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Project Initiation Notification System (PINS)

ANSI Procedures require notification of ANSI by ANSI-accredited standards developers (ASD) of the initiation and scope of activities expected to result in new or revised American National Standards (ANS). Early notification of activity intended to reaffirm or withdraw an ANS and in some instances a PINS related to a national adoption is optional. The mechanism by which such notification is given is referred to as the PINS process. For additional information, see clause 2.4 of the ANSI Essential Requirements: Due Process Requirements for American National Standards.

Following is a list of proposed actions and new ANS that have been received recently from ASDs. Please also review the section in Standards Action entitled "American National Standards Maintained Under Continuous Maintenance" for additional or comparable information with regard to standards maintained under the continuous maintenance option. 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 affected interests wishing to receive more information or to submit comments are requested to contact the standards developer directly within 30 days of the publication of this announcement.

ADA (American Dental Association)

211 East Chicago Avenue | Chicago, IL 60611-2678 www.ada.org

Contact: Paul Bralower; bralowerp@ada.org

Revision

BSR/ADA Standard No. 2000.6-202x, SNODENT (Systemized Nomenclature of Dentistry) (revision and redesignation of ANSI/ADA Standard No. 2000.5-2021)

Stakeholders: Dental care providers, healthcare and research organizations, government agencies, dental schools and clinics, and dental benefit providers and organizations.

Project Need: SNODENT provides a needed standardized code set for the representation of clinical oral health descriptions captured by dentists that is interoperable across healthcare systems and with electronic health record systems

Scope: SNODENT is a clinical terminology designed for use with electronic health records that enables the capture and analysis of detailed oral health data, including oral anatomical sites, oral health conditions, findings, and other clinical concepts unique to dentistry.

ALI (Automotive Lift Institute)

PO Box 85, 3699 Luker Road | Cortland, NY 13045 www.autolift.org

Contact: Bob O'Gorman; info@autolift.org

Revision

BSR/ALI ALCTV-202x, Automotive Lifts - Safety Requirements for Construction, Testing, and Validation (revision of ANSI/ALI ALCTV-2017)

Stakeholders: All automotive service and parking lift manufacturers.

Project Need: Revision of an existing ANS as required by the five-year rule.

Scope: This standard covers safety requirements for the design, construction, testing, and validation of automotive lifts used for vehicle service and parking.

ASME (American Society of Mechanical Engineers)

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

Contact: Maria Acevedo; ansibox@asme.org

Revision

BSR/ASME A13.1-202x, Scheme for the Identification of Piping Systems (revision of ANSI/ASME A13.1-2020)

Stakeholders: Piping systems' manufacturers, installers, maintainers, suppliers, purchasers, owners of equipment, labor union, enforcing authorities, specialists, insurance, inspectors, and general interests.

Project Need: Updates to this document are required to incorporate proposed revisions (A13.1 Scope and the A13 Standards Committee's Charter).

Scope: ASME A13.1 establishes a common system to assist in identification of hazardous materials conveyed in piping systems and their hazards when released in the environment.

ASME (American Society of Mechanical Engineers)

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

Contact: Maria Acevedo; ansibox@asme.org

Revision

BSR/ASME PCC-3-202x, Inspection Planning Using Risk-Based Methods (revision of ANSI/ASME PCC-3-2017)

Stakeholders: Users, manufacturers, distributors, consultants, government.

Project Need: This standard provides updates to 2017 edition of the guidelines for Inspection Planning Using Risk-Based Methods.

Scope: The risk analysis principles, guidance, and implementation strategies presented in this Standard are broadly applicable; however, this Standard has been specifically developed for applications involving fixed pressure-containing equipment and components. It provides guidance to owners, operators, and designers of pressure-containing equipment for developing and implementing an inspection program. These guidelines include means for assessing an inspection program and its plan.

ESTA (Entertainment Services and Technology Association)

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

Contact: Karl Ruling; standards@esta.org

Revision

BSR/E1.28-202x, Guidance on planning followspot positions in places of public assembly (revision of ANSI E1.28-2011 (R2021))

Stakeholders: Theatre consultants, architects, followspot operators, followspot equipment manufacturers, and assembly venue owners.

Project Need: Questions have arisen about what glass should be specified for personnel safety and to avoid coloring or dimming the light beam.

Scope: E1.28 offers guidance on the planning of permanent followspot positions in places of public assembly. The guidance includes recommendations on the locations of the followspot positions within the venue, the power likely to be needed, the waste heat generated, the amount of space likely to be needed, and the fall protection and egress issues to be considered for the followspot operator's safety. The existing standard is being revised to add guidance on window coverings (e.g., glass) for enclosed followspot positions.

IAPMO (Z) (International Association of Plumbing & Mechanical Officials)18927 Hickory Creek Drive, Suite 220 | Mokena, IL 60448 <https://www.iapmostandards.org>Contact: Terry Burger; terry.burger@asse-plumbing.org; standards@iapmostandards.org**Revision**

BSR/ASSE 1053-202x, Performance Requirements for Dual Check Backflow Preventer Wall Hydrants - Freeze Resistant Type (revision of ANSI/ASSE 1053-2019)

Stakeholders: Manufacturers, users, inspectors, distributors, designers, and contractors.

Project Need: Needed for testing and certification purposes.

Scope: This standard establishes design and performance requirements and test procedures for Freeze-Resistant Dual Check Backflow Preventer Wall Hydrants (referred to as the “device” in this standard). The purpose of these devices is to provide protection of the potable water supply from contamination due to backsiphonage or backpressure without damage to the device due to freezing, and is field-testable to verify protection under the high hazard conditions present at a threaded hose outlet. These devices shall consist of two independent checks, force-loaded or biased to a closed position, with an atmospheric vent located between the two check valves, which is force-loaded or biased to an open position, and a means for attaching a hose. A field testability requirement shall verify the integrity of the outlet check valve and the opening of the atmospheric vent. The devices shall be classified as follows: (a) Type A devices automatically drain the water when the hydrant valve is closed and the hose removed to prevent damage from freezing; (b) Type B devices automatically drain the water with a hose removed or attached, end nozzle closed, and the hydrant valve closed.

IAPMO (Z) (International Association of Plumbing & Mechanical Officials)18927 Hickory Creek Drive, Suite 220 | Mokena, IL 60448 <https://www.iapmostandards.org>Contact: Terry Burger; terry.burger@asse-plumbing.org; standards@iapmostandards.org**New Standard**

BSR/ASSE 1378-202x, Listing Evaluation Criteria for Point of Entry Anion Exchange - Nitrate Reduction (new standard)

Stakeholders: Manufacturers, users, inspectors, distributors, designers, and contractors.

Project Need: Regulatory limit (MCL) for Nitrate of 10 mg/L (as N) was set by US EPA mainly to protect against infant Methemoglobinemia. Since 2005, there have been more than 30 epidemiological studies on effect of nitrate in drinking water. These studies are now showing other health effects such as colorectal, bladder and breast cancer with ingestion of nitrate below the regulatory level. The main source of nitrate contamination found in drinking water comes from inorganic fertilizers and animal and septic tank waste. Water supplies that are most vulnerable to the nitrate contamination are typically found in agricultural areas in private and public wells. A 2006 United States Geological Survey (USGS) study suggests that more than 1 million private wells are located in areas with ground water, that risk being above the MCL. ASSE International published an industry standard to verify the ability of an automatic Regenerable Anion Exchange System to reduce Nitrate. That standard uses 30 mg/L Nitrate-N in the influent and requires the reduction to below 10 mg/L Nitrate-N. The standard also test for other performance requirements such as structural Integrity, flow rate, pressure loss, service flow etc. There is a need to develop a consensus standard based or ASSE LEC 2008 to allow all stake holders to have a voice in the development of an ANS standard which validate claims and minimum safety and performance requirements for Nitrate reduction systems

Scope: The water treatment systems covered in this standard are intended to be used in residential and commercial applications to reduce nitrate from drinking water. The devices shall be Point of Entry (POE) self-regeneration anion exchange systems. The systems shall use anion exchange media that prevents nitrate dumping.

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

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

Contact: Deborah Spittle; comments@standards.incits.org

National Adoption

INCITS/ISO/IEC 19075-1:2021 [202x], Information technology - Guidance for the use of database language SQL - Part 1: XQuery regular expressions (identical national adoption of ISO/IEC 9075-1:2021)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Scope: Describes the regular expression support in SQL (ISO/IEC 9075-2) adopted from the regular expression syntax of XQuery and XPath Functions and Operators 3.1, which is derived from Perl.

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

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

Contact: Deborah Spittle; comments@standards.incits.org

National Adoption

INCITS/ISO/IEC 19075-2:2021 [202x], Information technology - Guidance for the use of database language SQL - Part 2: Time-related information (identical national adoption of ISO/IEC 19075-2:2021)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Scope: Describes the support in SQL for time-related information. This document discusses the following features of the SQL language:

- Time-related data type;
- Operations on time-related data;
- Time-related predicates;
- Application-time period tables;
- System-versioned tables; and
- Bi-temporal tables.

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

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

Contact: Deborah Spittle; comments@standards.incits.org

National Adoption

INCITS/ISO/IEC 19075-3:2021 [202x], Information technology - Guidance for the use of database language SQL - Part 3: SQL embedded in programs using the Java™ programming language (identical national adoption of ISO/IEC 19075-3:2021)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Scope: This document describes the support for the use of SQL within programs written in Java. This document discusses the following features of the SQL language:

- The embedding of SQL expressions and statements in programs written in the Java programming language.

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

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

Contact: Deborah Spittle; comments@standards.incits.org

National Adoption

INCITS/ISO/IEC 19075-4:2021 [202x], Information technology - Guidance for the use of database language SQL - Part 4: Routines and types using the Java™ programming language (identical national adoption of ISO/IEC 19075-4:2021)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Scope: This document provides a tutorial of SQL routines and types using the Java™ programming language. This document discusses the following features of the SQL Language:

- The use of routines written in the Java programming language within SQL expressions and statements;
- The use of user-defined types written in the Java programming language within SQL expressions and statements.

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

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

Contact: Deborah Spittle; comments@standards.incits.org

National Adoption

INCITS/ISO/IEC 19075-5:2021 [202x], Information technology - Guidance for the use of database language SQL - Part 5: Row pattern recognition (identical national adoption of ISO/IEC 19075-5:2021)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Scope: Discusses the syntax and semantics for recognizing patterns in rows of a table, as defined in ISO/IEC 9075-2, commonly called “SQL/RPR”. SQL/RPR defines two features regarding row pattern recognition:

- Feature R010, “Row pattern recognition: FROM clause”, and
- Feature R020, “Row pattern recognition: WINDOW clause”.

These two features have considerable syntax and semantics in common, the principle difference being whether the syntax is placed in the FROM clause or in the WINDOW clause.

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

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

Contact: Deborah Spittle; comments@standards.incits.org

National Adoption

INCITS/ISO/IEC 19075-6:2021 [202x], Information technology - Guidance for the use of database language SQL - Part 6: Support for JSON (identical national adoption of ISO/IEC 19075-6:2021)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Scope: Describes the support in SQL for JavaScript Object Notation. This document discusses the following features of the SQL language:

- Storing JSON data;
- Publishing JSON data;
- Querying JSON data; and
- SQL/JSON data model and path language.

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

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

Contact: Deborah Spittle; comments@standards.incits.org

National Adoption

INCITS/ISO/IEC 19075-7:2021 [202x], Information technology - Guidance for the use of database language SQL - Part 7: Polymorphic table functions (identical national adoption of ISO/IEC 19075-7:2021)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Scope: This document describes the definition and use of polymorphic table functions in SQL. The Report discusses the following features of the SQL Language:

- The processing model of polymorphic table functions in the context of SQL;
- The creation and maintenance of polymorphic table functions;
- Issues related to methods of implementing polymorphic table functions;
- How polymorphic table functions are invoked by application programs; and
- Issues concerning compilation, optimization, and execution of polymorphic table functions.

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

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

Contact: Deborah Spittle; comments@standards.incits.org

National Adoption

INCITS/ISO/IEC 19075-8:2021 [202x], Information technology - Guidance for the use of database language SQL - Part 8: Multidimensional arrays (identical national adoption of ISO/IEC 19075-8:2021)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Scope: Describes the definition and use of multidimensional arrays in SQL. Multidimensional arrays represent a core underlying structure of manifold science and engineering data. It is generally recognized today, therefore, that arrays have an essential role in Big Data and should become an integral part of the overall data-type orchestration in information systems. This document discusses the syntax and semantics of operations on the MD-array data type defined in ISO/IEC 9075-15.

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

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

Contact: Deborah Spittle; comments@standards.incits.org

National Adoption

INCITS/ISO/IEC 21838-1:2021 [202x], Information technology - Top-level ontologies (TLO) - Part 1: Requirements (identical national adoption of ISO/IEC 21838-1:2021)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Scope: Specifies required characteristics of a domain-neutral top-level ontology (TLO) that can be used in tandem with domain ontologies at lower levels to support data exchange, retrieval, discovery, integration, and analysis.

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

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

Contact: Deborah Spittle; comments@standards.incits.org

National Adoption

INCITS/ISO/IEC 21838-2:2021 [202x], Information technology - Top-level ontologies (TLO) - Part 2: Basic Formal Ontology (BFO) (identical national adoption of ISO/IEC 21838-2:2021)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Scope: Describes Basic Formal Ontology (BFO), which is an ontology that is conformant to the requirements specified for top-level ontologies in ISO/IEC 21838-1.

TCNA (ASC A108) (Tile Council of North America)

100 Clemson Research Blvd. | Anderson, SC 29625 www.tcnatile.com

Contact: Katelyn Simpson; KSimpson@tileusa.com

Revision

BSR A108.1B-202x, Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set or Latex-Portland Cement Mortar (revision of ANSI A108.1B-2017)

Stakeholders: Ceramic tile installers, contractors, and builders (labor interest category); related material manufacturers (manufacturing interest category); distributors, retailers, and consumers (user interest category); and affiliated industries and other general interest users of this standard (general interest category).

Project Need: Stakeholders on the committee have proposed revisions to the standard.

Scope: This standard covers the installation of ceramic tile on a cured portland cement mortar setting bed with dry-set or latex-portland cement mortar.

TCNA (ASC A108) (Tile Council of North America)

100 Clemson Research Blvd. | Anderson, SC 29625 www.tcnatile.com

Contact: Katelyn Simpson; KSimpson@tileusa.com

Revision

BSR A108.1C-202x, Contractors Option: Installation of Ceramic Tile in the Wet-Set Method with Portland Cement Mortar or Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set or Latex-Portland Cement Mortar (revision of ANSI A108.1C-1999 (R2021))

Stakeholders: Ceramic tile installers, contractors, and builders (labor interest category); related material manufacturers (manufacturing interest category); distributors, retailers, and consumers (user interest category); and affiliated industries and other general-interest users of this standard (general interest category).

Project Need: Stakeholders on the committee have proposed revisions to the standard.

Scope: This standard covers the contractor's option for installation of ceramic tile in the wet-set method with portland cement mortar or on a cured portland cement mortar setting bed with dry-set or latex-portland cement mortar.

WMA (World Millwork Alliance)

10047 Robert Trent Jones Parkway | New Port Richey, FL 34655 <http://worldmillworkalliance.com>

Contact: Jessica Ferris; jferris@worldmillworkalliance.com

Revision

BSR/WMA 100-202x, Standard Method for Determining Structural Performance Ratings of Side-Hinged Exterior Door Systems and Procedures for Component Substitution (revision of ANSI/WMA 100-2018)

Stakeholders: The side-hinged exterior door Industry, which includes component manufacturers, door pre-hangers, distributors, home builders, regulators, industry-related associations, and testing and certification agencies.

Project Need: The standard is under periodic maintenance pursuant to ANSI's Essential Requirements for standards and, as such, is required to be reaffirmed or revised at least every 5 years. Proposed revisions for the standard are being considered by WMA at this time.

Scope: The WMA 100 uses the ASTM E330 test method to obtain a full system design pressure rating for side-hinged exterior door systems (SHEDS). The standard also defines methods for qualifying door system components for substitution in the rated system, such as door frames, hinges, locking systems, door slabs, door glass assemblies, sidelights, transoms, mullions, astragals, and thresholds. The standard sets forth door slab stiffness testing procedures in order to measure slab deflection under load so that criteria for substitution of an alternate component within a tested and rated door system can be established.

Call for Comment on Standards Proposals

American National Standards

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

Ordering Instructions for "Call-for-Comment" Listings

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

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

* Standard for consumer products

Comment Deadline: March 6, 2022

AWI (Architectural Woodwork Institute)

46179 Westlake Drive, Suite 120, Potomac Falls, VA 20165-5874 | cdermyre@awinet.org, www.awinet.org

New Standard

BSR/AWI 1232-202x, Manufactured Wood Casework (new standard)

Provides standards and tolerances for the quality and fit of manufactured wood casework and related interior finishes. Establishing minimum aesthetic and performance requirements intended to provide a well-defined degree of control over a project's quality of materials and workmanship.

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

Send comments (copy psa@ansi.org) to: <http://gotoawi.com/standards/awi1232.html>

AWI (Architectural Woodwork Institute)

46179 Westlake Drive, Suite 120, Potomac Falls, VA 20165-5874 | cdermyre@awinet.org, www.awinet.org

New Standard

BSR/AWI 1236-202x, Countertops (new standard)

Provide aesthetic and performance standards for various countertop materials including but not limited to plastic-laminate clad (decorative laminate/HPDL), solid surface, epoxy resin, natural and engineered stone, solid and veneered wood, and solid phenolic.

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

Send comments (copy psa@ansi.org) to: <http://gotoawi.com/standards/awi1236.html>

Comment Deadline: March 6, 2022

B11 (B11 Standards, Inc.)

P.O. Box 690905, Houston, TX 77269 | cfelinski@b11standards.org, <https://www.b11standards.org/>

Revision

BSR/B11.3-202x, Safety Requirements for Power Press Brakes (revision of ANSI B11.3-2012 (R2020))

The requirements of this standard apply to those machines classified as power press brakes (referred to simply as “press brakes” in this standard), which are designed and constructed for the specific purpose of bending material.

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

Send comments (copy psa@ansi.org) to: Chris Felinski; cfelinski@b11standards.org

NSF (NSF International)

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

Revision

BSR/NSF 49-202x (i116r2), Biosafety Cabinetry: Design, Construction, Performance and Field Certification (revision of ANSI/NSF 49-2020)

This Standard applies to Class II (laminar flow) biosafety cabinetry designed to minimize hazards inherent in work with agents assigned to biosafety levels 1, 2, 3, or 4. It also defines the tests that shall be passed by such cabinetry to meet this Standard. This Standard includes basic requirements for the design, construction, and performance of biosafety cabinets (BSCs) that are intended to provide personnel, product, and environmental protection; reliable operation; durability and structural stability; cleanability; limitations on noise level; illumination; vibration; and motor/blower performance.

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

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

NSF (NSF International)

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

Revision

BSR/NSF/CAN 50-202x (i162r4), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2020)

This Standard covers materials, chemicals, components, products, equipment and systems, related to public and residential recreational water facility operation.

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

Send comments (copy psa@ansi.org) to: Jason Snider; jsnider@nsf.org

NSF (NSF International)

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

Revision

BSR/NSF/CAN 50-202x (i183r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2020)

This Standard covers materials, chemicals, components, products, equipment and systems, related to public and residential recreational water facility operation.

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

Send comments (copy psa@ansi.org) to: Jason Snider; jsnider@nsf.org

Comment Deadline: March 6, 2022

UL (Underwriters Laboratories)

171 Nepean Street, Suite 400, Ottawa, ON K2P 0B4 Canada | sabrina.khrebtev@ul.org, <https://ul.org/>

Revision

BSR/UL 13-202X, Standard for Safety for Power-Limited Circuit Cables (revision of ANSI/UL 13-2020)

(1) Revision of UL 13 Standard to include copper-clad aluminum as a conductor option in class 2 circuit, thermostat cable for 18 AWG HVAC applications - recirculation.

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

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

UL (Underwriters Laboratories)

47173 Benicia Street, Fremont, CA 94538 | Derrick.L.Martin@ul.org, <https://ul.org/>

Revision

BSR/UL 94-202X, Standard for Safety for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances (revision of ANSI/UL 94-2021)

This project involves the clarification of the Plate Specimen dimension in Paragraph 9.3.2.

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

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

UL (Underwriters Laboratories)

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

Revision

BSR/UL 312-202x, Standard for Check Valves for Fire-Protection Service (February 4, 2022) (revision of ANSI/UL 312-2018)

This proposal covers: (1) SCC approval of Standard for Check Valves for Fire-Protection Service.

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

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

UL (Underwriters Laboratories)

333 Pfingsten Road, Northbrook, IL 60062-2096 | mitchell.gold@ul.org, <https://ul.org/>

Revision

BSR/UL 962A-202x, Standard for Safety for Furniture Power Distribution Units (revision of ANSI/UL 962A-2020)

Recirculation of the following topics from the July 23, 2021 ballot: (1) Standardize spill test procedure in UL 962A to align with UL 962; (5) Clarification of the allowance of star and branch configurations; (9) Clarification of FPDU length; (10) Clarification of subordinate supplementary overcurrent protection; and (12) Detachable power supply cord.

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

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

Comment Deadline: March 6, 2022

UL (Underwriters Laboratories)

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

Revision

BSR/UL 1090-202x, Standard for Safety for Electric Snow Movers (revision of ANSI/UL 1090-2020)

Revise cold testing to be harmonized with ISO 8437 and ANSI B71.3.

