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# Project Initiation Notification System (PINS)

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

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## AHAM (Association of Home Appliance Manufacturers)

Greg Woyczynski <[GWoyczynski@aham.org](mailto:GWoyczynski@aham.org)> | 1111 19th Street NW, Suite 402 | Washington, DC 20036 [www.aham.org](http://www.aham.org)

### ***New Standard***

BSR/AHAM RAC-2-202x, Performance of Room Air Conditioners (new standard)

Stakeholders: Manufacturers of room air conditioners; testing laboratories; consumers.

Project Need: Lack of standard for rating room heat pump efficiency, lack of standard for quantifying sound for room air conditioner/heat pump

Interest Categories: Participants from diverse interest categories will be sought. The categories will include (1) users, (2) producers, and (3) general interest.

This standard establishes uniform and standard methods characterizing performance of room air conditioners/heat pumps. RAC-2 provides a means for measurement of heating efficiency and sound power. The standard is not intended to inhibit improvement and innovation in product testing, design or performance.

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

Karl Best <[kbest@ahrinet.org](mailto:kbest@ahrinet.org)> | 2311 Wilson Boulevard, Suite 400 | Arlington, VA 22201-3001 [www.ahrinet.org](http://www.ahrinet.org)

### ***New Standard***

BSR/AHRI Standard 600-202x (SI/I-P), Standard for Performance Rating of Water/Brine to Air Heat Pump Equipment (new standard)

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

Project Need: Develop a new test and rating standard for commercial and residential water/brine to air heat pumps.

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

Scope of the standard includes IEER calculation, blower minimum external static pressure, heat pump setup, test procedure and test provisions, and testing provisions regarding specific components. Out of scope: heat pumps covered by AHRI Standard 340/360; heat pumps covered by AHRI Standard 1230; heat pumps covered by AHRI Standard 550/590.

## **BOMA (Building Owners and Managers Association)**

Kia Lor <[klor@boma.org](mailto:klor@boma.org)> | 1101 15th Street, NW, Suite 800 | Washington, DC 20005 [www.boma.org](http://www.boma.org)

### **Revision**

BSR/BOMA Z65.3-202x, Gross Areas: Standard Methods of Measurement (revision of ANSI/BOMA Z65.3-2018)  
Stakeholders: Property owners, property managers, facility managers, brokers, appraisers, assessors, lenders, insurers, developers, construction and design professionals, and others who need unequivocal, direct measurement of the physical size of an office building.

Project Need: Work will be done to update drawings, clarify definitions, and strengthen methodologies contained within the existing standard.

Interest Categories: Producers, users, and general interests.

The BOMA Gross Areas Standard was developed in direct response to requests for a floor measurement standard that could be applied to all building types and forms of occupancy—office, industrial, retail, multiunit residential, mixed-use and campus-style facilities. The purpose of the Gross Areas Standard is to provide a comprehensive and consistent methodology for measuring all building types while presenting the data in various ways that are useful to the stakeholders of any given property.

## **ICC (International Code Council)**

Karl Aittaniemi <[kaittaniemi@iccsafe.org](mailto:kaittaniemi@iccsafe.org)> | 4051 Flossmoor Road | Country Club Hills, IL 60478 [www.iccsafe.org](http://www.iccsafe.org)

### **New Standard**

BSR/ICC/THIA 1215-202x, Design, Construction, Inspection and Regulation of Tiny Houses for Permanent Occupancy (new standard)

Stakeholders: Tiny house builders, building code officials, building product manufacturers, architects, engineers, third-party plan review and inspection agencies, consumer advocates, homeowners and renters.

Project Need: Tiny houses are growing in popularity as communities look to address affordable housing issues and home buyers are looking for new housing options. This standard will codify existing requirements for the design, construction, inspection and certification of tiny houses used as permanent dwellings into a single standard and address identified gaps in available requirements for foundations and chassis. The 2021 International Residential Code (including Appendix AQ), and ICC/MBI Standards 1200 and 1205 will serve as the initial base documents with references to other existing standards.

Interest Categories: Manufacturer, Builder, Standards Promulgator/Testing Laboratory, User, Utility, Consumer, Public Segment, Government Regulator, Insurance

This standard will provide minimum requirements for the design, construction, inspection, certification, and regulatory compliance of tiny houses used for permanent occupancy to assure public safety, sustainability, and resilience. The standard will include: consensus definitions for tiny houses and related terminology; prescriptive and performance based compliance methods for tiny house foundations and chassis; and plan review, inspection and certification requirements for tiny houses constructed onsite and off-site. The standard will address tiny houses built on a foundation and those with wheels and a permanent chassis intended for permanent occupancy. The 2021 International Residential Code (including Appendix AQ), and ICC/MBI Standards 1200 and 1205 will serve as the initial base documents with references to other existing standards. The standard will be written in mandatory code-intended language to support use by manufacturers and adoption by jurisdictions globally. This standard will not address tiny houses used for temporary or seasonal occupancy, or tiny house community development or microgrids.

## **MHI (Material Handling Industry)**

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### **Revision**

BSR MH31.2-202X, Test Method for Crash Testing Industrial Guardrail Barriers and Barrier Posts (revision of ANSI MH31.2-2021)

Stakeholders: Manufacturers, distributors, regulators, testing facilities, and other related stakeholders in the material handling industry.

Project Need: This project is being implemented to make specific revisions to ANSI MH31.2-201; namely, modifying the velocity tolerances at low-speed test conditions and specifications on concrete strength.

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

This standard provides a test method of evaluating performance characteristics for industrial guardrail barriers and barrier posts. Industrial guardrail barriers and barrier posts are commonly utilized within industrial and warehouse environments to safeguard against unwanted interactions with, or provide added protection against potential impacts from, passing industrial vehicle traffic. These devices are typically mounted directly to the ground-level concrete floor slab at a safe distance away from pedestrian aiseways, vital equipment, or critical infrastructure. Prior to the adaptation of this standard, no standardized test method had been established to assess the crash performance of these devices. Over the years, many manufacturers and suppliers of these products have performed independent testing based on a wide range of non-standardized parameters. The findings from these personalized tests have been published in marketing literature or data sheets aimed at assisting consumers with the selection process prior to purchase. It is important to note that ratings achieved in accordance with this procedure are based strictly on the criteria outlined herein. Performance under conditions other than those specifically tested may vary significantly. The test method outlined draws a distinct parallel to existing test methods due to the functional similarities and desired measure of performance. For the purposes of this proposed standard, the surrogate test vehicle mass and impact velocities are revised to represent powered industrial truck impacts consistent with material handling operations.

## **NEMA (ASC C12) (National Electrical Manufacturers Association)**

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### **National Adoption**

BSR C12/IEC 62056-5-3 ED4-202x, Electricity metering data exchange - The DLMS/COSEM suite - Part 5-3: DLMS/COSEM application layer (identical national adoption of IEC 62056-5-3 ED4 and revision of ANSI C12/IEC 62056-5-3 ED3-2019)

Stakeholders: Meter manufacturers, Electric Utilities, Meter Test agencies.

Project Need: Revision to follow IEC Standard update.

Interest Categories: Users, Producers, and General Interest members

This part of IEC 62056 specifies the DLMS/COSEM application layer in terms of structure, services and protocols for DLMS/COSEM clients and servers, and defines rules to specify the DLMS/COSEM communication profiles. It defines services for establishing and releasing application associations, and data communication services for accessing the methods and attributes of COSEM interface objects, defined in IEC 62056-6-2 using either logical name (LN) or short name (SN) referencing.

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**National Adoption**

BSR C12/IEC 62056-6-1 ED4-202x, Electricity metering data exchange - The DLMS/COSEM suite - Part 6-1: Object Identification System (OBIS) (identical national adoption of IEC 62056-6-1 ED4 and revision of ANSI/IEC 62056-6-1 ED3-2019)

Stakeholders: Meter manufacturers, Electric Utilities, Meter test agencies.

Project Need: Revision to update national adopted standard to match the revised IEC standard.

Interest Categories: Users, Producers, General Interest.

This part of IEC 62056 specifies the overall structure of the OBject Identification System (OBIS) and the mapping of all commonly used data items in metering equipment to their identification codes. OBIS provides a unique identifier for all data within the metering equipment, including not only measurement values, but also abstract values used for configuration or obtaining information about the behaviour of the metering equipment.

**NEMA (ASC C12) (National Electrical Manufacturers Association)**

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**National Adoption**

BSR C12/IEC 62056-6-2 ED4-202x, Electricity metering data exchange - The DLMS/COSEM suite - Part 6-2: COSEM interface classes (identical national adoption of IEC 62056-6-2 ED4 and revision of ANSI C12/IEC 62056-6-2 ED3-2019)

Stakeholders: Meter manufacturers, Utilities, Meter test agencies.

Project Need: Update identical national adoption with revised IEC standard.

Interest Categories: Users, Producers, General Interest.

This part of IEC 62056 specifies a model of a meter as it is seen through its communication interface(s). Generic building blocks are defined using object-oriented methods, in the form of interface classes to model meters from simple up to very complex functionality.

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

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**New Standard**

BSR/C137.11-202X, Standard for Lighting Systems - Configuration Requirements for Networked Lighting Control Systems that Respond to Grid Signals (new standard)

Stakeholders: Producers, Users, General Interest

Project Need: This project is needed as there is a gap in current standards to facilitate connecting and coordinating multiple building loads to participate in DR events or other grid services. As a result, buildings enrolled in the current DR programs typically only use a large single load, such as process load or HVAC load, to participate in DR events. Existing demand response standards primarily address Demand Response (DR) event dispatching from the grid to the building, but not the dispatching and coordination of different loads within the building, including lighting systems and the increasingly prevalent on-site generation and storage.

Interest Categories: Producers, Users, General Interest

This standard defines requirements for networked lighting control systems that modify demand in response to grid signals, that may be communicated to the system from a Building Management System (BMS), directly from the grid, or from other external sources. These demand modifications are distinct from other control strategies implemented by networked lighting control systems, such as occupancy and daylighting. This standard specifies configuration requirements and does not specify the communication protocol or handling of confidential information. The demand modifications made by the networked lighting control system may additionally affect loads other than lights.

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

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**Reaffirmation**

BSR/TAPPI T 230 om-2013 (R202x), Viscosity of pulp (capillary viscometer method) (reaffirmation of ANSI/TAPPI T 230 om-2013 (R2019))

Stakeholders: Manufacturers of pulp, paper, packaging, or related products, consumers or converters of such products, and suppliers of equipment, supplies, or raw materials for the manufacture of such products.

Project Need: To conduct required five-year review of an existing TAPPI/ANSI Standard.

Interest Categories: Producers, Converters, Suppliers of chemical/raw materials, Suppliers of manufacturing equipment, Service and general suppliers, Commercial users, Marketers and Commercial Sellers, Consultants, Educators, General Interest

This method describes a procedure for determining the viscosity of 0.5% cellulose solutions, using 0.5M cupriethylenediamine (CED) as a solvent and a capillary viscometer. Measurements may be made on bleached cotton and wood pulps. Conventional kraft pulps with up to 4% lignin, as defined by TAPPI T 222 "Acid-Insoluble Lignin in Wood and Pulp" can also be analyzed. The applicability of this procedure to extended delignification pulps has not been determined.

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**Reaffirmation**

BSR/TAPPI T 240 om-2020 (R202x), Consistency (concentration) of pulp suspensions (reaffirmation of ANSI/TAPPI T 240 om-2020)

Stakeholders: Manufacturers of pulp, paper, packaging, or related products, consumers or converters of such products, and suppliers of equipment, supplies, or raw materials for the manufacture of such products.

Project Need: To conduct required five-year review of an existing TAPPI/ANSI Standard.

Interest Categories: Producers, Converters, Suppliers of chemical/raw materials, Suppliers of manufacturing equipment, Service and general suppliers, Commercial users, Marketers and Commercial Sellers, Consultants, Educators, General Interest

- 1.1 This method describes the measurement of pulp consistency (concentration) of aqueous fiber suspensions.
- 1.2 The method applies to most pulps sampled from different process points in a pulp or paper mill.
- 1.3 The method is applicable to pulps with up to 25% consistency.

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**Reaffirmation**

BSR/TAPPI T 282 om-2013 (R202x), Hexeneuronic acid content of chemical pulp (reaffirmation of ANSI/TAPPI T 282 om-2013 (R2019))

Stakeholders: Manufacturers of pulp, paper, packaging, or related products, consumers or converters of such products, and suppliers of equipment, supplies, or raw materials for the manufacture of such products.

Project Need: To conduct required five-year review of an existing TAPPI/ANSI Standard.

Interest Categories: Producers, Converters, Suppliers of chemical/raw materials, Suppliers of manufacturing equipment, Service and general suppliers, Commercial users, Marketers and Commercial Sellers, Consultants, Educators, General Interest

This method describes a procedure to determine hexeneuronic acid groups (HexA) in chemical pulps. HexA affects the kappa number determination by reaction with permanganate, and can react with certain bleaching chemicals, e.g. chlorine dioxide and ozone, but not with some others such as oxygen and peroxide.

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**Reaffirmation**

BSR/TAPPI T 410 om-2013 (R202x), Grammage of paper and paperboard (weight per unit area) (reaffirmation of ANSI/TAPPI T 410 om-2013 (R2019))

Stakeholders: Manufacturers of pulp, paper, packaging, or related products, consumers or converters of such products, and suppliers of equipment, supplies, or raw materials for the manufacture of such products.

Project Need: To conduct required five-year review of an existing TAPPI/ANSI Standard.

Interest Categories: Producers, Converters, Suppliers of chemical/raw materials, Suppliers of manufacturing equipment, Service and general suppliers, Commercial users, Marketers and Commercial Sellers, Consultants, Educators, General Interest

1.1 In the United States the customary or commercial term for expressing the "weight" per unit area (more properly "mass per unit area") of paper has been "basis weight," "ream weight," or "substance." These are defined as the mass in pounds of a ream of a given sheet size and number of sheets (usually 500 sheets, occasionally 480 sheets). In most other countries the mass per unit area is expressed in grams per square meter, g/m<sup>2</sup>. The French term for mass per unit area, "grammage," is recommended by ISO Committee TC 6 on Paper for use in English as well as in French because of its convenience and clear relationship to g/m<sup>2</sup>.

1.2 The mass per unit area of paperboard has been expressed in the customary system as the mass in pounds per thousand square feet, and in the metric system as grams per square meter (g/m<sup>2</sup>).

1.3 The SI metric units, in which grammage (mass per unit area) is expressed in g/m<sup>2</sup>, are the preferred units for TAPPI Test Methods.

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

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**Reaffirmation**

BSR/TAPPI T 453 sp-2013 (R202x), Effect of dry heat on properties of paper and board (reaffirmation of ANSI/TAPPI T 453 sp-2013 (R2020))

Stakeholders: Manufacturers of pulp, paper, packaging, or related products; consumers or converters of such products[ and suppliers of equipment, supplies, or raw materials for the manufacture of such products.

Project Need: To conduct required five-year review of an existing TAPPI/ANSI Standard.

Interest Categories: Producers, Converters, Suppliers of chemical/raw materials, Suppliers of manufacturing equipment, Service and general suppliers, Commercial users, Marketers and Commercial Sellers, Consultants, Educators, General Interest

1.1 This practice specifies the procedure for dry heat treatment of paper or board, and the general procedure for testing the heat-treated materials. The purpose is to obtain, by an accelerated aging test, inferences regarding the aging qualities of the paper.

1.2 The practice is based on work that has been done with printing and writing papers, but it may be used with discretion on other types of papers and boards.

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**Reaffirmation**

BSR/TAPPI T 496 sp-2013 (R202x), Specimen preparation for cross directional internal tearing resistance for paper, paperboard and related materials (reaffirmation of ANSI/TAPPI T 496 sp-2013 (R2019))

Stakeholders: Manufacturers of pulp, paper, packaging, or related products, consumers or converters of such products, and suppliers of equipment, supplies, or raw materials for the manufacture of such products.

Project Need: To conduct required five-year review of an existing TAPPI/ANSI Standard.

Interest Categories: Producers, Converters, Suppliers of chemical/raw materials, Suppliers of manufacturing equipment, Service and general suppliers, Commercial users, Marketers and Commercial Sellers, Consultants, Educators, General Interest

1.1 This practice is used for the preparation of test specimens for the internal tearing resistance of paper, board, and related materials when a force is applied perpendicular to the machine direction. Materials whose structures are highly directional cannot be properly tested in their cross direction according to TAPPI T 414 "Internal Tearing Resistance of Paper (Elmendorf-Type Method)," because, as a rule, the tear turns toward the machine direction as it proceeds. Consequently, it is usually impossible to make a test tear of such a material truly in the cross direction. This practice has been devised to permit the tear to proceed as it will, but more or less limits the extent of the tear to the prescribed 43 mm.

