23961-3:2024](#), Traditional Chinese medicine - Vocabulary for diagnostics - Part 3: Abdomen, \$166.00

**ISO/IEC JTC 1, Information Technology**

[ISO/IEC 23078-1:2024](#), Information technology - Specification of digital rights management (DRM) technology for digital publications - Part 1: Overview of copyright protection technologies in use in the publishing industry, \$54.00

[ISO/IEC 23078-2:2024](#), Information technology - Specification of digital rights management (DRM) technology for digital publications - Part 2: User key-based protection, \$223.00

[ISO/IEC 23078-3:2024](#), Information technology - Specification of digital rights management (DRM) technology for digital publications - Part 3: Device key-based protection, \$194.00

[ISO/IEC 24787-1:2024](#), Information technology - On-card biometric comparison - Part 1: General principles and specifications, \$194.00

[ISO/IEC 24787-2:2024](#), Information technology - On-card biometric comparison - Part 2: Work-sharing mechanism, \$54.00

[ISO/IEC 30105-1:2024](#), Information technology - IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes - Part 1: Process reference model (PRM), \$194.00

[ISO/IEC 30105-5:2024](#), Information technology - IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes - Part 5: Guidance, \$194.00

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

[IEC 60092-353 Ed. 5.0 en:2024](#), Electrical installations in ships - Part 353: Power cables for rated voltages 1 kV and 3 kV, \$193.00

[S+ IEC 60092-353 Ed. 5.0 en:2024 \(Redline version\)](#), Electrical installations in ships - Part 353: Power cables for rated voltages 1 kV and 3 kV, \$329.00

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

[IEC 61987-32 Ed. 1.0 b:2024](#), Industrial-process measurement and control - Data structures and elements in process equipment catalogues - Part 32: Lists of properties (LOP) for I/O modules for electronic data exchange, \$103.00

**Power electronics (TC 22)**

[IEC 61954 Ed. 3.0 b Cor.1:2024](#), Corrigendum 1 - Static VAR compensators (SVC) - Testing of thyristor valves, \$0.00

**Semiconductor devices (TC 47)**

[IEC 62047-48 Ed. 1.0 en:2024](#), Semiconductor devices - Micro-electromechanical devices - Part 48: Test method for determining solution concentration by optical absorption using MEMS fluidic device, \$103.00

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

[IEC 61558-2-8 Ed. 3.0 b:2024](#), Safety of transformers, reactors, power supply units and combinations thereof - Part 2-8: Particular requirements and tests for transformers and power supply units for bells and chimes, \$148.00

[IEC 61558-2-8 Ed. 3.0 en:2024 EXV](#), Safety of transformers, reactors, power supply units and combinations thereof - Part 2-8: Particular requirements and tests for transformers and power supply units for bells and chimes, \$932.00

[IEC 61558-2-9 Ed. 3.0 b:2024](#), Safety of transformers, reactors, power supply units and combinations thereof - Part 2-9: Particular requirements and tests for transformers and power supply units for class III handlamps, \$148.00

[IEC 61558-2-9 Ed. 3.0 en:2024 EXV](#), Safety of transformers, reactors, power supply units and combinations thereof - Part 2-9: Particular requirements and tests for transformers and power supply units for class III handlamps, \$932.00

[IEC 61558-2-10 Ed. 2.0 en:2024 EXV](#), Safety of transformers, reactors, power supply units and combinations thereof - Part 2-10: Particular requirements and tests for separating transformers with high insulation level and separating transformers with output voltages exceeding 1 000 V, \$932.00



[IEC 61558-2-10 Ed. 2.0 b:2024](#), Safety of transformers, reactors, power supply units and combinations thereof - Part 2-10: Particular requirements and tests for separating transformers with high insulation level and separating transformers with output voltages exceeding 1 000 V, \$148.00

[IEC 61558-2-23 Ed. 3.0 b:2024](#), Safety of transformers, reactors, power supply units and combinations thereof - Part 2-23: Particular requirements and tests for transformers and power supply units for construction sites, \$193.00

[IEC 61558-2-23 Ed. 3.0 en:2024 EXV](#), Safety of transformers, reactors, power supply units and combinations thereof - Part 2-23: Particular requirements and tests for transformers and power supply units for construction sites, \$932.00

[S+ IEC 61558-2-8 Ed. 3.0 en:2024 \(Redline version\)](#), Safety of transformers, reactors, power supply units and combinations thereof - Part 2-8: Particular requirements and tests for transformers and power supply units for bells and chimes, \$253.00

[S+ IEC 61558-2-8-EXV-RLV Ed. 3.0 en:2024 \(Redline version\)](#), Safety of transformers, reactors, power supply units and combinations thereof - Part 2-8: Particular requirements and tests for transformers and power supply units for bells and chimes, \$1072.00

[S+ IEC 61558-2-9 Ed. 3.0 en:2024 \(Redline version\)](#), Safety of transformers, reactors, power supply units and combinations thereof - Part 2-9: Particular requirements and tests for transformers and power supply units for class III handlamps, \$253.00

[S+ IEC 61558-2-9-EXV-RLV Ed. 3.0 en:2024 \(Redline version\)](#), Safety of transformers, reactors, power supply units and combinations thereof - Part 2-9: Particular requirements and tests for transformers and power supply units for class III handlamps, \$1072.00

[S+ IEC 61558-2-10 Ed. 2.0 en:2024 \(Redline version\)](#), Safety of transformers, reactors, power supply units and combinations thereof - Part 2-10: Particular requirements and tests for separating transformers with high insulation level and separating transformers with output voltages exceeding 1 000 V, \$253.00

