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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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## **AAMI (Association for the Advancement of Medical Instrumentation)**

Amanda Benedict <[abenedict@aami.org](mailto:abenedict@aami.org)> | 901 N. Glebe Road, Suite 300 | Arlington, VA 22203 [www.aami.org](http://www.aami.org)

### **Addenda**

BSR/AAMI/ISO 11607-1-2019/A1, Packaging for terminally sterilized medical devices - Part 1: Requirements for materials, sterile barrier systems and packaging systems - Amendment 1 (addenda to ANSI/AAMI/ISO 11607-1-2019)  
Stakeholders: Medical device packaging stakeholders.

Project Need: ISO/TC 198 is developing Amendment 1 to ISO 11607-1. As the US has nationally adopted ISO 11607-1, the amendment also needs to be nationally adopted.

Interest Categories: Industry, regulatory/government, users, general interest.

Scope: Amendment 1 adds Annexes F and G on risk management and related modifications to the text.

## **AAMI (Association for the Advancement of Medical Instrumentation)**

Amanda Benedict <[abenedict@aami.org](mailto:abenedict@aami.org)> | 901 N. Glebe Road, Suite 300 | Arlington, VA 22203 [www.aami.org](http://www.aami.org)

### **Addenda**

BSR/AAMI/ISO 11607-2-2019/A1, Packaging for terminally sterilized medical devices - Part 2: Validation requirements for forming, sealing and assembly processes - Amendment 1 (addenda to ANSI/AAMI/ISO 11607-2-2019)  
Stakeholders: Medical device packaging stakeholders.

Project Need: ISO/TC 198 is developing Amendment 1 to ISO 11607-2. As the US has nationally adopted ISO 11607-2, the amendment also needs to be nationally adopted.

Interest Categories: Industry, regulatory/government, users, general interest.

Scope: Amendment 1 adds Annexes B on risk management and related modifications to the text.

**AWC (American Wood Council)**

Bradford Douglas <[bdouglas@awc.org](mailto:bdouglas@awc.org)> | 222 Catocin Circle, Suite 201 | Leesburg, VA 20175 [www.awc.org](http://www.awc.org)

**Revision**

BSR/AWC FDS-202x, Fire Design Specification for Wood Construction (revision of ANSI/AWC FDS-2022)

Stakeholders: Engineers, architects, and regulators.

Project Need: Revise current version of ANSI/FDS-2022, primarily to update provisions to match provisions and terminology recently balloted in updates to ANSI/AWC NDS-2018.

Interest Categories: Producers, Users, General Interests.

Scope: This standard provides designers with a document that includes procedures, calculations, and specific language necessary for design of wood buildings to comply with general design requirements in codes and other referenced standards. This standard incorporates provisions from Chapter 16 of ANSI/AWC NDS-2018 (National Design Specification® for Wood Construction) which cover the design of exposed wood members and expands those provisions to provide calculation procedures to address the added fire resistance and thermal benefits of protection provided by use of additional wood, gypsum panel products, and insulation. In addition, there are provisions for calculating thermal separation and burn-through requirements as required for assemblies in ASTM E119.

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

Terry Burger <[terry.burger@asse-plumbing.org](mailto:terry.burger@asse-plumbing.org)> | 18927 Hickory Creek Drive, Suite 220 | Mokena, IL 60448 <https://www.iapmostandards.org>

**National Adoption**

BSR/IAPMO 30500/ISO 30500-202x, Nonsewered sanitation systems - Prefabricated integrated treatment units - General and performance requirements for design and testing (identical national adoption of ISO 30500 and revision of ANSI/IAPMO 30500/ISO 30500-2019)

Stakeholders: Manufacturers, users, consumers, and regulatory authorities.

Project Need: National adoption of an existing ISO standard for non-sewered sanitation systems that will benefit stakeholders across North America.

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

Scope: National adoption of ISO 30500 which covers general safety and performance requirements for design and testing as well as sustainability considerations for non-sewered sanitation systems (NSSS). An NSSS, for the purposes of this document, is a prefabricated integrated treatment unit, comprising front end (toilet facility) and back end (treatment facility) components that (a) collects, conveys, and fully treats the specific input within the system, to allow for safe reuse or disposal of the generated solid, liquid, and gaseous output, and (b) is not connected to networked sewers or networked drainage systems.

**NEMA (National Electrical Manufacturers Association)**

Andrei Moldoveanu <[and\\_moldoveanu@nema.org](mailto:and_moldoveanu@nema.org)> | 1300 North 17th Street, Suite 900 | Rosslyn, VA 22209 [www.nema.org](http://www.nema.org)

**New Standard**

BSR/NEMA SM 31000-4-202x, Electrical Submeter - Additional Measurements Accuracy (new standard)

Stakeholders: Submeter manufacturers, testing labs, Electrical Engineering firms, State and local energy departments.

Project Need: Provide performance requirements for certification of submeters' accuracy in non active energy applications.

Interest Categories: Producers, users, general interest, testing labs.

Scope: This standard covers metrological requirements and associated testing of measurements other than active energy for electrical sub-meters.

**RESNET (Residential Energy Services Network, Inc.)**

Richard Dixon <[rick.dixon@resnet.us](mailto:rick.dixon@resnet.us)> | P.O. Box 4561 | Oceanside, CA 92052 [www.resnet.us.com](http://www.resnet.us.com)

***New Standard***

BSR/RESNET/ICC 1550-202x, Standard for Calculating and Reporting the Embodied Carbon of Dwelling and Sleeping Units (new standard)

Stakeholders: Home builders, home energy raters, materials manufacturers, contractors, architects, engineers, energy modeling software developers, the residential real estate industry, local, state and national regulators, building code officials.

Project Need: Home builders are facing growing scrutiny of their carbon footprints by investors, regulatory bodies and their customers. A standardized method to calculate and report the embodied carbon impact of homes and an assessment service provider are needed to establish a reliable basis for environmental reporting and for investment and consumer decision making. This standard will leverage the modeling norms of current home energy performance rating standards to calculate and report on the embodied carbon of dwelling and sleeping units. An embodied carbon report created using this standard will supplement standard ANSI/RESNET/ICC 301 2022 Addendum B, CO2e Rating Index, to create a life cycle carbon report for new homes.

Interest Categories: Producers who provide the service of assessing and reporting the embodied carbon of dwelling and sleeping units. Users of the reports on embodied carbon of dwelling and sleeping units. General Interest parties including but not limited to consumers, governmental entities, public and private laboratories, institutes and universities.

Scope: The purpose of this standard is to provide a consistent methodology for the calculation and reporting of the embodied carbon of dwelling and sleeping units. The standard will define the scope for calculating embodied carbon and a methodology for conducting the calculations that uses the same modeling data and processes and reporting employed by ANSI/RESNET/ICC 301.

# Call for Comment on Standards Proposals

## American National Standards

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

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

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

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

\* Standard for consumer products

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## Comment Deadline: May 14, 2023

### ACCA (Air Conditioning Contractors of America)

1520 Belle View Boulevard, #5220, Alexandria, VA 22307 | [david.bixby@acca.org](mailto:david.bixby@acca.org), [www.acca.org](http://www.acca.org)

#### Revision

BSR/ACCA 10 Manual SPS-202x, HVAC Design for Swimming Pools and Spas (revision of ANSI/ACCA 10 Manual SPS-2010 (R2017))

The proposed revisions are to update coverage based on recommendations from the Pool and Hot Tub Alliance.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: David Bixby at [david.bixby@acca.org](mailto:david.bixby@acca.org)

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

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

#### Addenda

BSR/ASHRAE Addendum a to Standard 72-202x, Method of Testing Open and Closed Commercial Refrigerators and Freezers (addenda to ANSI/ASHRAE Standard 72-2022)

The purpose of Addendum a to Standard 72-2022 is to correct the required liquid refrigerant pressure measurement accuracy in Table A-1 in Normative Appendix A.

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

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

## Comment Deadline: May 14, 2023

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

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

#### **Addenda**

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

Healthcare facilities can have a complex variety of roof conditions due to the longevity of building usage and frequent additions and changes to existing facilities that may impact exhaust discharge location, especially in regard to the most hazardous exhaust air that can be found at these facilities which requires extra consideration to protect maintenance personnel and minimize entrainment back into the building. These conditions may include sloped roofs, variations in roof height, termination with regard to exterior walls, and proximity to outdoor air intakes and operable doors and windows. This proposed addendum provides clarity on how to address these varied complex situations.

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

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

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

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

#### **Addenda**

BSR/ASHRAE/ICC/IES/USGBC Addendum ay to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-202x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020)

This addendum updates Tables 7.5.1 and 7.5.2 to provide consistent stringency with the prescriptive energy requirements in Sections 7.1 through 7.4 of Standard 189.1, which references the Standard 90.1-2022. This addendum modifies tables in published Addendum m to Standard 189.1-2020.

[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>

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

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

#### **Addenda**

BSR/ASHRAE/ICC/IES/USGBC Addendum az to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-202x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020)

This addendum updates the building performance factors in Table 7.5.2.2.1. This addendum modifies tables in Addendum aj, which is pending approval for publication. Upon publication of both Addendum aj and this addendum, this table will be the final publication.

[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>

## Comment Deadline: May 14, 2023

### NSF (NSF International)

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

#### Revision

BSR/NSF 49-202x (i179r1), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2022)

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

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Allan Rose <[arose@nsf.org](mailto:arose@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/CAN 50-202x (i200r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2021)

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

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

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

### RESNET (Residential Energy Services Network, Inc.)

P.O. Box 4561, Oceanside, CA 92052 | [rick.dixon@resnet.us](mailto:rick.dixon@resnet.us), [www.resnet.us.com](http://www.resnet.us.com)

#### Addenda

BSR/RESNET/ICC 301-2022 Addendum C-202x, Interim Updates (addenda to ANSI/RESNET/ICC 301-2022)

Interim updates that address: clarifications for energy rating software calculations; definitions and acronyms; new federal HVAC systems SEER2 and HSPF2 ratings and ceiling fan ratings; treatment of shared water heater losses for multifamily dwelling units; balanced mechanical ventilation; duct leakage where all ducts are within conditioned space; carbon dioxide index calculations; onsite battery storage; multiple end use loads; interior shading; reporting of the standard ANSI/RESNET/ICC 301 edition calculations are compliant with; other incidental updates.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Follow the “ANSI Standards & Amendments Out For Public Comment” link at: <https://www.resnet.us/about/standards/standards-currently-out-for-public-comment>

### 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 62790-202x, Standard for Safety for Junction Boxes for Photovoltaic Modules - Safety Requirements and Tests (national adoption with modifications of IEC 62790)

(1) First edition of the UL IEC-Based Standard for Junction Boxes for Photovoltaic Modules - Safety Requirements and Tests, UL 62790.

[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>

## Comment Deadline: May 14, 2023

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 399-202x, Standard for Safety for Drinking-Water Coolers (revision of ANSI/UL 399-2020)

(1) Proposed revision to be equivalent with UL 541 and ANSI/ASHRAE 15.

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

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

## Comment Deadline: May 29, 2023

### AAMI (Association for the Advancement of Medical Instrumentation)

901 N. Glebe Road, Suite 300, Arlington, VA 22203 | [celliot@aami.org](mailto:celliot@aami.org), [www.aami.org](http://www.aami.org)

#### National Adoption

BSR/AAMI/ISO 80369-7-202x, Small-bore connectors for liquids and gases in healthcare applications - Part 7: Connectors for intravascular or hypodermic applications (identical national adoption of ISO 80369-7 and revision of ANSI/AAMI/ISO 80369-7-2016)

Specifies dimensions and requirements for the design and functional performance of small-bore connectors intended to be used for connections in intravascular applications or hypodermic connections in hypodermic applications of medical devices and accessories.

Single copy price: Free

Obtain an electronic copy from: [celliot@aami.org](mailto:celliot@aami.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Colleen Elliott <[celliot@aami.org](mailto:celliot@aami.org)>

### ABYC (American Boat and Yacht Council)

613 Third Street, Suite 10, Annapolis, MD 21403 | [eparks@abycinc.org](mailto:eparks@abycinc.org), [www.abycinc.org](http://www.abycinc.org)

#### Revision

BSR/ABYC A-23-202x, Sound Signal Appliances (revision of ANSI/ABYC A-23-2020)

This standard addresses the design, construction, performance, and installation of sound signal appliances for vessels operating in international waters and vessels operating in US inland waters. This standard applies to all sound signal appliances for use on vessels of less than 20 m (65 ft) in length, regardless of the mode of operation or power source of the sound signal appliance.

Single copy price: \$50.00

Obtain an electronic copy from: [abycinc.org](http://abycinc.org)

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

### AGA (ASC Z380) (American Gas Association)

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | [lescobar@aga.org](mailto:lescobar@aga.org), [www.aga.org](http://www.aga.org)

#### Addenda

BSR GPTC Z380.1-2022 TR 2016-22-202x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2022)

Provide additional support for deciding when it is necessary to purge short, smaller diameter piping (e.g., service lines less than 2 inches in diameter and less than 500 feet in length).