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

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

UL (Underwriters Laboratories)

47173 Benicia Street, Fremont, CA 94538 | Paul.E.Lloret@ul.org, <https://ul.org/>

Revision

BSR/UL 2034-202x, Standard for Safety for Single and Multiple Station Carbon Monoxide Alarms (revision of ANSI/UL 2034-2018)

Proposed new requirements for a One-Year Sensor Stability Test for CO sensors.

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

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

Comment Deadline: March 21, 2022

AAFS (American Academy of Forensic Sciences)

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

New Standard

BSR/ASB Std 132-202x, Standard for Population Affinity Estimation in Forensic Anthropology (new standard)

This standard provides procedures for the estimation of population affinity from skeletal material. Specific methods and techniques are not included. This standard is not applicable to subadult skeletal remains, when cranial and postcranial features are not fully developed.

Single copy price: Free

Obtain an electronic copy from: This is a public comment period for a recirculation. Updated document, redline version, and comments can be viewed on the AAFS Standards Board website at: <http://www.asbstandardsboard.org/notice-of-standard-development-and-coordination/>.

Order from: Document will be provided electronically on AAFS Standards Board website www.asbstandardsboard.org free of charge.

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

Comment Deadline: March 21, 2022

AARST (American Association of Radon Scientists and Technologists)

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

Revision

BSR/AARST RMS-LB-202x, Radon Mitigation Standards for Schools and Large Buildings (revision of ANSI/AARST RMS-LB-2020)

This standard of practice specifies minimum requirements for methods that mitigate risks to occupants posed by radon gas, chemical vapors, or other hazardous soil gases that are present within existing schools and large buildings. This collection of proposed revisions are the result of harmonization efforts and public review for AARST SGM-SF, AARST RMS-MF, and AARST RMS-LB.

Single copy price: \$TBD

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

Order from: Gary Hodgden; StandardsAssist@gmail.com

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

AARST (American Association of Radon Scientists and Technologists)

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

Revision

BSR/AARST RMS-MF-202x, Radon Mitigation Standards for Multifamily Buildings (revision of ANSI/AARST RMS-MF-2020)

This standard of practice specifies minimum requirements for methods that mitigate risks to occupants posed by radon gas, chemical vapors, or other hazardous soil gases that are present within existing homes. This collection of proposed revisions are the result of harmonization efforts and public review for AARST SGM-SF, AARST RMS-MF, and AARST RMS-LB.

Single copy price: \$TBD

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

Order from: Gary Hodgden; StandardsAssist@gmail.com

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

AARST (American Association of Radon Scientists and Technologists)

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

Revision

BSR/AARST SGM-SF-202x, Soil Gas Mitigation Standards for Existing Homes (revision of ANSI/AARST SGM-SF-2020)

This standard of practice specifies minimum requirements for methods that mitigate risks to occupants posed by radon gas, chemical vapors, or other hazardous soil gases that are present within existing homes. This collection of proposed revisions are the result of harmonization efforts and public review for ANSI/AARST SGM-SF, ANSI/AARST RMS-MF, and ANSI/AARST RMS-LB.

Single copy price: \$TBD

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

Order from: Gary Hodgden; StandardsAssist@gmail.com

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

Comment Deadline: March 21, 2022

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201-3001 | kbest@ahrinet.org, www.ahrinet.org

New Standard

BSR/AHRI Standard 1520-202x (SI/I-P), Performance Rating of Centrifugal Refrigerant Compressors (new standard)

The purpose of this standard is to establish for centrifugal compressors: definitions, test requirements, rating requirements, minimum data requirements for Published Ratings, operating requirements, marking and nameplate data, and conformance conditions. The standard defines the minimum amount of information, in a standard form to enable the evaluation and comparison of different centrifugal compressors for use in an application.

Single copy price: Free

Obtain an electronic copy from: <https://ahrinet.org/standards/how-to-participate>

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

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

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

Addenda

BSR/ASHRAE/IES Addendum c to BSR/ASHRAE/IES Standard 90.2-202x, Energy Efficient Design of Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.2-2018)

This addendum is based on the new TPS (Title, Purpose, and Scope) for Standard 90.2, which is being revised to accommodate the committee's goals to create a leadership standard for the benefit of jurisdictions, energy efficiency programs, and other organizations wishing to make advancements in residential energy performance. The new TPS would enable Standard 90.2 to cover high-rise residential buildings as well as retrofitted structures. It would also allow for future expansion of the standard to create provisions based on reductions in emissions where the current standard is strictly energy-based.

Single copy price: \$35.00

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

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

ASTM (ASTM International)

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

New Standard

BSR/ASTM WK56743-202x, Practice for Training in the Forensic Examination of Hair by Microscopy (new standard)

<https://www.astm.org/ansi-review>

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: Corice Leonard; accreditation@astm.org

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

Comment Deadline: March 21, 2022

ASTM (ASTM International)

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

New Standard

BSR/ASTM WK58457-202x, Practice for Training in the Forensic Examination of Primer Gunshot Residue (pGSR) Using Scanning Electron Microscopy/Energy Dispersive X-Ray Spectrometry (SEM/EDS) (new standard)

<https://www.astm.org/ansi-review>

Single copy price: Free

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Order from: Corice Leonard; accreditation@astm.org

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

ASTM (ASTM International)

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

New Standard

BSR/ASTM WK70035-202x, Practice for Use of Color in the Visual Examination and Forensic Comparison of Soil Samples (new standard)

<https://www.astm.org/ansi-review>

Single copy price: Free

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ASTM (ASTM International)

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

New Standard

BSR/ASTM WK72837-202x, Guide for Forensic Analysis of Geological Materials by Powder X-Ray Diffraction (new standard)

<https://www.astm.org/ansi-review>

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

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ASTM (ASTM International)

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

New Standard

BSR/ASTM WK72856-202x, Practice for the Collection and Preservation of Organic Gunshot Residue (new standard)

<https://www.astm.org/ansi-review>

Single copy price: Free

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ASTM (ASTM International)

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

Reaffirmation

BSR/ASTM D4068-2017 (R202x), Specification for Chlorinated Polyethylene (CPE) Sheeting for Concealed Water-Containment Membrane (reaffirmation of ANSI/ASTM D4068-2017)

<https://www.astm.org/ansi-review>

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ASTM (ASTM International)

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

Revision

BSR/ASTM E1732-202x, Terminology Relating to Forensic Science (revision of ANSI/ASTM E1732-2019)

<https://www.astm.org/ansi-review>

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ASTM (ASTM International)

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

Revision

BSR/ASTM E2549-202x, Practice for Validation of Seized-Drug Analytical Methods (revision of ANSI/ASTM E2549-2014)

<https://www.astm.org/ansi-review>

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

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

CSA (CSA America Standards Inc.)

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

National Adoption

BSR/CSA/ISO Z23551-4-202x, Safety and control devices for gas burners and gas-burning appliances - Particular requirements - Part 4: Valve-proving systems for automatic shut-off valves (national adoption with modifications of ISO 23551-4:2018)

This document specifies safety, constructional, and performance requirements of valve-proving systems (VPS), intended for use with gas burners and gas-burning appliances. It also describes the test procedures for checking compliance with these requirements and provides information necessary for the purchaser and user.

Single copy price: Free

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

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

Comment Deadline: March 21, 2022

CSA (CSA America Standards Inc.)

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

Reaffirmation

BSR Z21.93-2017 (R202x), Excess flow valves for natural gas and propane gas with pressures up to 5 psig (same as CSA 6.30) (reaffirmation of ANSI Z21.93-2017)

This standard applies to excess flow valves constructed entirely of new unused parts and materials intended for use after the service meter or the second-stage regulator, referred to as valves in this standard, not to exceed 2 in (50 DN) nominal pipe size.

Single copy price: Free

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

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

CSA (CSA America Standards Inc.)

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

Revision

BSR Z21.13-202x, Gas-fired low pressure steam and hot water boilers (same as CSA 4.9) (revision of ANSI Z21.13-2017)

This Standard applies to newly produced gas-fired low-pressure steam and hot-water boilers with gas inlet pressure ratings not exceeding 0.5 psi (3.5 kPa) and having input ratings of less than 12,500,000 Btu/hr (3 663 389 W), constructed entirely of new unused parts and materials.

Single copy price: Free

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

Order from: Debbie Chesnik; ansi.contact@csagroup.org

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

Comment Deadline: March 21, 2022

CSA (CSA America Standards Inc.)

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

Revision

BSR/CSA Z21.20/CSA C22.2 No. 60730-2-5/UL 60730-2-5-202x, Automatic electrical controls - Part 2-5: Particular requirements for automatic electrical burner control systems (revision and redesignation of ANSI Z21.20-2014/CAN/CSA C22.2 No. 60730-2-5-2014/UL 60730-2-5-2014)

Part 2-5 is intended to be used in conjunction with UL 60730-1, edition 5 or CAN/CSA-E60730-1, edition 5.

Requirements of this Part 2 Standard supplement or modify the requirements of UL 60730-1 and CAN/CSA-E60730-1. Where a particular subclause of UL 60730-1 and CAN/CSA-E60730-1 is not mentioned in this Part 2 Standard, that subclause applies as far as reasonable. This part of IEC 60730 applies to automatic electrical burner control systems for the automatic control of burners for oil, gas, coal, or other combustibles intended to be used for household and similar use in shops, offices, hospitals, farms and commercial and industrial applications. This International Standard is applicable:

- to a complete burner control system;
- to a separate programming unit;
- to a separate electronic high-voltage ignition source;
- to a separate flame detector;
- to a separate high-temperature operation (HTO) detector; and
- to a burner control system intended to be used in warm-air heating appliances (furnaces) where the appliance is equipped with an electromechanical differential pressure control to monitor the difference of the combustion air pressure (Type 2.AL). This pressure control provides a switch as an alternative to one of the two switching elements to directly de-energize the safety-relevant terminals.

Single copy price: Free

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

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

ESTA (Entertainment Services and Technology Association)

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

New Standard

BSR ES1.18-202x, Event Safety - Rigging (new standard)

This document addresses the roles, responsibilities, and risk considerations of special event rigging processes. It does not attempt to address rigging system hardware component requirements or compatibility.

Single copy price: Free

Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php

Order from: Richard Nix; standards@esta.org

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

Comment Deadline: March 21, 2022

ESTA (Entertainment Services and Technology Association)

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

Reaffirmation

BSR E1.26-2006 (R202x), Entertainment Technology - Recommended Testing Methods and Values for Shock Absorption of Floors Used in Live Performance Venues (reaffirmation of ANSI E1.26-2006 (R2017))

This document sets out the energy absorption requirements for floors in venues used for live performances, and the methods for testing them. This document is to be used in conjunction with all applicable local building codes and requirements.

Single copy price: Free

Obtain an electronic copy from: http://tsp.esta.org/tsp/documents/public_review_docs.php

Order from: Karl Ruling; standards@esta.org

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

ESTA (Entertainment Services and Technology Association)

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

Reaffirmation

BSR E1.36-2007 (R202x), Model Procedure for Permitting the Use of Tungsten-Halogen Incandescent Lamps and Stage and Studio Luminaires in Vendor Exhibit Booths in Convention and Trade Show Exhibition Halls (reaffirmation of ANSI E1.36-2007 (R2012))

E1.36 is a model set of procedures that can be used by convention center and trade-show exhibition hall staff to mitigate the risks perceived to be associated with the use of tungsten-halogen lamps and stage and studio luminaires. The standard gives guidance to allow T-H lamps and luminaires to be used in a safe manner in convention centers and trade-show exhibition halls.

Single copy price: Free

Obtain an electronic copy from: http://tsp.esta.org/tsp/documents/public_review_docs.php

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ESTA (Entertainment Services and Technology Association)

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

Revision

BSR/E1.6-4-202x, Design, Inspection, and Maintenance of Portable Fixed-Speed Electric Chain Hoist Control Systems in the Entertainment Industry (revision and partition of ANSI E1.6-4-2013)

This document partitions ANSI E1.6-4 into two separate but related standards, because some functions of the standard are deemed to require different or higher levels of expertise than other functions of the standard. This part addresses design, inspection, and maintenance aspects, which focus more on the roles and responsibilities of the equipment designer and manufacturer.

Single copy price: Free

Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php

Order from: Richard Nix; standards@esta.org

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Comment Deadline: March 21, 2022

ESTA (Entertainment Services and Technology Association)

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

Revision

BSR E1.4-1-202x, Manual Counterweight Rigging Systems (revision of ANSI E1.4-1-2016)

This document addresses the requirements for manually operated counterweight rigging systems used in the entertainment industry. The previous version is being revised to maintain consistency with current technology and industry-recommended practices.

Single copy price: Free

Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php

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ESTA (Entertainment Services and Technology Association)

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

Revision

BSR E1.6-5-202x, Selection and Use of Control Systems for Electric Chain Hoists in the Entertainment Industry (revision and partition of ANSI E1.6-4-2013)

This document partitions ANSI E1.6-4 into two separate but related standards, because some functions of the standard are deemed to require higher levels of expertise than other Function. This part addresses selection and use, which pertain more to the user's responsibilities.

Single copy price: Free

Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php

Order from: Richard Nix; standards@esta.org

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

FCI (Fluid Controls Institute)

1300 Sumner Avenue, Cleveland, OH 44115 | fci@fluidcontrolsinstitute.org, www.fluidcontrolsinstitute.org

Revision

BSR/FCI 87-1-202x, Classification and Operating Principles of Steam Traps (revision of ANSI/FCI 87-1-2017)

This standard is for the purpose of establishing and illustrating various classifications of Steam Traps in accordance with their basic principles of operation.

Single copy price: Free

Obtain an electronic copy from: fci@fluidcontrolsinstitute.org

Send comments (copy psa@ansi.org) to: Leslie Schraff, fci@fluidcontrolsinstitute.org

Comment Deadline: March 21, 2022

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 | Karenvan@HL7.org, www.hl7.org

Reaffirmation

BSR/HL7 V3 GELLO, R2-2010 (R202x), HL7 Version 3 Standard: GELLO, A Common Expression Language, Release 2 (reaffirmation of ANSI/HL7 V3 GELLO, R2-2010 (R2016))

This document corrects a number of errors in the text, examples, and BNF of the GELLO V1 standard. GELLO is an OCL-like expression language for clinical computing.

Single copy price: Free

Obtain an electronic copy from: Karenvan@HL7.org

Order from: Karen Van Hentenryck; Karenvan@HL7.org

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

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

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

Revision

BSR/ASSE Series 5000-202x, Cross-Connection Control Professional Qualifications Standard (revision and redesignation of ANSI/IAPMO Series 5000-2015)

This standard establishes uniform minimum requirements for qualified backflow prevention assembly testers, cross-connection control surveyors/specialists, backflow prevention assembly repairers, fire-protection system cross-connection control testers, and backflow prevention program administrators.

Single copy price: Free

Obtain an electronic copy from: marianne.waickman@asse-plumbing.org

Order from: Marianne Waickman; marianne.waickman@asse-plumbing.org

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

NEMA (ASC C50) (National Electrical Manufacturers Association)

1300 N 17th Street, Suite 900, Rosslyn, VA 22209 | mike.leibowitz@nema.org, www.nema.org

Revision

BSR NEMA MG 1-202x, Motors and Generators (revision of ANSI NEMA MG 1-2021)

Provides practical information concerning performance, safety, test, construction, and manufacture of alternating-current and direct-current motors and generators within the product scopes defined in the applicable section or sections therein.

Single copy price: \$712.00

Obtain an electronic copy from: mike.leibowitz@nema.org

Order from: mike.leibowitz@nema.org

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

Comment Deadline: March 21, 2022

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02269-9101 | PFoley@nfpa.org, www.nfpa.org

NFPA FIRE PROTECTION STANDARDS DOCUMENTATION

*The National Fire Protection Association announces the availability of the NFPA Second Draft Report for concurrent review and comment by NFPA and ANSI. These Second Draft Reports contain the disposition of public comment(s) that were received for standards in the Annual 2022 Revision Cycle (available for review on the next edition tab for each standard). All Notices of Intent to Make A Motion on the A2022 Revision Cycle Second Draft Report must be received by the following date: **February 22, 2022.***

For more information on the rules and deadlines for NFPA standards in cycle, please check the NFPA website (www.nfpa.org) or contact Standards Administration at NFPA. Those who submit comments to NFPA's online submission system on the A2022 Revision Cycle Standards are invited to copy ANSI's Board of Standards Review.

Revision

BSR/NFPA 25-202x, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems (revision of ANSI/NFPA 25-2020)

This document establishes the minimum requirements for the periodic inspection, testing, and maintenance of water-based fire protection systems and the actions to undertake when changes in occupancy, use, process, materials, hazard, or water supply that potentially impact the performance of the water-based system are planned or identified. Coordination with NFPA 72 Testing Requirements. This standard does not address all of the inspection, testing, and maintenance of the electrical components of the automatic fire detection equipment used to activate preaction and deluge systems that are addressed by NFPA 72. The inspection, testing, and maintenance required by this standard and NFPA 72 shall be coordinated so that the system operates as intended. All inspections, testing, and maintenance required by NFPA 72 shall conform to NFPA 72, and all inspections, testing, and maintenance required by this standard shall conform to this standard. There are times when a single inspection or test can meet the requirements of both NFPA 25 and NFPA 72 (e.g., operation of a tamper switch). This standard does not necessarily require that two separate inspections or tests be conducted on the same component, provided the inspection or test meets the requirements of...

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NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02269-9101 | PFoley@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 30B-202x, Code for the Manufacture and Storage of Aerosol Products (revision of ANSI/NFPA 30B-2019)

This code shall apply to the manufacture, storage, and display of aerosol products as defined in this standard. This code shall not apply to the storage and display of containers whose contents are comprised entirely of LP-Gas products. See NFPA 58, Liquefied Petroleum Gas Code. This code shall not apply to post-consumer processing of aerosol containers. This code shall not apply to containers that do not meet the definition of Aerosol Container (see 3.3.2). This code does not apply to products that can be dispensed as aerosolized sprays that are not packaged in aerosol containers as defined in 3.3.2. This code is not applicable to other applications such as industrial spray adhesives that are dispensed from large [18.9 L–475 L (5–125 gal)] pressurized gas cylinders. There is no assurance that the protection specified in this code will be adequate. Containers that contain a product that meets the definitions in 3.3.1 and 3.3.3, but are larger than the limits specified in 3.3.2, shall not be classified as aerosol products, and this code shall not apply to the manufacture, storage, and display of such products.

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Comment Deadline: March 21, 2022

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02269-9101 | PFoley@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 55-202x, Compressed Gases and Cryogenic Fluids Code (revision of ANSI/NFPA 55-2020)

This code shall apply to the installation, storage, use, and handling of compressed gases and cryogenic fluids in portable and stationary cylinders, containers, equipment, and tanks in all occupancies. 1.1.2 Specific Applications. This code shall not apply to the following: (1) Off-site transportation of materials covered by this code. For regulations on the transportation of gases, see 49 CFR 100–185, “Transportation,” and Transportation of Dangerous Goods Regulations; (2) Storage, use, and handling of radioactive gases in accordance with NFPA 801, Standard for Fire Protection for Facilities Handling Radioactive Materials; (3) Use and handling of medical compressed gases at health care facilities in accordance with NFPA 99, Health Care Facilities Code. Bulk compressed gas and cryogenic fluid system installations are intended to be covered by the requirements of this code. Instrumentation and alarms that are attendant to the system and designed to interface with the application in a health care facility are to be retained within the purview of NFPA 99, Health Care Facilities Code; (4) Systems consisting of cylinders of oxygen and cylinders of fuel gas used for welding and cutting in accordance with NFPA 51...

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NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02269-9101 | PFoley@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 86-202x, Standard for Ovens and Furnaces (revision of ANSI/NFPA 86-2019)

This standard shall apply to Class A, Class B, Class C, and Class D ovens, dryers, and furnaces; thermal oxidizers; and any other heated enclosure used for processing of materials and related equipment. Explosions and fires in fuel-fired and electric heat utilization equipment constitute a loss potential in life, property, and production. This standard is a compilation of guidelines, rules, and methods applicable to the safe operation of this type of equipment. Conditions and regulations that are not covered in this standard — such as toxic vapors; hazardous materials; noise levels; heat stress; and local, state, and federal regulations (EPA and OSHA) — should be considered in the design and operation of furnaces. Most failures can be traced to human error. The most significant failures include inadequate training of operators, lack of proper maintenance, and improper application of equipment. Users and designers must utilize engineering skill to bring together that proper combination of controls and training necessary for the safe operation of equipment. This standard classifies furnaces as follows: (1) Class A ovens and furnaces are heat-utilization equipment operating at approximately atmospheric pressure wherein there is a potential explosion or fire hazard that could be occasioned...