[S+ IEC 61558-2-10-EXV-RLV Ed. 2.0 en:2024 \(Redline version\)](#), Safety of transformers, reactors, power supply units and combinations thereof - Part 2-10: Particular requirements and tests for separating transformers with high insulation level and separating transformers with output voltages exceeding 1 000 V, \$1072.00

[S+ IEC 61558-2-23 Ed. 3.0 en:2024 \(Redline version\)](#), Safety of transformers, reactors, power supply units and combinations thereof - Part 2-23: Particular requirements and tests for transformers and power supply units for construction sites, \$329.00

[S+ IEC 61558-2-23-EXV-RLV Ed. 3.0 en:2024 \(Redline version\)](#), Safety of transformers, reactors, power supply units and combinations thereof - Part 2-23: Particular requirements and tests for transformers and power supply units for construction sites, \$1135.00

## IEC Technical Reports

### Fibre optics (TC 86)

[IEC/TR 63323 Ed. 1.0 en:2024](#), Fibre optic interconnecting devices and passive components - Study of an SC connector adaptor with safety lock mechanism, \$148.00

# Accreditation Announcements (U.S. TAGs to ISO)

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## Approval of Accreditation – U.S. TAG to ISO

### PC 343, Sustainable development goals management

Effective June 7, 2024

ANSI's Executive Standards Council (ExSC) has formally approved the accreditation of the U.S. Technical Advisory Group to ISO **PC 343, Sustainable development goals management** and the appointment of the American National Standards Institute as TAG Administrator, effective **June 7, 2024**. The TAG will operate under the Model Operating Procedures for U.S. Technical Advisory Groups to ANSI for ISO Activities as contained in Annex A of the ANSI International Procedures. For additional information, please contact: Kemi Allston, American National Standards Institute: 25 W 43rd Street P: (212) 642-4900 E: [kallston@ansi.org](mailto:kallston@ansi.org)

# 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

**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).

Report Trade Barriers: [https://tcc.export.gov/Report\\_a\\_Barrier/index.asp](https://tcc.export.gov/Report_a_Barrier/index.asp).

USDA FAS: <https://www.fas.usda.gov/about-fas>

FAS contribution to free trade agreements: <https://www.fas.usda.gov/topics/trade-policy/trade-agreements>

Tracking regulatory changes: <https://www.fas.usda.gov/tracking-regulatory-changes-wto-members>

USTR WAMA: <https://ustr.gov/trade-agreements/wto-multilateral-affairs/wto-issues/technical-barriers-trade>

Contact the USA TBT Enquiry Point at (301) 975-2918; E [usatbtep@nist.gov](mailto:usatbtep@nist.gov) or [notifyus@nist.gov](mailto:notifyus@nist.gov).





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

**Public Review Draft**

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

**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).

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).

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

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

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

## FOREWORD

The committee evaluated the functional spaces across all tables to verify what differences existed and what evidential support was behind the differences. Several differences were verified by the working group yet the only documented evidential support the work group could find for any of these differences was for certain resident spaces within Table 9-1, Design Parameters for Residential Health, Care, and Support-Specific Spaces. Therefore, the work group has coordinated the necessary changes to align the requirements for similar functional spaces across the tables within the following recommended changes.

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

## Addendum p to 170-2021

**Revise Table 7-1 as shown below. The remainder of Table 7-1 is unchanged.**

Table 7-1 Design Parameters — Inpatient Spaces									
Function of Space (f)	Pressure Relationship to Adjacent Areas (n)	Minimum Outdoor ach	Minimum Total ach	All Room Air Exhausted Directly to Outdoors (j)	Air Recirculated by Means of Room Units (a)	Unoccupied Turndown	Minimum Filter Efficiencies (c)	Design Relative Humidity (k), %	Design Temperature (l), °F/°C
NURSING UNITS AND OTHER PATIENT CARE AREAS									
Phase I PACU and Phase II recovery (FGI 2.1–3.4.4 & 2.1–3.4.5)	NR	2	6	NR	No	Yes	MERV-14	<del>20</del> <u>Max 60</u>	70–75/21–24
BEHAVIORAL AND MENTAL HEALTH FACILITIES (k)									
Patient bedroom, resident room (FGI 2.2–2.12.2 & 2.5–2.2.2)	NR	2	2	NR	NR	Yes	MERV-8	<del>NR</del> <u>Max 60</u>	<del>NR</del> <u>70–75/21–24</u>
Seclusion room (FGI 2.1–2.4.3 & 2.2–2.12.4.3)	NR	2	4	NR	NR	Yes	MERV-8	<del>NR</del> <u>Max 60</u>	<del>NR</del> <u>70–75/21–24</u>
DIAGNOSTIC AND TREATMENT									
ECT procedure room (FGI 2.2–2.12.4.1 & 2.5–3.4)	NR	2	4	NR	NR	Yes	MERV-8	Max 60	<del>72–78/22–26</del> <u>70–75/21–24</u>

Gastrointestinal endoscopy procedure room (FGI 2.2-3.11.2 & Table 2.2-1) (x)	NR	2	6	NR	No	Yes	MERV-8	20- <b>Max 60</b>	68-73/20-23
General examination room (FGI 2.1-3.2)	NR	2	4	NR	NR	Yes	MERV-8	Max 60- <b>NR</b>	70-75/21-24
Physical therapy (FGI 2.2-2.13.8.16 & 2.6-3.1)	Negative	2	6	NR	NR	Yes	MERV-8	Max 65- <b>NR</b>	72-80/22-27
<b>PATIENT SUPPORT FACILITIES</b>									
Toilet room (FGI 2.1-2.9.2)	Negative	NR	10	Yes	No	Yes	MERV-8	NR	72-78/22-26 <b>NR</b>