Single copy price: Free

Obtain an electronic copy from: <https://www.aga.org/natural-gas/safety/promoting-safety/ansi-committees/#z380>

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



## Comment Deadline: May 29, 2023

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | [lescobar@aga.org](mailto:lescobar@aga.org), [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2022 TR 2016-23-202x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2022)

Updates the definition of Utility Gas Plant.

Single copy price: Free

Obtain an electronic copy from: <https://www.aga.org/natural-gas/safety/promoting-safety/ansi-committees/#z380>

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

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | [lescobar@aga.org](mailto:lescobar@aga.org), [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2022 TR 2016-34-202x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2022)

Review Amdt. 192-121 and revise existing GM as appropriate. Review existing GM and revise as appropriate in light of PHMSA Webinar on EFV Q&A.

Single copy price: Free

Obtain an electronic copy from: <https://www.aga.org/natural-gas/safety/promoting-safety/ansi-committees/#z380>

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

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | [lescobar@aga.org](mailto:lescobar@aga.org), [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2022 TR 2016-35-202x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2022)

Review Amdt. 192-121 and revise existing GM as appropriate. Review existing GM and revise as appropriate in light of PHMSA Webinar on EFV Q&A.

Single copy price: Free

Obtain an electronic copy from: <https://www.aga.org/natural-gas/safety/promoting-safety/ansi-committees/#z380>

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

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | [lescobar@aga.org](mailto:lescobar@aga.org), [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2022 TR 2017-02-202x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2022)

To revise GMA G-192-11 and G-192-11A to align appendices for all but technical differences due to difference in properties of the gas.

Single copy price: Free

Obtain an electronic copy from: <https://www.aga.org/natural-gas/safety/promoting-safety/ansi-committees/#z380>

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

## Comment Deadline: May 29, 2023

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | [lescobar@aga.org](mailto:lescobar@aga.org), [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2022 TR 2017-15-202x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2022)

Review ADB-2017-01, Deactivation of Threats, and revise GM as appropriate.

Single copy price: Free

Obtain an electronic copy from: <https://www.aga.org/natural-gas/safety/promoting-safety/ansi-committees/#z380>

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

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | [lescobar@aga.org](mailto:lescobar@aga.org), [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2022 TR 2017-18-202x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2022)

Review GM and consider adding guidance to (1) reach residents living in apartments, student housing, transitional housing and also to reach electronic bill customers; (2) ensure customers have continuous access to safety information through the company website; and (3) distribute safety brochures to customers during service calls.

Single copy price: Free

Obtain an electronic copy from: <https://www.aga.org/natural-gas/safety/promoting-safety/ansi-committees/#z380>

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

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | [lescobar@aga.org](mailto:lescobar@aga.org), [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2022 TR 2018-15-202x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2022)

To request a review and amend as appropriate GM to address coatings.

Single copy price: Free

Obtain an electronic copy from: <https://www.aga.org/natural-gas/safety/promoting-safety/ansi-committees/#z380>

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

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | [lescobar@aga.org](mailto:lescobar@aga.org), [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2022 TR 2019-04-202x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2022)

Review new code section 192.204 for risers and amendments to 192.321 and 192.375. Add and revise guide material as appropriate.

Single copy price: Free

Obtain an electronic copy from: <https://www.aga.org/natural-gas/safety/promoting-safety/ansi-committees/#z380>

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

## Comment Deadline: May 29, 2023

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | [lescobar@aga.org](mailto:lescobar@aga.org), [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2022 TR 2019-43-202x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2022)

Review existing GM and revise as appropriate in light of Amendment 192-125.

Single copy price: Free

Obtain an electronic copy from: <https://www.aga.org/natural-gas/safety/promoting-safety/ansi-committees/#z380>

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

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | [lescobar@aga.org](mailto:lescobar@aga.org), [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2022 TR 2019-45-202x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2022)

Review existing GM and revise as appropriate in light of Amendment 192-125.

Single copy price: Free

Obtain an electronic copy from: <https://www.aga.org/natural-gas/safety/promoting-safety/ansi-committees/#z380>

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

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | [lescobar@aga.org](mailto:lescobar@aga.org), [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2022 TR 2019-46-202x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2022)

Review existing GM and revise as appropriate in light of Amendment 192-125.

Single copy price: Free

Obtain an electronic copy from: <https://www.aga.org/natural-gas/safety/promoting-safety/ansi-committees/#z380>

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

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | [lescobar@aga.org](mailto:lescobar@aga.org), [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2022 TR 2019-52-202x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2022)

Review and develop GM as appropriate in light of Amendment 192-125.

Single copy price: Free

Obtain an electronic copy from: <https://www.aga.org/natural-gas/safety/promoting-safety/ansi-committees/#z380>

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

## Comment Deadline: May 29, 2023

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | [lescobar@aga.org](mailto:lescobar@aga.org), [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2022 TR 2020-02-202x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2022)

To ensure operators acknowledge state reporting incident definitions and time.

Single copy price: Free

Obtain an electronic copy from: <https://www.aga.org/natural-gas/safety/promoting-safety/ansi-committees/#z380>

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

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | [lescobar@aga.org](mailto:lescobar@aga.org), [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2022 TR 2020-16-202x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2022)

Clarify the statement in 5.4(a) and evaluate appropriateness of “shall” in same sentence. See LB2-2020 - TR 19 -30 comments.

Single copy price: Free

Obtain an electronic copy from: <https://www.aga.org/natural-gas/safety/promoting-safety/ansi-committees/#z380>

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

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | [lescobar@aga.org](mailto:lescobar@aga.org), [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2022 TR 2020-19-202x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2022)

Provide instructions to anyone who wishes for the committee to develop guide material.

Single copy price: Free

Obtain an electronic copy from: <https://www.aga.org/natural-gas/safety/promoting-safety/ansi-committees/#z380>

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

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | [lescobar@aga.org](mailto:lescobar@aga.org), [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2022 TR 2021-02-202x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2022)

Appendix G-192-17 lists “192.65(a)(2)” in the table which aids operators on records, procedures, etc. See Subpart B on table. This recommendation should be reviewed with the current code.

Single copy price: Free

Obtain an electronic copy from: <https://www.aga.org/natural-gas/safety/promoting-safety/ansi-committees/#z380>

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

## Comment Deadline: May 29, 2023

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | [lescobar@aga.org](mailto:lescobar@aga.org), [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2022 TR 2021-06-202x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2022)

Review and revise in light of Amdt 191-29 and 192-128.

Single copy price: Free

Obtain an electronic copy from: <https://www.aga.org/natural-gas/safety/promoting-safety/ansi-committees/#z380>

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

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | [lescobar@aga.org](mailto:lescobar@aga.org), [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2022 TR 2022-08-202x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2022)

Review Appendix G-192-21 and consider recent OSHA interpretations to decide if Exhibit 3 of the appendix should be removed.

Single copy price: Free

Obtain an electronic copy from: <https://www.aga.org/natural-gas/safety/promoting-safety/ansi-committees/#z380>

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

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | [lescobar@aga.org](mailto:lescobar@aga.org), [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2022 TR 2022-29-202x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2022)

Consider 192.939 GM revisions to provide a more comprehensive explanation and/or examples of “sufficient justification” related to reassessment interval extension requests to PHMSA.

Single copy price: Free

Obtain an electronic copy from: <https://www.aga.org/natural-gas/safety/promoting-safety/ansi-committees/#z380>

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

## Comment Deadline: May 29, 2023

### **ARESCA (American Renewable Energy Standards and Certification Association)**

256 Farrell Farm Road, Norwich, VT 05055 | [secretary@aresca.us](mailto:secretary@aresca.us), [www.aresca.us](http://www.aresca.us)

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

BSR/ARESCA 61400-12-202x, Wind energy generation systems - Part 12: Power performance measurements of electricity producing wind turbines - Overview (identical national adoption of IEC 61400-12:2022)  
IEC 61400-12:2022 defines procedures for assessing the power performance characteristics of wind turbines. This document provides a general introduction to the available options for power performance measurement and the contributing evaluations which are further detailed in the other parts of the IEC 61400-12 series. This first edition of IEC 61400-12 is part of a structural revision that cancels and replaces the performance standards IEC 61400-12-1:2017 and IEC 61400-12-2:2013. The structural revision contains no technical changes with respect to IEC 61400-12-1:2017 and IEC 61400-12-2:2013, but the parts that relate to wind measurements, measurement of site calibration, and assessment of obstacle and terrain have been extracted into separate standards.

Single copy price: Free

Obtain an electronic copy from: [secretary@aresca.us](mailto:secretary@aresca.us)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: George Kelly <[secretary@aresca.us](mailto:secretary@aresca.us)>

### **ASCE (American Society of Civil Engineers)**

1801 Alexander Bell Drive, Reston, VA 20191 | [jneckel@asce.org](mailto:jneckel@asce.org), [www.asce.org](http://www.asce.org)

#### ***Revision***

BSR/ASCE/EWRI 39-202x, Guidelines for Operational Hail Suppression Programs (revision of ANSI/ASCE/EWRI 39-2015)

Guidelines for Operational Hail Suppression Programs, ANSI/ASCE/EWRI 39, describes the process for designing, conducting, and evaluating operations to suppress the formation of hail. Hail is the product of vigorous, deep convection in the atmosphere. The most common approaches to hail suppression involve seeding a storm with nucleating agents using airborne, ground-based, or rocket and artillery delivery systems. Although the effects of seeding clouds for hail suppression are not fully understood, five concepts are commonly employed in successful projects: beneficial competition, early rainout, trajectory lowering, promotion of coalescence, and dynamic effects. The standard covers the design of hail suppression operations, including a definition of project scope, selecting a seeding agent, delivery methods, meteorological data collection and forecasting, selection and siting of equipment, legal issues, and environmental considerations. It also considers important factors in conducting a hail-suppression program, including the operations manual, personnel requirements, operational decision-making, communications, safety, and public relations. Finally, it describes approaches to evaluating the program areas and measures to evaluate effectiveness using both direct and secondary evidence.

Single copy price: Free

Obtain an electronic copy from: <https://sa360.asce.org/ASCEWebApp/StandardsBalloting/Default.aspx>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: <https://sa360.asce.org/ASCEWebApp/StandardsBalloting/Default.aspx>

## Comment Deadline: May 29, 2023

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

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

#### **Addenda**

BSR/ASHRAE/ICC/IES/USGBC Addendum aw to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-202x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020)

This addendum shows there is no longer the need to have a separate trade-off approach between renewables and equipment efficiency in the Alternate Renewables Approach, thanks to the Additional Energy Efficiency Credit in ASHRAE 90.1. To prevent double dipping of equipment efficiency when the Alternate Renewables Approach is used one would need to disallow the use of credits for H02 (heating eff), H03 (cooling eff), W02 (eff HPWH), W03 (eff gas WH). It would be simpler and would streamline the standard to remove the Alternate Renewables Approach, which would be limited to buildings less than 10,000 sf and buildings which did not need H02 (heating eff), H03 (cooling eff), W02 (eff HPWH), W03 (eff gas WH) efficiency measures to comply with the Additional Efficiency Credits requirements.

Single copy price: \$35.00

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

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

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

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

#### **Revision**

BSR/ASSP Z359.6-202x, Specifications and Design Requirements for Active Fall Protection Systems (revision of ANSI ASSE Z359.6-2016)

This standard is intended for engineers who are trained as qualified persons and who have expertise in the design of active fall protection systems. It specifies requirements for the design and performance of complete active fall protection systems, including travel restraint, fall arrest, positioning, rope descent, and rescue.

Single copy price: \$150.00

Obtain an electronic copy from: [LBauerschmidt@assp.org](mailto:LBauerschmidt@assp.org)

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

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

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

#### **Revision**

BSR/AWS D17.3/D17.3M-202x, Specification for Friction Stir Welding of Aluminum Alloys for Aerospace Applications (revision and redesignation of ANSI/AWS D17.3/D17.3M-2021)

This specification covers the general requirements for the friction stir welding of aluminum alloys for aerospace applications. It includes the requirements for weldment design, qualification of personnel and procedures, fabrication, and inspection.

Single copy price: \$48.00

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

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

## Comment Deadline: May 29, 2023

### CSA (CSA America Standards Inc.)

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

#### Revision

BSR Z21.89-202x, Outdoor cooking specialty gas appliances (same as CSA 1.18-202x) (revision of ANSI Z21.89-2017)

This Standard applies to newly produced, outdoor cooking specialty gas outdoor cooking appliances, hereinafter referred to as appliances, constructed entirely of new, unused parts and materials. NOTE: Appliances submitted for examination under this Standard are classified as portable or stationary. These products are not intended for commercial use. This Standard does not apply to a fryer/boiler and smokers for installation in or on a recreational vehicle. This Standard does not apply to appliances for installation in or on a boat. This Standard does not apply to fryers/smokers for installation on a recreational vehicle, and appliances for installation in the interior living space of a recreational vehicle.

Single copy price: Free

Obtain an electronic copy from: [ansi.contact@csagroup.org](mailto:ansi.contact@csagroup.org)

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

### CTA (Consumer Technology Association)

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

#### New Standard

BSR/CTA 490-B-202x, Test Methods of Measurement for Audio Amplifiers (new standard)

This standard defines test conditions and test measurement procedures for determining various performance characteristics of single-channel and multichannel power amplifiers, preamplifiers, integrated amplifiers, receivers, and tuner/preamplifiers that use AC mains power. These performance characteristics include power output, total harmonic distortion (THD), and sensitivity, among others. This is a revision.