Obtain an electronic copy from: www.nfpa.org/86Next

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NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02269-9101 | PFoley@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 130-202x, Standard for Fixed Guideway Transit and Passenger Rail Systems (revision of ANSI/NFPA 130-2020)

This standard shall cover life safety from fire and fire-protection requirements for fixed guideway transit and passenger rail systems, including, but not limited to, stations, trainways, emergency ventilation systems, vehicles, emergency procedures, communications, and control systems. Vehicle maintenance facilities are not addressed by this standard because requirements for that occupancy are provided in other codes and standards. Where vehicle maintenance facilities are integrated or co-located with occupancies covered by this standard, special considerations beyond this standard shall be necessary. Fixed guideway transit and passenger rail stations shall pertain to stations accommodating only passengers and employees of the fixed guideway transit and passenger rail systems and incidental occupancies in the stations. This standard establishes minimum requirements for each of the identified subsystems. This standard shall not cover requirements for the following: (1) Conventional freight systems; (2) Buses and trolley coaches; (3) Circus trains; (4) Tourist, scenic, historic, or excursion operations; (5) Any other system of transportation not included in the definition of fixed guideway transit system (see 3.3.63.1) or passenger rail system (see 3.3.63.2); (6) Shelter stops.

Obtain an electronic copy from: www.nfpa.org/130Next

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

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02269-9101 | PFoley@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 502-202x, Standard for Road Tunnels, Bridges, and Other Limited-Access Highways (revision of ANSI/NFPA 502-2020)

This standard provides fire protection and fire life safety requirements for limited-access highways, road tunnels, bridges, elevated highways, depressed highways, and roadways that are located beneath air-right structures.

1.1.2 This standard establishes minimum requirements for each of the identified facilities. 1.1.3 This standard does not apply to the following structures: (1) Parking garages (2) Bus terminals (3) Truck terminals (4) Any other structure in which motor vehicles are stored, repaired, maintained, or parked 1.1.4 This standard shall be applicable where a structure or an element of a structure, including those specified in 1.1.3(1) through 1.1.3(4), is deemed to be a facility by the authority having jurisdiction. 1.1.4.1 If any element of a structure cited in 1.1.3 is used to allow only the travel of road vehicles as a means of access to or egress from the structure, then it shall be characterized as a facility and treated as such under this standard.

Obtain an electronic copy from: www.nfpa.org/502Next

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

Comment Deadline: March 21, 2022

SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 | kcooney@scte.org, www.scte.org

Reaffirmation

BSR/SCTE 24-1-2016 (R202x), IPCablecom 1.0 Part 1: Architecture Framework for the Delivery of Time-Critical Services over Cable Television Networks Using Cable Modems (reaffirmation of ANSI/SCTE 24-1-2016)

This document provides the architectural framework that will enable cable television operators to provide time-critical services over their networks that have been enhanced to support cable modems.

Single copy price: \$50.00

Obtain an electronic copy from: admin@standards.scte.org

Order from: Global Engineering Documents, (800) 854-7179, www.global.ihs.com

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

SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 | kcooney@scte.org, www.scte.org

Reaffirmation

BSR/SCTE 24-2-2016 (R202x), IPCablecom 1.0 Part 2: Audio Codec Requirements for the Provision of Bi-Directional Audio Service over Cable Television Networks Using Cable Modems (reaffirmation of ANSI/SCTE 24-2-2016)

This standard specifies the audio (voice) codes that are to be used in the provisioning of bi-directional audio services over cable television distribution networks using IP technology (i.e., IPCablecom service). The standard also addresses interfaces between IPCablecom client devices for audio communication. Specifically, it identifies the audio codecs necessary to provide the highest quality and the most resource-efficient service delivery to the customer. Additionally, this document describes a suggested methodology for optimal network support for codecs.

Single copy price: \$50.00

Obtain an electronic copy from: admin@standards.scte.org

Order from: Global Engineering Documents, (800) 854-7179, www.global.ihs.com

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

SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 | kcooney@scte.org, www.scte.org

Reaffirmation

BSR/SCTE 24-3-2016 (R202x), IPCablecom 1.0 Part 3: Network Call Signaling Protocol for the Delivery of Time-Critical Services over Cable Television Using Data Modems (reaffirmation of ANSI/SCTE 24-3-2016)

This specification describes a profile of the Media Gateway Control Protocol (MGCP) for IPCablecom embedded clients, which we will refer to as the IPCablecom Network-based Call Signaling (NCS) protocol. MGCP is a call-signaling protocol for use in a centralized call control architecture, and assumes relatively simple client devices. The call-signaling protocol is one layer of the overall IPCablecom suite of specifications and relies upon companion protocol specifications to provide complete end-to-end IPCablecom functionality.

Single copy price: \$50.00

Obtain an electronic copy from: admin@standards.scte.org

Order from: Global Engineering Documents, (800) 854-7179, www.global.ihs.com

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

Comment Deadline: March 21, 2022

SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 | kcooney@scte.org, www.scte.org

Reaffirmation

BSR/SCTE 24-4-2016 (R202x), IPCablecom 1.0 Part 4: Dynamic Quality of Service for the Provision of Real-Time Services over Cable Television Networks Using Data Modems (reaffirmation of ANSI/SCTE 24-4-2016)

This document addresses requirements for a client device to obtain access to IPCablecom network resources. In particular, it specifies a comprehensive mechanism for a client device to request a specific Quality of Service from the DOCSIS® network. Extensive examples illustrate the use of the specification.

Single copy price: \$50.00

Obtain an electronic copy from: admin@standards.scte.org

Order from: Global Engineering Documents, (800) 854-7179, www.global.ihs.com

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

SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 | kcooney@scte.org, www.scte.org

Reaffirmation

BSR/SCTE 24-5-2016 (R202x), IPCablecom 1.0 Part 5: Media Terminal Adapter (MTA) Device Provisioning Requirements for the Delivery of Real-Time Services over Cable Television Using Cable Modems (reaffirmation of ANSI/SCTE 24-5-2016)

The scope of this document is limited to the provisioning of an IPCablecom 1.0 embedded-MTA device by a single provisioning and network management provider. An attempt has been made to provide enough detail to enable vendors to build an embedded-MTA device that is interoperable in an IPCablecom 1.0 network configuration. This document defines the provisioning of MTA components of the embedded MTA device (unless stated otherwise).

Single copy price: \$50.00

Obtain an electronic copy from: admin@standards.scte.org

Order from: Global Engineering Documents, (800) 854-7179, www.global.ihs.com

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

SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 | kcooney@scte.org, www.scte.org

Reaffirmation

BSR/SCTE 24-6-2016 (R202x), IPCablecom 1.0 Part 6: Management Information Base (MIB) Framework (reaffirmation of ANSI/SCTE 24-6-2016)

This standard describes the framework in which IPCablecom MIB (Management Information Base) modules are described. It provides information on the management requirements of IPCablecom compliant devices and functions and how these requirements are supported in the MIB modules. It is intended to support and complement the actual MIB module documents, which are issued separately.

Single copy price: \$50.00

Obtain an electronic copy from: admin@standards.scte.org

Order from: Global Engineering Documents, (800) 854-7179, www.global.ihs.com

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

Comment Deadline: March 21, 2022

SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 | kcooney@scte.org, www.scte.org

Reaffirmation

BSR/SCTE 24-7-2016 (R202x), IPCablecom 1.0 Part 7: Media Terminal Adapter (MTA) Management Information Base (MIB) Requirements (reaffirmation of ANSI/SCTE 24-7-2016)

This standard describes the IPCablecom 1.0 MTA MIB requirement.

Single copy price: \$50.00

Obtain an electronic copy from: admin@standards.scte.org

Order from: Global Engineering Documents, (800) 854-7179, www.global.ihs.com

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SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 | kcooney@scte.org, www.scte.org

Reaffirmation

BSR/SCTE 24-8-2016 (R202x), IPCablecom 1.0 Part 8: Signaling Management Information Base (MIB) Requirements (reaffirmation of ANSI/SCTE 24-8-2016)

This specification describes the IPCablecom Signaling (SIG) MIB requirements.

Single copy price: \$50.00

Obtain an electronic copy from: admin@standards.scte.org

Order from: Global Engineering Documents, (800) 854-7179, www.global.ihs.com

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

SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 | kcooney@scte.org, www.scte.org

Reaffirmation

BSR/SCTE 24-9-2016 (R202x), IPCablecom 1.0 Part 9: Event Message Requirements (reaffirmation of ANSI/SCTE 24-9-2016)

IPCablecom identifies and defines specifications for delivery of enhanced communications services using packetized data transmission technology over the cable television hybrid fiber coax (HFC) data network running the DOCSIS® protocol. IPCablecom specifies a network superstructure that overlays the two-way data-ready broadband cable access network.

Single copy price: \$50.00

Obtain an electronic copy from: admin@standards.scte.org

Order from: Global Engineering Documents, (800) 854-7179, www.global.ihs.com

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

Comment Deadline: March 21, 2022

SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 | kcooney@scte.org, www.scte.org

Reaffirmation

BSR/SCTE 24-10-2016 (R202x), IPCablecom 1.0 Part 10: Security Specification (reaffirmation of ANSI/SCTE 24-10-2016)

The scope of this document is to define the IPCablecom Security architecture, protocols, algorithms, associated functional requirements and any technological requirements that can provide for the security of the system for the IPCablecom network. Authentication, access control, signaling and media content integrity, confidentiality, and non-repudiation security services must be provided as defined herein for each of the network element interfaces.

Single copy price: \$50.00

Obtain an electronic copy from: admin@standards.scte.org

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SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 | kcooney@scte.org, www.scte.org

Reaffirmation

BSR/SCTE 24-11-2016 (R202x), IPCablecom 1.0 Part 11: Internet Signaling Transport Protocol (ISTP) (reaffirmation of ANSI/SCTE 24-11-2016)

This document addresses the protocol to implement SS7 signaling interconnection in a distributed IPCablecom PSTN Gateway architecture. Specifically, it defines the messages and procedures for transporting SS7 ISUP, TCAP, and TUP messages between the IPCablecom control functions (Media Gateway Controller and Call Management Server) and the SS7 Signaling Gateway.

Single copy price: \$50.00

Obtain an electronic copy from: admin@standards.scte.org

Order from: Global Engineering Documents, (800) 854-7179, www.global.ihs.com

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

SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 | kcooney@scte.org, www.scte.org

Reaffirmation

BSR/SCTE 24-12-2016 (R202x), IPCablecom 1.0 Part 12: Trunking Gateway Control Protocol (TGCP) (reaffirmation of ANSI/SCTE 24-12-2016)

This document describes the TGCP profile of an application programming interface (MGCI) and a corresponding protocol (MGCP) for controlling trunking gateways from external call control elements. A trunking gateway is a network element that provides analog, emulated analog, or digital bearer and channel-associated signaling trunk circuit access to a voice-over-IP (VoIP) network.

Single copy price: \$50.00

Obtain an electronic copy from: admin@standards.scte.org

Order from: Global Engineering Documents, (800) 854-7179, www.global.ihs.com

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

Comment Deadline: March 21, 2022

SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 | kcooney@scte.org, www.scte.org

Revision

BSR/SCTE 92-202x, Specification for 5/8-24 Plug, (Male), Trunk & Distribution Connectors (revision of ANSI/SCTE 92-2017)

The purpose of this document is to specify the mechanical, environmental and base line electrical performance for the male 5/8 – 24 plug (male) trunk and distribution connector interface when connected to SCTE 91, Specification for 5/8-24 RF & AC Equipment Port, Female.

Single copy price: \$50.00

Obtain an electronic copy from: admin@standards.scte.org

Order from: Global Engineering Documents, (800) 854-7179, www.global.ihs.com

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

UL (Underwriters Laboratories)

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

Reaffirmation

BSR/UL 840-2012 (R202x), Standard for Insulation Coordination Including Clearances and Creepage Distances for Electrical Equipment (reaffirmation of ANSI/UL 840-2012 (R2016))

(1) Reaffirmation and continuance of the Third Edition of the Standard for Insulation Coordination Including Clearances and Creepage Distances for Electrical Equipment, UL 840, as a standard.

Single copy price: Free

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

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

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

UL (Underwriters Laboratories)

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

Revision

BSR/UL 60745-1-202x, Standard for Safety Hand-Held Motor-Operated Electric Tools - Part 1: General Requirements (revision of ANSI/UL 60745-1-2020)

Proposed DV modification to CSA, UL, IEC, and ISO Standard Cross Reference Table

Single copy price: Free

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Comment Deadline: March 21, 2022

UL (Underwriters Laboratories)

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

Revision

BSR/UL 62841-3-1-202x, Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Part 3-1: Particular Requirements for Transportable Table Saws (revision of ANSI/UL 62841-3-1-2017)

Revise UL 62841-3-1 to include Adoption of Amendment 1 to IEC 62841-3-1:2014

Single copy price: Free

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

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

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

Comment Deadline: April 5, 2022

ANS (American Nuclear Society)

555 North Kensington Avenue, La Grange Park, IL 60526 | kmurdoch@ans.org, www.ans.org

Revision

BSR/ANS 8.3-202x, Criticality Accident Alarm System (revision of ANSI/ANS 8.3-1997 (R2017))

This standard is applicable to operations with fissionable materials in which inadvertent criticality could occur leading to an excessive radiation dose to personnel. This standard is not applicable to nuclear reactors or critical experiments.

Single copy price: \$112.00

Obtain an electronic copy from: orders@ans.org

Order from: orders@ans.org

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

ASME (American Society of Mechanical Engineers)

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

Reaffirmation

BSR/ASME A112.18.9-2011 (R202x), Protectors/Insulators for Exposed Waste and Supplies on Accessible Fixtures (reaffirmation of ANSI/ASME A112.18.9-2011 (R2017))

This Standard shall show material and performance specifications and use of protectors/insulators for exposed waste and supplies for public/commercial and private/residential buildings using product covered under this Standard.

Single copy price: \$32.00

Order from: <https://cstools.asme.org/csconnect/PublicReviewPage.cfm>

Send comments (copy psa@ansi.org) to: Angel Guzman Rodriguez; guzman@asme.org

Comment Deadline: April 5, 2022

ASME (American Society of Mechanical Engineers)

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

Reaffirmation

BSR/ASME A17.7/CSA B44.7-2006 (R202x), Performance-based safety code for elevators and escalators (reaffirmation of ANSI/ASME A17.7/CSA B44.7-2006 (R2012))

This Code covers the design, construction, operation, inspection, testing, maintenance, alteration, and repair of the following equipment and its associated parts, rooms, spaces, and hoistways, where located in or adjacent to a building or structure: (a) hoisting and lowering mechanisms, equipped with a car, that move between two or more landings. This equipment includes, but is not limited to, elevators and power-driven stairways and walkways for carrying persons between landings. This equipment also includes, but is not limited to, escalators and moving walks; and hoisting and lowering mechanisms, equipped with a car, that serve two or more landings and are restricted to the carrying of material by their limited size or limited access to the car. This equipment includes, but is not limited to, dumbwaiters and material lifts.

Single copy price: \$155.00

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

Send comments (copy psa@ansi.org) to: Geraldine Burdeshaw; burdeshawg@asme.org

ASME (American Society of Mechanical Engineers)

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

Reaffirmation

BSR/ASME B18.16.6-2017 (R202x), Prevailing Torque Locknuts (Inch Series) (reaffirmation of ANSI/ASME B18.16.6-2017)

This Standard covers the complete general, dimensional, mechanical, and performance requirements (proof-load, prevailing torque, and torque-tension) for carbon steel, inch series nylon insert locknuts.

Single copy price: \$39.00

Order from: <https://cstools.asme.org/csconnect/PublicReviewPage.cfm>

Send comments (copy psa@ansi.org) to: Robert Ryan; ryanr@asme.org

ASME (American Society of Mechanical Engineers)

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

Reaffirmation

BSR/ASME B29.2M-2007 (R202x), Inverted Tooth (Silent) Chains and Sprockets (reaffirmation of ANSI/ASME B29.2M-2007 (R2017))

This Standard covers the numbering and dimensions of chains and sprockets, the measurement of chain pitch, basic link dimensions, and sprocket tooth form details.

Single copy price: \$49.00

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

Send comments (copy psa@ansi.org) to: Justin Cassamassino; cassamassinoj@asme.org

Comment Deadline: April 5, 2022

ASME (American Society of Mechanical Engineers)

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

Reaffirmation

BSR/ASME B29.8-2010 (R202x), Leaf Chains, Clevises, and Sheaves (reaffirmation of ANSI/ASME B29.8-2010 (R2017))

This Standard covers the lacing, pin diameter, diameter of link plate holes, link plate contour and thickness, chain widths, and minimum ultimate tensile strengths.

Single copy price: \$49.00

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

Send comments (copy psa@ansi.org) to: Justin Cassamassino; cassasmassinoj@asme.org

Home Innovation (Home Innovation Research Labs)

400 Prince George's Boulevard, Upper Marlboro, MD 20774-8731 | kkauffman@Homeinnovation.com, www.HomeInnovation.com

Revision

BSR/ICC 700-202x, National Green Building Standard (NGBS) (revision of ANSI/ICC 700-2020)

The provisions of this Standard shall apply to the design, construction, alteration, enlargement, and renovation of (1) all residential buildings, (2) residential portions of mixed-use buildings, or (3) mixed-use buildings where the residential portion is greater than 50% of the gross floor area. This Standard shall also apply to subdivisions, building sites, building lots, and accessory structures.

Single copy price: Free (Electronic); \$21.95 (Print)

Obtain an electronic copy from: www.nahb.org/NGBS

Order from: www.builderbooks.com

Send comments (copy psa@ansi.org) to: www.HomeInnovation.com/NGBS

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:

ASTM (ASTM International)

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

BSR/ASTM F609-2013 (R202x), Test Method for Using a Horizontal Pull Slipmeter (HPS) (reaffirmation of ANSI/ASTM F609-2013)

Inquiries may be directed to Corice Leonard; accreditation@astm.org

Withdrawal of an ANS by ANSI-Accredited Standards Developer

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

ASTM (ASTM International)

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

ANSI/ASTM E0678-2007 (2013), Standard Practice for Evaluation of Scientific or Technical Data
Questions may be directed to: Corice Leonard; accreditation@astm.org

ASTM (ASTM International)

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

ANSI/ASTM E2227-2013, Standard Guide for Forensic Examination of Non-Reactive Dyes in Textile Fibers by Thin-Layer Chromatography
Questions may be directed to: Corice Leonard; accreditation@astm.org

ASTM (ASTM International)

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

ANSI/ASTM F609-2013, Test Method for Using a Horizontal Pull Slipmeter (HPS)
Questions may be directed to: Corice Leonard; accreditation@astm.org

ASTM (ASTM International)

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

ANSI/ASTM F1352-2008 (R2013), Guide for Fixed Blade Broadhead Performance and Safety Standards
Questions may be directed to: Corice Leonard; accreditation@astm.org

ASTM (ASTM International)

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

ANSI/ASTM F1435-2008 (R2013), Specification for Designation of the Balance Point Location for Archery Arrows
Questions may be directed to: Corice Leonard; accreditation@astm.org

ASTM (ASTM International)

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

ANSI/ASTM F1648-1995 (R2013), Test Methods for Archery Bowstring Component - Serving String Material
Questions may be directed to: Corice Leonard; accreditation@astm.org

ASTM (ASTM International)

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

ANSI/ASTM F1880-2009 (R2013), Test Method for the Determination of Percent of Let-Off for Archery Bows
Questions may be directed to: Corice Leonard; accreditation@astm.org

Withdrawal of an ANS by ANSI-Accredited Standards Developer

ASTM (ASTM International)

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

ANSI/ASTM F1976-2013, Test Method for Impact Attenuation Properties of Athletic Shoes Using an Impact Test

Questions may be directed to: Corice Leonard; accreditation@astm.org

ASTM (ASTM International)

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

ANSI/ASTM F2867-2013, Terminology Relating to Thoroughbred Horse Racing Surfaces

Questions may be directed to: Corice Leonard; accreditation@astm.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.