**Revise Table 8-1 as shown below. The remainder of Table 8-1 is unchanged.**

<b>Table 8-1 Design Parameters—Specialized Outpatient Spaces</b>									
Function of Space (f)	Pressure Relationship to Adjacent Areas (n)	Minimum Outdoor ach	Minimum Total ach	All Room Air Exhausted Directly to Outdoors (j)	Air Recirculated by Means of Room Units (a)	Unoccupied Turndown	Minimum Filter Efficiencies (c)	Design Relative Humidity (k), %	Design Temperature (l), °F/°C
<b>SURGERY AND EMERGENCY DEPARTMENT (ED)</b>									
Phase I recovery (PACU) (FGI 2.1-3.7.4)	NR	2	6	NR	No	Yes	MERV-8	Max 60	70-75/21-24
Phase II recovery (FGI 2.1-3.7.5) (u)	NR	2	2	NR	NR	Yes	MERV-8	Max 60	70-75/21-24
<b>Phase I PACU and Phase II recovery (FGI 2.1-3.4.4 &amp; 2.1-3.4.5)</b>	<b>NR</b>	<b>2</b>	<b>6</b>	<b>NR</b>	<b>No</b>	<b>Yes</b>	<b>MERV-14</b>	<b>Max 60</b>	<b>70-75/21-24</b>
<b>DIAGNOSTIC AND TREATMENT</b>									
Examination/observation (FGI 2.1-3.2.1)	NR	2	4	NR	NR	Yes	MERV-8	Max 60- <b>NR</b>	70-75/21-24
Pharmacy/med prep (FGI 2.1-3.8.8.2 & 2.1-4.2.2) (b)	Positive	2	4	NR	NR	Yes	MERV-8	NR <b>Max 60</b>	NR <b>70-75/21-24</b>
Laser eye room (FGI 2.1-3.2.2)	NR	2	6	NR	No	Yes	MERV-8	Max <b>20</b> - 60	68-73/20-23 <b>70-75/21-24</b>
<b>STERILE PROCESSING (aa)</b>									
Clean workroom (FGI 2.1-4.3.2.2.3)	Positive	2	4	NR	No	No	MERV-14 (ee)	Max 60	60-73/16-23 <b>68-73/20-23</b>
Clean supply storage (FGI 2.1-4.3.2.2.4)	Positive	2	4	NR	NR	No	MERV-14 (ee)	Max 60	72-78/22-26 <b>Max 75</b>
Soiled workroom or soiled holding (FGI 2.1-3.8.12)	Negative	2	6	Yes	No	No	MERV-8	NR	72-78/22-26 <b>NR</b>

**Revise Table 9-1 as shown below. The remainder of Table 9-1 is unchanged.**

<b>Table 9-1 Design Parameters for Residential Health, Care, and Support-Specific Spaces</b>									
<b>Function of Space (f)</b>	<b>Pressure Relationship to Adjacent Areas (n)</b>	<b>Minimum Outdoor ach</b>	<b>Minimum Total ach</b>	<b>All Room Air Exhausted Directly to Outdoors (j)</b>	<b>Air Recirculated by Means of Room Units (a)</b>	<b>Unoccupied Turndown</b>	<b>Minimum Filter Efficiencies (c)</b>	<b>Design Relative Humidity (k), %</b>	<b>Design Temperature (l), °F/°C</b>
<b>RESIDENTIAL HEALTH NURSING HOMES</b>									
All room (FGI 3.1-2.2.4.1) (b)	Negative	2	12	Yes	No	Yes	MERV-13	Max <del>30</del> -60	70-78/21-29
All anteroom (FGI 3.1-2.2.4.1) (b)	Negative	NR	10	Yes	No	Yes	MERV-13	Max <del>60</del> -NR	70-78/21-29 <b>NR</b>
Occupational therapy (FGI 3.1-3.3.3)	NR	2	6	NR	NR	Yes	MERV-14	NR	<del>70-78/21-29</del> <b>70-75/21-24</b>
Physical therapy (FGI 3.1-3.3.2)	Negative	2	6	NR	NR	Yes	MERV-13	NR	<del>70-78/21-29</del> <b>72-80/22-27</b>
Toilet/bathing room (FGI 3.1-2.2.2.6)	Negative	NR	10	Yes	No	No	MERV-13	NR	<del>70-78/21-29</del> <b>NR</b>
<b>HOSPICE FACILITIES</b>									
Toilet/bathing room (FGI 3.2-2.2.2.6)	Negative	NR	10	Yes	No	Yes	MERV-13	NR	<del>70-75/21-24</del> <b>NR</b>
Resident room (FGI 3.2-2.2.2)	NR	2	2	NR	NR	Yes	MERV-8	Max 60	<del>70-75/21-24</del> <b>70-78/21-29</b>
<b>SUPPORT SPACE</b>									
Nonrefrigerated body holding room	Negative	NR	10	Yes	No	No	MERV-8	NR	<del>68-75/20-24</del> <b>70-75/21-24</b>



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

**Public Review Draft**

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

**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).

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**

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

## FOREWORD

*Proposed Addendum q adds a requirement that emergency conditions be considered in the design of the HVAC systems and adds an informative appendix to point users of Standard 170 to appropriate resources and procedures for consideration during design. The appendix includes specific information related to infectious events similar to the COVID-19 pandemic and is structured to allow for additional information to be added as it relates to other types of emergency conditions.*

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

## Addendum q to 170-2021

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*Add Section 5.7 as shown below.*

**5.7 Emergency Conditions.** HVAC system design and arrangement shall address the applicable recommendations contained in the facility's operational and emergency plan.