Single copy price: Free

Obtain an electronic copy from: [standards@cta.tech](mailto:standards@cta.tech)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Catrina Akers <[cakers@cta.tech](mailto:cakers@cta.tech)>

### 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)

#### Reaffirmation

BSR/EIA 468-C-2008 (R202x), Lead Taping of Components in the Radial Configuration for Automatic Handling (reaffirmation of ANSI/EIA 468-C-2008 (R2017))

This standard was formulated to provide dimensions and tolerances necessary to lead tape components in the radial format (unidirectional leads) such that they may be automatically handled. Automatic handling includes insertion, preforming, and other operations. The emphasis of this standard is on the requirements for high-speed automatic insertion. This standard covers the lead taping requirements for components having two or more radial configured leads, provided these components may be taped in accordance with the requirements of this document.

Single copy price: \$78.00

Obtain an electronic copy from: [global.ihs.com](http://global.ihs.com)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Ed Mikoski ([emikoski@ecianow.org](mailto:emikoski@ecianow.org))



## Comment Deadline: May 29, 2023

### **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)

#### **Reaffirmation**

BSR/EIA 948-2004 (R202x), Component Tray for Automated Handling (reaffirmation of ANSI/EIA 948-2004 (R2017))

This Standard covers requirements for component trays used during automated handling.

Single copy price: \$120.00

Obtain an electronic copy from: [global.ihs.com](http://global.ihs.com)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Brian Matheny <[matheny@tekpak.com](mailto:matheny@tekpak.com)>

### **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)

#### **Reaffirmation**

BSR/EIA 960-B-2017 (R202x), Assembly Component Tray - ACT (reaffirmation of ANSI/EIA 960-B-2017)

This standard covers requirements for Assembly Component Trays - ACTs used during automated assembly processes. The standard size is covered which works with tray slots handling an envelope of 298.45 mm (11.75 inches) x 254 mm (10 inches) and the "J" size which works with tray slots handling an envelope of 322.58 mm (12.7 inches) x 135.89 mm (5.35 inches).

Single copy price: \$78.00

Obtain an electronic copy from: [global.ihs.com](http://global.ihs.com)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Ed Mikoski ([emikoski@ecianow.org](mailto:emikoski@ecianow.org))

### **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 411-202X, Standard for Installing and Maintaining Low-Voltage Uninterruptable Power Supplies (revision of ANSI/NECA 411-2014)

This Standard describes installation and maintenance procedures for permanently installed, static, three-phase Uninterruptable Power Supplies (UPSs) rated 30 kVA or more and rated 600 Volts or less, and related battery systems installed indoors or outdoors for commercial and industrial applications. UPSs described herein are solid-state power systems that provide continuous regulated AC power at the output terminals, while operating from either an AC power source or from a DC battery system.

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

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

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

## Comment Deadline: May 29, 2023

### **SAAMI (Sporting Arms and Ammunition Manufacturers Institute)**

6 Corporate Drive, Suite 650, Shelton, CT 06484 | [bosowiecki@saami.org](mailto:bosowiecki@saami.org), [www.saami.org](http://www.saami.org)

#### **Revision**

BSR/SAAMI Z299.5-202X, Voluntary Industry Performance Standards Criteria for Evaluation of New Firearms Designs Under Conditions of Abusive Mishandling for the Use of Commercial Manufacturers (revision of ANSI/SAAMI Z299.5-2016)

This Standard provides procedures for evaluating new firearms designs and applies to rifle, shotguns, pistols, and revolvers. In the interest of safety, these tests are structured to demonstrate to the designer of new firearms that the product will resist abusive mishandling. These procedures are specifically understood not to apply to muzzle loading and black powder firearms of any type.

Single copy price: ANSI Member \$35.00; Non-member \$45.00

Obtain an electronic copy from: [bosowiecki@saami.org](mailto:bosowiecki@saami.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Brian Osowiecki, [bosowiecki@saami.org](mailto:bosowiecki@saami.org)

### **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)

#### **Revision**

BSR/TIA 570-E-202x, Residential Telecommunications Infrastructure Standard (revision and redesignation of ANSI/TIA 570-D-2018)

This Standard applies to telecommunications premises cabling systems and the related pathways and spaces for single- and multi-dwelling residential buildings. It applies to the telecommunications cabling within or between structures and includes the cabling within a single-dwelling unit and the backbone cabling. It specifies cabling intended to support a wide range of telecommunications applications in the residential environment including voice, data, video, security, audio, and control systems. Revise this standard as part of the 5-year maintenance requirement and add relevant updates including, but not limited to, balanced single twisted-pair cabling.

Single copy price: \$133.00

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)**

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

#### **Revision**

BSR/UL 499-202x, Standard for Electric Heating Appliances (revision of ANSI/UL 499-2022)

(1) Addition of New Reference Standards for Battery Chargers for Heat Guns operating from rechargeable battery power; (2) Clarification on Stability Test; (3) SUPPLEMENT SD – INDUSTRIAL BLANKET HEATERS.

Single copy price: Free

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

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

## Comment Deadline: June 13, 2023

### 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)

#### **Reaffirmation**

BSR/ASME B30.25-202x (R202x), Scrap and Material Handlers (reaffirmation of ANSI/ASME B30.25-2018) Volume B30.25 includes provisions that apply to the construction, installation, operation, inspection, and maintenance of scrap and material handlers consisting of a base, a revolving upper structure with operator's station(s), and a front for lifting scrap or materials using attachments such as magnets and grapples, and any variations thereof in which the equipment retains the same fundamental characteristics. The provisions included in this Volume apply to scrap and material handlers that are crawler-mounted, rail-mounted, wheel-mounted, or on pedestal bases. The scope includes hydraulically operated scrap and material handlers powered by internal combustion engines or electric motors to lift, lower, and swing scrap and material at various radii.

Single copy price: \$57.00

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Kathleen Peterson <[peterstonk@asme.org](mailto:peterstonk@asme.org)>

### ULSE (UL Standards & Engagement)

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

#### **National Adoption**

BSR/UL 62841-4-6-202x, UL Standard for Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-6: Particular requirements for garden blowers, garden vacuums and garden blower/vacuums (identical national adoption of IEC 62841-4-6)

Proposed adoption of the first edition of IEC 62841-4-6, Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 4-6: Particular requirements for garden blowers, garden vacuums and garden blower/vacuums, as the first edition of UL 62841-4-6.

Single copy price: Free

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

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

## Technical Reports Registered with ANSI

Technical Reports Registered with ANSI are not consensus documents. Rather, all material contained in Technical Reports Registered with ANSI is informational in nature. Technical reports may include, for example, reports of technical research, tutorials, factual data obtained from a survey carried out among standards developers and/or national bodies, or information on the "state of the art" in relation to standards of national or international bodies on a particular subject. Immediately following the end of a 30-day announcement period in Standards Action, the Technical Report will be registered by ANSI. Please submit any comments regarding this registration to the organization indicated, with a copy to ([psa@ansi.org](mailto:psa@ansi.org)).

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

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

#### ***New Technical Report***

INCITS/ISO/IEC TR 29110-5-3:2018 [2023], Systems and software engineering - Lifecycle profiles for Very Small Entities (VSEs) - Part 5-3: Service delivery guidelines, a Technical Report prepared by INCITS and registered with ANSI (technical report)

Provides guidance to manage a set of services delivered to customers. The VSE can act as an internal service provider (providing services internal to the VSE) or as an external service provider (providing services commercially to external customers). These lifecycle processes (Governance, Service Control, Service Relationship and Service Incident) support and enhance the activities of software and system operations (further to development and installation) to create effective and efficient products and services.

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

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

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

#### ***New Technical Report***

INCITS/ISO/IEC TR 29119-6:2021 [2023], Software and systems engineering - Software testing - Part 6: Guidelines for the use of ISO/IEC/IEEE 29119 (all parts) in agile projects, a Technical Report prepared by INCITS and registered with ANSI (technical report)

Provides guidance for the application of ISO/IEC/IEEE 29119 (all parts) in agile life cycles. This document is intended for (and not limited to) testers, test managers, business analysts, product owners, Scrum masters, and developers involved in agile projects. The mappings provided in this document are designed to benefit any team or organization that is either moving away from traditional/waterfall life cycles and into agile or vice-versa as well as new organizations that are commencing agile as their chosen life cycle.

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

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

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

#### ***New Technical Report***

INCITS/ISO/IEC TR 29119-11:2020 [2023], Software and systems engineering - Software testing - Part 11: Guidelines on the testing of AI-based systems, a Technical Report prepared by INCITS and registered with ANSI (technical report)

Provides an introduction to AI-based systems. These systems are typically complex (e.g., deep neural nets), are sometimes based on big data, can be poorly specified, and can be non-deterministic, which creates new challenges and opportunities for testing them.

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

## Technical Reports Registered with ANSI

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

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

#### ***New Technical Report***

INCITS/ISO/IEC TR 24485:2022 [2023], Information security, cybersecurity and privacy protection - Security techniques - Security properties and best practices for test and evaluation of white box cryptography, a Technical Report prepared by INCITS and registered with ANSI (technical report)

Introduces security properties and provides best practices on the test and evaluation of white box cryptography (WBC). WBC is a cryptographic algorithm specialized for a key or secret, but where the said key cannot be extracted. The WBC implementation can consist of plain source code for the cryptographic algorithm and/or of a device implementing the algorithm. In both cases, security functions are implemented to deter an attacker from uncovering the key or secret.

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

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

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

#### ***New Technical Report***

INCITS/ISO/IEC TR 24587:2021 [2023], Software and systems engineering - Agile development - Agile adoption considerations, a Technical Report prepared by INCITS and registered with ANSI (technical report)

Provides an overview of agile readiness factors that are likely to determine whether an organization, project, product, or team is ready to start the transition to using an agile approach to their system and software development and maintenance activities.

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

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

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

#### ***New Technical Report***

INCITS/ISO/IEC TS 25011:2017 [2023], Information technology - Systems and software Quality Requirements and Evaluation (SQuaRE) - Service quality models, a Technical Specification prepared by INCITS and registered with ANSI (technical report)

ISO/IEC TS 25011:2017 is applicable to IT services that support the needs of an individual user or a business. IT services can be delivered personally or remotely by people, or by an IT application that could be in a local or remote location (see Annex A). These include two types of IT services: (a) services completely automated provided by an IT system; (b) services provided by a human using an IT system.

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

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

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

#### ***New Technical Report***

INCITS/ISO/IEC TS 33030:2017 [2023], Information technology - Process assessment - An exemplar documented assessment process, a Technical Specification prepared by INCITS and registered with ANSI (technical report)

Contains an exemplar documented assessment process, and serves as guidance on the nature of activities required by this document. The content of this exemplar contains the minimum elements of a documented assessment process applicable for performing all classes of assessments as defined in ISO/IEC 33002. See also Annex B. ISO/IEC TS 33030:2017 is suitable for all classes of assessments defined in ISO/IEC 33002.

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

## Technical Reports Registered with ANSI

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

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

#### ***New Technical Report***

INCITS/ISO/IEC TS 33053:2019 [2023], Information technology - Process assessment - Process Reference Model (PRM) for quality management, a Technical Specification prepared by INCITS and registered with ANSI (technical report)

Defines a process reference model for the domain of quality management. The model specifies a process architecture for the domain and comprises a set of processes. Each process is described in terms of process purpose and outcomes.

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

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

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

#### ***New Technical Report***

INCITS/ISO/IEC TS 33054:2020 [2023], Information technology - Process assessment - Process reference model for service management, a Technical Specification prepared by INCITS and registered with ANSI (technical report)

Defines a process reference model for the domain of service management. The model specifies a process architecture for the domain and comprises a set of processes. Each process is described in terms of process purpose and outcomes. The process reference model in this document is directed at assessment sponsors and competent assessors who wish to select a model, and associated documented process method, for assessment (for either capability determination or process improvement).

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

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

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

#### ***New Technical Report***

INCITS/ISO/IEC TS 33060:2020 [2023], Information technology - Process assessment - Process assessment model for system life cycle processes, a Technical Specification prepared by INCITS and registered with ANSI (technical report)

Defines a process assessment model for system life cycle processes, conformant with the requirements of ISO/IEC 33004, for use in performing a conformant assessment in accordance with the requirements of ISO/IEC 33002.

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

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

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

#### ***New Technical Report***

INCITS/ISO/IEC TS 33074:2020 [2023], Information technology - Process assessment - Process capability assessment model for service management, a Technical Specification prepared by INCITS and registered with ANSI (technical report)

Defines a process assessment model that relies on the process reference model published as ISO/IEC TS 33054 that meets the requirements of ISO/IEC 33004 and that supports the performance of an assessment by providing indicators for guidance on the interpretation of the process purposes and outcomes and the process attributes as defined in ISO/IEC 33020; provides guidance, by example, on the definition, selection, and use of assessment indicators.