1.2 For the sake of uniformity, this procedure may be used to determine the tearing resistance in the machine direction.

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**Reaffirmation**

BSR/TAPPI T 527 om-2013 (R202x), Color of paper and paperboard (d/0, C/2) (reaffirmation of ANSI/TAPPI T 527 om-2013 (R2020))

Stakeholders: Manufacturers of pulp, paper, packaging, or related products, consumers or converters of such products, and suppliers of equipment, supplies, or raw materials for the manufacture of such products.

Project Need: To conduct required five-year review of an existing TAPPI/ANSI Standard.

Interest Categories: Producers, Converters, Suppliers of chemical/raw materials, Suppliers of manufacturing equipment, Service and general suppliers, Commercial users, Marketers and Commercial Sellers, Consultants, Educators, General Interest

1.1 This method specifies a procedure for measuring the color of paper or paperboard with tristimulus filter colorimeters or spectrophotometers incorporating diffuse/0 geometry and CIE (International Commission on Illumination) illuminant C.



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**Reaffirmation**

BSR/TAPPI T 545 om-2020 (R202x), Cross-machine grammage profile measurement (gravimetric method) (reaffirmation of ANSI/TAPPI T 545 om-2020)

Stakeholders: Manufacturers of pulp, paper, packaging, or related products; consumers or converters of such products; and suppliers of equipment, supplies, or raw materials for the manufacture of such products.

Project Need: To conduct required five-year review of an existing TAPPI/ANSI Standard.

Interest Categories: Producers, Converters, Suppliers of chemical/raw materials, Suppliers of manufacturing equipment, Service and general suppliers, Commercial users, Marketers and Commercial Sellers, Consultants, Educators, General Interest

1.1 This method describes a procedure which can be applied to determine the variation in mass per unit area in the cross-machine direction, commonly referred to as the grammage (or basis weight) profile. This method is appropriate for the acceptance testing of both the papermaking process and the product.

1.2 This method is laborious, but it is reliable and accurate. It requires simple, well-defined operations: cutting out samples, weighing samples, and data evaluation.

1.3 The general procedures outlined in TAPPI T 410 "Grammage of Paper and Paperboard (Weight Per Unit Area)" and in TAPPI T 402 "Standard Conditioning and Testing Atmospheres for Paper, Board, Pulp Handsheets, and Related Products" are used as basic references for this method.

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**Reaffirmation**

BSR/TAPPI T 812 om-2013 (R202x), Ply separation of solid and corrugated fiberboard (wet) (reaffirmation of ANSI/TAPPI T 812 om-2013 (R2019))

Stakeholders: Manufacturers of pulp, paper, packaging, or related products, consumers or converters of such products, and suppliers of equipment, supplies, or raw materials for the manufacture of such products.

Project Need: To conduct required five-year review of an existing TAPPI/ANSI Standard.

Interest Categories: Producers, Converters, Suppliers of chemical/raw materials, Suppliers of manufacturing equipment, Service and general suppliers, Commercial users, Marketers and Commercial Sellers, Consultants, Educators, General Interest

This method describes a laboratory test for evaluating the resistance to ply separation of solid or corrugated fiberboard after exposure to water. It is intended primarily to distinguish between boards fabricated with weather-resistant adhesives and those with nonweather-resistant adhesives.

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

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**Reaffirmation**

BSR/TAPPI T 1200 sp-2014 (R202x), Interlaboratory evaluation of test methods to determine TAPPI repeatability and reproducibility (reaffirmation of ANSI/TAPPI T 1200 sp-2014 (R2020))

Stakeholders: Manufacturers of pulp, paper, packaging, or related products, consumers or converters of such products, and suppliers of equipment, supplies, or raw materials for the manufacture of such products.

Project Need: To conduct required five-year review of an existing TAPPI/ANSI Standard.

Interest Categories: Producers, Converters, Suppliers of chemical/raw materials, Suppliers of manufacturing equipment, Service and general suppliers, Commercial users, Marketers and Commercial Sellers, Consultants, Educators, General Interest

1.1 This practice describes techniques for conducting and analyzing the results of intralaboratory and interlaboratory studies. The steps described here will result in a good statistical design that provides sound data for formulating a broadly applicable precision statement regarding the performance of a TAPPI test method.

1.2 Two values are considered: (a) repeatability, which is defined as comparison of test results within a laboratory (same material, operator, apparatus, environmental conditions, making tests in the shortest reasonable timeframe); and (b) reproducibility, which is defined as comparison of test results among laboratories (same material, but different operator, apparatus and perhaps environmental conditions).

1.2.1 In the data chain leading to test results there are many possible sources of variation, and one can conduct studies to isolate these other sources, e.g., same laboratory and operator using different instruments or different laboratories using a shared calibration standard, etc. For the purposes of TAPPI test methods, all of these sources of variation are to be captured in a reproducibility value.

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**Reaffirmation**

BSR/TAPPI T 1211 sp-2020 (R202x), Self-certification practice for organizations providing reference materials for TAPPI Standards (reaffirmation of ANSI/TAPPI T 1211 sp-2020)

Stakeholders: Manufacturers of pulp, paper, packaging, or related products, consumers or converters of such products, and suppliers of equipment, supplies, or raw materials for the manufacture of such products.

Project Need: To conduct required five-year review of an existing TAPPI/ANSI Standard.

Interest Categories: Producers, Converters, Suppliers of chemical/raw materials, Suppliers of manufacturing equipment, Service and general suppliers, Commercial users, Marketers and Commercial Sellers, Consultants, Educators, General Interest

This standard practice establishes acceptance procedures for the listing of organizations as calibration laboratories or providers of standardized materials in TAPPI Standards. Such organizations are involved with the maintenance of master instruments, calibration of test instruments and the issuance of calibration materials or transfer standards.

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

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***New Standard***

BSR A128.1-202x, Dimensional Stability of Agglomerate Tile, Natural Stone Tile, and Non-Ceramic Manufactured Specialty Tiles (new standard)

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: Various stakeholders have suggested that a new standard be created to provide a standardized test method for dimensional stability of agglomerate tile, natural stone tile, and non-ceramic manufactured specialty tile.

Interest Categories: labor, manufacturer, user, and general interest

The dimensional stability (DS) measurement provided in this proposed standard is an evaluation of Agglomerate Tile, Natural Stone Tile and Non-Ceramic Manufactured Specialty Tiles under exposure to moisture from mortars, adhesives, substrates, or maintenance. These tests assist in selecting adhesive and assembly materials to help avoid tile deformation. Unexpected deformation may result in excessive lippage and/or delamination of the tile within the assembly or from the substrate.

# Call for Comment on Standards Proposals

## American National Standards

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

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

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

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

\* Standard for consumer products

## Comment Deadline: May 21, 2023

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

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

#### Addenda

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

This proposed addendum corrects misalignment between ANSI/ASHRAE Standard 15.2 and UL 60335-2-40, Household and Similar Electrical Appliances - Safety - Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers to ensure that listed products are correctly installed, which is critical for AHJs, installers, and others.

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

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

### IICRC (The Institute of Inspection, Cleaning and Restoration Certification)

4043 South Eastern Avenue, Las Vegas, NV 89119 | [mwashington@iicrcnet.org](mailto:mwashington@iicrcnet.org), <https://www.iicrc.org>

#### Revision

BSR/IICRC S800-202x, Standard for Professional Inspection of Textile Floor Coverings (revision of ANSI/IICRC S800-2013)

This standard describes the procedures, methods, and systems to be followed when inspecting synthetic and natural textile floor coverings and related products (e.g., carpets, cushions). Professional textile floor covering inspection consists of processes and procedures that are described in this standard. This Standard does not specifically address the protocols and procedures for installing or cleaning textile floor coverings.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: <https://iicrc.org/s800/>

## Comment Deadline: May 21, 2023

### NSF (NSF International)

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

#### Revision

BSR/NSF 40-202x (i51r2), Residential Wastewater Treatment Systems (revision of ANSI/NSF 40-2022)

This standard contains minimum requirements for residential wastewater treatment systems having rated treatment capacities between 1,514 LPD (400 GPD) and 5,678 LPD (1,500 GPD). Management methods for the treated effluent discharged from residential wastewater treatment systems are not addressed by this standard.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Jason Snider <[jsnider@nsf.org](mailto:jsnider@nsf.org)>

### NSF (NSF International)

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

#### Revision

BSR/NSF 245-202x (i32r2), Residential Wastewater Treatment Systems - Nitrogen Reduction (revision of ANSI/NSF 245-2022)

This standard contains minimum requirements for residential wastewater treatment systems having rated treatment capacities of 1,514 LPD (400 GPD) to 5,678 LPD (1,500 GPD) that are designed to provide reduction of nitrogen in residential wastewater.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Jason Snider <[jsnider@nsf.org](mailto:jsnider@nsf.org)>

### ULSE (UL Standards & Engagement)

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

#### National Adoption

BSR/UL 60335-2-29-202x, Standard for Household and Similar Electrical Appliances - Safety - Part 2-29: Particular Requirements for Battery Chargers (national adoption of IEC 60335-2-29 with modifications and revision of ANSI/UL 60335-2-29-2020)

The following is proposed: (1) Clarification of requirements for automotive battery chargers, and (2) Delete the 5VA flammability rating requirement of 30.2DV

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

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

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 38-202x, Standard for Safety for Manual Signaling Boxes for Fire Alarm Systems (revision of ANSI/UL 38-2005 (R2018))

These requirements cover manual signaling boxes for fire alarm systems intended for permanent installation and used in ordinary locations in accordance with the National Electrical Code, NFPA 70, and the National Fire Alarm Code, NFPA 72.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Grayson Flake <[Grayson.Flake@ul.org](mailto:Grayson.Flake@ul.org)>

## Comment Deadline: May 21, 2023

### ULSE (UL Standards & Engagement)

333 Pfingsten Road, Northbrook, IL 60062 | [megan.monsen@ul.org](mailto:megan.monsen@ul.org), <https://ulse.org/>

#### Revision

BSR/UL 498D-202x, The Standard for Safety for Attachment Plugs, Cord Connectors and Receptacles with Arcuate (Locking Type) Contacts (revision of ANSI/UL 498D-2023)

This revision of ANSI/UL 498D is a clarification of requirements for receptacle grounding terminal.

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

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

### ULSE (UL Standards & Engagement)

333 Pfingsten Road, Northbrook, IL 60062 | [megan.monsen@ul.org](mailto:megan.monsen@ul.org), <https://ulse.org/>

#### Revision

BSR/UL 498F-202x, The Standard for Safety for Plugs, Socket-Outlets and Couplers with Arcuate (Locking Type) Contacts (revision of ANSI/UL 498F-2023)

This revision of ANSI/UL 498F is a clarification of requirements for receptacle grounding terminal.

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

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

### ULSE (UL Standards & Engagement)

333 Pfingsten Road, Northbrook, IL 60062-2096 | [Amy.K.Walker@ul.org](mailto:Amy.K.Walker@ul.org), <https://ulse.org/>

#### Revision

BSR/UL 858-202X, Standard for Safety for Household Electric Ranges (revision of ANSI/UL 858-2022)

This proposal for UL 858 covers: (1) Improvements to Abnormal Operation - Induction Surface Unit Cooking Oil Ignition Test.

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

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

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 2237-202x, Standard for Safety for Multi-Point Interconnection Power Cable Assemblies for Industrial Machinery (revision of ANSI/UL 2237-2021)

This proposal covers the addition of requirements for Environmental Enclosure Rating "4 or 4X Indoor Use Only" to UL 2237 as new Paragraphs 17.3 and 49.3A.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Derrick Martin <[Derrick.L.Martin@ul.org](mailto:Derrick.L.Martin@ul.org)>

## Comment Deadline: May 21, 2023

### ULSE (UL Standards & Engagement)

9 Burlington Crescent, Ottawa, ON K1T3L1 | [celine.eid@ul.org](mailto:celine.eid@ul.org), <https://ulse.org/>

#### Revision

BSR/UL 2238-202x, Standard for Safety for Cable Assemblies and Fittings for Industrial Control and Signal (revision of ANSI/UL 2238-2022)

(1) Addition of requirements for environmental rating of "4 or 4X Indoor Use Only".

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

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

## Comment Deadline: June 5, 2023

### A3 (Association for Advancing Automation)

900 Victors Way, Suite 140, Ann Arbor, MI 48108-5210 | [cfranklin@automate.org](mailto:cfranklin@automate.org), [www.automate.org/robotics](http://www.automate.org/robotics)

#### New Standard

BSR/A3 R15.08-2-202x, Industrial Mobile Robots - Safety Requirements - Part 2: Requirements for IMR system(s) and IMR application(s) (new standard)

This document specifies safety requirements for the integration and deployment of industrial mobile robot (IMR) systems and IMR applications. It describes basic hazards associated with IMR systems or applications in an industrial environment, and provides requirements to eliminate, or adequately reduce, the risks associated with these hazards. IMRs incorporate mobile platforms that can be either autonomous mobile robots (AMRs), or, where an industrial robot manipulator is combined with the mobile platform, automated guided vehicles (AGVs). (NOTE: For safety requirements of industrial robot manipulators that are fixed in place, see ANSI/RIA R15.06 -2012; for safety requirements of AGVs that do not incorporate an industrial robot manipulator, see ANSI/ITSDF B56.5-2019.) Passenger-carrying vehicles and non-industrial mobile robots are out of scope for this document.

Single copy price: \$225.00 for non-members; \$190.00 for members of A3

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

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

### ABMA (ASC B3) (American Bearing Manufacturers Association)

1001 N. Fairfax Street, Suite 500, Alexandria, VA 22314 | [aboutaleb@agma.org](mailto:aboutaleb@agma.org), [www.americanbearings.org](http://www.americanbearings.org)

#### Revision

BSR ABMA 8.2-202x, Ball and Roller Bearing Mounting Accessories Inch Design (revision of ANSI/ABMA 8.2-1999 (S2020))

Mounting accessories covered in this standard are commonly used for the location or fixing of ball and roller bearings to the shaft of a machine or mechanism. The purpose of the standard is to establish dimensions and minimum physical properties of these components consistent and compatible with ABMA and ANSI Standards relating to ball and roller bearings.

Single copy price: \$40.00

Obtain an electronic copy from: [aboutaleb@americanbearings.org](mailto:aboutaleb@americanbearings.org)

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

## Comment Deadline: June 5, 2023

### **ACP (American Clean Power Association)**

1501 M Street NW, Suite 1000, Washington, DC 22205 | [dbrown@cleanpower.org](mailto:dbrown@cleanpower.org), [www.cleanpower.org](http://www.cleanpower.org)

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

BSR/ACP 61400-6-202x, Wind Energy Generation Systems - Part 6: Tower and foundation design requirements - Modified Adoption of IEC 61400-6 (national adoption with modifications of IEC 61400-6)

This standard is a modified adoption of International Standard "IEC 61400-6 ED1, Wind energy generation systems – Part 6: Tower and foundation design requirements." The national committee responsible for this standard is the Structures Subcommittee of the American Clean Power Wind Technical Standards Committee. This standard contains requirements that are relevant under the International Building Code and codes and standards incorporated by reference therein. In this standard, certain modifications due to national legal requirements and the needs of the civil engineering community within the US wind industry have been made.

Single copy price: Free

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

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

### **AIAA (American Institute of Aeronautics and Astronautics)**

12700 Sunrise Valley Drive, Suite 200, Reston, VA 20191-5807 | [NickT@aiaa.org](mailto:NickT@aiaa.org), [www.aiaa.org](http://www.aiaa.org)

#### ***Reaffirmation***

BSR/AIAA S-080A-2018 (R202x), Space Systems - Metallic Pressure Vessels, Pressurized Structures, and Pressure Components (reaffirmation of ANSI/AIAA S-080A-2018)

This standard establishes baseline requirements for the design, analysis, fabrication, test, operation, and maintenance of metallic pressure vessels, pressurized structures, batteries, heat pipes, and cryostats, dewars, sealed containers, accumulators, and pressure components such as lines, fittings, hoses, and bellows made of metals. These components are used for pressurized, hazardous, or nonhazardous liquid or gas storage in space systems including spacecraft and launch vehicles.

Single copy price: \$86.00 List/Non-Member; \$43.00 Member

Obtain an electronic copy from: <https://arc.aiaa.org/doi/book/10.2514/4.105418>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Nick Tongson <[NickT@aiaa.org](mailto:NickT@aiaa.org)>

### **AIAA (American Institute of Aeronautics and Astronautics)**

12700 Sunrise Valley Drive, Suite 200, Reston, VA 20191-5807 | [NickT@aiaa.org](mailto:NickT@aiaa.org), [www.aiaa.org](http://www.aiaa.org)

#### ***Reaffirmation***

BSR/AIAA S-081B-2018 (R202x), Space Systems - Composite Overwrapped Pressure Vessels (reaffirmation of ANSI/AIAA S-081B-2018)

This standard establishes baseline requirements for the design, analysis, fabrication, test, inspection, operation, and maintenance of composite overwrapped pressure vessels (COPVs). These COPVs are used for pressurized, hazardous, or nonhazardous liquid or gas storage in space systems including spacecraft and launch vehicles.