***Informative Note:*** Refer to Informative Appendix E for additional guidance and considerations.

***Re-letter Informative Appendix E and revise as shown below. The remainder of Appendix E is unchanged.***

### INFORMATIVE APPENDIX ~~E~~ INFORMATIVE REFERENCES AND BIBLIOGRAPHY

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

ASHRAE 2019b. ASHRAE Guideline 29, *Guideline for the Risk Management of Public Health and Safety in Buildings*. Atlanta: ASHRAE.

ASHRAE. 2023. *ASHRAE Handbook—Applications*. Atlanta: ASHRAE.

FGI. 2021. *Guidance for Designing Health and Residential Care Facilities that Respond and Adapt to Emergency Conditions* St Louis, MO: Facility Guidelines Institute.

*Add Informative Appendix E as shown below.*

**(This appendix 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.)**

## **INFORMATIVE APPENDIX E** **EMERGENCY CONDITIONS**

### **DESIGN RECOMMENDATIONS FOR HIGH CONSEQUENCE INFECTION**

Proactive design can provide response capabilities for disasters and emergencies. A facility's emergency plan should outline requirements for emergency conditions. A design team can incorporate these requirements. Design features should be made clear in the final documents. All features should be completely commissioned for functionality. They should be readily apparent to anyone reading the documentation at any time.

*Example: A hospital's emergency plan requires every patient room on the fourth floor to be convertible to a "pandemic-mode" consistent with ASHRAE 241. A design team provides the design for "pandemic mode". Design documents clearly shows the equipment, capabilities, and sequences for the "pandemic-mode". Anyone reviewing the design documentation, during construction and/or operation, can easily and readily see the "pandemic-mode" feature, and clearly understand how it is to be used.*

Design features for an emergency condition require compatibility with several principles. These include:

- Do No Harm
- Protect Healthcare Workers, Family, Visitors, and Patients
- Be Validated and/or Functional Performance Tested

Use the following process when evaluating and selecting design features:

- **Clarify and objectify the requirements of the facility emergency plan in detail.** The design team must understand exactly what is to happen during the emergency, and how it varies from normal operations. Include any supporting documentation such as risk assessment documentation, copies of facility's normal and emergency operational plans, current building plans and control sequences (where applicable).
- **Evaluate alternatives to meet the requirements.**
  - Are there simple, low cost, and easily implemented approaches that can meet the requirements? Examples may include: closed vs open doors, additional in-room air treatment or filtration, source capture (e.g. ventilated headboard).
  - Are complex, high-cost, and/or automated approaches necessary? Examples may include: cascading pressurization, compartmentalization.
  - Use infectious aerosol modeling to compare the risk outcomes of different scenarios involving control of infectious aerosols. Infectious aerosol modeling can be done at several levels. Simplistic comparison of alternatives can be tabulated using the Wells-Riley equation with well-documented assumptions. Computational fluid dynamics, which requires significantly more effort, can be used to model room effects including the effects of inlet and outlet locations.
- **Choose the alternative(s).** The selected alternative(s) must meets the requirements of the emergency plan. Selection of alternatives may be based on cost, value, complexity or feasibility.

- **Document the design performance of the selected alternative(s).** The selected alternative should result in a known level of performance. For room airflow, this should be a known contaminant decay rate, or room clearing rate. For room-to-room performance, this should be a specific containment ratio.
- **Specify verification of the design performance.** To be successful, the design must be constructed and tested to meet the design performance.

*Example: A hospital's emergency plan requires every patient room on the fourth floor to be convertible to a "pandemic-mode" consistent with ASHRAE 241.*

*Clarify in detail: The design team clarifies the necessary clean airflow which is required, and which rooms the clean airflow is required in. The rooms and requirements are documented in a Basis of Design.*

*Evaluate alternatives: The design team lists alternatives, including upgrades to the floor air handler, negative pressure room switchover capabilities, in-room permanently installed recirculating filters, temporary (not installed) in-room filters, temporary (not installed) ventilated headboards. For each alternative, the design team prepares a design brief, evaluates costs and benefits. The design team prepares an infectious aerosol risk model that lists the alternatives along with their relative effects on infectious aerosol risk.*

*Choose the alternative: The owner selects an alternative.*

*Document the performance: The design team identifies the additional airflow which is required in each room. This documentation is included in the Basis of Design, on the plans and specifications, and in the facility operator's training agenda. Anyone reviewing the design documentation, during construction and/or operation, can easily and readily see the "pandemic-mode" feature, and clearly understand how it is to be used.*

*Specify verification: The design team specifies a test of that airflow, and an acceptable range of deviation, for a representative sample of the rooms to verify that the design intent is met.*

### **ADDITIONAL INFORMATION:**

There are numerous additional ASHRAE publications to assist in the evaluation and design of systems for the accommodation of emergency conditions. These include but are not limited to:

- ASHRAE Standard 113-2022 – Method of Testing for Room Air Diffusion
- ASHRAE Standard 129-1997 (RA 2002) – Measuring Air Change Effectiveness
- ASHRAE Standard 202-2018 – Commissioning Process for Buildings and Systems
- ASHRAE Standard 241-2023 – Control of Infectious Aerosols
- ASHRAE Standard 514-2023 – Risk Management for Building Water Systems: Physical, Chemical, and Microbial Hazards
- ASHRAE Guideline 1.3-2018 – Building Operations and Maintenance Training for the HVAC&R Process
- ASHRAE Guideline 1.4-2019 – Preparing Systems Manuals for Facilities
- ASHRAE Guideline 10-2023 – Interactions Affecting the Achievement of Acceptable Indoor Environments
- ASHRAE Guideline 33-2021 – Guideline for Documenting Indoor Airflow and Contaminant Transport Modeling

For guidance on the requirements of a typical operational and emergency plan including the elements of a disaster, emergency and vulnerability assessment, refer to the following resources:

- FGI Guidelines for Design and Construction of Hospitals.
- FGI Guidelines for Design and Construction of Outpatient Facilities.