ADA (American Dental Association)

211 East Chicago Avenue, Chicago, IL 60611-2678 | bralowerp@ada.org, www.ada.org

National Adoption

ANSI/ADA Standard No. 114-2022, Portable Dental Equipment for Use in Non-Permanent Healthcare Environment - General Requirements (identical national adoption of ISO 23402-1:2020) Final Action Date: 1/31/2022

National Adoption

ANSI/ADA Standard No. 117-2022, Fluoride Varnishes (identical national adoption of ISO 17730:2020 and revision of ANSI/ADA Standard No. 117-2018) Final Action Date: 1/31/2022

National Adoption

ANSI/ADA Standard No. 120-2022, Dentistry - Physical Properties of Powered Toothbrushes (identical national adoption of ISO 20127:2020 and revision of ANSI/ADA Standard No. 120-2009 (R2014)) Final Action Date: 1/31/2022

National Adoption

ANSI/ADA Standard No. 122-2022, Dentistry - Casting and Baseplate Waxes (identical national adoption of ISO 15854:2021 and revision of ANSI/ADA Standard No. 122-2007 (R2019)) Final Action Date: 1/31/2022

National Adoption

ANSI/ADA Standard No. 19-2022, Dentistry - Elastomeric Impression and Bite Registration Materials (identical national adoption of ISO 4823:2021 and revision of ANSI/ADA Standard No. 19-2017) Final Action Date: 1/31/2022

National Adoption

ANSI/ADA Standard No. 198-2022, Multifunction Handpieces (identical national adoption of ISO 22569:2020) Final Action Date: 1/31/2022

National Adoption

ANSI/ADA Standard No. 201-2022, Dentistry - Magnetic Attachments (identical national adoption of ISO 13017:2020) Final Action Date: 1/31/2022

National Adoption

ANSI/ADA Standard No. 27-2022, Polymer-Based Restorative Materials (identical national adoption of ISO 4049:2019 and revision of ANSI/ADA Standard No. 27-2016) Final Action Date: 1/31/2022

National Adoption

ANSI/ADA Standard No. 53-2022, Polymer-Based Crown and Veneering Materials (identical national adoption of ISO 10477:2020 and revision of ANSI/ADA Standard No. 53-2020) Final Action Date: 1/31/2022

National Adoption

ANSI/ADA Standard No. 71-2022, Dentistry - Endodontic Instruments: Compactors (identical national adoption of ISO 3630-3:2021 and revision of ANSI/ADA Standard No. 71-2008 (R2013)) Final Action Date: 1/31/2022

Reaffirmation

ANSI/ADA Standard No. 108, Addendum-2011 (R2022), Amalgam Separators Addendum (reaffirm a national adoption of ANSI/ADA Standard No. 108, Addendum-2011) Final Action Date: 1/31/2022

ANS (American Nuclear Society)

555 North Kensington Avenue, La Grange Park, IL 60526 | kmurdoch@ans.org, www.ans.org

Revision

ANSI/ANS 2.21-2022, Criteria for Assessing Atmospheric Effects on the Ultimate Heat Sink (revision of ANSI/ANS 2.21-2012 (R2016)) Final Action Date: 1/27/2022

ASABE (American Society of Agricultural and Biological Engineers)

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

Reaffirmation

ANSI/ASABE S640 JUL2017 (R2022), Quantities and Units of Electromagnetic Radiation for Plants (Photosynthetic Organisms) (reaffirmation of ANSI/ASABE S640 JUL2017) Final Action Date: 1/28/2022

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

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

Addenda

ANSI/ASHRAE Addendum e to ANSI/ASHRAE Standard 15-2019, Safety Standard for Refrigeration Systems (addenda to ANSI/ASHRAE Standard 15-2019) Final Action Date: 1/27/2022

Addenda

ANSI/ASHRAE/IES Addendum as to ANSI/ASHRAE/IES Standard 90.1-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019) Final Action Date: 1/27/2022

Addenda

ANSI/ASHRAE/IES Addendum at to ANSI/ASHRAE/IES Standard 90.1-2019, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019) Final Action Date: 1/27/2022

ASSP (Safety) (American Society of Safety Professionals)

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

Revision

ANSI/ASSP Z117.1-2022, Safety Requirements for Entering Confined Spaces (revision and redesignation of ANSI ASSE Z117.1-2016) Final Action Date: 1/28/2022

BHMA (Builders Hardware Manufacturers Association)

17 Faulkner Drive, Niantic, CT 06357 | mtierney@kellencompany.com, www.buildershardware.com

Revision

ANSI/BHMA A156.7-2021, Standard for Template Hinge Dimensions (revision of ANSI/BHMA A156.7-2016) Final Action Date: 1/26/2022

BICSI (Building Industry Consulting Service International)

8610 Hidden River Parkway, Tampa, FL 33637 | jsilveira@bicsi.org, www.bicsi.org

Reaffirmation

ANSI/BICSI 001-2017 (R2022), Information and Communication Technology Systems Design and Implementation Best Practices for Educational Institutions and Facilities (reaffirmation of ANSI/BICSI 001-2017) Final Action Date: 1/31/2022

CSA (CSA America Standards Inc.)

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

Addenda

ANSI/CSA NGV 3.1-2022, Fuel system components for compressed natural gas powered vehicles (addenda to ANSI/CSA NGV 3.1-2020) Final Action Date: 1/27/2022

Revision

ANSI/CSA LC 4/CSA 6.32-2022, Press-Connect Metallic Fittings For Use In Fuel Gas Distribution Systems (revision of ANSI/CSA LC 4-2012 (R2021), CSA 6.32-2012 (R2021) and LC4a-2013 (R2021), CSA 6.32a-2013 (R2021)) Final Action Date: 1/27/2022

FM (FM Approvals)

1151 Boston-Providence Turnpike, Norwood, MA 02062 | josephine.mahnken@fmapprovals.com, www.fmglobal.com

Reaffirmation

ANSI/FM 4476-2014 (R2022), Flexible Photovoltaic Modules (reaffirmation of ANSI/FM 4476-2014) Final Action Date: 1/28/2022

NSF (NSF International)

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

Revision

ANSI/NSF 2-2022 (i42r2), Food Equipment (revision of ANSI/NSF 2-2019) Final Action Date: 1/27/2022

Revision

ANSI/NSF 14-2022 (i123r2), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2020) Final Action Date: 1/24/2022

Revision

ANSI/NSF 14-2022 (i124r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2020) Final Action Date: 1/27/2022

Revision

ANSI/NSF 51-2022 (i22r2), Food Equipment Materials (revision of ANSI/NSF 51-2019) Final Action Date: 1/27/2022

TIA (Telecommunications Industry Association)

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

Addenda

ANSI/TIA 942-B-1-2022, Telecommunications Infrastructure Standard for Data Centers - Addendum 1: Edge Data Centers (addenda to ANSI/TIA 942-B-2017) Final Action Date: 1/27/2022

UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Nicolette.A.Weeks@ul.org, <https://ul.org/>

National Adoption

ANSI/UL 12402-5-2022, Standard for Personal Flotation Devices - Part 5: Buoyancy Aids (Level 50) - Safety Requirements (October 8, 2021) (national adoption of ISO 12402-5 with modifications and revision of ANSI/UL 12402-5-2021) Final Action Date: 1/27/2022

National Adoption

ANSI/UL 62275-2021, Standard for Safety for Cable Management Systems - Cable Ties For Electrical Installations (national adoption of IEC 62275 with modifications and revision of ANSI/UL 62275-2016) Final Action Date: 9/24/2021

UL (Underwriters Laboratories)

333 Pfingsten Road, Northbrook, IL 60062 | megan.monsen@ul.org, <https://ul.org/>

Reaffirmation

ANSI/UL 506-2008 (R2022), Standard for Safety for Specialty Transformers (reaffirmation of ANSI/UL 506-2008 (R2017)) Final Action Date: 1/26/2022

Reaffirmation

ANSI/UL 5085-3-2012 (R2022), Standard for Safety for Low Voltage Transformers - Part 3: Class 2 and Class 3 Transformers (reaffirmation of ANSI/UL 5085-3-2012 (R2017)) Final Action Date: 1/26/2022

Revision

ANSI/UL 746E-2022, Standard for Safety for Polymeric Materials - Industrial Laminates, Filament Wound Tubing, Vulcanized Fibre, and Materials Used In Printed Wiring Boards (revision of ANSI/UL 746E-2021) Final Action Date: 1/21/2022

Revision

ANSI/UL 746F-2022, Standard for Safety for Flexible Dielectric Film Materials for Use in Printed Wiring Boards and Flexible Materials Interconnect Constructions (revision of ANSI/UL 746F-2021) Final Action Date: 1/21/2022

Revision

ANSI/UL 796F-2022, Standard for Safety for Flexible Materials Interconnect Constructions (revision of ANSI/UL 796F-2021) Final Action Date: 1/21/2022

Revision

ANSI/UL 8750-2021b, Standard for Safety for Light Emitting Diode (LED) Equipment for Use in Lighting Products (revision of ANSI/UL 8750-2021) Final Action Date: 7/6/2021

VITA (VMEbus International Trade Association (VITA))

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

Reaffirmation

ANSI/VITA 17.1-2015 (R2022), Serial Front Panel Data Port (reaffirmation of ANSI/VITA 17.1-2015) Final Action Date: 1/27/2022

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.

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201-3001 | kbest@ahrinet.org, www.ahrinet.org

BSR/AHRI Standard 1520-202x (SI/I-P), Performance Rating of Centrifugal Refrigerant Compressors (new standard)

ALI (Automotive Lift Institute)

PO Box 85, 3699 Luker Road, Cortland, NY 13045 | info@autolift.org, www.autolift.org

BSR/ALI ALCTV-202x, Automotive Lifts - Safety Requirements for Construction, Testing, and Validation (revision of ANSI/ALI ALCTV-2017)

ASME (American Society of Mechanical Engineers)

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

BSR/ASME PTC 19.25-202x, Non-Nulling Velocity Measurements of Air or Flue Gas Flows (new standard)

ESTA (Entertainment Services and Technology Association)

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

BSR ES1.18-202x, Event Safety - Rigging (new standard)

The Event Safety Working Group solicits for new members in the Performing Artist, Insurance, Equipment Provider, and Event Worker interest categories.

FCI (Fluid Controls Institute)

1300 Sumner Avenue, Cleveland, OH 44115 | fci@fluidcontrolsinstitute.org, www.fluidcontrolsinstitute.org

BSR/FCI 87-1-202x, Classification and Operating Principles of Steam Traps (revision of ANSI/FCI 87-1-2017)

Home Innovation (Home Innovation Research Labs)

400 Prince George's Boulevard, Upper Marlboro, MD 20774-8731 | kkauffman@Homeinnovation.com, www.HomeInnovation.com

BSR/ICC 700-202x, National Green Building Standard (NGBS) (revision of ANSI/ICC 700-2020)

Submit proposed changes or apply for Consensus Committee at www.HomeInnovation.com/NGBS

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

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

INCITS/ISO/IEC 19075-1:2021 [202x], Information technology - Guidance for the use of database language SQL - Part 1: XQuery regular expressions (identical national adoption of ISO/IEC 9075-1:2021)

INCITS/ISO/IEC 19075-2:2021 [202x], Information technology - Guidance for the use of database language SQL - Part 2: Time-related information (identical national adoption of ISO/IEC 19075-2:2021)

INCITS/ISO/IEC 19075-3:2021 [202x], Information technology - Guidance for the use of database language SQL - Part 3: SQL embedded in programs using the Java™ programming language (identical national adoption of ISO/IEC 19075-3:2021)

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

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

INCITS/ISO/IEC 19075-4:2021 [202x], Information technology - Guidance for the use of database language SQL - Part 4: Routines and types using the Java™ programming language (identical national adoption of ISO/IEC 19075-4:2021)

INCITS/ISO/IEC 19075-5:2021 [202x], Information technology - Guidance for the use of database language SQL - Part 5: Row pattern recognition (identical national adoption of ISO/IEC 19075-5:2021)

INCITS/ISO/IEC 19075-6:2021 [202x], Information technology - Guidance for the use of database language SQL - Part 6: Support for JSON (identical national adoption of ISO/IEC 19075-6:2021)

INCITS/ISO/IEC 19075-7:2021 [202x], Information technology - Guidance for the use of database language SQL - Part 7: Polymorphic table functions (identical national adoption of ISO/IEC 19075-7:2021)

INCITS/ISO/IEC 19075-8:2021 [202x], Information technology - Guidance for the use of database language SQL - Part 8: Multidimensional arrays (identical national adoption of ISO/IEC 19075-8:2021)

INCITS/ISO/IEC 21838-1:2021 [202x], Information technology - Top-level ontologies (TLO) - Part 1: Requirements (identical national adoption of ISO/IEC 21838-1:2021)

INCITS/ISO/IEC 21838-2:2021 [202x], Information technology - Top-level ontologies (TLO) - Part 2: Basic Formal Ontology (BFO) (identical national adoption of ISO/IEC 21838-2:2021)

NEMA (ASC C50) (National Electrical Manufacturers Association)

1300 N 17th Street, Suite 900, Rosslyn, VA 22209 | mike.leibowitz@nema.org, www.nema.org

BSR NEMA MG 1-202x, Motors and Generators (revision of ANSI NEMA MG 1-2021)

NSF (NSF International)

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

BSR/NSF 49-202x (i116r2), Biosafety Cabinetry: Design, Construction, Performance and Field Certification (revision of ANSI/NSF 49-2020)

BSR/NSF/CAN 50-202x (i162r4), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2020)

BSR/NSF/CAN 50-202x (i183r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2020)

WMA (World Millwork Alliance)

10047 Robert Trent Jones Parkway, New Port Richey, FL 34655 | jferris@worldmillworkalliance.com, <http://worldmillworkalliance.com>

BSR/WMA 100-202x, Standard Method for Determining Structural Performance Ratings of Side-Hinged Exterior Door Systems and Procedures for Component Substitution (revision of ANSI/WMA 100-2018)

Call for Members (ANS Consensus Bodies)

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 affected parties in accordance with INCITS membership rules. To find out more about participating on the INCITS Executive Board, contact Jennifer Garner at jgarner@itic.org or visit <http://www.incits.org/participation/membership-info> for more information.

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

- Service Providers
- Users
- Standards Development Organizations and Consortia
- Academic Institutions

Call for Members (ANS Consensus Bodies)

ANSI Accredited Standards Developer

NCPDP - National Council for Prescription Drug Programs

Enrollment in the 2022 Consensus Group opens January 10, 2022 and closes February 11, 2022.

National Council for Prescription Drug Programs (NCPDP) Enrollment in the 2022 Consensus Group opens **Monday, January 10, 2022** and closes at **8:00 p.m. EST on Friday, February 11, 2022**. Information concerning the Consensus Group registration process is available by contacting: Margaret Weiker, (480) 477-1000, mweiker@ncpdp.org

Standards:

- Audit Transaction Standard – supports an electronic audit transaction that facilitates requests, responses, and final outcomes transmissions for both “Desk Top” claim audits and for in-store audit notices.
- Batch Standard Subrogation - provides a uniform approach to efficiently process post-payment subrogation claims and eliminate the numerous custom formats used in the industry today.
- Benefit Integration Standard - supports the communication of accumulator data (such as deductible and out of pocket) between Benefit Partners to administer integrated benefits for a member.
- Billing Unit Standard - provides a consistent and well-defined billing unit for use in pharmacy transactions. This results in time savings and accuracy in billing and reimbursement.
- Financial Information Reporting Standard – provides a process whereby financial information is moved from one PBM to another when a patient changes benefit plans.
- Formulary and Benefit Standard – provides a standard means for pharmacy benefit payers (including health plans and Pharmacy Benefit Managers) to communicate formulary and benefit information to prescribers via technology vendor systems.
- Manufacturer Rebate Standard – provides a standardized format for the electronic submission of rebate information from Pharmacy Management Organizations (PMOs) to Pharmaceutical Industry Contracting Organizations (PICOs).
- Medicaid Subrogation Standard – provides guidelines for the process whereby a Medicaid agency can communicate to a processor for reimbursement. The state has reimbursed the pharmacy provider for covered services and now is pursuing reimbursement from other payers for these services.
- Medical Rebates Data Submission Standard – provides a standardized format for health plans’ rebate submissions to multiple manufacturers throughout the industry. Implementation of the medical also eliminates the need for manufacturers to create internal mapping processes to standardize unique data formats from each health plan or third party administrator.
- Post Adjudication Standard – provides a format for supplying detailed drug or utilization claim information after the claim has been adjudicated.
- Prescription Drug Monitoring Programs (PDMP) Reporting Standard – developed to report controlled substance and other required drug information to assist healthcare providers to deter prescription drug abuse to ensure access for patients with valid medical needs.
- Prescription Transfer Standard – developed to create file formats for the purpose of electronically transferring prescriptions between pharmacies.
- Prior Authorization Transfer Standard – developed to define the file format and correct usage for electronically transferring existing prior authorization data between payer/processors when transitioning clients, performing system database or platform changes, or other scenarios where an existing prior authorization record is stored in one location and needs to be moved to another.

Call for Members (ANS Consensus Bodies)

ANSI Accredited Standards Developer

NCPDP - National Council for Prescription Drug Programs

Enrollment in the 2022 Consensus Group opens January 10, 2022 and closes February 11, 2022.

(Continued from previous page)

- Product Identifiers Standard – developed to provide a standard for consistent formatting and utilization of product identifiers in healthcare and to provide clarification for maintenance of these specific product identifiers.
- Real-Time Prescription Benefit Standard – developed a real-time pharmacy benefit inquiry from a provider EMR application to: leverage pharmacy industry standards and technology infrastructure, to deliver an accurate, pharmacy specific, “Patient Pay Amount” for a proposed medication and quantity and to collaboratively align stakeholders.
- Retiree Drug Subsidy Standard – developed to assist in the automation of summarized drug cost and related data transfer from one processor/pharmacy benefit manager to another processor/ pharmacy benefit manager for continuation of the CMS Retiree Drug Subsidy (RDS) cost data reporting by the receiving entity.
- SCRIPT Standard – developed for transmitting prescription information electronically between prescribers, providers, and other entities.
- Specialized Standard – developed for transmitting information electronically between prescribers, providers, and other entities. The standard addresses the electronic transmission of census information about a patient between a facility and a pharmacy, medication therapy management transactions between providers, payers, pharmacies, and other entities. It will include other transactions for electronic exchanges between these entities in the future.
- Specialty Pharmacy Data Reporting Standard - provides a standardized format for the data submitted by specialty pharmacy to drug manufacturers/others to support programs and agreements between the parties.
- State Medicaid Provider File Standard - developed a standard by which state Medicaid agencies or other entities could communicate their provider data with the MCOs/PBMs in a consistent and streamlined manner.
- Telecommunication Standard – developed a standardized format for electronic communication of claims and other transactions between pharmacy providers, insurance carriers, third-party administrators, and other responsible parties.
- Uniform Healthcare Payer Data Standard – developed a standard format for pharmacy claim data to support the reporting requirements of claim data to states or their designees.

ANSI Accredited Standards Developer

SCTE (Society of Cable Telecommunications Engineers)

SCTE, an ANSI-accredited SDO, is the primary organization for the creation and maintenance of standards for the cable telecommunications industry. SCTE’s standards mission is to develop standards that meet the needs of cable system operators, content providers, network and customer premises equipment manufacturers, and all others who have an interest in the industry through a fair, balanced and transparent process.

SCTE is currently seeking to broaden the membership base of its ANS consensus bodies and is interested in new members in all membership categories to participate in new work in fiber-optic networks, advanced advertising, 3D television, and other important topics. Of particular interest is membership from the content (program and advertising) provider and user communities. Membership in the SCTE Standards Program is open to all directly and materially affected parties as defined in SCTE’s membership rules and operating procedures. More information is available at www.scte.org or by e-mail from standards@scte.org.

Membership in the SCTE Standards Program is open to all directly and materially affected parties as defined in SCTE’s membership rules and operating procedures. More information is available at www.scte.org or by e-mail from standards@scte.org.

Call for Comment of ANS Limited Substantive Changes

ANSI Accredited Standards Developers

IAPMO (ASSE Chapter) - ASSE International Chapter of IAPMO

ANSI/ASSE 1099/WSC-PST-2021 - 30-Day Comment Deadline By March 7, 2022

This Call for Comment of Limited Substantive Changes to the Approved American National Standard is available for review & comment until **March 7, 2022**

ANSI/ASSE 1099/WSC-PST-2021

Performance Requirements for Pressurized Water Storage Tanks

(new standard)

1. Update to Section 2.2 to require the collection of 3 samples with full testing on at least one sample.
2. Added direction to manufacture to provide information about the Maximum working pressure and the lowest expected pre-charge pressure to the testing agency
3. Moved minimum construction design methods to an informative annex.

Send comments (with optional copy to psa@ansi.org) to: terry.burger@asse-plumbing.org

Obtain an electronic copy from: terry.burger@asse-plumbing.org

Single copy price: Free

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

Terry Burger

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

18927 Hickory Creek Drive, Suite 220

Mokena, IL 60448

p: (909) 519-0740

e: terry.burger@asse-plumbing.org; standards@iapmostandards.org

Meeting Notices (Standards Developers)

ANSI Accredited Standards Developer

A3 - Association for Advancing Automation

Meeting Times March & April 2022

ANSI-Accredited Standards Committee: R15.06, Industrial Robot Safety

Meeting Format & Location: Hybrid; In-person in Memphis, TN; Remote via GoToMeeting

Meeting Sponsor/Host: FedEx; The University of Memphis

Purpose: SAC Comment resolution for TR 906; Prepare for update of R15.06 (U.S. national adoption of ISO 10218-1,2, which is being updated)

Day/Date/Time: Monday, March 7, 2022; 8:30 AM – 4:45 PM (Central Time) / 6:30 AM – 2:45 PM (PT)

ANSI-Accredited Standards Committee: R15.08, Industrial Mobile Robot Safety

Meeting (1) Meeting Format & Location: Hybrid; In-person in Memphis, TN; Remote via GoToMeeting

Meeting Sponsor/Host: FedEx; The University of Memphis

Purpose: R15.08 Committee Internal Comment resolution for R15.08 Part 2

Day/Date/Time: Wednesday, March 9, 2022 9:30 AM (Central Time) – Thursday, March 10, 2022, 4:45 PM (CT)

Meeting (2) Meeting Format & Location: Remote via GoToMeeting

Meeting Sponsor/Host: A3, the Association for Advancing Automation

Purpose: Complete Committee Internal Comment resolution for R15.08 Part 2, if not completed at in-person (hybrid) meeting March 9 & 10, 2022; arrive at consensus that the R15.08 Part 2 is ready for balloting to the R15 SAC

Day/Date/Time: The meeting will be held in several sessions as follows:

Virtual Session #1: Tuesday, March 15, 2022; 10:00 AM – 12:00 noon (Eastern Time) / 7:00 AM – 9:00 AM (PT)

Virtual Session #2: Thursday, March 17, 2022; 10:00 AM – 12:00 noon (ET) / 7:00 AM – 9:00 AM (PT)

Virtual Session #3: Tuesday, March 22, 2022; 10:00 AM – 12:00 noon (ET) / 7:00 AM – 9:00 AM (PT)

Virtual Session #4: Thursday, March 24, 2022; 10:00 AM – 12:00 noon (ET) / 7:00 AM – 9:00 AM (PT)

Virtual Session #5: Tuesday, April 5, 2022; 10:00 AM – 12:00 noon (ET) / 7:00 AM – 9:00 AM (PT)

Virtual Session #6: Thursday, April 7, 2022; 10:00 AM – 12:00 noon (ET) / 7:00 AM – 9:00 AM (PT)

Note: Some or all of these meeting sessions could be cancelled if not needed.