This standard is applicable to COPVs constructed with a metal liner and a carbon fiber/polymer overwrap.

Single copy price: \$86.00 List/Non-Member; \$43.00 Member

Obtain an electronic copy from: <https://arc.aiaa.org/doi/book/10.2514/4.105425>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Nick Tongson <[NickT@aiaa.org](mailto:NickT@aiaa.org)>



## Comment Deadline: June 5, 2023

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

555 North Kensington Avenue, La Grange Pk, IL 60526 | [pschroeder@ans.org](mailto:pschroeder@ans.org), [www.ans.org](http://www.ans.org)

#### **Reaffirmation**

BSR/ANS 6.1.2-2013 (R202x), Group Averaged Neutron and Gamma-Ray Cross Sections for Radiation Protection and Shielding Calculations for Nuclear Power Plants (reaffirmation of ANSI/ANS 6.1.2-2013 (R2018))

This Standard provides information on acceptable evaluated nuclear data and group-averaged neutron and gamma-ray cross-section libraries derived from these evaluated nuclear data based on the energy range and materials of importance in nuclear radiation protection and shielding calculations for nuclear power plants.

Single copy price: \$50.00

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

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

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

555 North Kensington Avenue, La Grange Pk, IL 60526 | [pschroeder@ans.org](mailto:pschroeder@ans.org), [www.ans.org](http://www.ans.org)

#### **Revision**

BSR/ANS 8.21-202x, Use of Fixed Neutron Absorbers in Nuclear Facilities Outside Reactors (revision of ANSI/ANS 8.21-1995 (R2019))

This standard provides guidance for the use of fixed neutron absorbers, including Raschig Rings or similar absorbers as an integral part of nuclear facilities or fissionable material process equipment outside reactors, where such absorbers provide criticality safety control.

Single copy price: \$25.00

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

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

### **ASA (ASC S12) (Acoustical Society of America)**

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

#### **Reaffirmation**

BSR/ASA S12.55-2012, ISO 3745:2012 (R202x), Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Precision methods for anechoic rooms and hemi-anechoic rooms (reaffirm a national adoption ANSI/ASA S12.55-2012, ISO 3745:2012 (R2019))

This standard specifies methods for measuring the sound pressure levels on a measurement surface enveloping a noise source (machinery or equipment) in an anechoic room or a hemi-anechoic room. The sound power level (or, in the case of impulsive or transient noise emission, the sound energy level) produced by the noise source, in frequency bands of width one-third octave or with frequency weighting A applied, is calculated using those measurements, including corrections to allow for any differences between the meteorological conditions at the time and place of the test and those corresponding to a reference characteristic acoustic impedance.

Single copy price: \$194.00

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

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

## Comment Deadline: June 5, 2023

### **ASA (ASC S2) (Acoustical Society of America)**

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

#### **Reaffirmation**

BSR/ASA S2.29-2003 (R202x), Guide for the Measurement and Evaluation of Vibration of Machine Shafts on Shipboard Machinery (reaffirmation of ANSI/ASA S2.29-2003 (R2019))

This standard contains procedures for the measurement and evaluation of the mechanical vibration of non-reciprocating machines, as measured on rotating shafts. It contains criteria for evaluating new machines and for vibration monitoring. This standard is related to the various parts of the ISO 7919 series that provides guidelines for the evaluation of different types of machines. The type of machinery covered in this part is shipboard machinery. This is a new ANSI standard, and there is, at present, no International Standards Organization version of this standard.

Single copy price: \$90.00

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

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

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

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

#### **Revision**

BSR/ASME A18.1-202x, Safety Standard for Platform Lifts and Stairway Chairlifts (revision of ANSI/ASME A18.1-2020)

This safety Standard covers the design, construction, installation, operation, inspection, testing, maintenance, and repair of inclined stairway chairlifts and inclined and vertical platform lifts intended for transportation of a mobility-impaired person only. The device shall have a limited vertical travel, operating speed, and platform area. Operation shall be under continuous control of the user/attendant. The device shall not penetrate more than one floor. A full passenger enclosure on the platform shall be prohibited.

Single copy price: Free

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

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

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

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

#### **Reaffirmation**

BSR/AWS C2.21M/C2.21-2015 (R202x), Specification for Thermal Spray Equipment Performance Verification (reaffirmation of ANSI/AWS C2.21M/C2.21-2015)

This standard specifies the essential elements of a procedure for verifying the performance of thermal spray equipment to ensure it is capable of operating according to the manufacturer's specifications or those established by the User.

Single copy price: \$25.00

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

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

## Comment Deadline: June 5, 2023

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

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

#### **Revision**

BSR/NECA 100-202X, Symbols for Electrical Construction Drawings (revision of ANSI/NECA 100-2006 (R2013))

This publication describes graphic symbols used to represent electrical wiring and equipment on construction drawings. In this publication, the term “electrical” is used to include electrical, electronic, and communications systems covered by the National Electrical Code (NFPA 70). This publication also summarizes recommended drawing practices for electrical construction drawings.

Single copy price: Member- \$30.00/Nonmember- \$60.00

Obtain an electronic copy from: [NEIS@NECA.net](mailto:NEIS@NECA.net) OR <https://neca-neis.org/about-neis/neis-review>

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

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

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

#### **Revision**

BSR/NECA 111-202X, Standard for Installing Nonmetallic Raceways (RNC, ENT, LFNC) (revision of ANSI/NECA 111-2017)

This standard describes installation procedures for nonmetallic raceways of circular cross-section used for electrical power wire and cable, communications wiring, or fiber optic cables.

Single copy price: Member- \$30.00/Nonmember- \$60.00

Obtain an electronic copy from: [NEIS@NECA.net](mailto:NEIS@NECA.net) OR <https://neca-neis.org/about-neis/neis-review>

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

### **NEMA (ASC C37) (National Electrical Manufacturers Association)**

1300 North 17th Street, Suite 1752, Rosslyn, VA 22209 | [brian.marchionini@nema.org](mailto:brian.marchionini@nema.org), [www.nema.org](http://www.nema.org)

#### **Revision**

BSR C37.54-202x, Standard for Alternating Current High-Voltage Circuit Breakers Applied in Metal-Enclosed Switchgear - Conformance Test Procedures (revision of ANSI C37.54-2003 (R2020))

When conformance tests are required, this standard specifies tests to demonstrate that the circuit breaker being tested conforms with the requirements and ratings defined in accordance with ANSI/IEEE C37.04. The preferred ratings listed are designated values but are not to be considered restrictive; however, the requirements given are restrictive. Conformance testing may be performed in conjunction with the basic design testing, if agreeable to those concerned; however, conformance testing is more likely to be performed to satisfy a special need, sometime after original development. As a requirement of conformance testing, the circuit breaker shall have completed the design testing requirements of ANSI/IEEE C37.09. If ANSI/IEEE C37.09 tests have not been previously performed, the tests required by ANSI/IEEE C37.09 beyond tests described by this standard may be performed concurrently with conformance testing..

Single copy price: Free

Obtain an electronic copy from: [brian.marchionini@nema.org](mailto:brian.marchionini@nema.org)

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

## Comment Deadline: June 5, 2023

### **NEMA (ASC C81) (National Electrical Manufacturers Association)**

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

#### **Revision**

BSR C81.61-202X, Electric Lamp Bases - Specifications for Bases (Caps) for Electric Lamps (revision of ANSI C81.61-2019)

This standard sets forth the specifications for bases (caps) used on electric lamps.

Single copy price: \$500.00

Obtain an electronic copy from: [michael.erbesfeld@nema.org](mailto:michael.erbesfeld@nema.org)

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

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

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

#### **National Adoption**

BSR/TIA 621.1-202x, IEC 61755-1: Fibre optic interconnecting devices and passive components - Connector optical interfaces for single-mode fibres - Part 1: Optical interfaces for dispersion unshifted fibres - General and guidance (identical national adoption of IEC 61755-1)

Adoption of IEC 61755-1:Fibre optic interconnecting devices and passive components - Connector optical interfaces for single-mode fibres - Part 1: Optical interfaces for dispersion unshifted fibres - General and guidance as ANSI/TIA 621.1

Single copy price: \$93.00

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

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

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

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

#### **National Adoption**

BSR/TIA 622.1-202x, IEC 61755-2-1: Fibre optic interconnecting devices and passive components - Connector optical interfaces for single-mode fibres - Part 2-1: Connection parameters of dispersion unshifted physically contacting fibres - Non-angled (identical national adoption of IEC 61755-2-1)

Adoption of IEC 61755-2-1:Fibre optic interconnecting devices and passive components - Connector optical interfaces for single-mode fibres - Part 2-1: Connection parameters of dispersion unshifted physically contacting fibres - Non-angled as ANSI/TIA 622.1

Single copy price: \$88.00

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

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

## Comment Deadline: June 5, 2023

### TIA (Telecommunications Industry Association)

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

#### National Adoption

BSR/TIA 622.2-202x, IEC 61755-2-2: Fibre optic interconnecting devices and passive components - Connector optical interfaces for single-mode fibres - Part 2-2: Connection parameters of dispersion unshifted physically contacting fibres - Angled (identical national adoption of IEC 61755-2-2)

Adoption of IEC 61755-2-2:Fibre optic interconnecting devices and passive components - Connector optical interfaces for single-mode fibres - Part 2-2: Connection parameters of dispersion unshifted physically contacting fibres - Angled as ANSI/TIA 622.2

Single copy price: \$88.00

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

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

### ULSE (UL Standards & Engagement)

333 Pfingsten Road, Northbrook, IL 60062-2096 | [Susan.P.Malohn@ul.org](mailto:Susan.P.Malohn@ul.org), <https://ulse.org/>

#### National Adoption

BSR/UL 62093-202x, Photovoltaic System Power Conversion Equipment - Design Qualification and Type Approval (identical national adoption of IEC 62093 and revision of ANSI/UL 62093-2017 (R2021))

Second Edition of the UL IEC-Based Standard for Photovoltaic System Power Conversion Equipment – Design Qualification and Type Approval, UL 62093, with no US National Differences.

Single copy price: Free

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

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

### ULSE (UL Standards & Engagement)

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

#### Reaffirmation

BSR/UL 198M-2003 (R202x), Standard for Mine-Duty Fuses (reaffirmation of ANSI/UL 198M-2003 (R2018))  
(1) Reaffirmation and continuance of the Fifth Edition of the Standard for Mine-Duty Fuses, UL 198M, as a standard.

Single copy price: Free

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

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

### ULSE (UL Standards & Engagement)

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

#### Reaffirmation

BSR/UL 248-16-2004 (R202x), Low-Voltage Fuses - Part 16: Test Limiters (reaffirmation of ANSI/UL 248-16-2004 (R2018))

(1) Reaffirmation and continuance of the Third Edition of the Standard for Low-Voltage Fuses - Part 16: Test Limiters, UL 248-16, as a standard.

Single copy price: Free

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

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

## Comment Deadline: June 5, 2023

### ULSE (UL Standards & Engagement)

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

#### Reaffirmation

BSR/UL 4248-11-2007 (R202x), Fuseholders - Part 11: Type C (Edison Base) and Type S Plug Fuse (reaffirmation of ANSI/UL 4248-11-2007 (R2018))

(1) Reaffirmation and continuance of the First Edition of the Standard for Fuseholders - Part 11: Type C (Edison Base) and Type S Plug Fuse, UL 4248-11, as an standard.

Single copy price: Free

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

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

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 1286-202x, Standard for Office Furnishing Systems (revision of ANSI/UL 1286-2022)

This proposal covers:

- (1) Addition of requirements to address the risk of personal injury from low-level panels and screens;
- (2) Revision of requirements to clarify how channels are defined;
- (3) Revisions to expand the definition of raceway to align it with the NEC and industry definition and to clarify the application of requirements involving raceways;
- (4) Revisions to Paragraph 18.7.1 to add a reference to European requirements as alternative compliance criteria for non-shattering glass;
- (5) Revision to and addition of marking requirements to add a reference to UL 969A, Flag Labels, Flag Tags, Wrap-around Labels and Related Products, to provide alternate marking requirements for labels;
- (6) Revisions to delete the exception to Paragraphs 10.3.2 and 10.3.4 that allows for a cord-connected system to be provided with 14 AWG cord and a 15 A plug;
- (7) Revisions to UL 94, HB Flammability Requirements for Non-Electrical Parts.

Single copy price: Free

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

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

### ULSE (UL Standards & Engagement)

333 Pfingsten Road, Northbrook, IL 60062-2096 | [jeffrey.prusko@ul.org](mailto:jeffrey.prusko@ul.org), <https://ulse.org/>

#### Revision

BSR/UL 2039-202x, Standard for Flexible Connector Piping for Flammable and Combustible Liquids (revision of ANSI/UL 2039-2016)

The following is being recirculated: (1) Revisions to new joint standard, UL/ULC 2039, Standard for Flexible Connector Piping for Flammable and Combustible Liquids.

Single copy price: Free

Obtain an electronic copy from: [shopULstandards.com](http://shopULstandards.com) or <https://csds.ul.com/Home/ProposalsDefault.aspx>

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

## Comment Deadline: June 5, 2023

### WMMA (ASC 01) (Wood Machinery Manufacturers of America)

2331 Rock Spring Road, Forest Hill, MD 21050 | [nikki@wmma.org](mailto:nikki@wmma.org), [www.wmma.org](http://www.wmma.org)

#### Reaffirmation

BSR O1.1-2013 (R202x), Woodworking Machinery - Safety Requirements (reaffirmation of ANSI O1.1-2013)

Reaffirm current standard.

Single copy price: \$75.00

Obtain an electronic copy from: <https://webstore.ansi.org/standards/wmma/ansio12013>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Nikki Augsburger <[nikki@wmma.org](mailto:nikki@wmma.org)>

## Comment Deadline: June 20, 2023

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 827-202x, Standard for Central-Station Alarm Services (revision of ANSI/UL 827-2023)

The intent of this proposal is to revise UL 827, Central-station Services, to incorporate the requirements of UL's Outline of Investigation for Hosted central-station Services, UL 827A The base document used in the following is the UL827 - 9th Edition proposal that accompanied the STP recirculation which closed 9/13 This is only a merging of the two standards that was expected once UL 827A was mature and centers have been approved to meet it. It is not intended to modify the two standards, only merge them.

Single copy price: Free

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Grayson Flake <[Grayson.Flake@ul.org](mailto:Grayson.Flake@ul.org)>

## Project Withdrawn

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

### SIA (Security Industry Association)

8405 Colesville Road, Suite 500, Silver Spring, MD 20910 | [EShen@securityindustry.org](mailto:EShen@securityindustry.org), [www.siaonline.org](http://www.siaonline.org)

BSR/SIA DC-03-202x, Digital Communications Standard - SIA Format Protocol - For Alarm System Communications (new standard)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Edison Shen <[EShen@securityindustry.org](mailto:EShen@securityindustry.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.