- *FGI Guidelines for Design and Construction of Residential Health, Care, and Support Facilities.*
- *ASHRAE Guideline 29 – Guideline for the Risk Management of Public Health and Safety in Buildings*
- *NFPA 99 – Health Care Facilities Code Chapter 4.*

For guidance on proactive design elements that may be considered for incorporation in the construction or renovation of the facility, refer to the following resources:

- *ASHRAE Handbook—Applications Chapter 9 Health Care Facilities*
- *HVAC Design Manual for Hospitals and Clinics Chapter 10 Disaster Planning and Emergency Management*
- *FGI Guidance for Designing Health and Residential Care Facilities that Respond and Adapt to Emergency Conditions.*
- *NHS (September 2022) Health Building Note 04-01 Supplement 1: Special ventilated isolation facilities for patients in acute settings.*

thickness, and material that are equivalent to that of the fitting shall be used. Pipe size, wall thickness (or schedule number), and material identity on the fittings are in lieu of pressure rating markings.

## (18) 2.2 Design of Fittings

**2.2.1 Acceptable Design Methods.** The design of fittings shall be established by one of the following methods:

(a) mathematical analyses contained in nationally recognized pressure vessel or piping codes (e.g., ASME B31.3 para. 304.2 for elbows and para. 304.3 for tees).

(b) proof testing in accordance with [section 9](#) of this Standard.

(c) experimental stress analysis, such as described in ASME BPVC, Section VIII, Division 2, Annex 5.F with validation of results. Hydrostatic testing can be used to validate experimental results.

(d) detailed stress analysis (e.g., finite element method) with results evaluated as described in ASME BPVC, Section VIII, Division 2, Part 5 with validation of results. Strain measurement, photoelastic testing, or hydrostatic testing can be used to validate calculated results.

**2.2.2 Design Thickness.** To meet design or manufacturing requirements, it is expected that some portion of formed fittings may have to be thicker than the pipe wall with which the fitting is intended to be used. The mathematical analyses, if used, may take into account such thicker sections.

**2.2.3 Records.** Copies of English-language records of the mathematical analysis, the successful proof test, or both shall be made available to the purchaser or regulatory authority upon request.

## 3 SIZE

NPS, followed by a dimensionless number, is the designation for nominal fitting size. NPS is related to the reference nominal diameter, DN, used in international standards. The relationship is, typically, as follows:

DN	NPS
15	$\frac{1}{2}$
20	$\frac{3}{4}$
25	1
32	$1\frac{1}{4}$
40	$1\frac{1}{2}$
50	2
65	$2\frac{1}{2}$
80	3
100	4

NOTE: For NPS > 4, the equivalence is DN = 25 × NPS.

## 4 MARKING

### 4.1 Standard Marking

Each fitting shall be permanently marked to show the following:

(a) manufacturer's name or trademark

(b) material identification, either the ASTM or ASME grade designation

(c) wall-thickness identification<sup>1</sup>, schedule number<sup>1</sup>, or nominal wall thickness in mm (in.)

(d) size — the nominal pipe size (NPS) identification

number related to the end connections shall be used

(e) compliance — see [para. 4.4](#) for standard and special fitting marking

A manufacturer may supplement these mandatory markings with others, including a DN size designation, but confusion with the required marking shall be avoided.

### 4.2 Exceptions

Where the size of the fitting does not permit complete marking, the identification marks may be omitted in reverse of the order presented in [para. 4.1](#).

### 4.3 Depth of Stamping

Where steel stamps are used, care shall be taken so that the marking is not deep enough or sharp enough to cause cracks or to reduce the wall thickness of the fitting below the minimum allowed.

### 4.4 Compliance

**4.4.1 Standard Fittings.** That the fitting was manufactured in conformance with this Standard, including all dimensional requirements, is certified by a prefix "WP" in the material grade designation marking.

**4.4.2 Special Fittings.** That the fitting was manufactured in conformance with this Standard, except that dimensional requirements are as agreed between the purchaser and the manufacturer, is certified by a supplementary suffix to the material grade designation marking as follows:

(a) "S58" of ASTM A960 applies for fittings in accordance with ASTM A234, ASTM A403, and ASTM A420, and ASTM A815.

~~(b) "S8" applies for fittings in accordance with ASTM A815.~~

~~(b)(c)~~ "SPLD" applies for fittings in accordance with ASTM B361, ASTM B363, and ASTM B366.

<sup>1</sup> Schedule number is a dimensionless number that is widely used as a convenient designation for use in ordering pipe and fittings. It is normally associated with a group of standardized pipe wall thicknesses. Refer to ASME B36.10M and ASME B36.19M for complete details on pipe schedule numbers. The wall-thickness identifications Standard (STD), Extra-Strong (XS), and Double Extra-Strong (XXS) or schedule number as described in ASME B36.10M and ASME B36.19M.

**(18) 5 MATERIAL**

Wrought fittings covered by this Standard shall be in accordance with ASTM A234, ASTM A403, ASTM A420, ASTM A815, ASTM B361, ASTM B363, ASTM B366, or the corresponding specification listed in ASME BPVC, Section II. The term “wrought” denotes fittings made of pipe, tubing, plate, or forgings. For purposes of determining proof testing requirements of [section 9](#), the materials are grouped by similar properties as shown in [Table 5-1](#).