ANSI-Accredited Standards Committee: R15 Standards Approval Committee (SAC) (consensus body)

Meeting Format & Location: Hybrid; In-person in Memphis, TN; Remote via GoToMeeting

Meeting Sponsor/Host: FedEx; The University of Memphis

Purpose: Discuss Administrative Procedures for R15 committees; discuss current or upcoming documents for ballot

Day/Date/Time: Friday, March 11, 2022; 8:30 AM – 11:30 AM (CT)

For More Information: Contact Carole Franklin, cfranklin@automate.org.

American National Standards (ANS) Process

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

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

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

- ANSI Essential Requirements: Due process requirements for American National Standards (always current edition): www.ansi.org/essentialrequirements
- ANSI Standards Action (weekly public review announcements of proposed ANS and standards developer accreditation applications, listing of recently approved ANS, and proposed revisions to ANS-related procedures): www.ansi.org/standardsaction
- Accreditation information – for potential developers of American National Standards (ANS): www.ansi.org/sdoaccreditation
- ANS Procedures, ExSC Interpretations and Guidance (including a slide deck on how to participate in the ANS process and the BSR-9 form): www.ansi.org/asd
- Lists of ANSI-Accredited Standards Developers (ASDs), Proposed ANS and Approved ANS: www.ansi.org/asd
- American National Standards Key Steps: www.ansi.org/anskeysteps
- American National Standards Value: www.ansi.org/ansvalue
- ANS Web Forms for ANSI-Accredited Standards Developers - PINS, BSR8|108, BSR11, Technical Report: <https://www.ansi.org/portal/psawebforms/>
- Information about standards Incorporated by Reference (IBR): <https://ibr.ansi.org/>
- ANSI - Education and Training: www.standardslearn.org

American National Standards Under Continuous Maintenance

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

The standard shall be maintained by an accredited standards developer. A documented program for periodic publication of revisions shall be established by the standards developer. Processing of these revisions shall be in accordance with these procedures. The published standard shall include a clear statement of the intent to consider requests for change and information on the submittal of such requests. Procedures shall be established for timely, documented consensus action on each request for change and no portion of the standard shall be excluded from the revision process. In the event that no revisions are issued for a period of four years, action to reaffirm or withdraw the standard shall be taken in accordance with the procedures contained in the ANSI Essential Requirements.

The Executive Standards Council (ExSC) has determined that for standards maintained under the Continuous Maintenance option, separate PINS announcements are not required. The following ANSI Accredited Standards Developers have formally registered standards under the Continuous Maintenance option.

-
- AAMI (Association for the Advancement of Medical Instrumentation)
 - AARST (American Association of Radon Scientists and Technologists)
 - AGA (American Gas Association)
 - AGSC (Auto Glass Safety Council)
 - ASC X9 (Accredited Standards Committee X9, Incorporated)
 - ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)
 - ASME (American Society of Mechanical Engineers)
 - ASTM (ASTM International)
 - GBI (Green Building Initiative)
 - HL7 (Health Level Seven)
 - Home Innovation (Home Innovation Research Labs)
 - IES (Illuminating Engineering Society)
 - ITI (InterNational Committee for Information Technology Standards)
 - MHI (Material Handling Industry)
 - NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)
 - NCPDP (National Council for Prescription Drug Programs)
 - NEMA (National Electrical Manufacturers Association)
 - NISO (National Information Standards Organization)
 - NSF (NSF International)
 - PRCA (Professional Ropes Course Association)
 - RESNET (Residential Energy Services Network, Inc.)
 - SAE (SAE International)
 - TCNA (Tile Council of North America)
 - TIA (Telecommunications Industry Association)
 - UL (Underwriters Laboratories)

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

ANSI-Accredited Standards Developers (ASD) Contacts

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

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ISO & IEC Draft International Standards



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

COMMENTS

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

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

ORDERING INSTRUCTIONS

ISO and IEC Drafts can be made available by contacting ANSI's Customer Service department. Please e-mail your request for an ISO or IEC Draft to Customer Service at sales@ansi.org.

When making your request, please provide the date of the Standards Action issue in which the draft document you are requesting appears.

ISO Standards

ISO/DIS 5684, Adhesives - Floor covering adhesives and products for flooring installation - Assessment and classification of low VOC products - 11/27/2021, \$46.00

ISO/DIS 6085, Building construction machinery and equipment - Self-loading mobile concrete mixers - Safety requirements and verification - 4/17/2022, \$82.00

ISO/DIS 6284, Construction drawings - Indication of limit deviations - 4/17/2022, \$53.00

ISO/DIS 7623, Steel cord conveyor belts - Cord-to-coating bond test - Initial test and after thermal treatment - 4/17/2022, \$33.00

ISO/DIS 7906, Leather - Tests for colour fastness - General principles of testing - 11/26/2021, \$58.00

ISO/DIS 9462, Alpine ski-bindings - Requirements and test methods - 11/27/2021, \$107.00

ISO/DIS 14083, Greenhouse gases - Quantification and reporting of greenhouse gas emissions arising from transport chain operations - 11/26/2021, \$175.00

ISO/DIS 14093, Mechanism for financing local adaptation to climate change - Performance-based climate resilience grants - Requirements and guidelines - 4/17/2022, \$112.00

ISO/DIS 16578, Molecular biomarker analysis - Requirements for microarray detection of specific nucleic acid sequences - 4/17/2022, \$62.00

ISO/DIS 20045, Measurement of the radioactivity in the environment - Air: tritium - Test Method using bubbler sampling - 4/14/2022, \$102.00

ISO/DIS 22138, Heavy commercial vehicles - Vehicle stability during tipper body operation - Tilt-table test method - 4/17/2022, \$82.00

ISO/DIS 22378, Security and resilience - Authenticity, integrity and trust for products and documents - Guidelines for interoperable object identification and related authentication systems to deter counterfeiting and illicit trade - 4/16/2022, \$88.00

ISO/DIS 24084, Curtain walling - Inter-storey displacement resistance - Test method - 4/18/2022, \$71.00

ISO/FDIS 24200, Petroleum, petrochemical and natural gas industries - Bulk material for offshore projects - Pipe support - 2/27/2020, \$119.00

ISO/DIS 28178, Graphic technology - Exchange format for colour and process control data using XML or ASCII text - 4/17/2022, \$107.00

ISO/DIS 29002, Industrial automation systems and integration - Exchange of characteristic data - 11/27/2021, \$175.00

ISO/DIS 11357-1, Plastics - Differential scanning calorimetry (DSC) - Part 1: General principles - 11/26/2021, \$102.00

ISO/DIS 13315-1, Environmental management for concrete and concrete structures - Part 1: General principles - 11/27/2021, \$62.00

ISO/DIS 14002-2, Environmental management systems - Guidelines for using ISO 14001 to address environmental aspects and conditions within an environmental topic area - Part 2: Water - 4/16/2022, \$98.00

ISO/DIS 15592-3, Fine-cut tobacco and smoking articles made from it - Methods of sampling, conditioning and analysis - Part 3: Determination of total particulate matter of smoking articles using a routine analytical smoking machine, preparation for the determination of water and nicotine, and calculation of nicotine-free dry particulate matter - 4/16/2022, \$82.00

ISO/FDIS 21474-2, In vitro diagnostic medical devices - Multiplex molecular testing for nucleic acids - Part 2: Validation and verification - 4/10/2021, \$67.00

ISO/DIS 21734-1, Intelligent Transport Systems - Public transport - Performance testing for connectivity and safety functions of automated driving bus - Part 1: General framework - 11/26/2021, \$98.00

ISO/DIS 22705-2, Springs - Measurement and test parameters - Part 2: Cold formed cylindrical helical extension springs - 4/16/2022, \$107.00

ISO/DIS 23906-2, Cigarettes - Determination of benzo[a]pyrene in cigarette mainstream smoke with an intense smoking regime using GC/MS - Part 2: Method using cyclohexane as extraction solvent - 4/16/2022, \$53.00

ISO/DIS 52000-3, Energy performance of buildings - Overarching EPB assessment - Part 3: General Principles for determination and reporting of Primary Energy Factors (PEF) and CO2 emission coefficients - 4/17/2022, \$107.00

ISO/DIS 16000-41, Indoor air - Part 41: Assessment and classification - 11/26/2021, \$88.00

ISO/DIS 80601-2-84, Medical electrical equipment - Part 2-84: Particular requirements for the basic safety and essential performance of ventilators for the emergency medical services environment - 11/26/2021, \$175.00

ISO/ASTM DIS 52927, Additive manufacturing - General principles - Main characteristics and corresponding test methods - 11/26/2021, \$82.00

ISO/CIE DIS 23539, Photometry - The CIE system of physical photometry - 11/27/2021, \$119.00

Additive manufacturing (TC 261)

ISO/ASTM DIS 52927, Additive manufacturing - General principles - Main characteristics and corresponding test methods - 11/26/2021, \$82.00

Agricultural food products (TC 34)

ISO/DIS 16578, Molecular biomarker analysis - Requirements for microarray detection of specific nucleic acid sequences - 4/17/2022, \$62.00

Air quality (TC 146)

ISO/DIS 16000-41, Indoor air - Part 41: Assessment and classification - 11/26/2021, \$88.00

Anaesthetic and respiratory equipment (TC 121)

ISO/DIS 80601-2-84, Medical electrical equipment - Part 2-84: Particular requirements for the basic safety and essential performance of ventilators for the emergency medical services environment - 11/26/2021, \$175.00

Building construction machinery and equipment (TC 195)

ISO/DIS 6085, Building construction machinery and equipment - Self-loading mobile concrete mixers - Safety requirements and verification - 4/17/2022, \$82.00

Clinical laboratory testing and in vitro diagnostic test systems (TC 212)

ISO/FDIS 21474-2, In vitro diagnostic medical devices - Multiplex molecular testing for nucleic acids - Part 2: Validation and verification - 4/10/2021, \$67.00

Concrete, reinforced concrete and pre-stressed concrete (TC 71)

ISO/DIS 13315-1, Environmental management for concrete and concrete structures - Part 1: General principles - 11/27/2021, \$62.00

Doors and windows (TC 162)

ISO/DIS 24084, Curtain walling - Inter-storey displacement resistance - Test method - 4/18/2022, \$71.00

Environmental management (TC 207)

ISO/DIS 14083, Greenhouse gases - Quantification and reporting of greenhouse gas emissions arising from transport chain operations - 11/26/2021, \$175.00

ISO/DIS 14093, Mechanism for financing local adaptation to climate change - Performance-based climate resilience grants - Requirements and guidelines - 4/17/2022, \$112.00

ISO/DIS 14002-2, Environmental management systems - Guidelines for using ISO 14001 to address environmental aspects and conditions within an environmental topic area - Part 2: Water - 4/16/2022, \$98.00

Graphic technology (TC 130)

ISO/DIS 28178, Graphic technology - Exchange format for colour and process control data using XML or ASCII text - 4/17/2022, \$107.00

Industrial automation systems and integration (TC 184)

ISO/DIS 29002, Industrial automation systems and integration - Exchange of characteristic data - 11/27/2021, \$175.00

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

ISO/FDIS 24200, Petroleum, petrochemical and natural gas industries - Bulk material for offshore projects - Pipe support - 2/27/2020, \$119.00

Nuclear energy (TC 85)

ISO/DIS 20045, Measurement of the radioactivity in the environment - Air: tritium - Test Method using bubbler sampling - 4/14/2022, \$102.00

Other

ISO/DIS 7906, Leather - Tests for colour fastness - General principles of testing - 11/26/2021, \$58.00

ISO/CIE DIS 23539, Photometry - The CIE system of physical photometry - 11/27/2021, \$119.00

Plastics (TC 61)

ISO/DIS 5684, Adhesives - Floor covering adhesives and products for flooring installation - Assessment and classification of low VOC products - 11/27/2021, \$46.00

ISO/DIS 11357-1, Plastics - Differential scanning calorimetry (DSC) - Part 1: General principles - 11/26/2021, \$102.00

Pulleys and belts (including veebelts) (TC 41)

ISO/DIS 7623, Steel cord conveyor belts - Cord-to-coating bond test - Initial test and after thermal treatment - 4/17/2022, \$33.00

Road vehicles (TC 22)

ISO/DIS 22138, Heavy commercial vehicles - Vehicle stability during tipper body operation - Tilt-table test method - 4/17/2022, \$82.00

Security (TC 292)

ISO/DIS 22378, Security and resilience - Authenticity, integrity and trust for products and documents - Guidelines for interoperable object identification and related authentication systems to deter counterfeiting and illicit trade - 4/16/2022, \$88.00

Sports and recreational equipment (TC 83)

ISO/DIS 9462, Alpine ski-bindings - Requirements and test methods - 11/27/2021, \$107.00

Springs (TC 227)

ISO/DIS 22705-2, Springs - Measurement and test parameters - Part 2: Cold formed cylindrical helical extension springs - 4/16/2022, \$107.00

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

ISO/DIS 6284, Construction drawings - Indication of limit deviations - 4/17/2022, \$53.00

Thermal insulation (TC 163)

ISO/DIS 52000-3, Energy performance of buildings - Overarching EPB assessment - Part 3: General Principles for determination and reporting of Primary Energy Factors (PEF) and CO2 emission coefficients - 4/17/2022, \$107.00

Tobacco and tobacco products (TC 126)

ISO/DIS 15592-3, Fine-cut tobacco and smoking articles made from it - Methods of sampling, conditioning and analysis - Part 3: Determination of total particulate matter of smoking articles using a routine analytical smoking machine, preparation for the determination of water and nicotine, and calculation of nicotine-free dry particulate matter - 4/16/2022, \$82.00

ISO/DIS 23906-2, Cigarettes - Determination of benzo[a]pyrene in cigarette mainstream smoke with an intense smoking regime using GC/MS - Part 2: Method using cyclohexane as extraction solvent - 4/16/2022, \$53.00

Transport information and control systems (TC 204)

ISO/DIS 21734-1, Intelligent Transport Systems - Public transport - Performance testing for connectivity and safety functions of automated driving bus - Part 1: General framework - 11/26/2021, \$98.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 24790:2017/DAMd 1, Information technology - Office equipment - Measurement of image quality attributes for hardcopy output - Monochrome text and graphic images - Amendment 1 - 4/18/2022, \$40.00

ISO/IEC 24790:2017/DAMd 1, Information technology - Office equipment - Measurement of image quality attributes for hardcopy output - Monochrome text and graphic images - Amendment 1 - 4/18/2022, \$40.00

IEC Standards

8C/39/CD, IEC TS 63384-1 ED1: Power System Stability Control - Part 1: Guideline for framework design of power system stability control, 03/25/2022

29/1110(F)/FDIS, IEC 60118-16 ED1: Electroacoustics - Hearing aids - Part 16: Definition and verification of hearing aid features, 02/25/2022

37B/226/CD, IEC 61643-332 ED1: Components for low-voltage surge protection - Part 332: Selection and application principles for metal oxide varistors (MOV), 05/20/2022

46A/1548/CDV, IEC 61196-1-126 ED1: Coaxial communication cables - Part 1-126: Electrical test methods - Corona extinction voltage, 04/22/2022

65/915/NP, PNW 65-915 ED1: Asset Administration Shell for Industrial Applications - Part 2: Information meta model, 04/22/2022

65/916/NP, PNW 65-916 ED1: Asset Administration Shell for Industrial Applications - Part 3: Security provisions for Asset Administration Shells, 04/22/2022

94/639/CD, IEC 61810-7-1 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-1: Visual inspection and check of dimensions, 03/25/2022

94/640/CD, IEC 61810-7-4 ED1: All-or-nothing electrical relays - Tests and Measurement - Part 7-4: Dielectric strength test, impulse voltage test, 03/25/2022

94/641/CD, IEC 61810-7-25 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-25: Magnetic interference, 03/25/2022

94/642/CD, IEC 61810-7-41 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-41: Insulation coordination, 03/25/2022

94/643/CD, IEC 61810-7-43 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-43: Proof tracking test, 03/25/2022

94/644/CD, IEC 61810-7-11 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-11: Enclosure and Degree of Protection (IP code), 03/25/2022

94/645/CD, IEC 61810-7-6 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-6: Contact-circuit resistance (or voltage drop), 03/25/2022

100/3715/CDV, IEC 62680-1-3 ED5: Universal serial bus interfaces for data and power - Part 1-3: Common components - USB Type-C - Cable and Connector Specification, 04/22/2022

103/233/NP, PNW 103-233 ED1: Transmitting and receiving equipment for radiocommunication - Radio-over-fibre technologies and their performance standard - Part 5 Airport multilateration system, 04/22/2022

116/574(F)/FDIS, IEC 62841-3-5 ED1: Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-5: Particular requirements for transportable band saws, 02/25/2022

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

100/3723/FDIS, IEC 63033-4 ED1: Multimedia systems and equipment for vehicles - Surround view system - Part 4: Application for camera monitor systems, 03/11/2022

100/3728/FDIS, IEC 63033-1 ED1: Multimedia systems and equipment for vehicles - Surround view system - Part 1: General, 03/11/2022

100/3733/FDIS, IEC 63033-2 ED2: Multimedia Systems and equipment for vehicle - Surround view system - Part 2: Recording methods of the surround view system, 03/11/2022

100/3734/FDIS, IEC 63033-3 ED2: Multimedia systems and equipment for vehicles - Surround view system - Part 3: Measurement methods, 03/11/2022

100/3716/CDV, IEC 62680-1-2 ED6: Universal serial bus interfaces for data and power - Part 1-2: Common components - USB Power Delivery specification, 04/22/2022

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

46A/1556/CD, IEC 61196-1-119 ED3: Coaxial communication cables - Part 1-119: Electrical test methods - RF power for coaxial cables and cable assemblies, 04/22/2022

Electrical accessories (TC 23)

23A/994/CDV, IEC 62275 ED4: Cable management systems - Cable ties for electrical installations, 04/22/2022

Electrical Energy Storage (EES) Systems (TC 120)

120/263A/DTS, IEC TS 62933-3-2 ED1: Electrical Energy Storage (EES) Systems - Part 3-2: Planning and performance assessment of electrical energy storage systems - Additional requirements for power intensive and renewable energy sources integration related applications, 04/15/2022

120/266/CD, IEC 62933-1 ED2: Electrical energy storage (EES) systems - Part 1: Vocabulary, 04/22/2022

Electrical equipment in medical practice (TC 62)

62B/1271(F)/CDV, IEC 60601-2-45/AMD2 ED3: Amendment 2 - Medical electrical equipment - Part 2-45: Particular requirements for the basic safety and essential performance of mammographic X-ray equipment and mammographic stereotactic devices, 04/08/2022

62B/1272/NP, PNW 62B-1272 ED1: Medical electrical equipment - Medical image display systems - Part 3: Evaluation methods for colour displays, 04/22/2022

62D/1926/CDV, ISO 80601-2-84 ED2: Medical electrical equipment - Part 2-84: Particular requirements for the basic safety and essential performance of ventilators for the emergency medical services environment, 04/22/2022

62D/1931/CDV, IEC 60601-2-83/AMD1 ED1: Amendment 1 - Medical electrical equipment - Part 2-83: Particular requirements for the basic safety and essential performance of home light therapy equipment, 04/22/2022

Electrical installations of buildings (TC 64)

64/2542/CD, IEC 60364-4-44/AMD3 ED2: Amendment 3 - Low-voltage electrical installations - Part 4-44: Protection for safety - Protection against voltage disturbances and electromagnetic disturbances - Clause 443, 03/25/2022

64/2543/CD, IEC 60364-5-53/AMD2 ED4: Amendment 2 - Low-voltage electrical installations - Part 5-53: Selection and erection of electrical equipment - Devices for protection for safety, isolation, switching, control and monitoring - Clause 534, 03/25/2022

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

112/563/CD, IEC 63177 ED1: Test method for compatibility of construction materials with electrical insulating liquids, 03/25/2022

Fibre optics (TC 86)

86B/4569/CDV, IEC 61300-3-45 ED2: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-45: Examinations and measurements - Attenuation of random mated multi-fibre connectors, 04/22/2022

86B/4582/FDIS, IEC 61300-1 ED5: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 1: General and guidance, 03/11/2022

86C/1777/CD, IEC 61280-1-4 ED3: Fibre optic communication subsystem test procedures - Part 1-4: General communication subsystems - Light source encircled flux measurement method, 04/22/2022

Flat Panel Display Devices (TC 110)

110/1405/CD, IEC TR 63340-2 ED1: Electronic displays for special applications - Part 2: Elevator and escalator, 04/22/2022

Fuses (TC 32)

32C/598/CDV, IEC 60691 ED5: Thermal-links - Requirements and application guide, 04/22/2022

Industrial-process measurement and control (TC 65)

65E/871/FDIS, IEC 62714-2 ED2: Engineering data exchange format for use in industrial automation systems engineering - Automation Markup Language - Part 2: Role class libraries, 03/11/2022

65E/877/CD, IEC 63270 ED1: Industrial automation equipment and systems - Predictive maintenance, 04/22/2022

Insulators (TC 36)