### AWWA (American Water Works Association)

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

ANSI/AWWA D121a-2014, Bolted Aboveground Thermosetting Fiberglass-Reinforced Plastic Panel-Type Tanks for Water Storage (supplement to ANSI/AWWA D121-2012)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Paul Olson <[polson@awwa.org](mailto:polson@awwa.org)>

## **Withdrawal of an ANS by ANSI-Accredited Standards Developer**

### **ECIA (Electronic Components Industry Association)**

13873 Park Center Road, Suite 315, Herndon, VA 20171 | [ldonohoe@ecianow.org](mailto:ldonohoe@ecianow.org), [www.ecianow.org](http://www.ecianow.org)

ANSI/EIA 200-B-2018, Circular Waveguides and Flanges (new standard)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Questions may be directed to: Laura Donohoe <[ldonohoe@ecianow.org](mailto:ldonohoe@ecianow.org)>

### **ECIA (Electronic Components Industry Association)**

13873 Park Center Road, Suite 315, Herndon, VA 20171 | [ldonohoe@ecianow.org](mailto:ldonohoe@ecianow.org), [www.ecianow.org](http://www.ecianow.org)

ANSI/EIA 261-C-2018, Rectangular Waveguides (WR2 to WR2300) (new standard)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Questions may be directed to: Laura Donohoe <[ldonohoe@ecianow.org](mailto:ldonohoe@ecianow.org)>



# Final Actions on American National Standards

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

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## **AMCA (Air Movement and Control Association)**

30 West University Drive, Arlington Heights, IL 60004-1893 | [shrutik@amca.org](mailto:shrutik@amca.org), [www.amca.org](http://www.amca.org)

ANSI/AMCA 540-2023, Test Method for Louvers Impacted by Wind Borne Debris (revision of ANSI/AMCA 540-2013)  
Final Action Date: 4/17/2023 | *Revision*

## **AMPP (Association for Materials Protection and Performance)**

15835 Park Ten Place, Houston, TX 77084 | [everett.bradshaw@ampp.org](mailto:everett.bradshaw@ampp.org), [www.ampp.org](http://www.ampp.org)

ANSI/NACE TM0416/ISO 22858-2020, Corrosion of metals and alloys - Electrochemical measurements - Test method for monitoring atmospheric corrosion (identical national adoption of ISO 22858:2020) Final Action Date: 4/12/2023 | *National Adoption*

## **API (American Petroleum Institute)**

200 Massachusetts Avenue NW, Washington, DC 20001 | [buflodj@api.org](mailto:buflodj@api.org), [www.api.org](http://www.api.org)

ANSI/API RP 1173-2015 (R2023), Pipeline Safety Management Systems (reaffirmation of ANSI/API RP 1173-2015) Final Action Date: 4/17/2023 | *Reaffirmation*

## **ASA (ASC S1) (Acoustical Society of America)**

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

ANSI/ASA S1.14-1998 (R2018), Recommendations for the Specifying and Testing the Susceptibility of Acoustical Instruments to Radiated Radio-Frequency Electromagnetic Fields, 25 MHZ to 1 GHZ (withdrawal of ANSI ASA S1.14 -1998 (R2018)) Final Action Date: 4/17/2023 | *Withdrawal*

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

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

ANSI/ASA S3.55-2023/Part 8/IEC 60318-8-2022, Electroacoustics - Simulators of human head and ear - Part 8: Acoustic coupler for high-frequency measurements of hearing aids and earphones coupled to the ear by means of ear inserts (identical national adoption of IEC 60318-8:2022) Final Action Date: 4/10/2023 | *National Adoption*

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

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

ANSI/ASABE S631-APR2023, Machine Vision Method of Forage or Biomass Particle Size and Size Distribution (new standard) Final Action Date: 4/17/2023 | *New Standard*

## **ASTM (ASTM International)**

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

ANSI/ASTM E1354-2023, Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter (revision of ANSI/ASTM E1354-2022C) Final Action Date: 3/28/2023 | *Revision*

ANSI/ASTM E2225-2023, Guide for Forensic Examination of Fabrics and Cordage (revision of ANSI/ASTM E2225-2022A) Final Action Date: 4/1/2023 | *Revision*

ANSI/ASTM E2228-2023, Guide for Microscopical Examination of Textile Fibers (revision of ANSI/ASTM E2228-2022A) Final Action Date: 4/1/2023 | *Revision*

**ASTM (ASTM International)**

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

ANSI/ASTM E2579-2023a, Practice for Specimen Preparation and Mounting of Wood Products to Assess Surface Burning Characteristics (revision of ANSI/ASTM E2579-2023) Final Action Date: 3/28/2023 | *Revision*

ANSI/ASTM E2653-2023, Practice for Conducting an Interlaboratory Study to Determine Precision Estimates for a Fire Test Method with Fewer Than Six Participating Laboratories (revision of ANSI/ASTM E2653-2021) Final Action Date: 3/28/2023 | *Revision*

ANSI/ASTM E2748-2023, Guide for Fire-Resistance Experiments (revision of ANSI/ASTM E2748-2012A (2017)) Final Action Date: 3/28/2023 | *Revision*

**ECIA (Electronic Components Industry Association)**

13873 Park Center Road, Suite 315, Herndon, VA 20171 | [ldonohoe@ecianow.org](mailto:ldonohoe@ecianow.org), [www.ecianow.org](http://www.ecianow.org)

ANSI/EIA 364-02D-2012 (R2023), Air Leakage Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-02D-2012 (R2017)) Final Action Date: 4/17/2023 | *Reaffirmation*

ANSI/EIA 364-87B-2017 (R2023), Nanosecond Event Detection Test Procedure for Electrical Connectors, Contacts and Sockets (reaffirmation of ANSI/EIA 364-87B-2017) Final Action Date: 4/17/2023 | *Reaffirmation*

ANSI/EIA 364-96A-2017 (R2023), Plated Through Hole Integrity Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-96A-2017) Final Action Date: 4/17/2023 | *Reaffirmation*

ANSI/EIA 364-114-2010 (R2023), Coupling and Uncoupling Force Test Procedure for Electrical Connectors, Sockets, and Applicable Accessories (reaffirmation of ANSI/EIA 364-114-2010 (R2017)) Final Action Date: 4/17/2023 | *Reaffirmation*

**HL7 (Health Level Seven)**

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 | [Karenvan@HL7.org](mailto:Karenvan@HL7.org), [www.hl7.org](http://www.hl7.org)

ANSI/HL7 CDAR2L3IG EMSRUNRPT, R3-2023, HL7 CDA® R2 Implementation Guide: Emergency Medical Services; Patient Care Report, Release 3 - US Realm (revision and redesignation of ANSI/HL7 CDAR2L3IG EMSRUNRPT, R2-2016 (R2021)) Final Action Date: 4/10/2023 | *Revision*

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

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

ANSI/ASSE 1017-2023, Performance Requirements for Temperature Actuated Mixing Valves for Hot Water Distribution Systems (revision of ANSI/ASSE 1017-2020) Final Action Date: 4/17/2023 | *Revision*

**IEEE (ASC C63) (Institute of Electrical and Electronics Engineers)**

445 Hoes Lane, Piscataway, NJ 08854 | [J.Santulli@ieee.org](mailto:J.Santulli@ieee.org), [www.ieee.org](http://www.ieee.org)

ANSI C63.10 Corrigendum-2023, Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (revision of ANSI C63.10-2020) Final Action Date: 4/10/2023 | *Revision*

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

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

INCITS/ISO/IEC 19770-8:2020 [2023], Information technology - IT asset management - Part 8: Guidelines for mapping of industry practices to/from the ISO/IEC 19770 family of standards (identical national adoption of ISO/IEC 19770-8:2020) Final Action Date: 4/17/2023 | *National Adoption*

INCITS/ISO/IEC 19770-11:2021 [2023], Information technology - IT asset management - Part 11: Requirements for bodies providing audit and certification of IT asset management systems (identical national adoption of ISO/IEC 19770-11:2021) Final Action Date: 4/17/2023 | *National Adoption*

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

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

INCITS/ISO/IEC 24773-1:2019 [2023], Software and systems engineering - Certification of software and systems engineering professionals - Part 1: General requirements (identical national adoption of ISO/IEC 24773-1:2019) Final Action Date: 4/17/2023 | *National Adoption*

INCITS/ISO/IEC 24773-3:2021 [2023], Software and systems engineering - Certification of software and systems engineering professionals - Part 3: Systems engineering (identical national adoption of ISO/IEC 24773-3:2021) Final Action Date: 4/17/2023 | *National Adoption*

INCITS/ISO/IEC 23396:2020 [2023], Systems and software engineering - Capabilities of review tools (identical national adoption of ISO/IEC 23396:2020) Final Action Date: 4/17/2023 | *National Adoption*

INCITS/ISO/IEC 23531:2020 [2023], Systems and software engineering - Capabilities of issue management tools (identical national adoption of ISO/IEC 23531:2020) Final Action Date: 4/17/2023 | *National Adoption*

INCITS/ISO/IEC 25020:2019 [2023], Systems and software engineering - Systems and software quality requirements and evaluation (SQuaRE) - Quality measurement framework (identical national adoption of ISO/IEC 25020:2019) Final Action Date: 4/17/2023 | *National Adoption*

INCITS/ISO/IEC 25030:2019 [2023], Systems and software engineering - Systems and software quality requirements and evaluation (SQuaRE) - Quality requirements framework (identical national adoption of ISO/IEC 25030:2019) Final Action Date: 4/17/2023 | *National Adoption*

INCITS/ISO/IEC 26552:2019 [2023], Software and systems engineering - Tools and methods for product line architecture design (identical national adoption of ISO/IEC 26552:2019) Final Action Date: 4/17/2023 | *National Adoption*

INCITS/ISO/IEC 26560:2019 [2023], Software and systems engineering - Tools and methods for product line product management (identical national adoption of ISO/IEC 26560:2019) Final Action Date: 4/17/2023 | *National Adoption*

INCITS/ISO/IEC 26561:2019 [2023], Software and systems engineering - Methods and tools for product line technical probe (identical national adoption of ISO/IEC 26561:2019) Final Action Date: 4/17/2023 | *National Adoption*

INCITS/ISO/IEC 26562:2019 [2023], Software and systems engineering - Methods and tools for product line transition management (identical national adoption of ISO/IEC 26562:2019) Final Action Date: 4/17/2023 | *National Adoption*

INCITS/ISO/IEC 26580:2021 [2023], Software and systems engineering - Methods and tools for the feature-based approach to software and systems product line engineering (identical national adoption of ISO/IEC 26580:2021) Final Action Date: 4/17/2023 | *National Adoption*

INCITS 567-2023, Information technology - Serial Attached SCSI - 4.1 (SAS 4.1) (new standard) Final Action Date: 4/17/2023 | *New Standard*

**NCPDP (National Council for Prescription Drug Programs)**

9240 East Raintree Drive, Scottsdale, AZ 85260 | [mweiker@ncpdp.org](mailto:mweiker@ncpdp.org), [www.ncpdp.org](http://www.ncpdp.org)

ANSI/NCPDP FB v60-2023, NCPDP Formulary and Benefit Standard v60 (revision and redesignation of ANSI/NCPDP FB v55-2022) Final Action Date: 4/12/2023 | *Revision*

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

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

ANSI ICEA T-26-465/NEMA WC 54-2023, Guide for Frequency of Sampling Extruded Dielectric Power, Control, Instrumentation, and Portable Cables for Test (revision of ANSI/ICEA T-26-465/NEMA WC 54-2013) Final Action Date: 4/17/2023 | *Revision*

**NEMA (ASC C82) (National Electrical Manufacturers Association)**

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

ANSI C82.16-2023, Light Emitting Diode Drivers - Methods of Measurement (revision of ANSI C82.16-2022) Final Action Date: 4/17/2023 | *Revision*

ANSI C82.18-2023, Light Emitting Diode Drivers - Performance Characteristics (revision of ANSI C82.18-2022) Final Action Date: 4/17/2023 | *Revision*

**NSF (NSF International)**

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

ANSI/NSF 25-2023 (i18r3), Vending Machines for Food and Beverages (revision of ANSI/NSF 25-2021) Final Action Date: 4/4/2023 | *Revision*

**ULSE (UL Standards & Engagement)**

333 Pfingsten Road, Northbrook, IL 60062-2096 | [alan.t.mcgrath@ul.org](mailto:alan.t.mcgrath@ul.org), <https://ulse.org/>

ANSI/UL 60730-2-11-2023, Standard for Automatic Electrical Controls; Part 2: Particular Requirements for Energy Regulators (national adoption of IEC 60730-2-11 with modifications and revision of ANSI/UL 60730-2-11-2013 (R2018)) Final Action Date: 4/6/2023 | *National Adoption*

ANSI/UL 197-2023, Standard for Safety for Commercial Electric Cooking Appliances (revision of ANSI/UL 197-2020) Final Action Date: 4/7/2023 | *Revision*

ANSI/UL 201-2023, Standard for Safety for Garage Equipment (revision of ANSI/UL 201-2022) Final Action Date: 4/7/2023 | *Revision*

ANSI/UL 360-2023, Standard for Safety for Liquid-Tight Flexible Metal Conduit (revision of ANSI/UL 360-2021) Final Action Date: 4/13/2023 | *Revision*

ANSI/UL 746D-2023, Standard for Safety for Polymeric Materials - Fabricated Parts (revision of ANSI/UL 746D-2022) Final Action Date: 4/7/2023 | *Revision*

ANSI/UL 1651-2023, Standard for Safety for Optical Fiber Cable (revision of ANSI/UL 1651-2008 (R2013)) Final Action Date: 4/13/2023 | *Revision*

ANSI/UL 1727-2023, Safety for Commercial Electric Personal Grooming Appliances (revision of ANSI/UL 1727-2021) Final Action Date: 4/13/2023 | *Revision*

ANSI/UL 2743-2023, Standard for Portable Power Packs (revision of ANSI/UL 2743-2020) Final Action Date: 4/14/2023 | *Revision*

ANSI/UL 2900-1-2023, Software Cybersecurity for Network-Connectable Products, Part 1: General Requirements (revision of ANSI/UL 2900-1-2020) Final Action Date: 4/14/2023 | *Revision*

# Call for Members (ANS Consensus Bodies)

Directly and materially interested parties who wish to participate as a member of an ANS consensus body for the standards listed are requested to contact the sponsoring developer directly in a timely manner.

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## ANSI Accredited Standards Developer

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

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

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

Membership in the INCITS Executive Board is open to all directly and materially interested parties in accordance with INCITS membership rules. To find out more about participating on the INCITS Executive Board, contact Jennifer Garner at [jgarner@itic.org](mailto:jgarner@itic.org) or visit <http://www.incits.org/participation/membership-info> for more information.

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

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

## ANSI Accredited Standards Developer

### SCTE (Society of Cable Telecommunications Engineers)

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

SCTE is currently seeking to broaden the membership base of its ANS consensus bodies and is interested in new members in all membership categories to participate in new work in fiber-optic networks, advanced advertising, 3D television, and other important topics. Of particular interest is membership from the content (program and advertising) provider and user communities.

Membership in the SCTE Standards Program is open to all directly and materially affected parties as defined in SCTE's membership rules and operating procedures.

More information is available at [www.scte.org](http://www.scte.org) or by e-mail from [standards@scte.org](mailto:standards@scte.org).

**ABMA (ASC B3) (American Bearing Manufacturers Association)**

1001 N. Fairfax Street, Suite 500, Alexandria, VA 22314 | [aboutaleb@agma.org](mailto:aboutaleb@agma.org), [www.americanbearings.org](http://www.americanbearings.org)

BSR ABMA 8.2-202x, Ball and Roller Bearing Mounting Accessories Inch Design (revision of ANSI/ABMA 8.2-1999 (S2020))

**AHAM (Association of Home Appliance Manufacturers)**

1111 19th Street NW, Suite 402, Washington, DC 20036 | [GWoyczynski@aham.org](mailto:GWoyczynski@aham.org), [www.aham.org](http://www.aham.org)

BSR/AHAM RAC-2-202x, Performance of Room Air Conditioners (new standard)

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201-3001 | [kbest@ahrinet.org](mailto:kbest@ahrinet.org), [www.ahrinet.org](http://www.ahrinet.org)

BSR/AHRI Standard 600-202x (SI/I-P), Standard for Performance Rating of Water/Brine to Air Heat Pump Equipment (new standard)

**AIAA (American Institute of Aeronautics and Astronautics)**

12700 Sunrise Valley Drive, Suite 200, Reston, VA 20191-5807 | [NickT@aiaa.org](mailto:NickT@aiaa.org), [www.aiaa.org](http://www.aiaa.org)

BSR/AIAA S-080A-2018 (R202x), Space Systems - Metallic Pressure Vessels, Pressurized Structures, and Pressure Components (reaffirmation of ANSI/AIAA S-080A-2018)

**AIAA (American Institute of Aeronautics and Astronautics)**

12700 Sunrise Valley Drive, Suite 200, Reston, VA 20191-5807 | [NickT@aiaa.org](mailto:NickT@aiaa.org), [www.aiaa.org](http://www.aiaa.org)

BSR/AIAA S-081B-2018 (R202x), Space Systems - Composite Overwrapped Pressure Vessels (reaffirmation of ANSI/AIAA S-081B-2018)

**ASA (ASC S12) (Acoustical Society of America)**

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

BSR/ASA S12.55-2012, ISO 3745:2012 (R202x), Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Precision methods for anechoic rooms and hemi-anechoic rooms (reaffirm a national adoption ANSI/ASA S12.55-2012, ISO 3745:2012 (R2019))

**ASA (ASC S2) (Acoustical Society of America)**

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

BSR/ASA S2.29-2003 (R202x), Guide for the Measurement and Evaluation of Vibration of Machine Shafts on Shipboard Machinery (reaffirmation of ANSI/ASA S2.29-2003 (R2019))

**AWS (American Welding Society)**

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

BSR/AWS C2.21M/C2.21-2015 (R202x), Specification for Thermal Spray Equipment Performance Verification (reaffirmation of ANSI/AWS C2.21M/C2.21-2015)

**BOMA (Building Owners and Managers Association)**

1101 15th Street, NW, Suite 800, Washington, DC 20005 | [klor@boma.org](mailto:klor@boma.org), [www.boma.org](http://www.boma.org)

BSR/BOMA Z65.3-202x, Gross Areas: Standard Methods of Measurement (revision of ANSI/BOMA Z65.3-2018)

**MHI (Material Handling Industry)**

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

BSR MH31.2-202X, Test Method for Crash Testing Industrial Guardrail Barriers and Barrier Posts (revision of ANSI MH31.2-2021)

**NECA (National Electrical Contractors Association)**

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

BSR/NECA 100-202X, Symbols for Electrical Construction Drawings (revision of ANSI/NECA 100-2006 (R2013))

**NECA (National Electrical Contractors Association)**

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

BSR/NECA 111-202X, Standard for Installing Nonmetallic Raceways (RNC, ENT, LFNC) (revision of ANSI/NECA 111-2017)