Fittings made from block forgings may only be supplied subject to agreement between the manufacturer and purchaser. Such fittings need not meet the requirements of [section 7](#).

**6 FITTING DIMENSIONS****6.1 General**

This Standard provides for a fixed position for the welding ends with reference to either the centerline of the fittings or the overall dimensions. Dimensional requirements for these fittings are in [Tables 6.1-1](#) through [6.1-11](#).

**6.2 Special Optional Dimensions**

**6.2.1 Fatigue Loading.** For applications where fatigue loading is a concern, required minimum dimensions shall be furnished by the purchaser.

**6.2.2 Bore Diameter.** Bore diameters away from the ends are not specified. If special flow path requirements are needed, the bore dimensions shall be specified by the purchaser.

**6.2.3 Stub Ends.** Service conditions and joint construction often dictate stub end length requirements. Therefore, the purchaser must specify long or short pattern fitting when ordering. [See General Note (b) in [Table 6.1-9](#).]

- (18) 6.2.4 Segmental Elbows.** Factory-made segments of short radius, long radius, and 3D radius elbows may be made to meet customer angle requirements. With the exception of the  $B$  dimension, factory-made segments of elbows shall meet all other requirements of this Standard. The  $B$  dimension for segmented elbows can be calculated as follows:

For segments of 90-deg elbows

$$B_s = A \times \tan(\theta/2)$$

where

$A$  = dimension  $A$  for appropriate 90-deg elbow being segmented from

- (a) [Table 6.1-1](#) for long radius elbow, mm (in.)
- (b) [Table 6.1-4](#) for short radius elbow, mm (in.)
- (c) [Table 6.1-6](#) for 3D radius elbow, mm (in.)

$B_s$  = center-to-end dimension for segmented elbow  
 $\theta$  = angle of segmented elbow — 30 deg, 60 deg, 75 deg, etc.

When **special** elbows are intended for field segmenting, the outside or inside diameter tolerance shall be furnished throughout the fitting by agreement between the manufacturer and the purchaser. Any mismatch on the outside or inside diameter needs to be corrected in the field by grinding, back-welding, or bridging of weld to meet the applicable piping code requirements. Although the elbow intended for field segmenting must meet the requirements of this Standard, once the field-segmented elbow is cut, it is not a B16.9 product.

**7 SURFACE CONTOURS**

Where adjacent openings in fittings are not in parallel planes, they shall be joined by a circular arc or radius on the external surfaces. The arc or radius may be terminated in tangents. Except as provided for block forgings (see [section 5](#)), the projected profile of external surfaces of fittings shall not have sharp intersections (corners) and/or collapsed arcs.

**8 END PREPARATION**

Unless otherwise specified, the details of the welding end preparation shall be in accordance with [Table 8-1](#). Transitions from the welding bevel to the outside surface of the fitting and from the root face to the inside surface of the fitting lying within the maximum envelope shown in [Figure 8-1](#) are at the manufacturer’s option, except as covered in Note (5) of [Figure 8-1](#) or unless otherwise specifically ordered.

**9 DESIGN PROOF TEST****(18)****9.1 Required Tests**

Proof tests shall be made as set forth in this Standard when the manufacturer chooses proof testing to qualify the fitting design. The pressure design thickness for critical areas of each type of fitting shall be determined and recorded. The design thickness for other sizes or wall thicknesses covered in [para. 9.4](#) shall require a similar percentage of reinforcement proportional by size or thickness. Critical areas are normally the inner radius of elbows, the crotch of tees and crosses, the knuckle radius of caps, and the large ends of reducers. Proof test shall be based on the computed burst pressure of the fitting and its connecting piping as defined in [para. 9.3](#).

**9.2 Test Assembly**

**9.2.1 Representative Components.** Each fitting type shall be tested, except that testing of certain types of fittings can qualify other fittings as described in [Table](#)

containment from the tested fitting before or during the time it is to be held at or above the computed pressure. A proof test is successful only when the fitting being tested withstands for at least 180 s a continuous proof test pressure of at least the computed minimum (see para. 9.3.2) without exhibiting loss of containment or evidence of cracking, fissuring, tearing, etc. in the fitting under test.

#### 9.4 Applicability of Test Results

It is not necessary to conduct an individual test of fittings with all combinations of sizes, wall thicknesses, and materials. A successful proof test on one representative fitting may qualify others to the extent described in paras. 9.4.1, 9.4.2, and 9.4.3.

**9.4.1 Size Range.** One test fitting may be used to qualify similarly proportioned fittings as defined in para. 9.2.1 with a size range from one-half to twice that for the tested fitting.

**9.4.2 Thickness Range.** One test fitting may be used to qualify similarly proportioned fittings as defined in para. 9.2.1 with  $t/D$  ranges from one-half to three times that for the tested fitting.

**9.4.3 Material Grades.** The pressure-retaining capacity of a fitting of the same basic design configuration and method of manufacture made from material in a material group as listed in Table 5-1 will be directly proportional to the tensile properties of the materials. Therefore, it is necessary to test only a representative fitting to prove the design of a fitting for all materials in a group.

#### 9.5 Maintenance of Results

The manufacturer shall have a quality control (QC) program that verifies the manufacturing process and material used and ensures that the resulting geometry and design thickness of the fittings or joints manufactured reasonably conform to the geometries tested. The QC program shall control the manufacturing drawings and maintain the QC records showing conformance to these drawings.

Tests made in accordance with and at the time of previous editions of this Standard are not intended to be nullified by the changes made in this edition's test procedure and requirements, provided the design conformity and criteria for the type tested can be determined and the test report, or an attachment, includes

- (a) the critical areas of design,
- (b) the material grade or material group,
- (c) the method of manufacture, and
- (d) the actual thickness of test part critical areas.