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Deborah Spittle <[comments@standards.incits.org](mailto:comments@standards.incits.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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## **AAMI (Association for the Advancement of Medical Instrumentation)**

901 N. Glebe Road, Suite 300, Arlington, VA 22203 | [abenedict@aami.org](mailto:abenedict@aami.org), [www.aami.org](http://www.aami.org)

ANSI/AAMI ST55-2016 (R2023), Table-top steam sterilizers (reaffirmation of ANSI/AAMI ST55-2016) Final Action Date: 4/3/2023 | *Reaffirmation*

ANSI/AAMI ST15883-1-2009 (R2023), Washer-disinfectors, Part 1: General requirements, terms and definitions and tests (reaffirm a national adoption ANSI/AAMI ST15883-1-2009 (R2014), ANSI/AAMI ST15883-1-2009/A1-2014, ANSI/AAMI ST15883-1-2009/A2-2012) Final Action Date: 4/3/2023 | *Reaffirmation*

ANSI/AAMI ST15883-2-2013 (ISO 15883-2-2006 MOD)-2013 (R2023), Washer-disinfectors, Part 2: Requirements and Tests for Washer-Disinfectors Employing Thermal Disinfection for Surgical Instruments, Anaesthetic Equipment, Bowls, Dishes, Receivers, Utensils, Glassware, etc. (reaffirm a national adoption ANSI/AAMI ST15883-2-2013 (ISO 15883-2-2006 MOD)-2013 (R2015)) Final Action Date: 4/3/2023 | *Reaffirmation*

ANSI/AAMI ST15883-3-2012 (ISO 15883-3-2006) MOD-2012 (R2023), Washer-disinfectors, Part 3: Requirements and tests for washer-disinfectors employing thermal disinfection for human waste containers (reaffirm a national adoption ANSI/AAMI ST15883-3-2012 (ISO 15883-3-2006) MOD-2012 (R2015)) Final Action Date: 4/3/2023 | *Reaffirmation*

## **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)

ANSI/ASME HST-1-2023, Performance Standard for Electric Chain Hoists (revision of ANSI/ASME HST-1-2017) Final Action Date: 4/6/2023 | *Revision*

## **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 B603-2023, Permanganates (revision of ANSI/AWWA B603-2015) Final Action Date: 4/6/2023 | *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 1011-2023, Performance Requirements for Hose Connection Vacuum Breakers (revision of ANSI/ASSE 1011-2017) Final Action Date: 4/4/2023 | *Revision*

ANSI/ASSE 1044-2023, Performance Requirements for Trap Seal Primer - Drainage Types and Electric Design Types (revision of ANSI/ASSE 1044-2015 (R2020)) Final Action Date: 4/6/2023 | *Revision*

## **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)

ANSI MH26.2-2023, Design, Testing, and Utilization of Industrial Steel Storage Rack Decking (revision of ANSI MH26.2-2017) Final Action Date: 4/6/2023 | *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 4-2023 (i35r1), Commercial Cooking, Rethermalization, and Powered Hot Food Holding and Transportation Equipment (revision of ANSI/NSF 4-2020) Final Action Date: 4/3/2023 | *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 6-2023 (i22r1), Dispensing Freezers (revision of ANSI/NSF 6-2021) Final Action Date: 4/3/2023 | *Revision*

ANSI/NSF 7-2023 (i27r1), Commercial Refrigerators and Freezers (revision of ANSI/NSF 7-2021) Final Action Date: 4/3/2023 | *Revision*

ANSI/NSF 8-2023 (i21r1), Commercial Powered Food Preparation Equipment (revision of ANSI/NSF 8-2021) Final Action Date: 4/3/2023 | *Revision*

ANSI/NSF 12-2023 (i16r1), Automatic Ice Making Equipment (revision of ANSI/NSF 12-2018) Final Action Date: 4/3/2023 | *Revision*

ANSI/NSF 18-2023 (i22r1), Manual Food and Beverage Dispensing Equipment (revision of ANSI/NSF 18-2022) Final Action Date: 4/3/2023 | *Revision*

ANSI/NSF 20-2023 (i10r1), Commercial Bulk Milk Dispensing Equipment (revision of ANSI/NSF 20-2022) Final Action Date: 4/3/2023 | *Revision*

ANSI/NSF 25-2023 (i23r1), Vending Machines for Food and Beverages (revision of ANSI/NSF 25-2022) Final Action Date: 4/3/2023 | *Revision*

ANSI/NSF 42-2023 (i109r5), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42-2021) Final Action Date: 3/30/2023 | *Revision*

ANSI/NSF 169-2023 (i12r1), Special Purpose Food Equipment and Devices (revision of ANSI/NSF 169-2020) Final Action Date: 4/3/2023 | *Revision*

ANSI/NSF 401-2023 (i22r5), Drinking Water Treatment Units - Emerging Compounds / Incidental Contaminants (revision of ANSI/NSF 401-2021) Final Action Date: 3/30/2023 | *Revision*

**SDI (ASC A250) (Steel Door Institute)**

30200 Detroit Road, Westlake, OH 44145 | [leh@wherryassoc.com](mailto:leh@wherryassoc.com), [www.wherryassocsteeldoer.org](http://www.wherryassocsteeldoer.org)

ANSI A250.8-2023, Specifications for Standard Steel Doors and Frames (SDI-100) (revision of ANSI A250.8-2017) Final Action Date: 4/6/2023 | *Revision*

**SPRI (Single Ply Roofing Industry)**

465 Waverley Oaks Road, Suite 421, Waltham, MA 02452 | [info@spri.org](mailto:info@spri.org), [www.spri.org](http://www.spri.org)

ANSI/SPRI VF-1-2023, External Fire Design Standard for Vegetative Roof Systems (revision of ANSI/SPRI VF-1-2017) Final Action Date: 4/3/2023 | *Revision*

**ULSE (UL Standards & Engagement)**

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

ANSI/UL 2158A-2023, Standard for Clothes Dryer Transition Duct (revision of ANSI/UL 2158A-2021) Final Action Date: 4/6/2023 | *Revision*

ANSI/UL 2518-2023, Standard for Air Dispersion Systems (revision of ANSI/UL 2518-2016 (R2021)) Final Action Date: 4/6/2023 | *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).

## **ANSI Accredited Standards Developer**

### **AAMI - Association for the Advancement of Medical Instrumentation**

#### **Small bore connectors Committee**

AAMI CN, Small bore connectors Committee. The committee is seeking user, regulatory and general interest members to participate in the development of:

**AAMI/ISO 80369-7/Ed.2, *Small-bore connectors for liquids and gases in healthcare applications – Part 7: Connectors for intravascular or hypodermic applications***

For inquiries please contact: Colleen Elliott, Association for the Advancement of Medical Instrumentation (AAMI) | (703) 253-8261, e: [celliott@aami.org](mailto:celliott@aami.org)

#### **AAMI (Association for the Advancement of Medical Instrumentation)**

901 N. Glebe Road, Suite 300, Arlington, VA 22203 | [abenedict@aami.org](mailto:abenedict@aami.org), [www.aami.org](http://www.aami.org)

BSR/AAMI/ISO 11607-1-2019/A1, Packaging for terminally sterilized medical devices - Part 1: Requirements for materials, sterile barrier systems and packaging systems - Amendment 1 (addenda to ANSI/AAMI/ISO 11607-1-2019)

#### **AAMI (Association for the Advancement of Medical Instrumentation)**

901 N. Glebe Road, Suite 300, Arlington, VA 22203 | [abenedict@aami.org](mailto:abenedict@aami.org), [www.aami.org](http://www.aami.org)

BSR/AAMI/ISO 11607-2-2019/A1, Packaging for terminally sterilized medical devices - Part 2: Validation requirements for forming, sealing and assembly processes - Amendment 1 (addenda to ANSI/AAMI/ISO 11607-2-2019)

#### **AAMI (Association for the Advancement of Medical Instrumentation)**

901 N. Glebe Road, Suite 300, Arlington, VA 22203 | [celliott@aami.org](mailto:celliott@aami.org), [www.aami.org](http://www.aami.org)

BSR/AAMI/ISO 80369-7-202x, Small-bore connectors for liquids and gases in healthcare applications - Part 7: Connectors for intravascular or hypodermic applications (identical national adoption of ISO 80369-7 and revision of ANSI/AAMI/ISO 80369-7-2016)

#### **ABYC (American Boat and Yacht Council)**

613 Third Street, Suite 10, Annapolis, MD 21403 | [eparks@abycinc.org](mailto:eparks@abycinc.org), [www.abycinc.org](http://www.abycinc.org)

BSR/ABYC A-23-202x, Sound Signal Appliances (revision of ANSI/ABYC A-23-2020)

Interest Categories: Soliciting for categories: Manufacturer - Engines, Insurance/Survey, Specialist Service

#### **ARESCA (American Renewable Energy Standards and Certification Association)**

256 Farrell Farm Road, Norwich, VT 05055 | [secretary@aresca.us](mailto:secretary@aresca.us), [www.aresca.us](http://www.aresca.us)

BSR/ARESCA 61400-12-202x, Wind energy generation systems - Part 12: Power performance measurements of electricity producing wind turbines - Overview (identical national adoption of IEC 61400-12:2022)

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

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

BSR/AWS D17.3/D17.3M-202x, Specification for Friction Stir Welding of Aluminum Alloys for Aerospace Applications (revision and redesignation of ANSI/AWS D17.3/D17.3M-2021)

**CTA (Consumer Technology Association)**

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

BSR/CTA 490-B-202x, Test Methods of Measurement for Audio Amplifiers (new standard)

Interest Categories: CTA is seeking new members to join the consensus body. CTA and the R3 Audio Systems Committee are particularly interested in adding new members (called "users") who acquire audio products from those who create them, and in adding new members who neither produce nor use audio products, such as regulators, associations, and others (called members with a "general interest").

**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)

BSR/EIA 468-C-2008 (R202x), Lead Taping of Components in the Radial Configuration for Automatic Handling (reaffirmation of ANSI/EIA 468-C-2008 (R2017))

**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)

BSR/EIA 948-2004 (R202x), Component Tray for Automated Handling (reaffirmation of ANSI/EIA 948-2004 (R2017))

**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)

BSR/EIA 960-B-2017 (R202x), Assembly Component Tray - ACT (reaffirmation of ANSI/EIA 960-B-2017)

**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 411-202X, Standard for Installing and Maintaining Low-Voltage Uninterruptable Power Supplies (revision of ANSI/NECA 411-2014)

**NSF (NSF International)**

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

BSR/NSF 49-202x (i179r1), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2022)

**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/CAN 50-202x (i200r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2021)

**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 570-E-202x, Residential Telecommunications Infrastructure Standard (revision and redesignation of ANSI/TIA 570-D-2018)

# American National Standards (ANS) Announcements

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Notice of ITI (INCITS) Standards to Continue as American National Standards (ANS) under Stabilized Maintenance. This announcement is made in accordance with 4.7.3 Stabilized maintenance of American National Standards of the ANSI Essential Requirements ([www.ansi.org/essentialrequirements](http://www.ansi.org/essentialrequirements)).

## Continued Stabilized Maintenance

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

On April 7, 2023, the INCITS Executive Board completed their approval for the 10-year stabilized maintenance action for the standards listed below via ballot LB8720. It has been determined with this approval that these standards, that were stabilized in 2013, shall continue to be maintained under the stabilized maintenance option.

For inquiries please reply to: ([comments@standards.incits.org](mailto:comments@standards.incits.org))

INCITS/ISO 7064:2003 [S2023], Information technology - Security techniques - Check character systems

INCITS/ISO/IEC 10118-4:1998 [S2023], Information Technology - Security Techniques - Hash-Functions - Part 4: Hash-Functions Using Modular Arithmetic

INCITS 175-1999 [S2023], 19-mm Type ID-1 Recorded Instrumentation Digital Cassette Tape Format

INCITS 184-1993 [S2023], Information Systems - Fiber-Distributed Data Interface (FDDI) Single-Mode Fiber Physical Layer Medium Dependent (SMF-PM)D

INCITS 311-1998 [S2023], Magnetic Tape Format for Information Interchange, 128-Track, Parallel Serpentine, 12.65 mm (1/2 in), 3400 bpm (86 360 bpi) Run Length Limited Recording

INCITS 312-1998 [S2023], Magnetic Tape Cartridge for Information Interchange 0 50 in 12 65 mm Serial Serpentine 128 Track 81 600 bpi 3212 bpm DLT4 Format

INCITS 315-1998 [S2023], Unrecorded magnetic tape cartridge for information interchange, 12.65 mm (0.498 in), 128-track, parallel serpentine, 2550 ftpmm (64 770 ftpi)

INCITS 371.1-2003 [S2023], Information technology - Real Time Locating Systems (RTLS) Part 1: 2.4 GHz Air Interface Protocol

INCITS 371.3-2003 [S2023], Information technology - Real Time Locating Systems (RTLS) Part 3: Application Programming Interface

INCITS/ISO/IEC 5807:1985 [S2023], Information Processing - Documentation Symbols and Conventions for Data, Program, & System Flowcharts, Program Network Charts, and System Resource Charts

INCITS 210-1998 [S2023], Information technology - High-Performance Parallel Interface - Framing Protocol (HIPPI-FP)

INCITS 303-1998 [S2023], Information technology - Fibre Channel Physical and Signaling Interface-3 (FC-PH-3)

INCITS 323-1998 [S2023], Information technology - High-Performance Parallel Interface - 6400 Mbit/s Physical Layer (HIPPI-6400-PH)

INCITS 338-2003 [S2023], Information technology - High-Performance Parallel Interface - 6400 Mbit/s Optical Specifications (HIPPI-6400-OPT)

INCITS 332-1999/AM 1-2003 [S2023], Information technology - Fibre Channel Arbitrated Loop (FC-AL-2) - Amendment 1

INCITS 373-2003 [S2023], Information technology - Fibre Channel Framing and Signaling Interface (FC-FS)

INCITS 374-2003 [S2023], Information technology - Fibre Channel Single - Byte Command Set-3 (FC-SB-3)

INCITS/ISO/IEC 9593-3:1990 [S2023], Information Technology - Computer Graphics - Programmer's Hierarchical Interactive Graphics System (PHIGS) Language Bindings - Part 3: Ada

INCITS 131-1994 [S2023], Information technology - Small Computer System Interface - 2 (SCSI-2)

INCITS 302-1998 [S2023], Information technology - SCSI-3 Parallel Interface - 2 (SPI-2)

INCITS 314-1998 [S2023], Information technology - SCSI-3 Medium Changer Commands (SMC)

INCITS 318-1998 [S2023], Information technology - Small Computer System Interface - SCSI Controller Commands - 2 (SCC-2)

INCITS 325-1998 [S2023], Information technology - SCSI-3 Serial Bus Protocol 2 (SBP-2)

# 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

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).