**NEMA (ASC C37) (National Electrical Manufacturers Association)**

1300 North 17th Street, Suite 1752, Rosslyn, VA 22209 | [brian.marchionini@nema.org](mailto:brian.marchionini@nema.org), [www.nema.org](http://www.nema.org)

BSR C37.54-202x, Standard for Alternating Current High-Voltage Circuit Breakers Applied in Metal-Enclosed Switchgear - Conformance Test Procedures (revision of ANSI C37.54-2003 (R2020))

**NSF (NSF International)**

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

BSR/NSF 40-202x (i51r2), Residential Wastewater Treatment Systems (revision of ANSI/NSF 40-2022)

**NSF (NSF International)**

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

BSR/NSF 245-202x (i32r2), Residential Wastewater Treatment Systems - Nitrogen Reduction (revision of ANSI/NSF 245-2022)

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

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

BSR/TAPPI T 230 om-2013 (R202x), Viscosity of pulp (capillary viscometer method) (reaffirmation of ANSI/TAPPI T 230 om-2013 (R2019))

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

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

BSR/TAPPI T 240 om-2020 (R202x), Consistency (concentration) of pulp suspensions (reaffirmation of ANSI/TAPPI T 240 om-2020)

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

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

BSR/TAPPI T 282 om-2013 (R202x), Hexeneuronic acid content of chemical pulp (reaffirmation of ANSI/TAPPI T 282 om-2013 (R2019))

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

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

BSR/TAPPI T 410 om-2013 (R202x), Grammage of paper and paperboard (weight per unit area) (reaffirmation of ANSI/TAPPI T 410 om-2013 (R2019))

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

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

BSR/TAPPI T 453 sp-2013 (R202x), Effect of dry heat on properties of paper and board (reaffirmation of ANSI/TAPPI T 453 sp-2013 (R2020))

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

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

BSR/TAPPI T 496 sp-2013 (R202x), Specimen preparation for cross directional internal tearing resistance for paper, paperboard and related materials (reaffirmation of ANSI/TAPPI T 496 sp-2013 (R2019))

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

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

BSR/TAPPI T 527 om-2013 (R202x), Color of paper and paperboard (d/O, C/2) (reaffirmation of ANSI/TAPPI T 527 om-2013 (R2020))

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

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

BSR/TAPPI T 545 om-2020 (R202x), Cross-machine grammage profile measurement (gravimetric method) (reaffirmation of ANSI/TAPPI T 545 om-2020)

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

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

BSR/TAPPI T 812 om-2013 (R202x), Ply separation of solid and corrugated fiberboard (wet) (reaffirmation of ANSI/TAPPI T 812 om-2013 (R2019))

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

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

BSR/TAPPI T 1200 sp-2014 (R202x), Interlaboratory evaluation of test methods to determine TAPPI repeatability and reproducibility (reaffirmation of ANSI/TAPPI T 1200 sp-2014 (R2020))

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

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

BSR/TAPPI T 1211 sp-2020 (R202x), Self-certification practice for organizations providing reference materials for TAPPI Standards (reaffirmation of ANSI/TAPPI T 1211 sp-2020)



**TIA (Telecommunications Industry Association)**

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

BSR/TIA 621.1-202x, IEC 61755-1: Fibre optic interconnecting devices and passive components - Connector optical interfaces for single-mode fibres - Part 1: Optical interfaces for dispersion unshifted fibres - General and guidance (identical national adoption of IEC 61755-1)

**TIA (Telecommunications Industry Association)**

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

BSR/TIA 622.1-202x, IEC 61755-2-1: Fibre optic interconnecting devices and passive components - Connector optical interfaces for single-mode fibres - Part 2-1: Connection parameters of dispersion unshifted physically contacting fibres - Non-angled (identical national adoption of IEC 61755-2-1)

**TIA (Telecommunications Industry Association)**

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

BSR/TIA 622.2-202x, IEC 61755-2-2: Fibre optic interconnecting devices and passive components - Connector optical interfaces for single-mode fibres - Part 2-2: Connection parameters of dispersion unshifted physically contacting fibres - Angled (identical national adoption of IEC 61755-2-2)

**WMMA (ASC 01) (Wood Machinery Manufacturers of America)**

2331 Rock Spring Road, Forest Hill, MD 21050 | [nikki@wmma.org](mailto:nikki@wmma.org), [www.wmma.org](http://www.wmma.org)

BSR 01.1-2013 (R202x), Woodworking Machinery - Safety Requirements (reaffirmation of ANSI O1.1-2013)

# American National Standards (ANS) Announcements

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## Corrections

### AGA (ASC Z380) - American Gas Association Gas Piping Technology

#### BSR GPTC Z380.1-2018 TR 2017-15-201x listed in error

The following Call for Comment notice was mistakenly included in the April 14, 2023 Standards Action. This proposal was already listed for public review in the June 11, 2021 Standards Action. BSR GPTC Z380.1-2018 TR 2017-15-201x, Guide for Transmission, Distribution and Gathering Piping Systems. (addenda to ANSI GPTC Z380.1-2018). Please direct inquiries to: Luis Escobar <[lescobar@aga.org](mailto:lescobar@aga.org)>

# American National Standards (ANS) Process

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

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

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

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

# American National Standards Under Continuous Maintenance

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

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

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

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

# ANSI-Accredited Standards Developers (ASD) Contacts

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

## A3

Association for Advancing Automation  
900 Victors Way, Suite 140  
Ann Arbor, MI 48108  
[www.automate.org/robotics](http://www.automate.org/robotics)

Carole Franklin  
[cfranklin@automate.org](mailto:cfranklin@automate.org)

## ABMA (ASC B3)

American Bearing Manufacturers Association  
1001 N. Fairfax Street, Suite 500  
Alexandria, VA 22314  
[www.americanbearings.org](http://www.americanbearings.org)

Amir Aboutaleb  
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## ACP

American Clean Power Association  
1501 M Street NW, Suite 1000  
Washington, DC 22205  
[www.cleanpower.org](http://www.cleanpower.org)

Duane Brown  
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## AHAM

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## AHRI

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2311 Wilson Boulevard, Suite 400  
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Karl Best  
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## AIAA

American Institute of Aeronautics and Astronautics  
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## AMCA

Air Movement and Control Association  
30 West University Drive  
Arlington Heights, IL 60004  
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Shruti Kohli-Bhargava  
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## AMPP

Association for Materials Protection and Performance  
15835 Park Ten Place  
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Everett Bradshaw  
[everett.bradshaw@ampp.org](mailto:everett.bradshaw@ampp.org)

## ANS

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555 North Kensington Avenue  
La Grange Pk, IL 60526  
[www.ans.org](http://www.ans.org)

Patricia Schroeder  
[pschroeder@ans.org](mailto:pschroeder@ans.org)

## API

American Petroleum Institute  
200 Massachusetts Avenue NW  
Washington, DC 20001  
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## ASA (ASC S1)

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Raegan Ripley  
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## ASA (ASC S12)

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[www.acousticalsociety.org](http://www.acousticalsociety.org)

Raegan Ripley  
[standards@acousticalsociety.org](mailto:standards@acousticalsociety.org)

## ASA (ASC S2)

Acoustical Society of America  
1305 Walt Whitman Road, Suite 300  
Melville, NY 11747  
[www.acousticalsociety.org](http://www.acousticalsociety.org)

Raegan Ripley  
[standards@acousticalsociety.org](mailto:standards@acousticalsociety.org)

## ASA (ASC S3)

Acoustical Society of America  
1305 Walt Whitman Road, Suite 300  
Melville, NY 11747  
[www.acousticalsociety.org](http://www.acousticalsociety.org)

Raegan Ripley  
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## ASABE

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

Jean Walsh  
[walsh@asabe.org](mailto:walsh@asabe.org)

## ASHRAE

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.  
180 Technology Parkway  
Peachtree Corners, GA 30092  
[www.ashrae.org](http://www.ashrae.org)

Ryan Shanley  
[rshanley@ashrae.org](mailto:rshanley@ashrae.org)

## ASME

American Society of Mechanical Engineers  
Two Park Avenue, 6th Floor  
New York, NY 10016  
[www.asme.org](http://www.asme.org)

Maria Acevedo  
[ansibox@asme.org](mailto:ansibox@asme.org)

## ASTM

ASTM International  
100 Barr Harbor Drive  
West Conshohocken, PA 19428  
[www.astm.org](http://www.astm.org)

Laura Klineburger  
[accreditation@astm.org](mailto:accreditation@astm.org)

**AWS**

American Welding Society  
8669 NW 36th Street, Suite 130  
Miami, FL 33166  
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**BOMA**

Building Owners and Managers Association  
1101 15th Street, NW, Suite 800  
Washington, DC 20005  
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**ECIA**

Electronic Components Industry  
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13873 Park Center Road, Suite 315  
Herndon, VA 20171  
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Laura Donohoe  
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**HL7**

Health Level Seven  
3300 Washtenaw Avenue, Suite 227  
Ann Arbor, MI 48104  
www.hl7.org

Karen Van Hentenryck  
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**IAPMO (ASSE Chapter)**

ASSE International Chapter of IAPMO  
18927 Hickory Creek Drive, Suite 220  
Mokena, IL 60448  
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Terry Burger  
terry.burger@asse-plumbing.org

**ICC**

International Code Council  
4051 Flossmoor Road  
Country Club Hills, IL 60478  
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**IEEE (ASC C63)**

Institute of Electrical and Electronics  
Engineers  
445 Hoes Lane  
Piscataway, NJ 08854  
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Jennifer Santulli  
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**IICRC**

The Institute of Inspection, Cleaning and  
Restoration Certification  
4043 South Eastern Avenue  
Las Vegas, NV 89119  
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**ITI (INCITS)**

InterNational Committee for Information  
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# ISO & IEC Draft International Standards



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

## COMMENTS

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

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

## ORDERING INSTRUCTIONS

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

## ISO Standards

### Agricultural food products (TC 34)

ISO/DIS 15914-2, Animal feeding stuffs - Enzymatic determination of starch - Part 2: Method by enzymatic determination with a hexokinase system and potassium hydroxide dispersion - 7/6/2023, \$58.00

### Audit data collection (TC 295)

ISO/DIS 5401, Audit data collection - Customs and indirect taxes extension - 7/2/2023, \$102.00

### Cryogenic vessels (TC 220)

ISO 21013-1:2021/DAMd 1, - Amendment 1: Cryogenic vessels - Pressure-relief accessories for cryogenic service - Part 1: Reclosable pressure-relief valves - Amendment 1 - 6/30/2023, \$53.00

ISO/DIS 21009-2, Cryogenic vessels - Static vacuum insulated vessels - Part 2: Operational requirements - 7/6/2023, \$71.00

### Ferrous metal pipes and metallic fittings (TC 5)

ISO/DIS 16132, Ductile iron pipes and fittings - Seal coats for cement mortar linings - 7/1/2023, \$77.00

### Implants for surgery (TC 150)

ISO/DIS 7197, Neurosurgical implants - Sterile, single-use hydrocephalus shunts - 7/6/2023, \$46.00

### Natural gas (TC 193)

ISO/DIS 2611-1, Analysis of natural gas - Biomethane - Determination of halogenated compounds - Part 1: HCl and HF content by ion chromatography - 7/2/2023, \$62.00

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

ISO/DIS 23616, Cleaning, inspection and repair of firefighters personal protective equipment (PPE) - 6/30/2023, \$107.00

### Road vehicles (TC 22)

ISO/DIS 4107, Commercial vehicles - Wheel-hub attachment dimensions - 7/6/2023, \$29.00

ISO/DIS 5216, Commercial road vehicles - Ball races - Interchangeability - 7/1/2023, \$33.00

### Rubber and rubber products (TC 45)

ISO/DIS 7681, Natural rubber field latex - Determination of dry rubber content - 6/30/2023, \$40.00

ISO/DIS 7836, Natural rubber - Identification of  $\beta$ -sitosterol - 6/30/2023, \$33.00

ISO/DIS 6916-2, Flexible cellular polymeric materials - Sponge and expanded cellular rubber products - Specification - Part 2: Mouldings and extrusions - 7/1/2023, \$82.00

### Small craft (TC 188)

ISO 11812:2020/DAMd 1, - Amendment 1: Small craft - Watertight or quick-draining recesses and cockpits - Amendment 1 - 7/2/2023, \$53.00

### Welding and allied processes (TC 44)

ISO/DIS 18276, Welding consumables - Tubular cored electrodes for gas-shielded and non-gas-shielded metal arc welding of high strength steels - Classification - 6/30/2023, \$82.00



## ISO/IEC JTC 1, Information Technology

ISO/IEC 19763-12:2015/DAmD 1, - Amendment 1: Information technology - Metamodel framework for interoperability (MFI) - Part 12: Metamodel for information model registration - Amendment 1: Alignment with Edition 4 of ISO/IEC 11179-3 - 7/2/2023, \$29.00

ISO/IEC 19763-16:2021/DAmD 1, - Amendment 1: Information technology - Metamodel framework for interoperability (MFI) - Part 16: Metamodel for document model registration - Amendment 1: Alignment with Edition 4 of ISO/IEC 11179-3 - 7/2/2023, \$33.00

ISO/IEC DIS 19785-4, Information technology - Common biometric exchange formats framework - Part 4: Security block format specifications - 6/30/2023, \$82.00

### Other

ISO/IEC DIS DGuide 98-1, Guide to the expression of uncertainty in measurement - Part 1: Introduction - 7/3/2023, \$62.00

## IEC Standards

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

94/857/CD, IEC 61810-7-2 ED1: Electrical relays - Tests and Measurements - Part 7-2: Mechanical tests and weighing, 06/09/2023

94/858/CD, IEC 61810-7-21 ED1: Electrical relays - Tests and Measurements - Part 7-21: Thermal Endurance, 06/09/2023

94/856/CD, IEC 61810-7-8 ED1: Electrical relays - Tests and Measurements - Part 7-8: Timing, 06/09/2023

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

46F/641/CD, IEC 60153-2 ED4: Hollow metallic waveguides - Part 2: Relevant specifications for ordinary rectangular waveguides, 07/07/2023

46/940/NP, PNW 46-940 ED1: Radio frequency and coaxial cable assemblies- Part 4-4: Detail specification for multi channel semi-rigid cable assemblies, frequency up to 6000MHz, with type 50-5 semi-rigid coaxial cable, 07/07/2023

46/938/NP, PNW TS 46-938 ED1: Radio frequency cable assemblies - Part 1-1: Additional general requirements and test methods for test cable assemblies, 07/07/2023

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

40/3034/CDV, IEC 60939-3 ED2: Passive filter units for electromagnetic interference suppression - Part 3: Passive filter units for which safety tests are appropriate, 07/07/2023

### Electrical accessories (TC 23)

23H/527/CD, IEC TS 62196-7 ED1: Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 7: Vehicle adapter, 07/07/2023

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

62D/2034/CDV, ISO 81060-2/AMD2 ED3: Amendment 2 - Non-invasive sphygmomanometers - Part 2: Clinical investigation of intermittent automated measurement type, 07/07/2023

### Electrostatics (TC 101)

101/683/CD, IEC TS 61340-5-6 ED1: Electrostatics - Part 5-6: Protection of electronic devices from electrostatic phenomena - Process Assessment Techniques, 06/09/2023

### Fibre optics (TC 86)

86A/2323/CD, IEC TR 62284 ED2: Effective area measurements of single-mode optical fibres - Guidance, 07/07/2023

### Fire hazard testing (TC 89)

89/1567/CD, IEC TS 60695-2-20 ED4: Fire hazard testing - Part 2-20: Glowing/hot-wire based test methods - Hot wire coil test method - Apparatus, verification, test method and guidance, 07/07/2023

### High Voltage Direct Current (HVDC) transmission for DC voltages above 100 kV (TC 115)

115/330/NP, PNW TS 115-330 ED1: HVDC Installations - Guidelines on Asset Management, 07/07/2023

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

65E/990/CDV, IEC 63082-2 ED1: Intelligent Device Management - Part 2: Normative Requirements and Recommendations, 07/07/2023

### Insulators (TC 36)

36/564/FDIS, IEC 60383-1 ED5: Insulators for overhead lines with a nominal voltage above 1000 V - Part 1: Ceramic or glass insulator units for a.c. systems - Definitions, test methods and acceptance criteria, 05/26/2023

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

80/1069/CDV, IEC 61097-12/AMD2 ED1: Amendment 2 - Global maritime distress and safety system (GMDSS) - Part 12: Survival craft portable two-way VHF radiotelephone apparatus - Operational and performance requirements, methods of testing and required test results, 07/07/2023

**Nuclear instrumentation (TC 45)**

45B/1029/CD, IEC 61577-6 ED1: Radiation protection instrumentation - Radon and radon decay product measuring instruments - Part 6: Passive integrating radon measurement systems using solid-state nuclear track detectors, 07/07/2023