36/539/CD, IEC TS 62896 ED2: Hybrid insulators for a.c. and d.c. for high-voltage applications greater than 1000V AC and 1500 V DC - Definitions, test methods and acceptance criteria, 04/22/2022

Magnetic alloys and steels (TC 68)

68/699/CDV, IEC 60404-3 ED3: Magnetic materials - Part 3: Methods of measurement of the magnetic properties of electrical steel strip and sheet by means of a single sheet tester, 04/22/2022

68/700/CDV, IEC 60404-8-4 ED4: Magnetic materials - Part 8-4: Specifications for individual materials - Cold-rolled non-oriented electrical steel strip and sheet delivered in the fully-processed state, 04/22/2022

Magnetic components and ferrite materials (TC 51)

51/1403/CDV, IEC 63299 ED1: Classification of magnetic powder cores, 04/22/2022

Overhead lines (TC 11)

11/290/NP, PNW 11-290 ED1: Overhead lines - Requirements and tests for aeronautical warning balls, 04/22/2022

Performance of household electrical appliances (TC 59)

59D/477/CD, IEC 60456 ED6: Washing machines for household use - Methods for measuring the performance, 04/22/2022

Power system control and associated communications (TC 57)

57/2466/CD, IEC 61850-6-2 ED1: Communication networks and systems for power utility automation - Part 6-2: Configuration description language for extensions for human machine interfaces, 04/22/2022

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

116/553/CDV, IEC 62841-2-16 ED1: Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-16: Particular requirements for hand-held fastener driving tools, 04/22/2022

116/554/CDV, IEC 62841-3-11 ED1: Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-11: Particular requirements for transportable combined mitre and bench saws, 04/22/2022

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

96/530/CDV, IEC 61558-2-20 ED3: Safety of transformers, reactors, power supply units and combinations thereof - Part 2-20: Particular requirements and tests for small reactors, 04/22/2022

Solar photovoltaic energy systems (TC 82)

82/2008/DTS, IEC TS 63342 ED1: Light and elevated temperature induced degradation (LeTID) test for c-Si Photovoltaic (PV) modules: Detection, 04/22/2022

Switchgear and controlgear (TC 17)

17C/836/CD, IEC 62271-211 ED2: High-voltage switchgear and controlgear - Part 211: Direct connection between power transformers and gas-insulated metal-enclosed switchgear for rated voltages above 52 kV, 04/22/2022

(TC)

SMB/7540/QP, Draft IEC Guide 118 Edition 2, Preparation of basic and group energy efficiency publications including energy efficiency aspects, 02/25/2022

JTC1-SC41/268/CD, ISO/IEC TS 30168 ED1: Internet of Things (IoT) - Generic Trust Anchor Application Programming Interface for Industrial IoT Devices, 03/25/2022

(TC 126)

126/42/NP, PNW 126-42 ED1: Safety requirements of binary power generation systems with less than 500 kW in capacity, 04/22/2022



Newly Published IEC Standards

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

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

[IEC/IEEE 80005-1 Amd.1 Ed. 2.0 en:2022](#), Amendment 1 - Utility connections in port - Part 1: High voltage shore connection (HVSC) systems - General requirements, \$25.00

[IEC/IEEE 80005-1 Ed. 2.1 en:2022](#), Utility connections in port - Part 1: High voltage shore connection (HVSC) systems - General requirements, \$569.00

Lamps and related equipment (TC 34)

[IEC 60400 Amd.2 Ed. 8.0 b:2022](#), Amendment 2 - Lampholders for tubular fluorescent lamps and starterholders, \$25.00

[IEC 60400 Ed. 8.2 b:2022](#), Lampholders for tubular fluorescent lamps and starterholders, \$633.00

International Organization for Standardization (ISO)

ISO Proposal for a New Field of ISO Technical Activity

National Gas Fuelling Stations

Comment Deadline: February 25, 2022

AFNOR, the ISO member body for France, has submitted to ISO a proposal for a new field of ISO technical activity on Natural Gas Fuelling Stations, with the following scope statement:

Standardization in the field of design, construction and operation of stations for fuelling compressed natural gas (CNG) and liquefied natural gas (LNG) to vehicles. It includes equipment, safety devices and maintenance.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on **Friday, February 25, 2022**.

Meeting Notices (International)

ANSI Accredited U.S TAG to ISO

TC 299, Robotics

Meeting Times February, March & April 2022

Meeting (1) Meeting Format & Location: Remote via GoToMeeting

Meeting Sponsor/Host: A3, the Association for Advancing Automation

Purpose: Prepare for U.S. participation in upcoming meetings and ballots for ISO TC 299 and its Working Groups

Day/Date/Time: Virtual Session: Thursday, February 17, 2022; 2:30 PM – 4:00 PM (Eastern Time) / 11:30 AM – 1:00 PM (PT)

Meeting (2) Meeting Format & Location: Hybrid; In-person in Memphis, TN; Remote via GoToMeeting

Meeting Sponsor/Host: FedEx; The University of Memphis

Purpose: Discuss procedures for the U.S. TAG; Prepare for U.S. participation in upcoming meetings and ballots for ISO TC 299 and its Working Groups

Day/Date/Time: Tuesday, March 8, 2022; 1:00 PM – 5:15 PM (Central Time) / 11:00 AM – 3:15 PM (PT)

Meeting (3) Meeting Format & Location: Remote via GoToMeeting

Meeting Sponsor/Host: A3, the Association for Advancing Automation

Purpose: Prepare for U.S. participation in upcoming meetings and ballots for ISO TC 299 and its Working Groups

Day/Date/Time: Virtual Session: Wednesday, April 20, 2022; 2:30 PM – 4:00 PM (Eastern Time) / 11:30 AM – 1:00 PM (PT)

For More Information: Contact Carole Franklin, cfranklin@automate.org.

Registration of Organization Names in the United States

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

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

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

Public Review

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

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

Proposed Foreign Government Regulations

Call for Comment

U.S. manufacturers, exporters, regulatory agencies and standards developing organizations 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 proposed technical regulations that may significantly affect trade to the WTO Secretariat in Geneva, Switzerland. In turn, the Secretariat issues and makes available these notifications. 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 Inquiry Point for the WTO TBT Agreement is located at the National Institute of Standards and Technology (NIST) in the Standards Coordination Office (SCO). The Inquiry Point distributes the notified proposed foreign technical regulations (notifications) and makes the associated full-texts available to U.S. stakeholders via its online service, Notify U.S. Interested U.S. parties can register with Notify U.S. to receive e-mail alerts when notifications are added from countries and industry sectors of interest to them. To register for Notify U.S., please visit: <http://www.nist.gov/notifyus/>.

The USA WTO TBT Inquiry 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 available on Notify U.S. at: <https://tsapps.nist.gov/notifyus/data/guidance/guidance.cfm> prior to submitting comments.

For further information about the USA TBT Inquiry Point, please visit: <https://www.nist.gov/standardsgov/what-we-do/trade-regulatory-programs/usa-wto-tbt-inquiry-point> Contact the USA TBT Inquiry Point at (301) 975-2918; F: (301) 926-1559; E: usatbtep@nist.gov or notifyus@nist.gov.

Public Review (January 2022)

[Proposed American National Standard AWI 1232 - Manufactured Wood Casework](#)

Draft shows changes made in response to Canvass and Public Comments.

To submit a comment on this proposed standard, go to <http://www.gotoawi.com/awi1232.html> to access the Public Comment Form.

(The Public Comment Form is the only venue through which AWI will be accepting public comments.)

The proposed changes to the current standard are indicated by blue text underlined (for additions) and red text strikethrough and underline (for deletions).

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.

For the full proposed standard go to <http://www.gotoawi.com/awi1232.html>.

AWI 1232 – Manufactured Wood Casework **Draft Standard - Not for Distribution**

2.0 Scope

2.2 Not Included

- a) Installation of Product.
- ~~b) Product as specified under CSI MasterFormat Division 06-~~
- c) Structural components, grounds, in-wall blocking, backing, furring, brackets, or other anchorage that becomes an integral part of the building's walls, floors, or ceilings are not furnished or installed under the scope of this standard's requirements.
- d) Product as specified under CSI MasterFormat Division 06 00 00.
- e) Product as specified under CSI MasterFormat Division 12 35 00.
- f) Manufactured wood casework included in the scope of ANSI/KCMA A161.1 Performance and Construction Standard for Kitchen & Vanity Cabinets (latest edition).

3.0 Requirements

3.1 General

3.1.5 Default Performance Requirements

- a) Product shall comply with the following minimum default:
 - Structural Performance: Duty Level 2

- [Aesthetic Performance: As stipulated herein \(this standard does not utilize Premium, Custom, and Economy Grades\).](#)

3.2 Material

- b) ~~Unless otherwise indicated,~~ Materials used for the construction of Product covered within the scope of this standard shall adhere to Custom Grade ~~including but not limited to the specified aesthetic grade~~ requirements set forth in AWI 300 - Materials ~~Standard~~ (latest edition).

3.2.1.3 Base Support Assemblies

- b) If specified, moisture resistant base requires base components to be fabricated from material [with a thickness swell factor of 5.5% or less as tested](#) in accordance with ASTM D1037 (latest edition) ~~with a thickness swell factor of five percent (5%) or less.~~

3.3 Structural

3.3.6 Hardware

3.3.6.1 Hardware, Drawer

- a) Drawer slides shall conform to the following minimum load capacity requirements, as measured per ANSI/BHMA A156.9 (latest edition):

Drawer Type	Load Capacity
Pencil drawers	22.7 kg [50 lbs.]
General purpose drawers	34 kg [75 lbs.]
File drawers	45.4 kg [100 lbs.]
Lateral file drawers greater wider than 610 mm [24"] and less than 762 mm [30"] in width	68 kg [150 lbs.]
Lateral file drawers equal to or greater wider than 762 mm [30"] in width	90.7 kg [200 lbs.]

3.4 Aesthetic

3.4.1 Base, Wall, and Tall Cabinets

3.4.1.8 Decorative Laminate Casework

- a) Material ~~Decorative laminate~~ pattern and color shall be as specified and, if not specified, shall be of at the option of the manufacturer/supplier's ~~choice~~.
- b) ~~Decorative laminate~~ Material shall be of one color or pattern per room, with a maximum of five different colors or patterns per project.

3.4.3 Drawers

- a) Drawer box materials shall be at the option of the manufacturer/supplier provided the assembled drawer meets the specified Performance Duty Level and the requirements set forth herein.
- c) Drawer box shall be fitted to the cabinet to allow no more than 101.6 ~~50.8~~ mm [4"] of clearance between the back of the drawer box and the interior face of the rear panel of the cabinet body with a drawer box maximum length of 558.8 mm [22"].

3.4.3.3 Drawer Fronts and False Fronts ~~Exposed Interior Surfaces, Transparent Finish~~

- a) Grained or patterned faces ~~Drawer fronts and false fronts~~ shall run either vertically or horizontally at the option of the manufacturer/supplier and shall be consistent throughout entire project. (See Figure 20 and Figure 22)

3.4.3.4 Drawer Fronts, Stile and Rail

- a) Grained or patterned faces on drawer fronts shall run either vertically or horizontally at the option of the manufacturer/supplier and shall be consistent throughout entire project. (See Figure 18 and Figure 19)

3.4.7.1 Edges, Decorative Laminate Casework (Assembled Unit Including Doors and Drawer Fronts)

- c) PVC and ABS shall be well-matched compatible for color to the exposed exterior surface.

3.4.11 Tolerances

3.4.11.1 Machining, Exposed and Semi-Exposed Surfaces

- h) Glue or joint filler (putty) shall be inconspicuous and match the adjacent surface for smoothness.

Public Review (January 2022)

[Proposed American National Standard AWI 1236 – Countertops](#)

Draft shows changes made in response to Canvass and Public Comments.

To submit a comment on this proposed standard, go to <http://www.gotoawi.com/awi1236.html> to access the Public Comment Form.

(The Public Comment Form is the only venue through which AWI will be accepting public comments.)

The proposed changes to the current standard are indicated by blue text underlined (for additions) and red text strikethrough and underline (for deletions).

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.

For the full proposed standard go to <http://www.gotoawi.com/awi1236.html>.

AWI 1236 Countertops

****Draft Standard - Not for Distribution****

3.2 Material

- a) Materials used for the construction of Product covered within the scope of this standard shall adhere to the requirements set forth in AWI 300 - Materials (latest edition) including, but not limited to, specified aesthetic grade.

3.2.4 Natural/Engineered Stone

- a) When natural stone is referenced in these standards, it typically refers to quarried stone including but not limited to granite, marble, slate, soapstone, or limestone. See the AWI 300 - Materials (latest edition).
- b) When engineered stone is referenced in these standards, it typically refers to a composite material made of crushed stone bound together by a resin. See the AWI 300 - Materials (latest edition).

3.2.5 Wood

- a) When wood countertops are specified without stipulation of solid wood or veneered wood, then solid wood or veneered wood may be used at the manufacturer/supplier option. See the AWI 300 - Materials (latest edition).

3.3 Structural

- d) Cut-outs within a countertop shall be made by either manufacturer/supplier or installer. Sink cut-outs shall not fall within 457 mm [18"] of a joint.

3.3.1 Joints

- e) ~~Cut-outs within a countertop shall be made by either manufacturer/supplier or installer. Sink cut-outs shall not fall within 457 mm [18"] of a joint.~~

3.3.3 Suspended or Cantilever Countertops

- b) ~~Full depth countertop build-up is required at support locations.~~ Build-up, when used, shall be full depth at support locations.

3.4. Aesthetic

3.4.2 Tolerances

3.4.2.1 Machining, Exposed Surfaces

- g) Glue or joint filler (putty), when used, shall be inconspicuous and match the adjacent surface for smoothness.

3.4.5 Opaque Finish

- b) Finger joints in solid wood are permitted, except at exposed solid wood edges.

3.4.6 Transparent Finish, Veneer and Solid Wood

- h) Veneer and lumber adjacent to each other shall be:

Premium	Custom	Economy
Same species, compatible for color	Same species, compatible for color	<u>Same or mixed species at the option of the manufacturer/supplier</u>

- i) Exposed edges and reveals shall:

Premium	Custom	Economy
Be a minimum nominal thickness of .5 mm [.020"] that precludes show-through of core	Be a minimum nominal thickness of .5 mm [.020"] that precludes show-through of core	<u>Preclude show-through of core</u>

3.4.7 Decorative Laminate

- ~~h) Built-up components shall be:~~

Premium	Custom	Economy
Of the same material as core	Of the same material as core	No requirement

3.4.9 Epoxy Resin

- d) Width of seams joints in exposed surfaces, when mitered or butted (See Figure 48, ABC), shall be per the manufacturer/supplier's recommendation and shall be filled as with recommended filler material.
- e) Flatness (See Figure 5, E) shall be held within ± 1.6 mm [.063"] for each 914 mm [36"] span.

2 Normative references

The following normative documents contain provisions that, through reference in this text, constitute provisions of this American National Standard. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements subject to this American National Standard should apply the most recent editions of the normative documents listed below. This standard is intended to be used in conjunction with the following American National Standards:

ANSI B11.0 – 2020 *Safety of machinery*

ANSI B11.19 – 2019 *Performance Requirements for Risk Reduction Measures: Safeguarding and other Means of Reducing Risk*

ANSI B11.26–2018, *Functional Safety for Equipment: General Principles for the Design of Safety Control Systems Using ISO 13849-1*

ANSI / ASSP Z244.1-2016 (R2020), *The Control of Hazardous Energy – Lockout, Tagout and Alternative Methods.*

NFPA 70 – 2020, *The National Electrical Code*

NFPA 70E – 2021, *Standard for Electrical Safety in the Workplace*

NFPA 79 – 2021, *Electrical Standard for Industrial Machinery*

ANSI / IES-RP-7-2001, *Practice for Industrial Lighting*

2.1 Informative references

The following documents to the right are not normative references, but may be helpful in conforming to the requirements of this standard.

E2 Informative references

E2.1

ANSI B11.1–2009 (R2020), *Safety Requirements for Mechanical Power Presses*

ANSI B11.2–2013 (R2020), *Safety Requirements for Hydraulic / Pneumatic Power Presses*

ANSI B11.20–2017 *Safety Requirements for the Integration of Machinery into a System*

ANSI B11.18–2006 (R2020), *Safety Requirements for Machines Processing or Slitting Coiled or Non-coiled Metal*

ANSI B11.TR1–2016, *Ergonomic Guidelines for the Design, Installation and Use of Machines*

ANSI B11.TR4–2004 (R2015), *Selection of Programmable Electronic Systems (PES/PLC) for Machine Tools*

ANSI / ASME B20.1–2006, *Safety Standard for Conveyors and Related Equipment*

ASME *Boiler and Pressure Vessel Code*, 2010.
Division 1 (Section VIII)

ISO 4413-2010, *Hydraulic Fluid Power Systems – General Rules and Safety Requirements for Systems and their Components*

ISO 4414-2010, *Pneumatic Fluid Power Systems – General Rules and Safety Requirements for Systems and their Components*

ANSI Z535.1–2017, *Safety Colors*

ANSI Z535.2–2011 (R2017), *Environmental and Facility Safety Signs*

ANSI Z535.3–2011 (R2017), *Criteria for Safety Symbols*

ANSI Z535.4–2011 (R2017), *Product Safety Signs and Labels*

ANSI Z535.5–2011 (R2017), *Accident Prevention Tags and Labels*

ANSI Z535.6–2011 (R2017), *Product Safety Information on Product Manuals, Instructions, etc.*

ANSI / IESNA-RP-7-2001, *Industrial Lighting*

ANSI / RIA R15.06-2012, *Safety Requirements for Industrial Robots and Robot Systems*

8.3 Performance of the safety function(s)

The design and performance of a safety function, including the SRP/CS shall be commensurate with the intended risk reduction. The greater the intended risk reduction to be provided by the safety function, the higher the required reliability performance shall be.

The SRP/CS shall be appropriate for the intended use and shall conform to the applicable requirements in ANSI B11.19 and ANSI B11.26.

E8.3

Some risk reduction measures involve safety functions which are performed/executed by a system of controls. The control system elements responsible for the safety function are considered the safety-related parts of the control system (SRP/CS).

SRP/CS can be electrical, electronic, programmable electronic system, mechanical, hydraulic, and/or pneumatic or any combination thereof (see also, ANSI B11.26). The SRP/CS may be composed of sensors, logic solvers and actuators.

Final Draft

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NSF/ANSI International Standard for Biosafety Cabinetry —

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

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Normative Annex 5 (formerly Annex F)

Field tests

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N-5.4 Airflow patterns test

N-5.4.1 Purpose

This test determines that the airflow along the entire perimeter of the work access opening is inward, that airflow within the total work area is downward with no dead spots or refluxing, that ambient air does not pass on or over the work surface, and that there is no escape to the outside of the cabinet at the sides and top of the sash.

N-5.4.2 Apparatus

The source shall be a visible aerosol or mist that is close to neutrally buoyant in air. The generation process should not create a velocity sufficient to interfere with the air patterns being observed.

NOTE — Titanium tetrachloride is corrosive and should be handled with care.

N-5.4.3 Method

N-5.4.3.1 Downflow test

- a) Visible aerosol or mist shall be passed from one end of the cabinet to the other, along the centerline of the work surface, at a height of 4 inches (100 mm) above the top of the access opening.
- b) Reported values shall be:
 - name of test (airflow pattern downflow test); and
 - pass or fail.

N-5.4.3.2 Sash retention test

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a) Visible aerosol or mist shall be passed from one end of the cabinet to the other, 1 inch (25 mm) behind the sash, at a height 6 inches (150 mm) above the top of the access opening.

b) Reported values shall be:

- name of test (sash retention test); and
- pass or fail.

N-5.4.3.3 Work opening edge retention test

a) Visible aerosol or mist shall be passed along the entire perimeter of the work opening edges, approximately 1.5 inches (40 mm) outside the cabinet. Particular attention should be paid to corners and vertical edges.

b) Reported values shall be:

- name of test (work opening edge retention test); and
- pass or fail.

N-5.4.3.4 Sash seal test

a) Smoke shall be passed up the inside of the sash 2 inches (50 mm) from the sides and along the top of the total work area, 1 inch (25 mm) behind the sash, starting and ending 6 inches (150 mm) above the bottom edge of the sash.

b) Reported values shall be:

- name of test (sash seal test); and
- pass or fail.

N-5.4.4 Acceptance

N-5.4.4.1 Downflow test

The visible aerosol or mist shall show smooth downward flow with no dead spots or reflux (upward flow).

N-5.4.4.2 View screen retention test

The visible aerosol or mist shall show smooth downward flow with no dead spots or reflux. No visible aerosol or mist shall escape from the cabinet.

N-5.4.4.3 Work opening edge retention test

No visible aerosol or mist shall be refluxed out of the cabinet once drawn in, nor shall visible aerosol or mist billow over the work surface or penetrate onto it.

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N-5.4.4.4 Sash seal test

There shall be no escape of visible aerosol or mist from the cabinet.

NOTE – Optional Dynamic Operation Test

The airflow visualization tests described in N-5.4 are all performed with the cabinet work area empty. These tests are designed to verify that the cabinet is performing as designed and manufactured, and as tested by the accreditation agency. An additional optional test may be performed to verify that the unidirectional airflow within the work zone and the front access containment has not been negatively impacted by the operating supplies loaded into the cabinet or by the work processes carried out in the cabinet. The dynamic operation tests should be performed in coordination with the user. Testing should be done with sacrificial supplies or actual supplies protected with sealed wrappings.