## AAMI

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## AGA (ASC Z380)

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## ARESCA

American Renewable Energy Standards  
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## AWS

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## CTA

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## ECIA

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## IAPMO (ASSE Chapter)

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**NECA**

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**NEMA**

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**SAAMI**

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**SPRI**

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# ISO & IEC Draft International Standards



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

## COMMENTS

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

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

## ORDERING INSTRUCTIONS

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

## ISO Standards

### Aircraft and space vehicles (TC 20)

ISO/DIS 1151-7, Flight dynamics - Vocabulary - Part 7: Flight points and flight envelopes - 6/17/2023, \$46.00

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

ISO/DIS 20038, Banking and related financial services - Key wrap using AES - 6/19/2023, \$146.00

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

ISO/DIS 23138, Biological equipment for treating air and other gases - General requirements - 6/18/2023, \$82.00

### Ergonomics (TC 159)

ISO/DIS 7726, Ergonomics of the thermal environment - Instruments for measuring and monitoring physical quantities - 6/18/2023, \$119.00

ISO/DIS 10075-2, Ergonomic principles related to mental workload - Part 2: Design principles - 6/18/2023, \$88.00

### Fine Bubble Technology (TC 281)

ISO 20480-1:2017/DAmD 1, - Amendment 1: Fine bubble technology - General principles for usage and measurement of fine bubbles - Part 1: Terminology - Amendment 1 - 6/22/2023, \$29.00

### Geographic information/Geomatics (TC 211)

ISO/DIS 19152-3, Geographic information - Land Administration Domain Model (LADM) - Part 3: Marine georegulation - 6/22/2023, \$125.00

### Graphical symbols (TC 145)

ISO/DIS 20712-3, Water safety signs and beach safety flags - Part 3: Guidance for use - 6/18/2023, \$82.00

### Health Informatics (TC 215)

ISO/DIS 14199, Health informatics - Information models - Biomedical Research Integrated Domain Group (BRIDG) Model - 6/15/2023, \$53.00

### Hydrogen energy technologies (TC 197)

ISO/DIS 24078, Hydrogen in energy systems - Vocabulary - 6/15/2023, \$112.00

### Industrial fans (TC 117)

ISO/DIS 24660, Fans - Determination of airflow propelled through an open personnel door by a positive pressure ventilator - 6/17/2023, \$53.00

### Optics and optical instruments (TC 172)

ISO/DIS 9211-1, Optics and photonics - Optical coatings - Part 1: Vocabulary - 6/18/2023, \$77.00

ISO/DIS 9211-2, Optics and photonics - Optical coatings - Part 2: Optical properties - 6/17/2023, \$71.00

ISO/DIS 9211-3, Optics and photonics - Optical coatings - Part 3: Environmental durability - 6/19/2023, \$62.00

### Paper, board and pulps (TC 6)

ISO/DIS 12625-16, Tissue paper and tissue products - Part 16: Determination of optical properties - Opacity (paper backing) - Diffuse reflectance method - 6/17/2023, \$62.00

### Petroleum products and lubricants (TC 28)

ISO/DIS 13032, Petroleum and related products - Determination of low concentration of sulfur in automotive fuels - Energy-dispersive X-ray fluorescence spectrometric method - 6/18/2023, \$62.00

**Plain bearings (TC 123)**

ISO/DIS 12129-1, Plain bearings - Tolerances - Part 1: Fits - 6/17/2023, \$53.00

**Rubber and rubber products (TC 45)**

ISO/DIS 2411, Rubber- or plastics-coated fabrics - Determination of coating adhesion - 6/19/2023, \$58.00

ISO/DIS 23337, Rubber, vulcanized or thermoplastic - Determination of abrasion resistance using the Improved Lambourn test machine - 6/17/2023, \$58.00

**Small tools (TC 29)**

ISO/DIS 21538, Blanks for superabrasive cutting-off wheels - Mounting and fixing bores - Building construction and civil engineering - 6/15/2023, \$46.00

**Soil quality (TC 190)**

ISO 11277:2020/DAMd 1, - Amendment 1: Soil quality - Determination of particle size distribution in mineral soil material - Method by sieving and sedimentation - Amendment 1 - 6/22/2023, \$40.00

ISO/DIS 23611-2, Soil quality - Sampling of soil invertebrates - Part 2: Sampling and extraction of micro-arthropods (Collembola and Acarina) - 6/17/2023, \$62.00

ISO/DIS 23611-5, Soil quality - Sampling of soil invertebrates - Part 5: Sampling and extraction of soil macro-invertebrates - 6/17/2023, \$77.00

**Solid biofuels (TC 238)**

ISO/DIS 18847, Solid biofuels - Determination of particle density of pellets and briquettes - 6/22/2023, \$67.00

**Steel (TC 17)**

ISO/DIS 4954-1, Steels for cold heading and cold extruding - Part 1: Non-alloy and low alloy steels - 6/15/2023, \$125.00

ISO/DIS 4954-2, Steels for cold heading and cold extruding - Part 2: Stainless steels - 6/15/2023, \$82.00

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

ISO/IEC DIS 39075, Information technology - Database languages - GQL - 6/17/2023, \$281.00

ISO/IEC DIS 5087-2, Information technology - City data model - Part 2: City level concepts - 6/15/2023, \$134.00

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

94/843(F)/FDIS, IEC 61812-1 ED3: Time relays and coupling relays for industrial and residential use - Part 1: Requirements and tests, 04/28/2023

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

100/3904/FDIS, IEC 60728-101-1 ED1: Cable networks for television signals, sound signals and interactive services - Part 101-1: RF cabling for two-way home networks with all-digital channels load, 05/19/2023

100/3903/FDIS, IEC 60728-101-2 ED1: Cable networks for television signals, sound signals and interactive services - Part 101-2: Performance requirements for signals delivered at the system outlet in operation with all-digital channels load, 05/19/2023

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

62D/2040/CD, IEC 80601-2-31 ED1: Medical electrical equipment - Part 2-31: Particular requirements for the basic safety and essential performance of external cardiac pacemakers with internal power source, 06/02/2023

**Electrical installations of buildings (TC 64)**

64/2591(F)/FDIS, IEC 60364-4-43 Ed. 4: Low-voltage electrical installations - Part 4-43: Protection for safety - Protection against overcurrent, 04/21/2023

**Electroacoustics (TC 29)**

29/1151/NP, PNW 29-1151 ED1: Electroacoustics - Modular instrumentation for acoustical measurements, 06/30/2023

**Electromechanical components and mechanical structures for electronic equipments (TC 48)**

48B/3034(F)/FDIS, IEC 61076-3-106 ED2: Connectors for electrical and electronic equipment - Product requirements - Part 3-106: Rectangular connectors - Detail specification for protective housings for use with 8-way shielded and unshielded connectors for industrial environments incorporating the IEC 60603-7 series interface, 04/28/2023

**Electrostatics (TC 101)**

101/682/DTS, IEC TS 61340-6-2 ED1: Electrostatics - Part 6-2: Electrostatic control in healthcare, commercial and public facilities - Public spaces and office areas, 06/30/2023

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

104/984/FDIS, IEC 60068-2-17 ED5: Environmental testing - Part 2-17: Tests - Test Q: Sealing, 05/19/2023

104/986/FDIS, IEC 60068-3-1 ED3: Environmental testing - Part 3-1: Supporting documentation and guidance - Cold and dry heat tests, 05/19/2023

104/985/FDIS, IEC 60068-3-4 ED2: Environmental testing - Part 3-4: Supporting documentation and guidance - Damp heat tests, 05/19/2023

### **Fibre optics (TC 86)**

86A/2310/CDV, IEC 60794-2-20 ED4: Optical fibre cables - Part 2-20: Indoor cables - Family specification for multi-fibre optical cables, 06/30/2023

86B/4749/CD, IEC 61300-2-37 ED4: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-37: Tests - Cable bending for fibre optic protective housings and hardened connectors, 06/30/2023

86B/4750/CD, IEC TR 63323 ED1: Fibre optic interconnecting devices and passive components - A study of an SC connector adaptor with safety lock mechanism, 06/02/2023

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

110/1516/NP, PNW 110-1516 ED1: LASER DISPLAYS - Part 6-1: Visualization method of colour gamut intersection, 06/02/2023

### **Fluids for electrotechnical applications (TC 10)**

10/1194/CDV, IEC 60422 ED5: Mineral insulating oils in electrical equipment - Supervision and maintenance guidance, 06/30/2023

10/1195/CDV, IEC 62770 ED2: Fluids for electrotechnical applications - Unused natural esters for transformers and similar electrical equipment, 06/30/2023

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

65B/1231A/CD, IEC 61514 ED2: Industrial-process control systems - Methods of evaluating the performance of valve positioners with pneumatic outputs, 06/16/2023

65/1008/DTR, IEC TR 63283-5 ED1: Industrial-process measurement, control and automation - Smart manufacturing - Part 5: Market and innovation trends analysis, 06/02/2023

### **Insulators (TC 36)**

36/563/CD, IEC 62217 ED3: Polymeric HV insulators for indoor and outdoor use - General definitions, test methods and acceptance criteria, 06/02/2023

### **Lightning protection (TC 81)**

81/727/FDIS, IEC 62561-3 ED3: Lightning protection system components (LPSC) - Part 3: Requirements for isolating spark gaps (ISGs), 05/19/2023

### **Nanotechnology standardization for electrical and electronic products and systems (TC 113)**

113/762/CD, IEC TS 62607-8-4 Nanomanufacturing - Key Control Characteristics - Part 8-4: Metal-oxide interfacial devices - Activation energy of electronic trap states: Low-frequency-noise spectroscopy, 06/30/2023

113/761/CD, IEC TS 62607-9-2 ED1: Nanomanufacturing - Nanomagnetism - Magnetic field measurements: Magneto-optical indicator film technique, 06/30/2023

113/760/FDIS, ISO 80004-1 ED1: Nanotechnologies – Vocabulary – Part 1: Core terms and definitions, 05/19/2023

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

45A/1478/CD, IEC 63435 ED1: Nuclear power plants - Control rooms - Operatoring support system, 06/30/2023

### **Piezoelectric and dielectric devices for frequency control and selection (TC 49)**

49/1419/CD, IEC 60122-2 ED3: Quartz crystal units of assessed quality - Part 2: Guide to the use, 06/30/2023

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

96/579/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

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

82/2140/FDIS, IEC 61730-1 ED3: Photovoltaic (PV) module safety qualification - Part 1: Requirements for construction, 05/19/2023

### **(TC )**

CIS/B/820/CDV, CISPR 11 ED7: Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement, 06/30/2023

CIS/H/472/CDV, IEC 61000-6-3/AMD1/FRAG1 ED3: Amendment 1/Fragment 1: Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for equipment in residential environments - Miscellaneous items on General Maintenance, 06/30/2023

SyCAAL/296/CD, IEC 63310 ED1: Functional performance criteria for robots used in AAL connected home environment, 06/30/2023

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

### **(TC)**

JTC1-SC25/3147/CD, ISO/IEC 24383 ED1: Information technology - Physical network security for the accommodation of customer premises cabling infrastructure and information technology equipment, 07/28/2023

JTC1-SC41/344/CD, ISO/IEC 30180 ED1: Internet of Things (IoT) - Functional requirements to determine the status of self-quarantine through Internet of Things data interfaces, 06/02/2023

# International Organization for Standardization (ISO)

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## 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.

# 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).



# Proposed Revisions to

## **ANSI/ACCA 10 Manual SPS – 2010 (RA 2017) *HVAC Design for Swimming Pools and Spas***

[Additions are shown as **red underlined** text and deletions are shown as **strike-out**.]

The First **Second** Edition of ANSI/ACCA Manual SPS is the Air Conditioning Contractors of America manual for designing moisture control systems for indoor spaces that have a swimming pool or spa.