**Performance of household electrical appliances (TC 59)**

59K/371/CD, IEC 60705 ED5: Household microwave ovens - Methods for measuring performance, 07/07/2023

**Power system control and associated communications (TC 57)**

57/2589/NP, PNW TS 57-2589 ED1: Distribution automation using distribution line carrier systems - Part 5-x: Medium-voltage High Speed Power Line Communication systems, 07/07/2023

**Printed Electronics (TC 119)**

119/430/NP, PNW 119-430 ED1: Future IEC 62899-402-X ED1: Printed electronics - Part 402-X: Printability - Measurement of qualities - Shape pattern dimension, 07/07/2023

**Semiconductor devices (TC 47)**

47D/952/NP, PNW 47D-952 ED1: Future IEC 63378-4 ED1: Thermal evaluation board specifications for fine pitch semiconductor packages, 07/07/2023

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

96/576/CDV, IEC 61558-2-5 ED3: Safety of transformers, reactors, power supply units and combinations thereof - Part 2 -5: Particular requirements and test for transformer for shavers, power supply units for shavers and shaver supply units, 07/07/2023

96/579(F)/FDIS, IEC 61558-2-7 ED3: Safety of transformers, reactors, power supply units and combinations thereof - Part 2 -7: Particular requirements and tests for transformers and power supply units for toys, 05/19/2023

**Switchgear and controlgear (TC 17)**

17A/1377/DTS, IEC TS 62271-314 ED1: High-voltage switchgear and controlgear - Part 314: Direct current disconnectors and earthing switches, 07/07/2023

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

121B/177(F)/FDIS, IEC 62208 ED3: Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements, 05/05/2023

**ISO/IEC JTC 1, Information Technology****(JTC1 )**

JTC1-SC25/3148/CD, ISO/IEC 14763-5 ED1: Information technology - Implementation and operation of customer premises cabling - Part 5 Sustainability, 08/04/2023

JTC1-SC25/3149/CD, ISO/IEC 18012-3 ED1: Information Technology - Home Electronic System - Guidelines for product interoperability - Part 3: Lexicon, 06/09/2023



# Newly Published ISO & IEC Standards

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

## ISO Standards

### Agricultural food products (TC 34)

[ISO 7124:2023](#), Eggs and egg products - Determination of fipronil and metabolites residues - Liquid chromatography tandem mass spectrometry method, \$116.00

[ISO 8586:2023](#), Sensory analysis - Selection and training of sensory assessors, \$210.00

[ISO 22935-1:2023](#), Milk and milk products - Sensory analysis - Part 1: Recruitment, selection, training and monitoring of assessors, \$116.00

[ISO 22935-2:2023](#), Milk and milk products - Sensory analysis - Part 2: Methods for sensory evaluation, \$157.00

[ISO 22935-3:2023](#), Milk and milk products - Sensory analysis - Part 3: Method for evaluation of compliance with product specifications for sensory properties by scoring, \$77.00

### Aircraft and space vehicles (TC 20)

[ISO 21350:2023](#), Space systems - Off-the-shelf item utilization, \$116.00

### Biotechnology (TC 276)

[ISO 20404:2023](#), Biotechnology - Bioprocessing - General requirements for the design of packaging to contain cells for therapeutic use, \$157.00

### Building construction (TC 59)

[ISO 21928-2:2023](#), Sustainability in buildings and civil engineering works - Sustainability indicators - Part 2: Framework for the development of indicators for civil engineering works, \$263.00

### Geographic information/Geomatics (TC 211)

[ISO 19160-4:2023](#), Addressing - Part 4: International postal address components and template language, \$237.00

### Information and documentation (TC 46)

[ISO 28560-3:2023](#), Information and documentation - RFID in libraries - Part 3: Fixed length encoding, \$157.00

### Optics and optical instruments (TC 172)

[ISO 9022-23:2023](#), Optics and photonics - Environmental test methods - Part 23: Low pressure combined with cold, ambient temperature and dry or damp heat, \$116.00

### Plastics (TC 61)

[ISO 5684:2023](#), Adhesives - Floor covering adhesives and products for flooring installation - Assessment and classification of low volatile organic compound (VOC) products, \$77.00

### Road vehicles (TC 22)

[ISO 23684:2023](#), Road vehicles - Technical personnel dealing with natural gas vehicles (NGVs) - Training and qualification, \$183.00

[ISO 11992-4:2023](#), Road vehicles - Interchange of digital information on electrical connections between towing and towed vehicles - Part 4: Diagnostic communication, \$183.00

### Tractors and machinery for agriculture and forestry (TC 23)

[ISO 7914:2023](#), Forestry machinery - Portable chain-saws - Minimum handle clearance and sizes, \$77.00

## ISO Technical Reports

### Fluid power systems (TC 131)

[ISO/TR 6057:2023](#), Hydraulic fluid power - Sample calculations for ISO 11171, \$157.00

### Road vehicles (TC 22)

[ISO/TR 6409:2023](#), Road vehicles - Analysis of technical changes of ISO 5011:2020, \$116.00

## ISO Technical Specifications

### Biotechnology (TC 276)

[ISO/TS 23494-1:2023](#), Biotechnology - Provenance information model for biological material and data - Part 1: Design concepts and general requirements, \$77.00

### Energy management and energy savings (TC 301)

[ISO/TS 50011:2023](#), Energy management systems – Assessing energy management using ISO 50001:2018, \$183.00

## IEC Standards

### Fibre optics (TC 86)

[IEC 60794-1-309 Ed. 1.0 b:2023](#), Optical fibre cables - Part 1 -309: Generic specification - Basic optical cable test procedures - Cable element test methods - Bleeding and evaporation of filling or flooding compounds, Method G9, \$25.00

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

[IEC 62769-103-4 Ed. 3.0 b:2023](#), Field Device Integration (FDI)®  
- Part 103-4: PROFINET, \$278.00

[IEC 62769-109-1 Ed. 3.0 b:2023](#), Field device integration (FDI)® -  
Part 109-1: Profiles - HART® and WirelessHART®, \$329.00

[IEC 62769-150-1 Ed. 2.0 b:2023](#), Field device integration (FDI)® -  
Part 150-1: Profiles - ISA100, \$234.00

[S+ IEC 62769-103-4 Ed. 3.0 en:2023 \(Redline version\)](#), Field  
Device Integration (FDI)® - Part 103-4: PROFINET, \$362.00

[S+ IEC 62769-109-1 Ed. 3.0 en:2023 \(Redline version\)](#), Field  
device integration (FDI)® - Part 109-1: Profiles - HART® and  
WirelessHART®, \$428.00

[S+ IEC 62769-150-1 Ed. 2.0 en:2023 \(Redline version\)](#), Field  
device integration (FDI)® - Part 150-1: Profiles - ISA100,  
\$305.00

# International Organization for Standardization (ISO)

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## Call for Comment on ISO Standard

### Integrated Pest Management for Crops

**Comment Deadline: May 26, 2023**

SAC, the ISO member body for China, has submitted to ISO a proposal for a new field of ISO technical activity on Integrated Pest Management for Crops, with the following scope statement:

Standardization of integrated pest management in crop production process, including management services, effectiveness assessments, testing and analysis and other related standards which involved in the process of monitoring and forecasting, prevention and control and emergency measures.

Excluded:

- Tractors and machinery for agriculture and forestry (covered by ISO/TC 23)
- Common names for pesticides and other agrochemicals (covered by ISO/TC 81)
- Personal safety -- Personal protective equipment (covered by ISO/TC94)

Note: Crops refer to all kinds of plants cultivated in agriculture, including food crops, cash crops, industrial raw material crops, feed crops, etc.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team ([isot@ansi.org](mailto:isot@ansi.org)), with a submission of comments to Steve Cornish ([scornish@ansi.org](mailto:scornish@ansi.org)) by close of business on Friday, May 26, 2023.

## Establishment of ISO Technical Committee

### ISO/TC 17/SC 21 – Environment related to climate change in the iron and steel industry

.ISO/TC 17 – *Steel* has created a new ISO Subcommittee on *Environment related to climate change in the iron and steel industry* (ISO/TC 17/SC 21). The Secretariat has been assigned to Japan (JISC).

ISO/TC 17/SC 21 operates under the following scope:

*Development of standards in the field of Environment related to climate change in the iron and steel industry within the scope of ISO/TC 17:*

*Standardization in the field of cast, wrought and cold-formed steel, including technical delivery conditions for steel tubes for pressure purposes.*

*Excluded: steel tubes within the scope of ISO/TC 5; line pipe, casing, tubing and drill pipe within the scope of ISO/TC 67; methods of mechanical testing of metals within the scope of ISO/TC 164.*

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

# International Organization for Standardization (ISO)

## ISO New Work Item Proposal

### Guidelines for auditing management systems

**Comment Deadline: April 21, 2023**

The American Society for Quality (ASQ), intends to submit to ISO a New Work Item Proposal to revise ISO 19011:2018 *Guidelines for auditing management systems*, with the following scope statement:

*This document provides guidance on auditing management systems, including the principles of auditing, managing an audit programme and conducting management system audits, as well as guidance on the evaluation of competence of individuals involved in the audit process. These activities include the individual(s) managing the audit programme, auditors and audit teams. It is applicable to all organizations that need to plan and conduct internal or external audits of management systems or manage an audit programme. The application of this document to other types of audits is possible, provided that special consideration is given to the specific competence needed.*

If approved, the Project Committee ISO/PC 302 would be re-activated.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team ([isot@ansi.org](mailto:isot@ansi.org)) with submission of comments to Steve Cornish ([scornish@ansi.org](mailto:scornish@ansi.org)) by close of business on Friday, April 21, 2023.

## Re-establishment of ISO Technical Committee

### ISO/TC 101 – Continuous mechanical handling equipment

The ISO Technical Management Board (TMB) has recently approved the re-establishment of ISO/TC 101 – *Continuous mechanical handling equipment*. The Secretariat has been assigned to Germany (DIN).

ISO/TC 101 operates under the following scope:

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

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

# Meeting Notices (International)

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## ANSI Accredited U.S TAG to ISO

### JTC 1/SC 36, Information technology for learning, education and training

#### Establishment of a New Technical Committee INCITS/Education - Zoom on Tuesday, May 23, 2023 Meeting Notice and Call for Members

At the March 2023 INCITS Executive Board meeting, a new Technical Committee (TC), INCITS/Education, was established. The TC will serve as the **U.S. TAG to ISO/IEC JTC 1 Subcommittee 36 - Information Technology for Learning, Education and Training**.

The scope of work is standardization in the field of information technologies for learning, education, and training to support individuals, groups, or organizations, and to enable interoperability and reusability of resources and tool.

Excluded from this scope are:

- standards or technical reports that define educational standards (competencies), cultural conventions, learning objectives, or specific learning content.
- work done by other ISO or IEC TCs, SCs, or WGs with respect to their component, specialty, or domain. Instead, when appropriate, normative or informative references to other standards shall be included. Examples include documents on special topics such as multimedia, web content, cultural adaptation, and security.

RSVPs for the meeting should be submitted to Bill Ash ([bash@itic.org](mailto:bash@itic.org)) as soon as possible.

Organizational Meeting – Tuesday, May 23, 2023. The organizational meeting of the new TC on INCITS/Education will be held electronically via **Zoom on Tuesday, May 23, 2023** (1:00 PM to 4:00 PM (Eastern) / 10:00 AM to 1:00 PM (Pacific)).

Membership – Membership in INCITS is open to all directly and materially interested parties who return a signed INCITS Membership Agreement and pay the applicable service fees. For more information, click [here](#).

# Registration of Organization Names in the United States

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

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

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

## Public Review

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

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



# Proposed Foreign Government Regulations

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## Call for Comment

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

### Online Resources:

WTO's ePing SPS&TBT platform: <https://epingalert.org/>

Register for ePing: <https://epingalert.org/en/Account/Registration>

WTO committee on Agriculture, Sanitary and Phytosanitary (SPS) measures:

[https://www.wto.org/english/tratop\\_e/sps\\_e/sps\\_e.htm](https://www.wto.org/english/tratop_e/sps_e/sps_e.htm)

WTO Committee on Technical Barriers to Trade (TBT): [https://www.wto.org/english/tratop\\_e/tbt\\_e/tbt\\_e.htm](https://www.wto.org/english/tratop_e/tbt_e/tbt_e.htm)

USA TBT Enquiry Point: <https://www.nist.gov/standardsgov/usa-wto-tbt-enquiry-point>

Comment guidance:

<https://www.nist.gov/standardsgov/guidance-us-stakeholders-commenting-notifications-made-wto-members-tbt-committee>

NIST: <https://www.nist.gov/>

TANC: <https://www.trade.gov/office-trade-agreements-negotiation-and-compliance-tanc>

Examples of TBTs: [https://tcc.export.gov/report\\_a\\_barrier/trade\\_barrier\\_examples/index.asp](https://tcc.export.gov/report_a_barrier/trade_barrier_examples/index.asp).

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

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

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

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

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

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



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

**First Public Review Draft**

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

**First Public Review (April 2023)  
(Draft shows Proposed Changes to Current Standard)**

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

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

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

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

## FOREWORD

*This proposed addendum corrects misalignment between ANSI/ASHRAE Standard 15.2 and UL 60335-2-40, Household and Similar Electrical Appliances — Safety — Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers to ensure that listed products are correctly installed, which is critical for AHJs, installers, and others.*

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

### Addendum c to Standard 15.2-2022

***Modify Section 4 as follows. The remainder of Section 4 remains unchanged.***

## 4. DEFINITIONS

### 4.1 Defined Terms

[ ... ]

***\*leak detection system:*** a sensing system that responds to *refrigerant* leaking from a *refrigeration system*.

[ ... ]

***Modify Section 5 as follows. The remainder of Section 5 remains unchanged.***

## 5. GENERAL REQUIREMENTS

**5.1\*** ***Equipment Requirements.*** Refrigeration systems using A2L refrigerants shall be listed and labeled to UL 60335-2-40/CSA-C22.2 No. 60335-2-40-19<sup>2</sup> or UL 484/CSA C22.2 No. 117<sup>3</sup>. Refrigeration systems using A1 refrigerants shall be listed to UL 60335-2-40/CSA-C22.2 No. 60335-2-40-19, UL 484/CSA C22.2 No. 117, or UL 1995/CSA C22.2 No. 236<sup>4</sup>.

- The equipment shall be installed in accordance with its listing.
- ~~Refrigerant-Leak detection systems required by~~ shall comply with Section 5.3.
- The equipment shall be marked with the refrigerant employed in the system on the name plate. Indoor and outdoor sections of the same split system shall be marked with the same refrigerant safety group.

[ ... ]

**5.3\*** ***Manufacturer's Refrigerant-Leak Detection System Requirements.*** Refrigeration systems using an A2L refrigerant with more than  $m_1$  refrigerant charge and not using continuous circulation airflow or continuous ventilation shall have an integral refrigerant-leak detection system unless the system complies with one of the following:

- a. Ducted HVAC systems with the equipment and all duct openings located 5.9 ft (1.8 m) or greater above the finished floor with a system refrigerant charge ( $m_s$ ) less than the maximum refrigerant charge ( $m_{max}$ ) as determined by Sections 9.5 ~~and 9.6~~ using the dispersal floor area as determined by Section 9.4.2.2;

- b. ~~Ducted~~ Ductless HVAC systems with a *system refrigerant charge* ( $m_s$ ) less than the *maximum refrigerant charge* ( $m_{max}$ ) as determined by Sections 9.5 ~~and 9.6~~, and with the indoor *equipment* located 3.9 ft (1.2 m) or greater above the finished floor; or
- c. *Refrigeration systems* other than those covered in Sections 5.3(a) and (b) with a *system refrigerant charge* ( $m_s$ ) less than the *maximum refrigerant charge* ( $m_{max}$ ) as determined by Sections 9.5 ~~and 9.6~~.

**5.3.1** The ~~refrigerant-leak~~ refrigerant-leak *detection system* shall comply with the following:

- a. Use a nonadjustable set point to initiate *mitigation actions*.
- b. Recalibration of the ~~refrigerant detector~~ refrigerant detector *or leak detection system* shall not be permitted.
- c. Capable of detecting the loss of the *refrigerant* contained in the *refrigeration system*.
- d. Have *access* for replacement of ~~refrigerant-leak~~ refrigerant-leak *detection system* components.
- e. Have self-diagnostics to determine operational status of ~~the a~~ a *refrigerant* sensing element, if employed.
- f. Energize air *circulation fans* of the *equipment* and if applicable, ventilation fans upon failure of a self-diagnostic check.
- g. Tested under either of the following two conditions to ensure an output signal is initiated in not more than
  1. 15 seconds when sensing a *refrigerant* concentration of  $\leq 25\%$  LFL or
  2. 10 seconds when sensing a *refrigerant* concentration of  $> 25\%$  LFL but  $\leq 100\%$  LFL.