Dynamic Operation Test

- a) The cabinet should be loaded with all supplies, products, and equipment as typically used. For cabinets where multiple set-ups are used, the most disruptive set-up should be tested.
- b) Visible aerosol or mist should be passed over all materials placed within the cabinet work area. Verify no turbulence, refluxing, or stagnant areas are created by the loading of supplies, products, and equipment into the cabinet.
- c) Visible aerosol or mist should be positioned behind the view screen while the user is performing normal tasks within the cabinet. Verify no air escapes the cabinet during normal operations.
- d) Visible aerosol or mist should be positioned directly upstream of the work being performed during normal cabinet operations.

If the test is performed, the reported values should include:

- name of test (dynamic operation test);
- a picture or description of the setup tested; and
- pass or fail.

***Rationale:** This language offers guidelines for field certifiers to conduct an optional visible aerosol or mist test of a BSC which appears to be loaded improperly and may be negatively impacting airflow. Although this is optional and informative, the findings over time may well lead to a better understanding for users and BSC manufacturers alike.*

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NSF/ANSI Standard

Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and other Recreational Water Facilities

Evaluation criteria for materials, components, products, equipment, and systems for use at recreational water facilities

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-
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3 Definitions

3.8 automated controller: A system of at least one chemical probe, a controller, and auxiliary or integrated component, that senses the level of one or more swimming pool or spa / hot tub water parameters and provides a signal to other equipment to maintain the parameter(s) within a user-established range.

3.9 automated valve: A valve that switches flow paths without manual human interaction commanded by an integrated or external controller.

3.910 backwash: Flow of water through filter element(s) or media in a reverse direction to dislodge accumulated dirt or filter aid and remove them from the filter tank.

Subsequent definitions will be renumbered accordingly.

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3.154 valve: A device used to direct flow to, through, and from a body of recreational water.

Subsequent definitions will be renumbered accordingly.

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9 Valves

9.1 Scope

This section contains requirements for valves, automated valves, and manufactured manifolds used on filters in public and residential swimming pools and spas / hot tubs. The requirements apply to the housing, valve, handle, or valve mechanism and other components that are integral parts of the valve or multiport valve.

An automated valve with integrated automated controller functions shall also comply to Section 19.

9.2 General

9.2.1 Valves and component parts that may require inspection and service shall be accessible.

9.2.2 Valves shall be marked or keyed for proper assembly and operation.

9.2.3 Valves shall be designed so that parts may be replaced without drilling or otherwise altering the multiport valve or replacement part.

9.3 Positive indexing

9.3.1 Valves shall be marked or have a suitable display so that the position of the operating handle or valve mechanism clearly indicates each operation.

9.3.2 Valves shall be designed so that the position of the operating handle or valve mechanism can only be changed intentionally.

9.3.3 Valves shall be designed so that the operating handle or valve mechanism, if removed, may only be properly realigned.

9.4 Design pressure

9.4.1 The working pressure of a pressure service valve or manufactured manifold or operational system associated with single or multiple tank filter system shall be 50 psi (344 kPa) or greater. The design burst pressure of a pressure service valve or operational system associated with single or multiple tank filter system shall be designed to have a burst pressure of at least four times the working pressure (i.e., minimum safety factor = 4:1).

9.5 Pressure service

The valve or manufactured manifold and its integral components shall not rupture, leak, burst, or sustain permanent deformation when subject to the following conditions in accordance with the following: (Annex N-4):

- a hydrostatic pressure equal to 1.5 times the working pressure for 300 s;
- 20,000 consecutive pressure cycles per Section N-2.1.4.d; and
- a hydrostatic pressure equal to two times the working pressure per Section N-2.1.4.e.

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9.6 Valve leakage

Filter system valves and manufactured manifolds, when operating at the test pressure and maximum design flow rate, shall not leak in excess of 3 mL from the waste port and 30mL from the return-to-pool port in the 5 min test.

9.7 Head loss curve

9.7.1 The manufacturer shall make available a head loss curve for both the filter and backwash positions.

9.7.2 The actual head loss across a multiport valve shall not exceed the head loss indicated by the manufacturer's head loss curve by more than 5% (see Section N-4.4).

9.7.3 The head loss curve for manufactured manifolds may be calculated using a standard friction loss table and actual valve head loss data.

9.8 Waste port seal

The filter system valve or manufactured manifold shall not leak more than 3 mL in a 5 min test through the waste port when the valve is set in the position and a static pressure of 0 to 10 psi (70 kPa) is applied to the return port (Section N-4.5).

9.9 Vacuum service

9.9.1 The design collapse pressure of a vacuum service valve shall be at least 1.5 times the pressure developed by the weight of the water in the tank (i.e., minimum safety factor = 1.5).

9.9.2 Vacuum service valves shall not rupture, leak, collapse, or sustain permanent deformation when subjected to a vacuum of 25 in Hg (85 kPa) for 300 s in accordance with Section N-2.2.

9.9.3 Vacuum service valves are exempt from port leakage testing.

9.10 Installation and operating instructions

The manufacturer shall provide a manual with each valve or manufactured manifold. The manual shall include operating instructions, installation instructions, design head loss curve and parts lists, and any drawings or charts necessary to permit proper installation, operation, and maintenance.

9.11 Identification

The multiport valve shall be clearly and permanently marked or labeled with the following:

- manufacturer name and contact information (address, phone number, website, or prime supplier);
- model number;
- working pressure;
- vacuum pressure, if applicable;
- operating setting; and

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—special requirements for switching between settings (e.g., the pump shall be shut off prior to switching the valve position).

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19 Automated controllers

19.1 Scope

Automated controllers are used to monitor water conditions such as pH, ORP, free chlorine or other parameters specified by the manufacturer and to control equipment such as chemical feeders and pumps. Equipment covered by this section includes the controller and the chemical probes, and flow cells. Water contact components and materials of automated controllers shall be evaluated to the health effects criteria of Section 4. Mechanical chemical feeders are covered in Section 11, and flow-through chemical feeders are covered in Section 12.

An automated controller that has been incorporated into a valve shall also comply with the requirements of Section 9.

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

NSF/ANSI/CAN Standard

Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and other Recreational Water Facilities

Evaluation criteria for materials, components, products, equipment, and systems for use at recreational water facilities

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14 Ozone generation process equipment

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14.19 Disinfection efficacy

Ozone generation process equipment designed for supplemental disinfection such as ion generators, ozone and ultraviolet light equipment shall demonstrate a 3 log (99.9%) or greater inactivation of influent bacteria when tested according to Section N-8.1.

Ozone generation process equipment designed for secondary disinfection such as ion generators, ozone and ultraviolet light equipment shall demonstrate a 3 log (99.9%) or greater reduction of *C. parvum* when tested and evaluated according to Section 14.20.

Ozone equipment shall carry the following information in the installation and use instructions:

— Level 1 (L1): NSF/ANSI/CAN 50, Section 14.19, disinfection efficacy testing for 3 log (99.9%) or greater of <name organisms>, NSF/ANSI/CAN 50, Section 14.20 *Cryptosporidium parvum* reduction for a 3 log (99.9%) or greater in a single pass. Specific residual levels of EPA registered disinfecting chemicals may be required by the regulatory agency having authority.

— Level 2 (L2): NSF/ANSI/CAN 50, Section 13.19, disinfection efficacy testing for 3 log (99.9%) or greater of <name organisms>. Specific residual levels of EPA registered disinfecting chemicals may be required by the regulatory agency having authority.

Ozone generation process equipment designed for supplemental disinfection shall carry the following information in the installation and use instructions and be noted in the official certification listings:

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*“This unit has demonstrated an ability to provide three log inactivation of *Pseudomonas aeruginosa* and *Enterococcus faecium*. This product is designed for supplementary disinfection and is intended for use with appropriate residual levels of EPA registered disinfecting chemicals. Specific residual levels of EPA registered disinfecting chemicals may be required by the regulatory agency having authority.”*

Ozone generation process equipment designed for secondary disinfection shall carry the following information in the installation and use instructions and be noted in the official certification listings:

*“This unit has been tested to confirm a minimum inactivation equivalent of 3 log (99.9%) *C. parvum* in accordance with NSF/ANSI/CAN 50 Section N-8.4. This product has met the requirements of NSF/ANSI/CAN 50, Section N-8.1: Disinfection Efficacy, for the \geq minimum of a 3 log (99.9%) reduction of *Enterococcus faecium* [ATCC #6569] and *Pseudomonas aeruginosa* [ATCC #27313]. This product is intended for secondary disinfection and is intended for use with appropriate residual levels of EPA registered disinfecting chemicals. Specific residual levels of EPA registered disinfecting chemicals may be required by the regulatory agency having authority.”*

14.20 *Cryptosporidium* reduction

Manufacturers of an ozone generation system with a claim of *C. parvum* reduction shall demonstrate a minimum of 3 log (99.9%) or greater reduction of *C. parvum* in a single pass when tested in accordance with Section N-8.4.

~~The ozone generation system shall reduce the number of live *C. parvum* oocysts from an influent challenge of at least 5000 (5×10^3) infectious oocysts per liter by at least 99.9% when tested in accordance with Section N-8.3. The *C. parvum* oocysts shall be from a calf source. The viability shall be greater than 50% determined by excystation.²⁵ The oocysts shall be stored with 1,000 IU/mL penicillin and 1,000 μ g/mL streptomycin at 39 °F (4 °C) and shall be used within eight weeks of collection. The live *C. parvum* oocysts shall not be inactivated by any means including chemical or UV irradiation prior to passing through the ozone generation system.~~

NOTE — It has been reported that the oocyst wall of viable oocysts may deform. Excystation is performed as an indication of the potential of the oocyst wall to deform and is not done to measure the infectivity of the organism. ~~The process equipment shall be provided with an effective means to alert the user when a component of this equipment is not operating.~~

~~The process equipment shall be provided with an effective means to alert the user when a component of this equipment is not operating.~~

Rationale: NOTEs cannot contain requirements (shall)

14.21 Operation and installation instructions

—drawings and a parts list for easy identification and ordering of replacement parts shall be furnished with each unit and shall include:

- model number of the unit;
- instructions for proper size selection and installation;
- operation and maintenance instructions;

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- a statement of the manufacturer's warranty;
- applicable caution statements (prominently displayed);
- ventilation requirements (if applicable);
- cross connection protection (if the unit is physically connected to a potable water supply);
- a warning, if the potential exists for release of high dosages of substances that may endanger bathers;
- output rate (in pounds or kilograms per day or hour);
- maximum daily operation time (if not designed for continuous operation; and
- ~~level of disinfection efficacy~~ a statement identifying if the unit is suitable for supplemental disinfection or for secondary disinfection.

14.22 Information on ozone off-gassing and removal devices

Information shall be provided to the user concerning the potential for off-gassing of ozone and required ozone removal devices, if applicable.

14.23 Data plate

Data plate(s) shall be permanent; easy to read; and securely attached, cast, or stamped onto the unit at a location readily accessible after normal installation. Data plate(s) shall contain the following:

- manufacturer's name and contact information (address, phone number, website, or prime supplier);
- model number;
- serial number or date of manufacture;
- certification mark of the ANSI-Accredited testing and certification organization;
- electrical requirements (volts, amps, Hertz) for operation;
- type of feed-gas;
- rated feed-gas flow rate (SCFH or LPM);
- rated ozone production (grams per hour [g/h] or pounds per day [lb/d]);
- method of cooling and coolant flow rates;
- level of disinfection certification (~~L1 or L2~~ supplemental or secondary);
- maximum daily operation time (if not designed for continuous operation);

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- caution statements (prominently displayed) including a statement that the unit should be used with an EPA registered disinfection chemical to impart a measurable residual concentration in the water; and
- a statement identifying if the unit is suitable for supplemental disinfection or for secondary disinfection.

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15 Ultraviolet (UV) light process equipment

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15.8 Disinfection efficacy

Ultraviolet light process equipment designed for supplemental disinfection shall demonstrate a 3 log (99.9%) or greater inactivation of influent bacteria when tested according to Section N-8.1.

Ultraviolet light process equipment designed for secondary disinfection shall demonstrate a 3 log (99.9%) or greater inactivation of *C. parvum* when tested and evaluated according to Section 15.18 and is exempt from Section N-8.1 testing if during secondary validation the lamp intensity (per Section 15.5) is equal to or greater than the lamp intensity after the unit has completed life testing. Section N-8.1 shall be required if the dose is less.

Ultraviolet light process equipment designed for supplemental disinfection shall carry the following information in the installation and use instructions and be noted in the official certification listings:

*“This unit has demonstrated an ability to provide three log inactivation of ~~<name organisms>~~ *Pseudomonas aeruginosa* and *Enterococcus faecium*. ~~This unit has not demonstrated an ability to provide three log kill or inactivation of <name organisms if applicable>~~. This product is designed for supplementary disinfection and is intended for use with appropriate residual levels of EPA registered disinfecting chemicals. Specific residual levels of EPA registered disinfecting chemicals may be required by the regulatory agency having authority.”*

Ultraviolet light process equipment designed for secondary disinfection shall carry the following information in the installation and use instructions and be noted in the official certification listings:

*“This unit has been tested to confirm a minimum inactivation equivalent of 3 log (99.9%) *C. parvum* in accordance with NSF/ANSI/CAN 50 and the US EPA UV DGM. This product has met the requirements of NSF/ANSI/CAN 50, Section N-8.1: Disinfection Efficacy, for the \geq minimum of a 3 log (99.9%) reduction of *Enterococcus faecium* [ATCC #6569] and *Pseudomonas aeruginosa* [ATCC #27313]. This product is intended for secondary disinfection and is intended for use with appropriate residual levels of EPA registered disinfecting chemicals. Specific residual levels of EPA registered disinfecting chemicals may be required by the regulatory agency having authority.”*

Rationale: Harmonization with changes made to Ozone section

BSR/UL 13, Standard for Safety for Power-Limited Circuit Cables**Topic 1 – Revision of UL 13 Standard to Include Copper-Clad Aluminum as a Conductor Option in Class 2 Circuit, Thermostat Cable for 18 AWG HVAC Applications****PROPOSAL****Table 5.1 Conductors**

^g ~~Copper Clad Aluminum is permitted for HVAC and Thermostat wiring used in a Class 2 circuit.~~ CCA conductors shall have 10 percent or higher conductivity in accordance with ASTM B 566.

Table 5.2 Conductor diameters

AWG size of conductor	Solid conductor				Nominal diameter of stranded conductor	
	Nominal diameter		Minimum diameter		inch	mm
	inch	mm	inch	mm		
16-CCA^e	0.0508	1.290	0.0503	1.278	N/A	N/A

^a Minimum diameter (0.99 x nominal) of a solid conductor of this size in a Type PLTC cable. See corresponding resistance (1.02 x nominal) in [Table 20.1](#).

^b Minimum diameter (0.95 x nominal) of a solid conductor of this size in all cables other than Type PLTC. See corresponding resistance (1.1 x nominal) in Table 20.1.

^e ~~Suitable for 18 AWG HVAC Thermostat applications only~~

5.6 a)

1) Measurements of the diameter of a solid copper conductor, a copper-clad steel conductor, a ~~CCA~~ (copper-clad aluminum) conductor or silver plated steel conductor are to be made by optical means or by means of a machinist's micrometer caliper having flat surfaces both on the anvil and on the end of the spindle. In either case, the equipment is to be calibrated to read directly to at least 0.001 in or 0.01 mm, with each division of a width that facilitates estimation of each measurement to 0.0001 in or 0.001 mm. The maximum and minimum diameters at a given point on the solid conductor are each to be recorded to the nearest 0.0001 in or 0.001 mm, added together, and divided by 2 without any rounding off of the sum or resulting average.

**Table 7.1
Specific table references in UL 1581**

Generic material	Temperature rating	Applicable table of physical properties in UL 1581
PVC	60, 75, 90 and 105C	50.182
CP	75 and 90C	50.1
EPDM	75	50.52
Neoprene	60	50.24
XLPE	105	50.245
XLPO	105	50.245
FEP	150	50.73

Table 7.3
Thicknesses^a of solid insulation (including any skin) in jacketed ribbon cable and in nonintegral round and flat multiple-conductor cable

b) When the smallest conductor in the size range desired is tested for Types CL3P, CL3R, CL3, and CL3X.

^b Measured by means of the micrometer microscope described in [7.3.2](#), the minimum thickness at any point of the nylon or similar covering shall not be less than 0.0020 in (2.0 mils) or 0.050 mm. A covering of a material other than nylon is acceptable in the same thickness as nylon if an engineering evaluation demonstrates that the other material has a temperature rating and flexibility, flammability, and other characteristics critical to the application that provide the particular construction with a comparable covering. Investigation of the mechanical-abuse characteristics is to include at least the crushing, impact, and abrasion comparison tests that are described in the tests Crush Resistance, Impact Resistance, and Abrasion Resistance, in UL 2556.

^c For Class 2: 11 – 6 AWG copper conductors are acceptable only in multiple-conductor jacketed cables (integral or nonintegral) employing the surface marking AUDIO ONLY or as the central conductor in a coaxial member. 6 AWG and smaller copper-clad steel conductors are acceptable only as the central conductor in a coaxial member. Copper-clad steel conductors shall have 21 percent or higher conductivity in accordance with ASTM B 869. ~~CCA wire marked "16 AWG CCA – Suitable for 18 AWG HVAC Thermostat Applications Only" are only for use in HVAC thermostat wire applications. CCA conductors shall have 10 percent or higher conductivity in accordance with ASTM B 566.~~

^d For Class 3: 11 and 10 AWG copper conductors and 10 AWG and smaller copper-clad steel conductors are acceptable only as the central conductor in a coaxial member. Copper-clad steel conductors shall have 21 percent or higher conductivity in accordance with ASTM B 869.

Table 20.1
Maximum acceptable direct-current resistance of solid copper conductors

AWG size of conductor	Uncoated				Coated			
	20°C		25°C		20°C		25°C	
	Ohms per 1000 feet	Ohms per kilometer	Ohms per 1000 feet	Ohms per kilometer	Ohms per 1000 feet	Ohms per kilometer	Ohms per 1000 feet	Ohms per kilometer
16 CCA ^e	N/A	N/A	N/A	N/A	6.13	20.409	6.34	20.80

^a Maximum acceptable resistance (1.02 x nominal) for this size in a Type PLTC cable. See corresponding diameter (0.99 x nominal) in [Table 5.2](#).

^b Maximum acceptable resistance (1.1 x nominal) for this size in all cables other than Type PLTC. See corresponding diameter (0.95 x nominal) in [Table 5.2](#).

^e Suitable for 18 AWG HVAC Thermostat applications only

47 Information on or in the Cable

47.6 Thermostat cables constructed with CCA conductors ~~for Type CL2P, CL2R, CL2, and CL2X multiple-conductor jacketed cables (integral or non-integral)~~ shall be marked "THERMOSTAT CABLE Part #: xxxxxx 16 AWG CCA 2X COND (UL) ~~CL2-60C-E123456~~ - SUITABLE FOR 18 AWG HVAC THERMOSTAT APPLICATIONS ONLY". X represents the number of conductors.

BSR/UL 94, Standard for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances

1. Clarification of Plate Specimen Dimension in Paragraph 9.3.2

PROPOSAL

9.3.2 Bar specimens are to be 125 ± 5 mm long by 13.0 ± 0.5 mm wide, and provided in the minimum thickness. Plate specimens are to be 150 ± 5 mm by 150 ± 5 mm and provided in the minimum thickness. Thicker specimens may also be provided and shall be tested if the results obtained on the minimum thickness indicate inconsistent test results. The maximum thickness is not to exceed 13 mm. Edges are to be smooth, and the radius on the corners is not to exceed 1.3 mm.

Exception: Plate specimens smaller than 150 ± 5 mm by 150 ± 5 mm are acceptable provided that no undesirable influence of heat or combustion around the edge of the specimen exists. This is verified by allowing the tested sample to cool and then using a soft and dry cloth, wipe away soot and/or effluent residue to examine the sample 2 mm away from the edges. Any visual sign of combustion or pyrolysis, or any visual thermal damage such as melting or distortion around the edge of the plate specimen is judged as "burn overflow" and a retest is necessary with bigger plate specimens.

BSR/UL 312-202x, Standard for Check Valves for Fire-Protection Service

1. SCC Approval of Standard for Check Valves for Fire-Protection Service

PROPOSAL

9.3 The dimensions of all flanges~~d, threaded, grooved, shouldered and mechanical joint body end connections flange pipe joints~~, and threaded and flanged body openings shall conform to the following standards, as applicable or to other national standards that apply where the valve is intended to be installed.~~The flange class shall be at least equal to the rated pressure of the valve.~~

- a) Standard for Pipe Threads, General Purpose (Inch), ANSI/ASME B1.20.1.
- b) Standard for Dryseal Pipe Threads (Inch), ANSI/ASME B1.20.3.
- c) Standard for Gray Iron Pipe Flanges and Flanged Fittings (Classes 25, 125, and 250), ANSI/ASME B16.1 (Class 125 or higher).
- d) Standard for Steel Pipe Flanges for Waterworks Service - Sizes 4 In. Through 144 In. (100 mm Through 3,600 mm), ANSI/AWWA C207, for valves having a maximum rated pressure of 175 psig (1.2 MPa); and the Standard for Pipe Flanges and Flanged Fittings NPS 1/2 Through NPS 24 Metric/Inch Standard, ANSI/ASME B16.5, for valves having a maximum rated pressure greater than 175 psig.
- e) ~~Mechanical joint or push-on joint ends for Waterworks Service~~, in the Standard for Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings, ANSI/AWWA C111/A21.11.
- f) Standard for Grooved and Shouldered Joints, ANSI/AWWA C606.