**Air Conditioning Contractors of America (ACCA)  
1520 Belle View Blvd #5220, Alexandria, VA 22307**

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#### 4-1 Responsibility

The owner or manager of a swimming pool or spa facility is responsible for water chemistry. In this regard, the mechanical system designer shall state in writing, that acceptable dehumidification system performance is based on the assumption that water chemistry will be properly managed on a day-to-day basis for the life of the facility. Then, contract documents shall show that the owner or manager has acknowledged this responsibility and understands that failure to perform scheduled tasks could harm occupants, structural components and components of the mechanical system.

The primary issues are free chlorine, combined chlorine, and pH. Figure 4-1 summarizes requirements set by the [Pool and Hot Tub Alliance \(PHTA\)](#) Association of Pool and Spa Professionals (APSP).

#### Rationale:

- The Pool & Hot Tub Alliance (PHTA) is the successor organization to the Association of Pool and Spa Professionals (APSP) including as an ANSI-accredited standards development organization

- Odors indicate improper water treatment (chlorine has no odor, humans are sensitive to very small concentrations of combined chlorine, see Section 4-3).
- Bacteria, viruses and biological growth are the consequences of improper water treatment.
- Airborne chemicals and molecules can cause short term, long term or permanent damage to occupants.
- Air borne chemicals can mix with visible or concealed condensation. This corrodes and degrades building surfaces, mechanical system surfaces, increases maintenance cost and reduces equipment life.

#### 4-3 Water Chemistry

Chlorine kills germs, bacteria, viruses, etc., and reacts with biological waste (sweat, urine, feces), natural body oils, skin and hair care products, colognes and perfumes. Chlorine also reacts with ammonia produced by a chemical breakdown of sweat and urine. The by-products are chloramines (monochloramine, dichloramine and nitrogen trichloride), which are measured as combined chlorine.

Combined chlorine and ammonia are hostile agents. Ideally there will be no significant concentrations in the water or air. Chlorine's ability to neutralize ammonia and chloramines depends on water treatment details vs. the type and concentration of contaminants, water pH, the type and amount of dissolved solids, water temperature, the number of people in the pool, pool activity level, etc.

This complex relationship is quantified by water testing procedures, then test results determine what chemicals and doses must be added to the water.

- The minimum ratio of free chlorine to chloramines is 10:1. An excessive dose of free chlorine

(water shocking) is used when the concentration of combined chlorine is excessive (shocking a pool can make matters worse if not done properly). The concentration of combined chlorine in pools shall not exceed 0.4 ppm, as per the APSP/ICC-11 Standard.

#### Rationale:

- Amine-containing compounds in combined chlorine can cause eye, mucous membrane, and skin irritation.
- Nitrogen trichloride is a volatile substance that can be corrosive to structure components
- The maximum level for combined chlorine (the subtracting of the measured free available chlorine concentration from the measured total chlorine concentration) is 0.4 ppm. Although a limit of 0.2 ppm maximum is preferable, it is not reasonably attainable for most facilities, so a maximum 0.4 ppm is acceptable.
- A read-only version of the APSP/ICC-11 Standard which provides additional background and rationale is available here: <https://issuu.com/thepta/docs/apsp-11-2019>

■ Federal law ~~requires~~ allows municipal water suppliers to sanitize with monochloramine. ~~Therefore, the combined chlorine in fill water or make up water may be 20 to 200 times more than the maximum a pool should have. Thus, most pool fills must be shocked immediately after adding water.~~ Fill water could contain higher than maximum chloramine levels and therefore, may require chemical treatment. The type and timing of this treatment are dependent upon the surface of the pool or spa. The manufacturers / installers of the pool surface should be consulted prior to conducting any chemical treatment of new fill water to remove chloramines. Combined chlorine should be checked after significant additions of makeup water.

- Water purging and water make-up for evaporation may not dilute contaminants (see preceding bullet).
- Water purging increases the amount of heat used for makeup water.
- Water stirring (turnovers) maximizes water treatment effectiveness.
- Filters have a significant effect on water chemistry.
- ~~Ozone treatment reduces the amount of combined chlorine in the water.~~
- Investigate ~~ozone~~, UV and ionization treatments For technologies certified to reduce combined chlorine, refer to the NSF/ANSI/CAN 50 Standard listing of products and manufacturers.

#### Rationale:

- Recommending “allows” because the EPA drinking water standard and 40 CFR 141.65 both allow and do not “require”
- The language regarding “20 to 200 times” seems excessive and does not compute with the 4 ppm in drinking water as expressed in 40 CFR 141.65
- NSF/ANSI/CAN 50 Standard listing includes rigorous testing that validates performance
- The National Plasterers Council does not recommend shocking or oxidizing pool water for the first 30 days of a new surface. Manufacturers of other surfaces do not recommend shocking until the water has been treated for metals. Oxidative treatment of new fill

water often stain these surfaces.

- High pH causes scale that may damage or reduce the efficiency of water heaters, pipes, pumps, etc.
- Low pH water is acidic and corrosive. This can damage water system equipment.

## Appendix 7

### Codes, Standards and References

Guidance and information pertaining to natatoriums is provided by authored books, codes, manuals, standards, and good practice documents. Some sources are listed here. (References may go out of date and/or can be superseded. Some references are included in codes.)

#### A7-9 IAPMO Codes

The International Association of Plumbing and Mechanical Officials (IAPMO) published consensus codes and standards.

- IAPMO IS-2-90, Tile Lined Roman Bathtubs
- IAPMO IS 3-93, Installation Standard for Copper Plumbing Tube & Fittings
- IAPMO IS 21-89, Installation Standard for Copper and Copper Alloy Welded Water Tube  
Copper Tube Handbook, CDA
- IAPMO PS-33-93, Specification for Flexible Hose for Pools, Hot Tubs, Spas, and Jetted Bathtubs
- IAPMO SPS-4 2000, Special Use Suction Fittings for Swimming Pools, Spas and Hot Tubs (for Suction Side Automatic Swimming Pool Cleaners)
- [IAPMO USPSHTC 2021, Uniform Swimming Pool, Spa & Hot Tub Code](#)

#### Rationale:

- As IAPMO USPSHTC 2021 addresses swimming pools, it is a relevant industry document to be included in the list of referenced IAPMO Codes



**BSR/ASHRAE Addendum a to  
ANSI/ASHRAE Standard 72-2022**

**Public Review Draft**

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**Proposed Addendum a to  
Standard 72-2022, Method of  
Testing Open and Closed  
Commercial Refrigerators and  
Freezers**

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

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

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

BSR/ASHRAE Addendum a to ANSI/ASHRAE Standard 72-2022, *Method of Testing Open and Closed Commercial Refrigerators and Freezers*  
First Public Review Draft

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

## FOREWORD

*The purpose of Addendum a to Standard 72-2022 is to correct the required liquid refrigerant pressure measurement accuracy in Table A-1 in Normative Appendix A.*

**Note:** In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

## Addendum a to Standard 72-2022

*Normative Appendix A Table A-1, Measurement Locations, Tolerances, Accuracies, and Other Characteristics: Revise the required liquid refrigerant pressure accuracy as shown below.*

**Table A-1 Measurement Locations, Tolerances, Accuracies, and Other Characteristics**

Measured Quantity and Measurement Standard	Location	Period of Time Measurement Is Taken	Required Accuracy	Required Value(s)
Liquid refrigerant pressure	Inlet line at a distance not greater than 155 mm (6.1 in.) from the refrigerator (See Section 6.4.3 and Figure 11.)	At least once every 3 min during running cycles throughout Test A and Test B	<del><math>\pm 7.0</math> kPa (<math>\pm 1.0</math> psi)</del> <u><math>\pm 3.5</math> kPa (<math>\pm 0.5</math> psi)</u>	Average over test period: Saturated liquid pressure corresponding to a condensing temperature (bubble point) in the range of 32°C to 49°C (89.6°F to 120.2°F)



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

**Public Review Draft**

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

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

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

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

BSR/ASHRAE/ASHE Addendum i to ANSI/ASHRAE/ASHE Standard 170-2021, *Ventilation of Health Care Facilities*  
 First Public Review Draft

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

## FOREWORD

*Healthcare facilities can have a complex variety of roof conditions due to the longevity of building usage and frequent additions and changes to existing facilities that may impact exhaust discharge location, especially in regard to the most hazardous exhaust air that can be found at these facilities which require extra consideration to protect maintenance personnel and minimize entrainment back into the building. These conditions may include sloped roofs, variations in roof height, termination with regard to exterior walls and proximity to outdoor air intakes and operable doors and windows. This proposed addendum provides clarity on how to address these varied complex situations.*

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

## Addendum i to 170-2021

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**Revise Section 6.3.2.2(a) as shown below. The remainder of Section 6.3.2.2 is unchanged.**

### 6.3.2.2 Additional Requirements

- a. Exhaust discharge outlets from AII rooms, bronchoscopy and sputum collection exhaust, pharmacy hazardous-drug exhausted enclosures, and laboratory work area chemical fume hoods shall additionally be arranged to discharge to the atmosphere in a vertical direction (with no rain cap or other device to impede the vertical momentum) and at least 10 ft (3 m) above the adjoining roof level. meet the following:
  1. A discharge termination shall be a minimum of 10 ft (3 m) above service access level.
  2. Discharge termination shall be higher than any roof surface within 4 ft (1.2 m).
  3. Discharge termination shall be a minimum of 6 ft (1.8 m) from exterior walls.
  4. Discharge termination shall be a minimum of 30 ft (9 m) from outdoor air intakes, openable windows/doors, and areas that are normally accessible to the public.

**Exception to 6.3.2.2(a):** AII room exhaust that first passes through a high-efficiency particulate air (HEPA) filter.

[...]



# Public Review Draft

Proposed Addendum ay to Standard 189.1-2020

# Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings

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

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



BSR/ASHRAE/ICC/USGBC/IES Addendum ay to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2020, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings* First Public Review Draft

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## **Foreword**

This addendum updates Tables 7.5.1 and 7.5.2 to provide consistent stringency with the prescriptive energy requirements in Sections 7.1 through 7.4 of Standard 189.1, which references the Standard 90.1 2022. This addendum modifies tables in published Addendum M to Standard 189.1-2020. ...

*[Note to Reviewers: This addendum makes proposed independent substantive changes to the previous public review draft. These changes are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the previous public review draft 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 ay to 189.1-2020***Delete previous Table 7.5.1&7.5.2 values and update with new values*Table 7.5.1 Building Performance Factors for Cost (BPF<sub>C</sub>) and Renewable Fraction (RF<sub>C</sub>)

		Building Type								
		Multifamily	Healthcare/ hospital	Hotel/motel	Office	Restaurant	Retail	School	Warehouse	All others
Building Performance Factor for Cost	0A & 1A	0.64	0.56	0.51	0.48	0.62	0.48	0.37	0.36	0.51
	0B & 1B	0.62	0.55	0.49	0.52	0.62	0.51	0.45	0.40	0.53
	2A	0.58	0.53	0.49	0.45	0.58	0.46	0.36	0.38	0.46
	2B	0.58	0.50	0.47	0.51	0.59	0.52	0.41	0.40	0.48
	3A	0.61	0.53	0.49	0.49	0.58	0.48	0.36	0.41	0.46
	3B	0.59	0.50	0.48	0.51	0.60	0.52	0.41	0.42	0.50
	3C	0.50	0.50	0.48	0.42	0.57	0.48	0.39	0.40	0.47
	4A	0.66	0.51	0.48	0.47	0.61	0.48	0.36	0.42	0.50
	4B	0.66	0.49	0.48	0.47	0.56	0.52	0.39	0.41	0.48
	4C	0.67	0.50	0.47	0.45	0.60	0.51	0.38	0.44	0.50
	5A	0.63	0.53	0.45	0.47	0.62	0.47	0.36	0.47	0.47
	5B	0.65	0.47	0.47	0.47	0.59	0.50	0.39	0.44	0.47
	5C	0.66	0.49	0.46	0.44	0.63	0.51	0.36	0.45	0.45
	6A	0.62	0.54	0.46	0.49	0.65	0.47	0.35	0.51	0.47
	6B	0.65	0.49	0.47	0.48	0.62	0.48	0.36	0.48	0.47
	7	0.61	0.55	0.46	0.46	0.66	0.46	0.35	0.54	0.47
	8	0.65	0.55	0.47	0.49	0.69	0.47	0.36	0.53	0.43
	0A	0.69	0.62	0.64	0.51	0.63	0.46	0.51	0.25	0.55
	0B	0.68	0.60	0.63	0.52	0.61	0.44	0.54	0.27	0.55
	1A	0.72	0.63	0.66	0.50	0.61	0.42	0.55	0.21	0.61
	1B	0.69	0.60	0.61	0.51	0.60	0.42	0.54	0.24	0.54
	2A	0.73	0.60	0.61	0.46	0.60	0.38	0.51	0.20	0.58
	2B	0.73	0.56	0.61	0.47	0.60	0.36	0.52	0.21	0.59
	3A	0.74	0.57	0.60	0.45	0.62	0.36	0.50	0.21	0.57
	3B	0.76	0.57	0.62	0.48	0.62	0.37	0.50	0.20	0.60
	3C	0.68	0.54	0.59	0.40	0.62	0.35	0.52	0.17	0.48
	4A	0.74	0.58	0.62	0.45	0.64	0.37	0.47	0.27	0.56
	4B	0.75	0.56	0.59	0.46	0.64	0.37	0.47	0.21	0.56
	4C	0.74	0.53	0.60	0.43	0.65	0.38	0.50	0.23	0.54
	5A	0.73	0.57	0.63	0.48	0.66	0.37	0.49	0.32	0.59
	5B	0.76	0.54	0.62	0.48	0.65	0.37	0.48	0.26	0.57
	5C	0.75	0.55	0.60	0.46	0.67	0.40	0.47	0.23	0.54
	6A	0.72	0.58	0.65	0.49	0.67	0.37	0.48	0.35	0.57
	6B	0.73	0.57	0.62	0.49	0.65	0.39	0.45	0.30	0.53
7	0.71	0.59	0.64	0.48	0.67	0.38	0.47	0.32	0.56	
8	0.73	0.60	0.66	0.52	0.69	0.40	0.48	0.34	0.61	
Renewable Fraction		0.50	0.35	0.50	0.50	0.10	0.50	0.50	0.50	0.50