**5.3.2 Mitigation Action Requirements.** When a ~~refrigerant-leak~~ refrigerant-leak *detection system* provides an output signal, the following *mitigation actions* shall occur within 15 seconds:

- a. Energize the air *circulation fan(s)* of the *equipment* per *manufacturer's installation instructions*.
- b. Open zoning dampers installed in the *ductwork* connected to the *refrigeration system*.
- c. Activate required mechanical *ventilation* per Section 11, "Mechanical Ventilation."
- d. De-energize electric *duct heaters* installed in the *ductwork* connected to the *refrigeration system*.

**Exception to 5.3.2(d):** De-energization of *duct heaters* is not required when both of the following are met:

- 1. There is proof of airflow before the *duct heater* is energized, and
  - 2. Airflow through the *duct heater* is greater than 200 fpm (1.02 m/s).
- e. Close the safety shut-off valves.

[ ... ]

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

## 7. LOCATION OF REFRIGERATION SYSTEMS AND RESTRICTIONS

[ ... ]

- 7.1.1 Outdoor Equipment.** *Equipment* installed outdoors shall be marked "For outdoor use only" per UL 1995/CSA C22.2 No. 236<sup>4</sup> or rated IPX4 or higher per UL 60335-2-40/CSA-C22.2 No. 60335-2-40<sup>2-19</sup>.

[ ... ]

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

## 9. REFRIGERANT CHARGE LIMITS

[ ... ]

- 9.4.2.1 Spaces Connected by Ducted HVAC Systems with a Refrigerant Detection System or Ducted HVAC**

**Systems Using Continuous Air Circulation.** The aggregate floor area of *spaces* connected to the same supply air distribution *ductwork* shall be used as the dispersal floor area.

[ ... ]

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

## 11. REFRIGERANT CHARGE LIMITS

[ ... ]

- 11.1.2 Airflow Control Devices.** Airflow control devices, such as air valves or dampers, shall be driven fully opened when a ~~refrigerant-leak~~ *refrigerant-leak detection system* detects *refrigerant*. Zone dampers, where present, shall fully open when a *refrigerant detection system* detects *refrigerant*.

[ ... ]

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

## 12. ADD-ON HEAT PUMPS

[ ... ]

- 12.1.1** The ~~refrigerant detector(s)-sensor(s)~~ of the ~~refrigerant-leak~~ *refrigerant-leak detection system* shall be an integral part of the indoor coil assembly.
- 12.1.2** Wiring connecting the ~~refrigerant-leak~~ *refrigerant-leak detection system* to a furnace assembly shall use, at a minimum, 18 AWG wire with a minimum insulation thickness of 0.0625 in. (1.58 mm), or the wire shall be protected from damage.
- 12.1.3\*** Upon detection of a leak, the ~~refrigerant-leak~~ *refrigerant-leak detection system* shall activate the indoor fan to supply full stage cooling airflow.
- 12.1.4** The airflow speed setting selected on the furnace shall provide the airflow specified in the *add-on heat pump manufacturer's installation instructions*.
- 12.1.5** The ~~refrigerant-leak~~ *refrigerant-leak detection system* shall be tested for proper orientation after installation in accordance with the *manufacturer's installation instructions*.

[ ... ]

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

## INFORMATIVE APPENDIX A—EXPLANATORY MATERIAL

[ ... ]

### Section 4, “Definitions”

[ ... ]

***leak detection system:*** these systems include various sensing technologies such as gas sensing, ultrasonic sensing, or other such methods demonstrated to be sufficiently effective. *A refrigerant detection system is an example of a leak detection system.*

[ ... ]

# BSR/IICRC S800 Standard for Professional Inspection of Textile Floor Coverings

Second Limited Public Review (April 2023)

(Draft shows Proposed Changes to Current Standard)

**Note to Reviewers:** *These changes are indicated in the text by underlining (for additions) and strikethrough (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.*

## Section B Definitions

**Inspection report:** an inspection report guides the reader through the inspection and may incorporate photographs and test data.

**Tufted carpet:** a style of carpet manufactured by the process of inserting pile yarns into a primary backing fabric through needles and then laminated for dimensional stability with a secondary backing.

## Section 1 The Professional Carpet Inspector

Carpet is a complex textile floorcovering that is manufactured with a variety of techniques, construction components, and styles.

Due to interrelated industry complexities, it is inevitable that end-user complaints about carpets, whether real or perceived, will arise. Therefore, specially trained carpet inspectors should have general working knowledge in all areas of manufacturing, installation, use, and maintenance, so that they can employ scientific methodologies in investigating and documenting issues/concerns.

### 1.2 Inspector Responsibilities

Inspectors should observe standards of professional decorum, dress, and grooming to maintain their credibility and that of the commissioning party. Communications with end-users should be confined to fact-gathering without covering extraneous information, drawing speculative or premature conclusions, or making warranty interpretations. Inspectors should understand that even innocent comments to Materially Interested Parties (MIPs) can be misunderstood or misconstrued and cause issues at a later time.

## Section 3 Writing Inspection Reports

Communication through the written word is essential for inspectors to be able to describe and explain conditions encountered during the inspection process. Inspection reports should be factual, accurate, unbiased, and they should also be grammatically correct to enable commissioning parties to envision what the inspector sees in the field. An inspection report should guide the Materially Interested Parties (MIPs) through the inspection process, providing a clear understanding of the physical concerns discovered during the inspection.

### 3.1 Application

Inspectors should understand that they are responsible and accountable for the format and for the information included in their written reports. Inspector's opinions should be based solely on established facts, testing, manufacturing specifications/installation guidelines, and industry standards.

#### 3.3.2 Inspector Observations

1 The inspector's observations should describe the following conditions surrounding the issues and describe  
2 them in industry-accepted terminology:

- 3
- 4     ▪ evaluate and document the issues;
- 5     ▪ while observing, inspectors should perform photographic documentation of the affected and  
6 unaffected areas;
- 7     ▪ a designation of specific rooms or areas in which the carpet of concern is located and, as  
8 appropriate, physical conditions (e.g., lighting, furnishings, fixtures) that are observed if applicable;
- 9     ▪ if claimants voice concerns that are different from, or in addition to those specified by the  
10 commissioning party, depending on the nature of the complaint, inspectors should use professional  
11 judgment in deciding if those complaints should be inspected and addressed in the written report;  
12 and
- 13     ▪ if inspectors observe non-compliant issues that are not specified by the commissioning party or  
14 end-user, those issues should be documented and discussed with the commissioning party to  
15 obtain guidance before including them in the written report.

### 16 **3.3.3 Field or Laboratory Testing**

17 It may be necessary for the inspector to confirm the product they are commissioned to inspect by performing  
18 a fiber identification test and comparing it with the inspection request (e.g., invoice, bill of sale, warranty  
19 information).

20 Field testing may be necessary to include using tools and techniques to reveal conditions relating to the  
21 claim. Photo documentation should be used to clarify and assist the commissioning party in understanding  
22 field testing procedures or results.

23 Laboratory testing of carpet samples, if available, may be necessary to be performed when requested by  
24 the commissioning party. Laboratory testing may be necessary to be considered by inspectors, with the  
25 commissioning party's prior written approval, to document conditions that cannot be determined in the field.  
26 Written permission should be obtained from the commissioning party and end user prior to destructive  
27 testing.

## 28 **3.4 Documentation**

29 Inspectors should document information (i.e., notes) as soon as the claimant begins discussing events  
30 leading up to the request for inspection, answering questions, and providing a chronological history of the  
31 claim. Documentation should continue with recording data from field tests. Inspectors should be aware that  
32 field notes are subject to discovery in litigation.

## 33 **Section 4 Inspection Tools, Equipment, and Materials**

34 Before a carpet inspection can begin, inspectors should have the appropriate tools, equipment, and  
35 materials, and be trained in their use to perform inspections.

36 This document is not designed to be a training manual.

### 37 **4.1 Tools, Equipment, and Materials for Inspecting Textile Floorcoverings**

38 Inspectors may need to have the following tools and equipment (including, but not be limited to):

- 39
- 40     ▪ pin type moisture meter;
- 41     ▪ thermo-hygrometer;
- 42     ▪ digital camera;
- 43     ▪ thermal imaging camera;
- 44     ▪ small marking devices to point out affected locations in photographs;
- 45     ▪ high-intensity light;

- 1       ▪ ultraviolet light;
- 2       ▪ magnification device;
- 3       ▪ tape measure;
- 4       ▪ machinist ruler;
- 5       ▪ digital caliper;
- 6       ▪ 6' and/or 10' straight edge or dry line (string)/or laser level, carpenter square, T-square;
- 7       ▪ pH test strips, and/or digital pH meter, distilled water, clean, white towel, cotton tip swabs;
- 8       ▪ blue painters' tape;
- 9       ▪ surface temperature reader;
- 10      ▪ thin pry bar/molding lifter;
- 11      ▪ knife (utility), pliers, carpet awl;
- 12      ▪ knee pads;
- 13      ▪ hook and loop roller;
- 14      ▪ knee kicker;
- 15      ▪ tuft bind measuring device;
- 16      ▪ urine test strips;
- 17      ▪ fiber ID kit should include;
- 18          ○ propane/butane lighter;
- 19          ○ tweezers;
- 20          ○ formic acid;
- 21          ○ sodium hypochlorite,
- 22          ○ red dye #40.
- 23      ▪ spotting kit should include;
- 24          ○ personal protective safety equipment as needed;
- 25          ○ bone spatula;
- 26          ○ tamping brush;
- 27          ○ hand groomer/brush;
- 28          ○ all-purpose spot remover;
- 29          ○ volatile dry solvent (VDS), and
- 30          ○ non-volatile dry solvent (NVDS).
- 31      ▪ testing chemicals, and
- 32          ○ clear ammonia;
- 33          ○ acetic acid;
- 34          ○ hydrogen peroxide, and
- 35          ○ reducing agent.
- 36      ▪ spare batteries.

## 37

### 38       **Section 6       Chain of Custody, Storage, and Handling**

39

40

41 Proper handling and storage of carpet and installation products should comply with manufacturers' guidelines and industry standards.

## 42

### 43

### 44       **Section 9       Types of Complaints: Manufacturing Defects**

#### 45

#### 46       **9.2.3       Backing Issues**

47

48 Inspectors should be familiar with carpet backing types and constructions along with their performance characteristics. They should also be prepared to inspect and evaluate claims involving backings, coatings, and finishing (laminating) processes, and the role each plays in carpet appearance and performance.

49

50 Backing-related complaints include, but are not limited to:

- 51
- 52
- 53       ▪ secondary backing seams not removed during finishing;
- 54       ▪ secondary backing wrinkles, and
- 55       ▪ delamination.



## Section 13 Types of Complaints: Soiling and Spots

### 13.1.2 Apparent Soil

Traffic lanes can be characterized by a type of appearance change, often called apparent soil. Apparent soil is caused by shadows or the fiber not reflecting light normally. The fiber does not reflect light normally when it is scratched by gritty and abrasive soils and is also referred to as "traffic lane gray".

## Section 14 Types of Complaints: Stains, Discolorations, and Yellowing

### 14.4 Yellowing

During the inspection, the inspector should observe, collect, and document the following:

- when the yellowing was first noticed;
- if the yellowing stopped or if it has continued getting worse over time;
- whether or not the carpet has been cleaned, and if so, by what method, by whom, and with what frequency;
- if the yellowing appears only on yarn tips or if it extends to the base of tufts;
- the pH of the affected and unaffected areas of the carpet;
- the pattern and size of the yellowing (e.g., spills, drips, splatters, large areas);
- whether or not close proximity parking lots or driveways have been paved or sealed recently,
- was the carpet subject to overspray of disinfectant or application of antimicrobial biocides and
- if the yellowing is restricted to traffic areas.

**Multiple revisions to NSF/ANSI 40 (40i51r2) and NSF/ANSI 245 (245i32r2)**

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

NSF/ANSI Standard  
for Wastewater Technology –

# Residential Wastewater Treatment Systems

## 1 General

### 1.1 Purpose

The purpose of this standard is to establish minimum materials, design and construction, and performance requirements for residential wastewater treatment systems. This standard also specifies the minimum literature that manufacturers shall supply to authorized representatives and owners, as well as the minimum service-related obligations that manufacturers shall extend to owners.

### 1.2 Scope

This standard contains minimum requirements for residential wastewater treatment systems having rated treatment capacities between 1,514 LPD (400 GPD) and 5,678 LPD (1,500 GPD). Management methods for the treated effluent discharged from residential wastewater treatment systems are not addressed by this standard.

System components covered under other NSF or NSF/ANSI standards or criteria shall also comply with the requirements therein. This standard shall in no way restrict new system designs, provided such designs meet the minimum specifications described herein.

### 1.3 Alternate materials, design, and construction

While specific materials, designs, and constructions may be stipulated in this standard, systems that incorporate alternate materials, designs, or constructions may be acceptable when it is verified that such systems meet the applicable requirements.

### 1.4 Performance classification

For the purpose of this standard, systems are classified according to the chemical, biological, and physical characteristics of their effluents, as determined by the performance testing and evaluations described herein.

**Multiple revisions to NSF/ANSI 40 (40i51r2) and NSF/ANSI 245 (245i32r2)**

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All systems within a manufacturer's model series may be classified according to the performance testing and evaluation of the a system ~~with the smallest hydraulic capacity~~ within the series. Performance testing and evaluation of larger systems or systems rated at no less than 75% of the evaluated system within the series (having hydraulic treatment capacities within the scope of this standard) may not be necessary provided that the dimensions, hydraulics, mixing and filtering capabilities, and other applicable design characteristics are proportionately equivalent to the evaluated system.

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# Residential Wastewater Treatment Systems – Nitrogen Reduction

## 1 General

### 1.1 Purpose

The purpose of this Standard is to establish minimum materials, design and construction, and performance requirements for residential wastewater treatment systems providing for nitrogen reduction. This Standard also specifies the minimum literature that manufacturers shall supply to authorized representatives and owners, as well as the minimum service-related obligations that manufacturers shall extend to owners.

### 1.2 Scope

This Standard contains minimum requirements for residential wastewater treatment systems having rated treatment capacities of 1,514 L/d (400 gal/d) to 5,678 L/d (1500 gal/d) that are designed to provide reduction of nitrogen in residential wastewater. Management methods for the treated effluent discharged from these systems are not addressed by this Standard. A system, in the same configuration, must either be demonstrated to have met the Class I requirements of NSF/ANSI 40 *Residential Wastewater Treatment Systems*, or must meet the Class I requirements of NSF/ANSI 40 during concurrent testing for nutrient removal.

The water chemistry of a site for installation and use of these systems is critical to achieve expected water quality results. Before these systems are installed at a location, the water used within the residence must be analyzed to verify that there is sufficient alkalinity to achieve the system's performance. Refer to Annex I-1 for further explanation.

Natural systems involving features such as vegetation, wetlands, free-access or buried sand filters, and soil systems may be evaluated using this Standard as long as effluent samples are representative of all treated effluent discharged from the system, as sampled from a central point of collection of all treated effluent.

### 1.3 Alternate materials, design, and construction

While specific materials, designs, and constructions may be stipulated in this Standard, systems that incorporate alternate materials, designs, or constructions may be acceptable when it is verified that such systems meet the applicable requirements herein.

Tracking #40i51r2 et al  
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Revision to NSF/ANSI 40-2022  
Issue 51, Revision 2 (April 2023)

**Multiple revisions to NSF/ANSI 40 (40i51r2) and NSF/ANSI 245 (245i32r2)**

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#### **1.4 Performance classification**

For the purpose of this Standard, systems are classified according to the chemical, biological, and physical characteristics of their effluents, as determined by the performance testing and evaluations described herein. All systems within a manufacturer's model series may be classified according to the performance testing and evaluation of the a system with the smallest hydraulic capacity within the series. Performance testing and evaluation of larger systems or systems rated at no less than 75% of the evaluated system within the series (having hydraulic treatment capacities within the scope of this Standard) may not be necessary, provided that the dimensions, hydraulics, mixing, filtering, and biological treatment capabilities, and other applicable design characteristics are proportionately equivalent to the evaluated system.

## BSR/UL UL 60335-2-29, Standard for Household and Similar Electrical Appliances - Safety - Part 2-29: Particular Requirements for Battery Chargers

### 1. Clarification of requirements for automotive battery chargers

#### PROPOSAL

1DV.4 D2 *Modification to replace NOTE 102 of Clause 1 of the Part 2 with the following:*

NOTE 102 This standard does not apply to

- built-in battery chargers;
- battery chargers installed on land vehicles, including caravans;
- battery chargers installed on marine craft;
- automotive battery chargers intended to charge lead-acid engine-starter and other starting, lighting, and ignition (SLI) type batteries;
- battery chargers for e-mobility devices and e-bikes, provided the batteries are separately charged;
- battery chargers that are part of an appliance, the battery of which is not accessible to the user;
- battery chargers intended exclusively for industrial purposes where use by trained operators in an environment that is not accessible by the general public is relied upon as a measure of risk reduction;
- battery chargers intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);
- battery chargers for emergency lighting;
- supply units for electronic equipment;
- battery chargers for uninterruptable power supplies;
- DC distribution boards.