The pressure design thickness in critical areas shall be determined according to this edition of the standard.

Whenever a significant change is made in the geometry or method of manufacture, the manufacturer shall either retest the new production or show by analysis that the change would not affect the results of prior tests. Examples of changes in geometry that require retests are a change in starting thickness or revised tooling configuration.

#### 9.6 Proof Test Report

A report of the testing for each joint configuration shall be prepared and shall include

- (a) description of the test, including the material grade, the material group, the method of manufacture, and the number of tests and  $f$  factor used to establish the target proof test
- (b) instrumentation and methods of calibration used
- (c) material test reports for the assembly's materials (fitting, pipe, and end caps, if used)
- (d) actual final test pressures achieved for each test
- (e) length of time at or above the required test pressure (see para. 9.3.4)
- (f) calculations performed
- (g) location of rupture, if any, including a sketch or photographs of the assembly
- (h) pressure design thickness required in critical areas
- (i) certification by the manufacturer and by a licensed Authorized Inspector or other third party having experience in pressure component design and testing

### 10 PRODUCTION TESTS

Hydrostatic testing of wrought fittings is not required by this Standard. All fittings shall be capable of withstanding, without leakage or impairment of serviceability, a hydrostatic test pressure required by the applicable piping code for seamless pipe of material equivalent to the fitting material, and of the size and wall thickness the fitting marking identifies.

### 11 TOLERANCES

Tolerances for fittings are shown in Table 11-1 and apply to the nominal dimensions given in Tables 6.1-1 through 6.1-11. Where given in the tables, the minimum and maximum dimensions are based on these tolerances. The listings with decimals do not imply precision measurement, such as use of vernier, micrometer, or electronic readout equipment.

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

NSF/ANSI Standard for Plastics —

## Plastics Piping System Components and Related Materials

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### 9 Quality assurance

#### 9.9 Marking verification requirements

Unless otherwise specified by an applicable standard as referenced in Section 2 of this standard, verification of applicable product marking requirements shall be conducted according to Table 9.1.

**Table 9.1**  
**Marking verification frequency**

<b>Marking</b>	<b>Frequency</b>
performance standard	annually
manufacturer's name or trademark	annually
end use	annually
nominal size	annually
sizing system (SCH, DR, wall thickness, etc.)	annually
material designation	annually
pressure rating	annually
impact class	annually
pipng system information (compatible fitting standards, etc.)	annually
production information (manufacturing date, location, lot number, coding, mold, etc.)	annually
seal / mark of laboratory evaluating PW end use	annually
marking characteristics (font size, distance between product marking, color, etc.)	qualification
packaging label content	qualification

**Rationale:**

*The proposed language adds the verification frequency for packaging marking to Table 9.1, which is currently missing. It is proposed that this requirement be evaluated upon initial qualification and continue to be verified as part of the in-plant NSF/ANSI 14 audits. Several reference standards have requirements for packaging label content.*

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NSF/ANSI Standard  
for GMP for Cosmetics –

## Good Manufacturing Practices for Cosmetics

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### 4 Audit requirements

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#### 4.3 Planning

~~4.3.1 Current finished product samples as well as retained product samples are tested for Adequacy of preservation against microbial contamination under reasonable conditions of storage and use is supported by data.~~ [U.S. FDA Cosmetic GMP guidance]

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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**. Revision 2 changes are indicated by **yellow highlighting**. Rationale Statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI/CAN Standard  
for Drinking Water Additives –

## Drinking Water Treatment Chemicals – Health Effects

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### 1.3 Normative references

The following documents contain requirements, which by reference in this text, constitute requirements of this standard. At the time this standard was balloted, the editions listed below were valid. All documents are subject to revision, 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 CFR Part 58, *Good Laboratory Practice for Non-Clinical Laboratory Studies*<sup>4</sup>~~

~~40 CFR Part 160, *Good Laboratory Practice Standards*<sup>4</sup>~~

~~40 CFR Part 798, *Health Effects Testing Guidelines*<sup>4</sup>~~

40 CFR Part 141, *National Primary Drinking Water Regulations*<sup>4</sup>

APHA/AWWA/WEF, *Standard Methods for the Examination of Water and Wastewater*, **twenty-fourth** ~~twenty-second~~ edition<sup>5</sup>

AWWA B300-18, *Hypochlorites*<sup>6</sup>

ASTM E29-**2202**, *Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications*<sup>67</sup>

ASTM G22-76 (1996), *Standard Practice for Determining Resistance of Plastics to Bacteria*<sup>67</sup> ~~Error! Bookmark not defined.~~

<sup>4</sup> National Archives and Records Administration, Office of the Federal Register. 7 G Street NW, Suite A-734, Washington, DC 20401. <[www.ecfr.gov](http://www.ecfr.gov)>

<sup>5</sup> American Public Health Association, American Water Works Association, and Water Environment Federation. <[www.standardmethods.org](http://www.standardmethods.org)>

<sup>6</sup> American Water Works Association. 6666 W Quincy Avenue, Denver, CO 80235. <[www.awwa.org](http://www.awwa.org)>

<sup>67</sup> ASTM International. 100 Barr Harbor Drive, West Conshohocken, PA 19428-2859. <[www.astm.org](http://www.astm.org)>

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~~CGA, G-6.2-1994, Commodity Specification for Carbon Dioxide<sup>7</sup>~~

~~NSF/ANSI/CAN 600, Health Effects Evaluation and Criteria for Chemicals in Drinking Water~~