BSR/ASHRAE/ICC/USGBC/IES Addendum ay to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2020, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings* First Public Review Draft**Table 7.5.2 Building Performance Factors for Emissions (BPF<sub>E</sub>) and Renewable Fraction (RF<sub>E</sub>)**

		Building Type								
Climate Zone		Multifamily	Healthcare/hospital	Hotel/motel	Office	Restaurant	Retail	School	Warehouse	All others
Building Performance Factor for Cost	0A & 1A	0.64	0.57	0.55	0.53	0.49	0.50	0.39	0.38	0.51
	0B & 1B	0.64	0.57	0.55	0.53	0.49	0.50	0.39	0.38	0.51
	2A	0.63	0.58	0.54	0.50	0.50	0.47	0.37	0.40	0.50
	2B	0.65	0.52	0.54	0.55	0.48	0.47	0.43	0.40	0.51
	3A	0.63	0.56	0.54	0.51	0.51	0.49	0.38	0.43	0.50
	3B	0.66	0.55	0.57	0.55	0.53	0.50	0.45	0.42	0.53
	3C	0.61	0.55	0.57	0.48	0.54	0.50	0.38	0.37	0.50
	4A	0.60	0.56	0.52	0.48	0.53	0.51	0.35	0.49	0.50
	4B	0.65	0.55	0.52	0.51	0.52	0.51	0.42	0.44	0.52
	4C	0.60	0.56	0.54	0.47	0.57	0.53	0.44	0.47	0.52
	5A	0.57	0.56	0.51	0.49	0.56	0.53	0.37	0.53	0.52
	5B	0.62	0.53	0.49	0.51	0.53	0.52	0.45	0.48	0.52
	5C	0.62	0.55	0.54	0.48	0.57	0.54	0.37	0.45	0.51
	6A	0.55	0.55	0.52	0.49	0.59	0.54	0.38	0.57	0.52
	6B	0.57	0.53	0.53	0.50	0.57	0.54	0.37	0.53	0.52
	7	0.53	0.55	0.51	0.46	0.60	0.50	0.37	0.53	0.51
	8	0.56	0.55	0.52	0.48	0.65	0.50	0.41	0.53	0.52
	0A	<u>0.68</u>	<u>0.63</u>	<u>0.67</u>	<u>0.51</u>	<u>0.65</u>	<u>0.46</u>	<u>0.52</u>	<u>0.25</u>	<u>0.56</u>
	0B	<u>0.67</u>	<u>0.61</u>	<u>0.66</u>	<u>0.53</u>	<u>0.63</u>	<u>0.44</u>	<u>0.55</u>	<u>0.27</u>	<u>0.56</u>
	1A	<u>0.71</u>	<u>0.63</u>	<u>0.68</u>	<u>0.51</u>	<u>0.62</u>	<u>0.43</u>	<u>0.56</u>	<u>0.21</u>	<u>0.61</u>
	1B	<u>0.69</u>	<u>0.60</u>	<u>0.63</u>	<u>0.51</u>	<u>0.62</u>	<u>0.43</u>	<u>0.55</u>	<u>0.24</u>	<u>0.55</u>
	2A	<u>0.71</u>	<u>0.60</u>	<u>0.64</u>	<u>0.46</u>	<u>0.63</u>	<u>0.39</u>	<u>0.53</u>	<u>0.20</u>	<u>0.58</u>
	2B	<u>0.71</u>	<u>0.57</u>	<u>0.65</u>	<u>0.48</u>	<u>0.63</u>	<u>0.37</u>	<u>0.53</u>	<u>0.21</u>	<u>0.59</u>
	3A	<u>0.74</u>	<u>0.58</u>	<u>0.65</u>	<u>0.46</u>	<u>0.66</u>	<u>0.39</u>	<u>0.54</u>	<u>0.24</u>	<u>0.59</u>
	3B	<u>0.72</u>	<u>0.58</u>	<u>0.66</u>	<u>0.48</u>	<u>0.65</u>	<u>0.38</u>	<u>0.52</u>	<u>0.20</u>	<u>0.59</u>
	3C	<u>0.66</u>	<u>0.56</u>	<u>0.64</u>	<u>0.41</u>	<u>0.65</u>	<u>0.36</u>	<u>0.55</u>	<u>0.16</u>	<u>0.49</u>
	4A	<u>0.68</u>	<u>0.59</u>	<u>0.65</u>	<u>0.43</u>	<u>0.68</u>	<u>0.40</u>	<u>0.47</u>	<u>0.32</u>	<u>0.54</u>
	4B	<u>0.70</u>	<u>0.57</u>	<u>0.61</u>	<u>0.46</u>	<u>0.67</u>	<u>0.39</u>	<u>0.49</u>	<u>0.24</u>	<u>0.56</u>
	4C	<u>0.67</u>	<u>0.55</u>	<u>0.65</u>	<u>0.43</u>	<u>0.68</u>	<u>0.41</u>	<u>0.54</u>	<u>0.26</u>	<u>0.53</u>
	5A	<u>0.65</u>	<u>0.58</u>	<u>0.65</u>	<u>0.46</u>	<u>0.69</u>	<u>0.41</u>	<u>0.50</u>	<u>0.39</u>	<u>0.57</u>
	5B	<u>0.68</u>	<u>0.56</u>	<u>0.65</u>	<u>0.48</u>	<u>0.68</u>	<u>0.40</u>	<u>0.50</u>	<u>0.31</u>	<u>0.56</u>
	5C	<u>0.67</u>	<u>0.58</u>	<u>0.64</u>	<u>0.47</u>	<u>0.69</u>	<u>0.43</u>	<u>0.49</u>	<u>0.26</u>	<u>0.55</u>
6A	<u>0.64</u>	<u>0.60</u>	<u>0.66</u>	<u>0.47</u>	<u>0.69</u>	<u>0.41</u>	<u>0.49</u>	<u>0.43</u>	<u>0.56</u>	
6B	<u>0.65</u>	<u>0.60</u>	<u>0.65</u>	<u>0.49</u>	<u>0.69</u>	<u>0.43</u>	<u>0.46</u>	<u>0.36</u>	<u>0.54</u>	
7	<u>0.62</u>	<u>0.61</u>	<u>0.66</u>	<u>0.46</u>	<u>0.70</u>	<u>0.42</u>	<u>0.46</u>	<u>0.38</u>	<u>0.54</u>	
8	<u>0.64</u>	<u>0.63</u>	<u>0.66</u>	<u>0.49</u>	<u>0.71</u>	<u>0.44</u>	<u>0.48</u>	<u>0.40</u>	<u>0.60</u>	
Renewable Fraction		0.50	0.35	0.50	0.50	0.10	0.50	0.50	0.50	0.50

# Public Review Draft

Proposed Addendum az to Standard 189.1-2020

# Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings

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

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BSR/ASHRAE/ICC/USGBC/IES Addendum az to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2020, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings* First Public Review Draft

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**(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 addendum updates the building performance factors in Table 7.5.2.2.1. This addendum modifies tables in Addendum aj, which is pending approval for publication. Upon publication of both Addendum aj and this addendum, this table shown below will be the final publication.

*[Note to Reviewers: This addendum makes proposed independent substantive changes to the previous public review draft. These changes are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the previous public review draft 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 az to 189.1-2020***Delete previous Table 7.5.2.2.1 values and update with new values***Table 7.5.2.2.1 Building Performance Factors for Emissions (BPF<sub>E</sub>) and Renewable Fraction (RF<sub>E</sub>) for use with LRMER**

		Building Type								
Climate Zone	Multifamily	Healthcare/hospital	Hotel/motel	Office	Restaurant	Retail	School	Warehouse	All others	
										0A & 1A
0B & 1B	0.88	0.79	0.83	0.57	0.70	0.53	0.66	0.25	0.67	
2A	0.86	0.77	0.80	0.57	0.70	0.48	0.65	0.24	0.65	
2B	0.82	0.76	0.84	0.58	0.73	0.49	0.67	0.25	0.66	
3A	0.88	0.74	0.79	0.57	0.74	0.53	0.68	0.32	0.67	
3B	0.79	0.78	0.85	0.60	0.76	0.54	0.67	0.26	0.68	
3C	0.74	0.84	0.94	0.55	0.79	0.53	0.80	0.21	0.69	
4A	0.77	0.74	0.78	0.51	0.75	0.57	0.57	0.42	0.64	
4B	0.73	0.77	0.83	0.57	0.78	0.58	0.64	0.35	0.67	
4C	0.64	0.80	0.86	0.54	0.81	0.75	0.77	0.45	0.70	
5A	0.72	0.77	0.78	0.53	0.77	0.56	0.60	0.52	0.66	
5B	0.66	0.76	0.81	0.57	0.81	0.66	0.65	0.48	0.68	
5C	0.60	0.81	0.84	0.55	0.82	0.76	0.68	0.41	0.69	
6A	0.68	0.78	0.77	0.52	0.79	0.68	0.59	0.57	0.67	
6B	0.60	0.79	0.79	0.52	0.81	0.72	0.58	0.53	0.67	
7	0.63	0.79	0.77	0.49	0.81	0.62	0.57	0.50	0.64	
8	0.72	0.78	0.78	0.55	0.79	0.57	0.60	0.46	0.66	
0A	0.70	0.63	0.67	0.51	0.63	0.43	0.55	0.22	0.54	
0B	0.70	0.63	0.67	0.51	0.63	0.43	0.55	0.22	0.54	
1A	0.70	0.63	0.67	0.51	0.63	0.43	0.55	0.22	0.54	
1B	0.70	0.63	0.67	0.51	0.63	0.43	0.55	0.22	0.54	
2A	0.70	0.60	0.64	0.47	0.64	0.39	0.53	0.21	0.52	
2B	0.68	0.59	0.73	0.49	0.67	0.39	0.57	0.22	0.54	
3A	0.72	0.58	0.66	0.47	0.69	0.42	0.56	0.28	0.55	
3B	0.64	0.60	0.73	0.49	0.70	0.43	0.56	0.22	0.55	
3C	0.57	0.63	0.78	0.44	0.73	0.41	0.70	0.17	0.55	
4A	0.63	0.58	0.65	0.43	0.69	0.44	0.45	0.37	0.53	
4B	0.59	0.59	0.66	0.47	0.73	0.45	0.53	0.31	0.54	
4C	0.51	0.60	0.76	0.43	0.75	0.57	0.65	0.41	0.59	
5A	0.60	0.59	0.65	0.45	0.71	0.45	0.50	0.47	0.55	
5B	0.54	0.59	0.70	0.47	0.74	0.51	0.54	0.43	0.57	
5C	0.49	0.68	0.73	0.49	0.76	0.57	0.55	0.39	0.58	
6A	0.57	0.61	0.66	0.46	0.72	0.47	0.48	0.52	0.56	
6B	0.52	0.65	0.69	0.47	0.75	0.56	0.46	0.50	0.58	
7	0.53	0.64	0.66	0.43	0.73	0.49	0.45	0.46	0.55	
8	0.62	0.63	0.66	0.49	0.71	0.45	0.47	0.43	0.56	
Renewable Fraction	0.50	0.35	0.50	0.50	0.10	0.50	0.50	0.50	0.50	

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

## NSF/ANSI International Standard for Biosafety Cabinetry —

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

- 

#### Design and Construction

- 

#### 5.32 Data plate(s)

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**5.32.3** A canopy connection is not required. However, when a canopy is submitted for approval as an acceptable option, it shall have a physical data plate including all of the following information:

- manufacturer's name and address;
- canopy model number;
- canopy serial number

*Rationale: new language to eliminate ambiguity by adding a requirement for canopy connections listed as acceptable options to have a data plate with a model number.*



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

NSF/ANSI/CAN Standard

## Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and other Recreational Water Facilities

Evaluation criteria for materials, components, products, equipment, and systems for use at recreational water facilities

- 
- 
- 

### Normative Annex 3 (formerly Annex C)

#### Test methods for the evaluation of centrifugal pumps

NOTE — The test conditions specified in this Annex are not intended to represent recommended field use conditions.