4 Undated References

4.1 Any undated reference to a code or standard appearing in the requirements of this standard shall be interpreted as referring to the latest edition of that code or standard.

4A Normative References

4A.1 The following standards are referenced in this standard, and portions of these referenced standards may be essential for compliance.

American Society of Mechanical Engineers (ASME) Standards

ANSI/ASME B1.20.1
Standard for Pipe Threads, General Purpose (Inch)

ANSI/ASME B1.20.3
Standard for Dryseal Pipe Threads (Inch)

ANSI/ASME B16.1
Standard for Gray Iron Pipe Flanges and Flanged Fittings

ANSI/ASME B16.5
Standard for Pipe Flanges and Flanged Fittings NPS 1/2 Through NPS 24 Metric/Inch Standard

American Society for Testing and Materials (ASTM) Standards

ASTM A 53/A 53M
Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless

ASTM A 135/A 135M
Standard Specification for Electric-Resistance-Welded Steel Pipe

ASTM A 795/A 795M
Standard Specification for Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless Steel Pipe for Fire Protection Use

ASTM A307
Standard Specification for Carbon Steel Bolts and Studs, 60,000 Psi Tensile Strength

ASTM E145
Standard Specification for Gravity-Convection and Forced-Ventilation Ovens

American Water Works Association (AWWA) Standards

ANSI/AWWA C207
Standard for Steel Pipe Flanges for Waterworks Service - Sizes 4 In. Through 144 In.

~~ANSI/AWWA C111/A21.11~~

~~Standard for Rubber Gasket Joints for Ductile Iron Pressure Pipe and Fittings~~

~~ANSI/AWWA C606~~

~~Standard for Grooved and Shouldered Joints~~

National Fire Protection Association (NFPA) Codes and Standards

~~NFPA 11~~

~~Low-, Medium-, and High-Expansion Foam~~

~~NFPA 13~~

~~Installation of Sprinkler Systems~~

~~NFPA 14~~

~~Installation of Standpipe and Hose Systems~~

~~NFPA 15~~

~~Water Spray Fixed Systems for Fire Protection~~

~~NFPA 16~~

~~Installation of Foam-Water Sprinkler and Foam-Water Spray Systems~~

~~NFPA 20~~

~~Installation of Stationary Pumps For Fire Protection~~

~~NFPA 22~~

~~Water Tanks for Private Fire Protection~~

~~NFPA 24~~

~~Installation of Private Fire Service Mains and Their Appurtenances~~

~~NFPA 750~~

~~Water Mist Fire Protection Systems~~

~~NFPA 13R~~

~~Installation of Sprinkler Systems in Residential Occupancies Up to and Including Four Stories in Height~~

UL Standards

~~UL 157~~

~~Standard for Safety for Gaskets and Seals~~

4 Referenced Publications

4.1 Any undated reference to a code or standard appearing in the requirements of this standard shall be interpreted as referring to the latest edition of that code or standard.

4.2 The following standards are referenced in this standard, and portions of these referenced standards may be essential for compliance.

ANSI/ASME B1.20.1, Standard for Pipe Threads, General Purpose (Inch)

ANSI/ASME B1.20.3, Standard for Dryseal Pipe Threads (Inch)

ANSI/ASME B16.1, Standard for Gray Iron Pipe Flanges and Flanged Fittings

ANSI/ASME B16.5, Standard for Pipe Flanges and Flanged Fittings NPS 1/2 Through NPS 24 Metric/Inch Standard

ASTM A 53/A 53M, Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless

ASTM A 135/A 135M, Standard Specification for Electric-Resistance-Welded Steel Pipe

ASTM A 795/A 795M, Standard Specification for Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless Steel Pipe for Fire Protection Use

ASTM A307, Standard Specification for Carbon Steel Bolts and Studs, 60,000 Psi Tensile Strength

ASTM E145, Standard Specification for Gravity-Convection and Forced-Ventilation Ovens

ANSI/AWWA C207, Standard for Steel Pipe Flanges for Waterworks Service - Sizes 4 In. Through 144 In.

ANSI/AWWA C111/A21.11, Standard for Rubber-Gasket Joints for Ductile-Iron Pressure Pipe and Fittings

ANSI/AWWA C606, Standard for Grooved and Shouldered Joints

NFPA 11, Low-, Medium-, and High-Expansion Foam

NFPA 13, Installation of Sprinkler Systems

NFPA 14, Installation of Standpipe and Hose Systems

NFPA 15, Water Spray Fixed Systems for Fire Protection

NFPA 16, Installation of Foam-Water Sprinkler and Foam-Water Spray Systems

NFPA 20, Installation of Stationary Pumps For Fire Protection

NFPA 22, Water Tanks for Private Fire Protection

NFPA 24, Installation of Private Fire Service Mains and Their Appurtenances

NFPA 750, Water Mist Fire Protection Systems

NFPA 13R, Installation of Sprinkler Systems in Residential Occupancies Up to and Including Four Stories in Height

UL 157, Standard for Safety for Gaskets and Seals

UL 962A Standard for Safety for Furniture Power Distribution Units

1. Standardize Spill Test Procedure in UL 962A to Align with UL 962

PROPOSAL

43.1 A FPDU shall be subjected to the test described in this section and, after the testing, shall be subjected to the Dielectric Voltage-Withstand Test, [Section 30](#), 1 minute after the container is tipped over.

Exception No. 1: When the instructed installation of the FPDU is for it to be mounted above the furnishing surface and oriented such that spilled liquid on the furnishing surface cannot enter any part of the FPDU, these requirements do not apply.

Exception No. 2: When the FPDU is provided with a portable GFCI Class A that complies with the Standard for Ground-Fault Circuit-Interrupters, UL 943, and the GFCI is located at the attachment plug or within 12 in (305 mm) of the attachment plug compliance with the spill test is not required.

5. Clarification of the Allowance of Star and Branch Configurations

PROPOSAL

[SD2.1A CONNECTOR BLOCK - A power connector with one interconnecting inlet and 1 or more interconnecting outlets intended to enable the interconnection of multiple FPDU enclosures in star and branch type configurations.](#)

SD9.5.1 ~~The~~ [interconnecting inlets](#) and any outlet(s) shall be permanently attached to the [FPDU enclosures and integral to the connector blocks](#) of a FPDU for a movable work space table.

9. Clarification of FPDU Length

PROPOSAL

[SD20.7 The instructions of an FPDU shall include instructions not to exceed 50ft in length from the face of the power supply cord attachment plug to the furthest surface of the furthest FPDU enclosure.](#)

10. Clarification of Subordinate Supplementary Overcurrent Protection

PROPOSAL

SD10.3.2 The maximum rating of any included subordinate supplementary overcurrent protection is indicated in Table SD5.1, ~~however to provide proper discrimination, it is recommended that s~~Subordinate supplementary overcurrent protection, [if provided, shall](#) ~~does~~ not exceed the FPDU primary supplementary overcurrent protection rating.

12. Detachable Power Supply Cord

PROPOSAL

SD1.6 The requirements of this Supplement also address separable interconnecting cords, [interchangeable power supply cords](#) ~~and detachable~~ and nondetachable power supply cords intended for use only with FPDUs for a movable work space table and customizable in length and in connection for various work space table arrangements.

SD2.3 [NON-DETACHABLE POWER SUPPLY CORD](#) – A length of flexible cord with an attachment plug at one end and individual insulated conductors intended for termination within an FPDU enclosure ~~or to at least one cord connector, as defined in SD9.4~~. It may have additional components such as an integral strain relief bushing or individual terminals.

SD2.3A INTERCHANGEABLE POWER SUPPLY CORD – A length of flexible cord with an attachment plug at one end, at least one cord connector as defined in SD9.4, and in addition include integrated primary supplementary overcurrent protection, which is placed ahead of any split in the cable if there are multiple cord connectors.

SD2.5 PRIMARY FPDU ENCLOSURE – An FPDU enclosure intended for direct connection to the branch circuit receptacle outlet and which contains the primary supplementary overcurrent protection device and a non-detachable power supply cord. The primary FPDU enclosure may also be interconnected to subordinate FPDU enclosures.

SD4.2 The FPDU for a movable work space table may be comprised of:

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

SD4.3 The power supply cord of a ~~primary~~ FPDU ~~enclosure~~ for a movable work space table is not intended to be connected to any extension cord, relocatable power tap or to any other device or equipment.

SD5.2 A FPDU for a movable work space table shall be provided with primary supplementary overcurrent protection to protect the entire FPDU power circuit.

A FPDU that has capability to interconnect its primary FPDU enclosure to one or more subordinate FPDU enclosures may also be provided with supplementary overcurrent protection to protect the receptacle(s) contained within the primary FPDU enclosure.

The primary supplementary overcurrent protection can be located in the attachment plug head of the power supply cord; inline in the power supply cord; in the cord connector of ~~a detachable~~ an interchangeable power supply cord, unless the interchangeable power supply cord has multiple cord connectors in which case the primary supplementary overcurrent protection must be ahead of any split in the cord; or in the Primary FPDU Enclosure where the power supply cord is non detachable.

SD5.3 A FPDU for a movable work space table that has capability to interconnect FPDU enclosures may also be provided with supplementary overcurrent protection at ~~the~~ each FPDU enclosure to protect the receptacle(s) contained within each ~~subordinate~~ FPDU enclosure.

SD9.1.3 The minimum ampere rating of the attachment plug of a separable ~~detachable~~ interconnecting cord and interconnecting flanged outlet on an enclosure of a FPDU for a movable work space table shall be as indicated in Table SD5.1. The minimum ampere rating of the cord connector of an interchangeable power supply cord or a separable interconnecting ~~a detachable~~ cord and interconnecting inlet on an enclosure of a FPDU for a movable work space table shall be as indicated in Table SD5.1.

SD9.2.4 An interchangeable ~~detachable~~ power-supply cord cord-connector and inlet shall employ a latch, locking collar, or the like, to prevent unintentional separation. Compliance is checked by Section SD18, Latching Test.

SD9.2.5 An interchangeable power-supply cord cord-connector shall comply with the requirements in 9.4 applying to a cord connector on a detachable interconnecting cord.

SD19.4 A detachable [interconnecting cord or interchangeable power supply](#) cord shall be marked with a cord tag that complies with UL 962A, [53.2](#) through [53.4](#) shall be marked with "WARNING: Risk of Fire – These devices are intended for use only with the same model and manufacturer of product from _____ (Manufacturer's name) same line of FPDU for a movable work space table" or an equivalent statement. The marking shall be adjacent to the interconnecting male fitting or connector or, for [an interchangeable](#) ~~a detachable~~ power supply cord, next to the female cord connector.

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BSR/UL 1090 Standard for Safety for Electric Snow Movers

1. Revise cold testing to be harmonized with ISO 8437 and ANSI B71.3

PROPOSAL

25.3 If the component is nonmetallic material, the Drop Test is to be performed on the sample or samples in the as-received condition. The test is then to be repeated on:

- a) A different sample or samples that have been in an air oven for 7 hours at a uniform temperature not less than 10°C (18°F) higher than the maximum operating temperature of the material measured under normal operating conditions, but not less than 70°C (158°F), see 25.4; and
- b) On samples that have been conditioned at a minimum temperature of minus 3520°C (minus 314°F) or lower as recommended by the manufacturer for 7 hours.

The samples conditioned at the temperature in (a) are not to be tested until they have returned to room temperature.

36.2 The conditioning mentioned in 36.1 is to consist of placing the snow mover for 7 hours in an air-circulating oven at a temperature that is 10°C (18°F) more than the temperature attained by the handle under conditions of intended operation, but not less than 70°C (158°F), and for 7 hours in an air-circulating chamber at a minimum temperature of minus 3520°C (minus 314°F) or lower as recommended by the manufacturer.

44.2.2 Immediately after being conditioned for 7 hours in an air-circulating chamber at a minimum temperature of minus 3520°C (minus 314°F) or lower as recommended by the manufacturer, a snow mover is to be subjected to the impact described in 44.2.4 – 44.2.6.

45.2.1 Immediately after being conditioned for 7 hours in an air-circulating chamber at a minimum temperature of minus 3520°C (minus 314°F) or lower as recommended by the manufacturer, a snow mover shall be subjected to the impact tests described in 44.2.4 – 44.2.6, and evaluated in accordance with 44.2.2 and 44.2.3.

SA2.2 With respect to the instructions in Indent Instructions, Annex D of the Standard for General Requirements for Battery-Powered Appliances, UL 2595, the following shall be applied to battery-operated snow movers:

- a) Indent B – Users are not considered to be wet during the use of a battery-operated snow mover.

- b) Indent C – The specification for the battery is ELT: minimum -3520°C or lower as recommended by the manufacturer.
- c) Indent D – No special considerations are required.
- d) Indent E – The temperature limits specified in UL 2595 are considered suitable.
- e) Indent F – No special considerations are required.
- f) Indent G – Additional or alternative Safety Critical Functions (SCFs) are specified in Table SA2.1. If the safety of the electronic control circuit has been evaluated in accordance with the functional safety requirements in UL 2595, then the safety of the electronic circuit complies with the requirements of this Standard.
- g) Indent H – The Impact Test shall be conducted on concrete.
- h) Indent I – The products specified in SA2.3 shall have the switching arrangement as specified.
- i) Indent J – A battery operated snow remover that may also be operated or charged by mains or a non-isolated source as described in UL 2595, shall also comply with the requirements of this Standard that apply to the risk of electric shock. For a battery-operated snow mover, the exempted requirements in SA2.1 may be applicable.

BSR/UL 2034, Standard for Safety for Single and Multiple Station Carbon Monoxide Alarms

PROPOSAL

1. One Year Sensor Stability Test for CO Sensors

(NEW)

44A One Year (minimum) Sensor Stability Test for CO Sensors

44A.1 General

44A.1.1 A minimum fifteen samples of the carbon monoxide (CO) sensor shall be placed within a closed chamber (test fixture) that shall allow for the following:

- a) Logging of the manufacturer's defined sensor output parameters;
- b) Control of the rate of CO gas injection to reach the target gas concentration within 3 minutes;
- c) Recommended/supporting electronic detection circuitry, which shall be supplied by the sensor manufacturer for each gas sensor under test;
- d) Application of the target CO gas concentration for a minimum of one year as follows:
 - 1) For sensors intended to detect CO, all sensors shall be exposed to a minimum of 15 \pm 3 ppm of CO for a minimum of one year.
 - 2) For a CO gas sensor that is intended to detect more than one gas, the manufacturer shall identify each specific gas type that the sensor is intended to detect;
 - 3) Sensor data from the manufacturer shall be provided demonstrating the sensor's performance when subject to each gas specified in item (2).

(NEW)

44A.2 Test Gas

44A.2.1 The test CO gas concentration that envelopes the CO sensor shall be maintained as follows:

- a) If the target CO gas concentration flows directly from a gas cylinder onto the sensor, i.e., using a calibration cup provided by the manufacturer, the gas cylinder shall be accurate within \pm 2 % of the target concentration. The calibration record for the gas cylinder shall be based on the country specific traceability standard, or
- b) If the sensors are placed within a test chamber with the test CO gas diluted within the chamber to reach the target gas concentration, the CO gas concentration within the test chamber shall be maintained to within +20, -5 % of the target gas concentration.

c) For items (a) and (b), the manufacturer shall demonstrate that the gas flow across the sensor or air movement within the chamber shows the:

1) Airflow is sufficient to uniformly mix the gas,

2) Airflow does not exceed 16 ± 7 ft/min ($4.88 \text{ m} \pm 2.1 \text{ m/min}$) or,

3) Airflow, if in excess of item (c) (2), may be increased or decreased but only if the change in airflow is verified to not affect the intended operation or manufacturer's performance specifications for the sensor. The increase in air flow shall only be used to provide a more homogeneous mixture of the test and/or target CO gas which may be heavier or lighter than air, thus requiring a change in airflow. The airflow shall be set to the minimum level necessary to maintain a homogeneous mixture of the target CO gas.

d) The relative humidity for the test CO gas that envelopes the sensor or environment that the sensor is within shall be maintained at 50 ± 20 % for the duration of the test.

e) The temperature for the test CO gas that envelopes the sensor or environment that the sensor is within shall be maintained at 23 ± 3 °C (73.4 ± 5.4 °F) for the duration of the test.

f) For manufacturer temperature and humidity specifications in excess of (d) and (e), ambient test conditions may also be conducted based on the manufacturer's specifications.

g) If the manufacturer's sensor specification document identifies recommended temperature and/or humidity compensation in excess of (d) and (e), then the tests noted within 44A shall also be conducted:

1) For a minimum of one year at the temperature and relative humidity as specified by the manufacturer;

2) With the manufacturer's provided compensation circuitry for each sensor.

h) If required by the CO gas supplier, gas cylinder maintenance procedures for CO gases that have a life expectancy or scheduled maintenance shall be provided.

44A.2.2 For target CO gas concentrations exceeding 0.04 % of the total gas concentration, Oxygen (O₂) measurements shall be recorded to demonstrate that the O₂ concentration remains at 20.9 %.

44A.2.3 The balance gas, either in the gas cylinder or within the test chamber, shall be as follows:

a) The sensor manufacturer shall identify the gas type, gas concentration and the balance gas concentration(s) that the sensor is intended to be subject to during normal operation;

b) For balance gas identified as "clean air," it shall be verified to consist of a composition not exceeding – 20.9 % O₂ (Oxygen) – Balance N₂ (Nitrogen). With a target gas concentration as specified in 44A.2.2, the gas cylinder calibration certificates may be used to verify that the balance gas used in the gas tests defined in 44A.2.1 (a) and (b) are representative of clean air or the manufacturer's defined balance gas.

44A.2.4 If the test gas concentrations and performance of the CO sensor is not altered or impaired, the sensor manufacturer may provide alternative gas injection, gas maintenance, target gas and balance gas

concentrations, methods, and ambient test conditions in addition to the requirements outlined within section 44A.4.

(NEW)

44A.3 Sensor Data Collection

44A.3.1 Each CO sensor shall be energized with the manufacturer's recommended electronic circuit design. This electronic circuit shall be included as supporting hardware for each sensor. The analog and/or digital output measurements/data from the sensor/circuit and gas analyzer (when used) shall be recorded at least once every 15 minutes for the test duration with the minimum data:

- a) Recorded and maintained in a format that is agreed between the test organization and manufacturer, and
- b) The test method and data collection shall be reviewed by the test organization at least once every thirty days (monthly) for the duration of the test program.

44A.3.2 The sensor data shall include but may not be limited to:

- a) All gas cylinder(s) calibration details that include gas supplier, cylinder identification, gas tolerance, CO gas concentration and balance gas concentration and,
- b) All ambient environmental test conditions as specified in 44A.4 and,
- c) Unedited (raw), analog and/or digital output measurements/data from the sensor/circuit and,
- d) Where applicable, converted data that correlates the sensor/circuit data to the intended gas concentration and,
- e) Calibrated reference analyzer data (if applicable),

44A.3.3 The manufacturer shall provide the necessary information to convert the analog and/or digital output measurements/data from the sensor to a correlated test gas concentrations. This information shall also be provided in the manufacturer's specification documentation included with the sensor.

44A.4.3. If the test CO gas concentrations and performance of the sensor are not affected, the sensor manufacturer may provide alternative data collection methods and equipment to those defined in 44A.3.1 through 44A.3.3.

(NEW)

44A.4 CO Sensor Sensitivity Test

44A.4.1 At the start and end of the one-year test, and at least once monthly, the sensitivity of each sensor shall be checked and recorded as follows:

- a) 0 ppm (clean air, 20.9 % O₂ – Balance N₂) or within the tolerance accuracy of the gas monitoring device(s), and
- b) CO sensors shall be exposed to the test gas concentrations as defined in the Sensitivity Test, Section 41;
- c) Maximum test CO gas concentration defined by the manufacturer.

44A.4.2 The sensor shall be subjected to the test CO gas requirements specified in 44A.1 through 44A.4 and 44A.4.1 for a minimum duration of one year.

44A.4.3 The CO sensor drift for all sensors shall not exceed the CO sensors' specified tolerance ranges:

- a) In clean air and/or,
- b) When exposed to CO gas over the course of one year and/or,
- c) When subjected to each ambient environmental condition.

44A.4.4 The manufacturer's sensor documentation shall be provided with each sensor or with each batch of sensors and include the following:

- a) The CO sensor's specified tolerance and/or
- b) If applicable, a custom calculation method required to verify the CO sensor's sensitivity performance. This calculation method shall be used to verify that the test data collected during performance testing remains within the manufacturer's defined limits which are based on its custom sensitivity calculation method.

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These affected changes are as follows:

Section 2.2: Shall statement revised:

2.2 Samples Tested

Collect 3 samples of each tank design series. All of the tests shall be performed in the order listed on at least one sample of each tank design series submitted.

Section 2.3: Shall statement revised:

2.3 Drawings

Assembly and installation drawings and any other data necessary to determine compliance with this standard shall accompany the device submitted to the testing agency including maximum working pressure and the lowest expected pre-charge pressure.

Section 4 Minimum Construction Performance Design Method Criteria

was moved to informative Annex A.