~~7.12DV D2 Modification to delete the fourth paragraph (automobile batteries) of the “Addition” to 7.12 in the Part 2.~~

### 2. Delete the 5VA flammability rating requirement of 30.2DV

#### PROPOSAL

#### 30 Resistance to heat and fire

This clause of Part 1 is applicable except as follows.

~~30.2DV DC Modification to add the following to 30.2 of the Part 1:~~

~~For STATIONARY APPLIANCES, polymeric enclosures that contain uninsulated LIVE PARTS shall have a 5VA flammability rating when tested in accordance with IEC 60695-11-20.~~

30.2.2 Not applicable.

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## BSR/UL 38, Standard for Safety for Manual Signaling Boxes for Fire Alarm Systems

### 1. Electronic Installation Wiring Diagram

## PROPOSAL

### 32 Installation Wiring Diagram

32.1 An installation wiring diagram shall be provided with any signaling box using more than one pair of field connections. The diagram may be attached to the unit or, if separate, shall be referenced in the marking attached to the unit with the drawing number and issue number or issue date. ~~It is permitted for the installation information (including the wiring diagram) to be provided via electronic means. If the information is provided via the internet, a bar code or URL that leads to the information, shall be marked on the product.~~

32.2 The drawing shall show a pictorial or schematic view of the installation terminals and lead connections. ~~A drawing not attached to the signaling box shall be marked with the name or identifying symbol of the manufacturer, drawing number, and issue number or issue date.~~

32.3 The installation wiring diagram referenced in 32.1 and containing the information required in 32.2 shall be made available by one or more of the following means:

- a) Marking attached to the product;
- b) Separate printed instructions;
- c) Electronic instructions within the basic product software; and
- d) Electronic media such as CD-ROM, thumb drive, website, etc. or equivalent.

32.4 When the installation wiring diagram is included as described in 32.3 (b), (c), and/or (d), the installation wiring diagram shall be referenced in the product marking by:

- a) Name of trademark of manufacturer;
- b) Drawing number and/or the equivalent identification; and
- c) Issue date, revision level, and/or release date.

**BSR/UL 498D, Standard for Safety for Attachment Plugs, Cord Connectors and Receptacles with Arcuate (Locking Type) Contacts**

**1. Clarification of requirements for receptacle grounding terminal**

**PROPOSAL**

26.1.4 Only one grounding terminal shall be provided on a grounding-type receptacle. The grounding terminal of a grounding-type receptacle shall only accept a single grounding conductor and not have feed-through capability.

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**BSR/UL 498F, Standard for Safety for Plugs, Socket-Outlets and Couplers with Arcuate (Locking Type) Contacts**

**1. Clarification of requirements for receptacle grounding terminal**

**PROPOSAL**

26.1.3 Only one grounding terminal shall be provided on a grounding-type receptacle. The grounding terminal of a grounding-type receptacle shall only accept a single grounding conductor and not have feed-through capability.

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## BSR/UL 858, Standard for Household Electric Ranges

### 1. Improvements to Abnormal Operation - Induction Surface Unit Cooking Oil Ignition Test

#### PROPOSAL

#### 47A Closed Loop Cooking Using Surface Units

47A.1 The temperature limiting function shall be demonstrated to comply with 60A.13 if it has a nominal rating of 350 W or greater.

#### 60A Abnormal Operation – Coil and Induction Surface Unit Cooking Oil Ignition Test

60A.1 Each ~~coil~~ surface unit provided as part of an appliance shall comply with 60A.3 ~~or 60A.13~~ if it has a nominal rating of 350 W or greater. Whenever a surface unit is equipped with user-selectable multiple heating zone configurations, each zone configuration shall be tested separately.

Exception: This requirement does not apply to non-circular induction surface units.

60A.1.1 The surface unit shall be allowed to operate for:

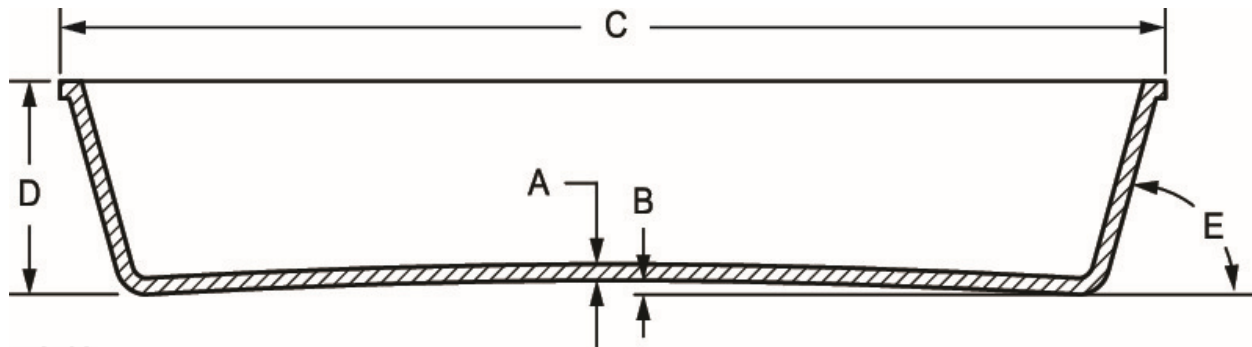
- a) 30 minutes for coil surface units.
- b) 15 minutes for induction surface units.

60A.2 When an appliance is equipped with multiple ~~coil~~ surface units of equivalent construction (including control system) and wattage, only one of those units need be subjected to this test. When applicable, the subjected unit should be that nearest the front of the appliance.

60A.3 A ~~coil~~ surface unit shall not cause ignition of cooking oil when tested as described in 60A.4 – 60A.12 or alternatively meet the temperature requirements of 60A.13.

~~60A.5 The cast iron pan specified in Table 60A.1 and Figure 60A.1 shall be placed on the center of the coil cooktop element. For purposes of selecting pan size, the heating element size shall be determined by the maximum heated diameter as shown in Figure 60A.2. A detailed specification for the reference pans can be found in AHAM ER 1:2017 clause 5.7.5.~~

**Figure 60A.1**  
**Pan dimensions**  
 (bottom curvature exaggerated for clarity)



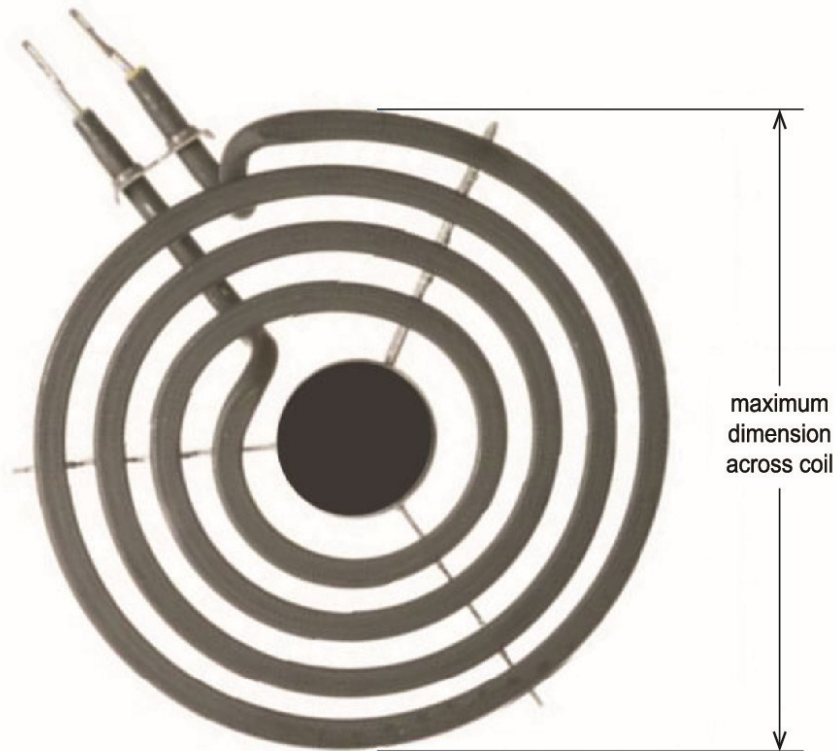
su2732

**Table 60A.1**  
**Reference cast iron test pan dimensions and oil amounts**

Heating Element Size per 60A.8 in (mm)	Reference Bottom Thickness A in (mm)	Reference Bottom Flatness B in (mm)	Reference Overall Diameter C in (mm)	Reference Height D in (mm)	Reference Side Angle E degrees	Oil Amount oz (g) ± 1g
≤ 7 in (178)	.15 (3.8) ± 0.010	0.010 (.25) ± 0.010	8.26 (210) ± 0.1	1.90 (48.3) ± 0.1	68 ± 5°	2 (58)
> 7 in 7 < X ≤ 10 (178 < X ≤ 254)	.15 (3.8) ± 0.010	.03 (0.8) ± 0.010	10.40 (264) ± 0.1	2.04 (52) ± 0.1	70 ± 5°	3.74 (106)
> 10 (254)	.15 (3.8) ± 0.010	0.03 (0.8) ± 0.010	12 (305) ± 0.1	2.04 (52) ± 0.1	69 ± 5°	5.54 (157)

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**Figure 60A.2**  
**Determination of coil heating element size**



su2733

60A.8.1 The cast iron pan specified in Table 60A.1 and Figure 60A.1 shall be placed on the center of the surface unit. For purposes of selecting pan size, the surface unit size shall be determined by the active area of the surface unit. A detailed specification for the reference pans can be found in AHAM ER-2-2022 clause 5.7.5.

60A.8.2 The active area of coil element is determined by the maximum heating diameter as shown in Figure 60A.2.

60A.8.3 The active area of an induction element is defined as the maximum dimension across coil.

60A.8.4 For remote closed-loop cooking of an induction cooktop according to SA3.7, peripheral devices specified by the manufacturer, such as cookware or non-cookware feedback devices, shall be evaluated. Integral and peripheral devices shall be evaluated as follows:

a) Surface units capable of remote closed-loop cooking operation where the temperature limiting device is integral to the appliance shall be evaluated with the specified cast iron pan per Table 60A.1 and Figure 60A.1.

b) Surface units that are capable of remote closed-loop cooking operation where the temperature limiting device is not integral to the appliance shall be evaluated with the manufacturer specified device.

1) If the device is integral to the cookware (cooking vessels such as pots and pans), the cookware shall be used. The surface unit to be evaluated is that with a diameter less than or equal to the bottom diameter of the cookware with maximum rated power.

NOTE - If the device may be used on a surface unit with a larger diameter and the input power is higher with the defined device on that surface unit, the surface unit with the larger diameter is to be used.

2) If the device is not integral to the cookware (devices such as thermal cameras), the cast iron pan per Table 60A.1 and Figure 60A.1 shall be used. Evaluation shall be undertaken with the peripheral device installed according to its instructions.

Exception: Non-cookware peripheral devices such as a temperature probe required for remote closed-loop cooking with liquids other than oil do not require evaluation for 60A.8.4b)2). the instructions provided with such devices shall include the word "WARNING" and the following instructions, or equivalent:

a) "Do not operate without bath fluid in the cooking vessel."

b) "Do not use a flammable liquid as a bath fluid."

c) "Do not use with any non-food products."

d) "Periodically check to ensure that the liquid depth is within the acceptable range. Refill bath fluid as required."

60A.10 The surface unit shall be turned on to its maximum heat setting or, based on analysis of the control system, another heat setting that will create a higher pan temperature, and allowed to operate for ~~30 minutes~~ according to 60A.1.1 or until the cooking oil ignites, whichever comes first.

60A.11 ~~Whenever a coil surface unit is equipped with user-selectable multiple heating zone configurations, each zone configuration shall be tested separately.~~

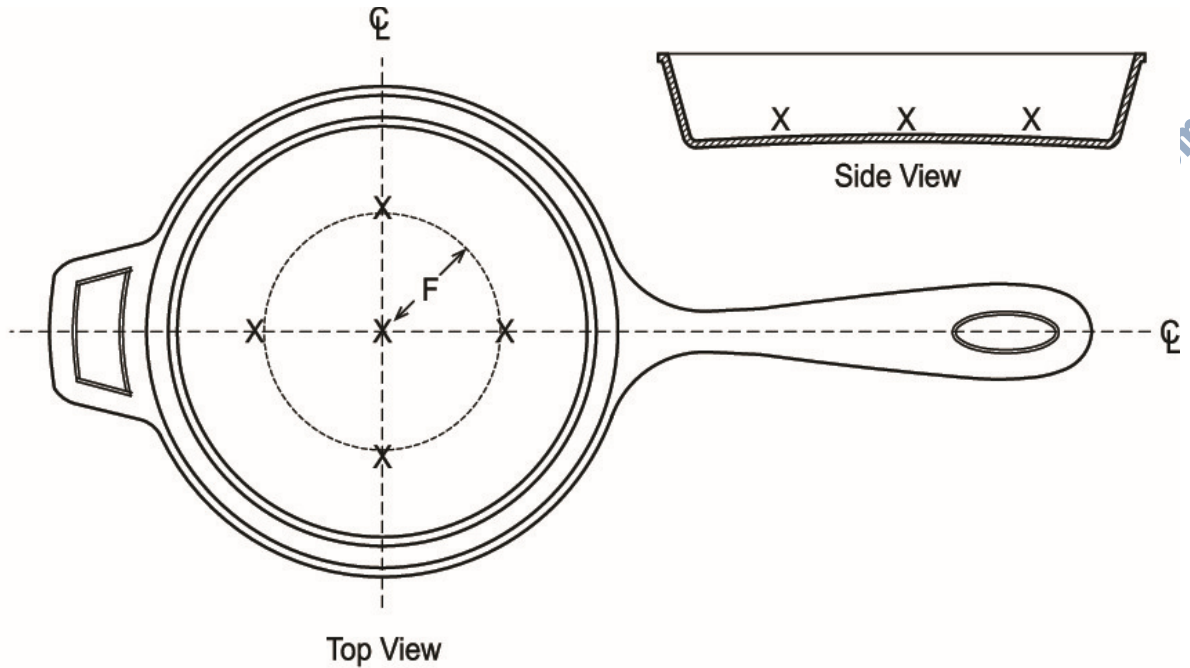
60A.13 When testing the temperature of the pan referenced in Table 60A.1 or the remote closed-loop cooking device referenced in 60A.8.4 without oil, the surface unit shall be turned on to its maximum heat setting or, based on analysis of the control system, another heat setting that will create a higher pan temperature, and allowed to operate for ~~30 minutes~~ according to 60A.1.1. The pan temperature shall be measured using 5 thermocouples spot welded to the inside bottom cooking surface of the pan in the locations as shown in Figure 60A.3. The average of the 5 temperatures shall not exceed 725°F (385°C).

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Figure 60A.3

## Welded thermocouples

1 thermocouple in center of pan and 4 welded F inches from center and 90 degrees apart as shown



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X – Thermocouple (TC) Locations

for  $\leq 7$  in heating elements  $F=2.0$  in (50.8 mm)

for  $> 7$  in to 10 in heating elements  $F=2.5$  in (63.5 mm)

for  $> 10$  in heating elements,  $F = 3$  in (76.2 mm)

TCs to be welded to inside bottom surface

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**BSR/UL 2237, Standard for Safety for Multi-Point Interconnection Power Cable Assemblies for Industrial Machinery**

**1. Addition of Requirements for Environmental Enclosure Rating “4 or 4X Indoor Use Only” to New Paragraphs 17.3 and 49.3A**

**PROPOSAL**

17.3 A Type 4 or 4X enclosure intended for Indoor Use Only and marked in accordance with 49.3.1:

a) Need not be subjected to the Icing Test in the Standard for Enclosures for Electrical Equipment, UL 50 and

b) For a polymeric enclosure, need not have a material which is resistant to ultraviolet light weathering in accordance with the Standard for Polymeric Materials – Use in Electrical Equipment Evaluation, UL 746C.

49.3A With reference to 17.3, a Type 4 or Type 4X enclosure intended for indoor use only shall be marked “4X Indoor Use Only” in letters at least 5/32 inch (4.0 mm) high.

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**BSR/UL 2238, Standard for Safety for Cable Assemblies and Fittings for Industrial Control and Signal**

**1. Addition of Requirements for Environmental Rating of "4 or 4X Indoor Use Only"**

**PROPOSAL**

17.5 A Type 4 or 4X enclosure intended for Indoor Use Only and marked in accordance with 40.1.10.1:

a) Need not be subjected to the Icing Test in the Standard for Enclosures for Electrical Equipment, UL 50; and

b) For a polymeric enclosure, need not have a material which is resistant to ultraviolet light weathering in accordance with the Standard for Polymeric Materials – Use in Electrical Equipment Evaluation, UL 746C.

40.1.10A With reference to paragraph 17.5, a Type 4 or Type 4X enclosure intended for indoor use only shall be marked "4X Indoor Use Only" in letters at least 5/32 in (4.0 mm) high.

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