~~OECD, Guidelines for the Testing of Chemicals, May 1996<sup>2</sup>~~

~~U.S. EPA-600/4-79-020, Methods for the Chemical Analysis of Water and Wastes, March 1983<sup>3</sup>~~

~~U.S. EPA-600/4-80-032, Prescribed Procedures for Measurement of Radioactivity in Drinking Water<sup>38</sup>~~

~~U.S. FDA, Toxicological Principles for the Safety Assessment of Direct Food Additives and Color Additives in Food<sup>4</sup>~~

**Rationale: Removes normative references that are not mentioned within the body of the standard. Adds normative references that were not previously listed.**

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## 1.5 Significant figures and rounding

When determining conformance with the specifications in this standard, the Absolute Method in ASTM E29 *Standard Practice for Using Significant Digits in Test Data to Determine Conformance With Specifications* shall be used. When rounding data, the Rounding Procedure in Section ~~7.4~~ 6.4 of ASTM E29 shall be used.

**Rationale: Updates were made to ASTM E29, which altered the section numbers within the text. The proposed change updates the reference to the appropriate section for ASTM E29.**

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<sup>7</sup>~~Compressed Gas Association. 1725 Jefferson Davis Highway, Suite 1004, Arlington, VA 22202-4102. <[www.cganet.com](http://www.cganet.com)>~~

<sup>8</sup>~~Organization for Economic Cooperation and Development. 2 Rue Andre Pascal, 75775 Paris Cedex 16, France. <[www.oecd.org](http://www.oecd.org)>~~

<sup>98</sup>~~US Environmental Protection Agency. 1200 Pennsylvania Avenue NW, Washington, DC 20004. <[www.epa.gov](http://www.epa.gov)>~~

<sup>109</sup>~~US Department of Health and Human Services, Public Health Service, Food and Drug Administration. 10903 New Hampshire Ave, Silver Spring, MD 20993. <[www.fda.gov](http://www.fda.gov)>~~



## BSR/UL 979 Standard for Safety for Water Treatment Appliances

### Topic 1. Revisions based on latest version of UL 4200A.

#### PROPOSAL

##### 8A Button Batteries or Coin Cell Batteries

8A.1 The battery compartment of an appliance or any accessory, such as a wireless control, incorporating one or more button batteries or coin cell batteries of lithium technologies shall comply with UL 4200A, if the appliance or any accessory:

- a) Is intended for use with one or more single cell batteries having a diameter of 32 mm (1.25 inch) maximum with a diameter greater than its height; and
- b) The appliance is intended for household use.

Exception: UL 4200A is not applied to water treatment appliances that, by virtue of their dedicated purpose and instructions, are not intended to be used in locations where they may be accessed by children.

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**BSR/UL 66, Standard for Safety for Fixture Wire****1. Gasoline Resistance Rating, Revised Table 27.1****RATIONALE**

Proposal submitted by: Susan Stene, UL Solutions

The last row of Table 27.1 is intended to cover the requirements for wires that are rated both oil and gasoline resistant, as wires that are only oil resistant are located in the first rows of the table. This revision corrects the oversight.

**PROPOSAL**

**Table 27.1**  
**Markings for oil and gasoline resistance of Types TFN and TFFN**

Exposure to be indicated by the marking	Compliance is required with UL 1581 Table 50.155 and also with the UL 1581 tables indicated in this column	Marking required on the nylon jacket or on the surface of the insulation and legible through the nylon jacket <sup>a</sup>
Oil resistant at 75 °C (167 °F) <sup>b</sup>	Table 50.156 for both 60C and 75C ratings	"Oil resistant II" or "PRII"
Oil resistant at 60 °C (140 °F) <sup>b</sup>	Table 50.156	"Oil resistant I" or "PRI"
Gasoline resistant	Table 50.150	"Gasoline resistant"
Oil resistant at 75 °C (167 °F) and gasoline resistant <sup>c</sup>	Tables 50.156 for both 60C and 75C ratings and 50.150	"Gasoline and oil resistant II" or "GRII"
Oil resistant at 60 °C (140 °F) and gasoline resistant <sup>c</sup>	Tables 50.156 and 50.150	"Gasoline and oil resistant I" or "GRI"

<sup>a</sup> The specified marking shall be repeated at intervals no longer than 24 inches or 610 mm.

<sup>b</sup> Oil resistance of Types TFN and TFFN is described as resistance to mineral oil at temperatures up to and including the indicated 60 or 75 °C limit. The UL 1581 testing specified for establishing oil resistance at 60 °C covers resistance to machine-tool cutting oil coolants as well as resistance to mineral oil. Gasoline resistance is separate.

<sup>c</sup> Gasoline resistance of Types TFN and TFFN is described as resistance to gasoline vapors at temperatures up to and including the 90 °C limit for the wire. Gasoline resistance does not include resistance to immersion in or wetting by gasoline at any temperature. Gasoline resistance does not include resistance to any solvent. Oil resistance is separate.

## **BSR/UL 231, Standard for Safety for Power Outlets**

### **1. Weather-Resistant Receptacles in Power Outlets**

#### **PROPOSAL**

8.2.11 All 15- and 20-ampere, 125- and 250-volt nonlocking receptacles, including receptacles with integral Class A ground-fault circuit protection for personnel, of the following configurations shall be rated as "weather-resistant" type in accordance with the Standard for Attachment Plugs and Receptacles, UL 498:

- a) 5-15R, 6-15R, 5-20R, and 6-20R (15- and 20-ampere, 125 and 250 volt);
- b) 6-30R, TT-30R, 14-30R (30-ampere, 125 and 250 volt); and
- c) 14-50R (50-ampere, 125/250 volt)

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