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- 
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### N-3.2 Hydrostatic pressure test

#### N-3.2.1 Purpose

The purpose of this test is to verify that a pump is capable of withstanding a hydrostatic pressure equal to 150% of its working pressure.

#### N-3.2.2 Apparatus

The test shall be performed using pressure gauges conforming to ANSI/ASME B40.100<sup>Error! Bookmark not defined.</sup> Grade 3A specifications. The gauges shall be sized to yield the measurement within 25% to 75% of scale. Electronic pressure transducers may be used provided that the accuracy and scale are equivalent to those of a pressure gauge meeting these requirements.

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### N-3.2.3 Test conditions

	Swimming pool	Hot tub / spa
water temperature	75 ± 10 °F (24 ± 6 °C)	102 ± 5 °F (39 ± 3 °C)

Pumps, except those labeled to be for swimming pools only, shall be tested at the hot tubs / spa temperature.

At the manufacturer's discretion, a pump intended only for swimming pool use shall be tested at any temperature from 65 – 107 °F (18 - 42 °C).

*Rationale: Higher test temperatures are assumed to be the 'worst-case' due to effects on product materials (e.g., plastics) during hydrostatic testing. Products used in both pools and spas are already tested using the higher temperature range. Allowing a manufacturer to specify the test temperature of a pump intended only for swimming pools would only serve to allow manufactures to test at the higher 'worst-case' temperature, while still allowing testing within the swimming pool temperature range. Proposal would provide a greater level of safety given some pool-only products would be tested at higher temperatures.*

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- 
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# Draft PDS-02

## BSR/RESNET/ICC 301-2022

### Addendum C-202x

**4.1.2 Calculating the Energy Rating Index.** The Energy Rating Index shall be determined in accordance with Equation 4.1-2.

$$\text{Energy Rating Index} = \text{PEfrac} * [\text{TnML} / (\text{TRL} * \text{IAF}_{\text{RH}})] * 100 \quad (\text{Equation 4.1-2})$$

where:

$$\begin{aligned} \text{TnML} &= \text{nMEUL}_{\text{HEAT}} + \text{nMEUL}_{\text{COOL}} + \text{nMEUL}_{\text{HW}} + \text{EC}_{\text{LA}} + \text{EC}_{\text{VENT}} + \text{EC}_{\text{DH}} \text{ (MBtu/y).} \\ \text{TRL} &= \text{REUL}_{\text{HEAT}} + \text{REUL}_{\text{COOL}} + \text{REUL}_{\text{HW}} + \text{REC}_{\text{LA}} + \text{REC}_{\text{VENT}} + \text{REC}_{\text{DH}} \text{ (MBtu/y).} \\ \text{IAF}_{\text{RH}} &= \text{Index Adjustment Factor of Rated Home in accordance with Equation 4.3-2.} \end{aligned}$$

and where:

$$\begin{aligned} \text{EC}_{\text{LA}} &= \text{The Rated Home energy consumption for lighting, appliances and MELs as defined by Section 4.2.2.5.2, converted to MBtu/y, where MBtu/y} = (\text{kWh/y})/293 \text{ or } (\text{Therms/y})/10, \text{ as appropriate.} \\ \text{REC}_{\text{LA}} &= \text{The Reference Home energy consumption for lighting, appliances and MELs as defined by Section 4.2.2.5.1, converted to MBtu/y, where MBtu/y} = (\text{kWh/y})/293 \text{ or } (\text{Therms/y})/10, \text{ as appropriate.} \\ \text{EC}_{\text{VENT}} &= \text{The Rated Home energy consumption for Dwelling Unit Mechanical Ventilation System fans, converted to MBtu/y, where MBtu/y} = (\text{kWh/y})/293. \\ \text{REC}_{\text{VENT}} &= \text{The Reference Home energy consumption for Dwelling Unit Mechanical Ventilation System fans, converted to MBtu/y, where MBtu/y} = (\text{kWh/y})/293. \\ \text{EC}_{\text{DH}} &= \text{The Rated Home energy consumption for dehumidification, converted to MBtu/y, where MBtu/y} = (\text{kWh/y})/293. \end{aligned}$$

$REC_{DH}$  = The Reference Home energy consumption for dehumidification, converted to MBtu/y, where  $MBtu/y = (kWh/y)/293$ .

and where:

$PE_{frac} = (TEU - OPP + BSL) / TEU$

TEU = Total energy use of the Rated Home including all rated and nonrated energy features where all fossil fuel site energy uses ( $Btu_{fossil}$ ) are converted to equivalent electric energy use ( $kWh_{eq}$ ) in accordance with Equation 4.1-3.

OPP = On-Site Power Production as defined by Section 4.2.2.7 of this Standard.

BSL = Battery Storage Losses, calculated as total annual energy based on the round-trip efficiency for the On-Site Battery Storage.

$$kWh_{eq} = (Btu_{fossil} * 0.40) / 3412 \quad \text{(Equation 4.1-3)}$$

**4.2.2.7.2.12. Ceiling Fans.** Where the number of ceiling fans included in the Rated Home is equal to or greater than the number of Bedrooms plus one, they shall also be included in the Reference Home. The number of Bedrooms plus one (Nbr+1) ceiling fans shall be assumed in both the Reference Home and the Rated Home. -A daily ceiling fan operating schedule according to Normative Appendix C.4 Table C4(5), shall be assumed in both the Reference Home and the Rated Home during months with an average outdoor temperature greater than 63 °F. The cooling thermostat (but not the heating thermostat) shall be set up by 0.5 °F in both the Reference and Rated Home during these months.

The Reference Home shall use number of Bedrooms plus one (Nbr+1) standard ceiling fans of 42.6 Watts each. The Rated Home shall use the Labeled Ceiling Fan Standardized Watts (LCFSW) ceiling fan EnergyGuide label to obtain the standardized "Energy Use" Watts and also multiplied by number of Bedrooms plus one (Nbr+1) fans to obtain total ceiling fan wattage for the Rated Home.

Where installed ceiling fans in the Rated Home have different EnergyGuide labels values of LCFSW, the average "Energy Use" Watts shall be used for calculating ceiling fan energy use in the Rated Home.

During periods of fan operation, the fan wattage at 100-percent Internal Gain fraction shall be added to Internal Gains for both the Reference and Rated Homes ( $f_{\text{internal}} = 1.0$  and  $f_{\text{sensible}} = 1.0$ ). In addition, annual ceiling fan energy use, in MBtu/y [(kWh/y)/293], for both the Rated and Reference Homes shall be added to the lighting and appliance energy consumption ( $EC_{LA}$  and  $REC_{LA}$ , as appropriate) as specified by Equation 4.1-2 in Section 4.1.2.

### Normative Appendix C: Modeling Assumptions

#### **C3.Duct Insulation R-Values.**

A nominal insulation R-value shall be converted to an effective insulation R-value to account for exterior air film resistance and duct shape<sup>27</sup> according to Table C.32(1).

**Table C.3(1) Effective Duct Insulation R-Values**

<b><u>Duct Type</u></b>	<b><u>R-Value (F-ft<sup>2</sup>-hr/Btu)</u></b>
<u>Uninsulated</u>	<u>1.7</u>
<u>Insulated, Supply</u>	<u><math>2.2438 + 0.5619 * \text{NominalRValue}</math></u>
<u>Insulated, Return</u>	<u><math>2.0388 + 0.7053 * \text{NominalRValue}</math></u>

<sup>27</sup> (Informative Note) Based on “True R-Values of Round Residential Ductwork” by Palmiter and Kruse (2006).  
These conversions do not apply to buried ducts.

## BSR/UL 62790, Standard for Safety for Junction Boxes for Photovoltaic Modules - Safety Requirements and Tests

### 1. First Edition of the UL IEC-Based Standard for Junction Boxes for Photovoltaic Modules - Safety Requirements and Tests, UL 62790

#### PROPOSAL

##### 4.2.2 Marking

The marking shall be indelible and easily legible.

The minimum marking on the junction boxes shall be that of items a), b) and n) in **Error! Reference source not found.**

If connection of the junction box is made by connectors or by a fixed cable that has implemented a connector on its end, the warning notice listed in m) of **Error! Reference source not found.** shall be on a label or similar on or close to the connector. An instruction where to place the warning notice shall be included in the technical documentation.

Markings a) and b) of **Error! Reference source not found.** shall be found on the smallest unit of packaging.

##### 4.2.2DV D2 Addition of the following for using aluminum conductors:

~~4.2.2DV.1 Aluminum conductors, insulated or uninsulated, used as internal wiring, such as for interconnection between current-carrying parts or in a component winding, shall be terminated at each end by a terminal that is rated for the combination of metals involved at the connection points. A wire-binding screw or a pressure wire connector used as a terminating device shall be rated for use with aluminum under the conditions involved – for example, temperature, heat cycling, vibration, and other similar conditions.~~

4.2.2DV.21 If the junction box is rated for use copper wires only, the junction box shall be marked, at or adjacent to the terminals, with the statement "Use copper wire only", "CU only", or the equivalent.

4.2.2DV.32 If the junction box is rated for use both copper and aluminum wires, the junction box shall be marked (independent of any marking of the terminal) with the statement "Use aluminum or copper wire", "AL-CU", or the equivalent.

#### 4.6 Cables

Photovoltaic cables connected to the junction box shall comply with the requirements of IEC 62930. The rated values of the cables shall be the rated values of the junction box or greater.

##### 4.6DV D2 Modification by replacing 4.6 the first sentence with the following:

~~Photovoltaic cables connected to the junction box shall comply with the requirements of IEC 62930 or UL 4703.~~

4.6DV.1 Cables connected to the junction box shall be suitable for use in photovoltaic systems and shall comply with the requirements of the National Electrical Code (NEC), NFPA 70, Section 690.31, Wiring Methods.

**4.6DV.2 The cable in exposed outdoor locations in PV system dc circuits within the PV array shall be one of the following:**

**a) PV wire or cable, or**

**b) Single-conductor cable marked sunlight resistant and Type USE-2 and Type RHW-2.**

5.2.2 The tests shall be carried out with copper conductors unless otherwise specified by the manufacturer and with the type of conductor specified for the junction box. If terminations are provided for all types of conductors (solid, stranded and flexible), the tests shall be carried out with conductors representing the worst case.

**5.2.2DV D2 Addition of the following for wires with aluminum conductors:**

**5.2.2DV.1 Aluminum conductors, insulated or uninsulated, used as internal wiring, such as for interconnection between current-carrying parts or in a component winding, shall be terminated at each end by a terminal that is rated for the combination of metals involved at the connection points. A wire-binding screw or a pressure wire connector used as a terminating device shall be rated for use with aluminum under the conditions involved - for example, temperature, heat cycling, vibration, and other similar conditions.**

**5.2.2DV.2 Junction boxes rated for use with aluminum conductors shall only be used with AA-8000 series aluminum alloy conductors that comply with UL 4703. Test specimens for aluminum alloy conductors shall be selected in accordance with UL 486A-486B, Table 6, Conductor Materials to be used in Test Sequences.**

**5.3.8 Mechanical strength at lower temperatures**

Before the tests, the specimens are stored for 5 h at a temperature of  $-40\text{ }^{\circ}\text{C}$  on a 20 mm thick steel plate. The tests are carried out immediately after the end of the storage duration in the cold chamber.

The test shall be carried out in accordance with the following procedure.

Four impacts on the specimen having an energy of 1 J per impact with an appropriate impact test apparatus in accordance with IEC 60068-2-75 shall be carried out at four uniformly distributed positions on the circumference.

The test is passed successfully if no damage that may impair the function of the junction box is evident. Creepage distances and clearances as well as solid insulation shall not be impaired.

**5.3.8DV D2 Modification by adding another required test condition and procedure in accordance with the following:**

**5.3.8DV.1 Addition of required test condition by adding the following second paragraph: Replace "Before the test, the specimens are to be stored for 5 h at a temperature of  $-35\text{ }^{\circ}\text{C}$  on a 20 mm thick steel plate. The test is to be carried out immediately after the end of the storage duration in the cold chamber." with "5 h at a temperature of  $-40\text{ }^{\circ}\text{C}$  with 5 h at a temperature of  $-35\text{ }^{\circ}\text{C}$ ."**

**5.3.8DV.2 Replace Addition of required test procedure by adding the following after the third paragraph: "For the  $-35\text{ }^{\circ}\text{C}$  test condition, "four impacts on the specimen having an energy of 1 J per impact" with "one impact on the specimen having an energy of 5 J, at**

**any point considered most vulnerable, with an appropriate impact test apparatus in accordance with IEC 60068-2-75 shall be carried out.”**:-

**5.3.8DV.3 Add the following: If the manufacturer specifies temperature ranges or temperature limitation either for PV system installation (not for PV system operation), or for connector field assembly, the test shall be conducted at the specified lowest temperature, or 0°C, whichever is lower. If the manufacturer does not specify temperature ranges or temperature limitation, the test shall be conducted at – 35°C.**

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**BSR/UL 399, Standard for Safety for Drinking Water Coolers****1. Proposed revision to be equivalent with UL 541 and ANSI/ASHRAE 15****PROPOSAL**

SB3.2 The charge size for water coolers shall be based on the flammability class of the refrigerant being used as described in the Standard for Designation and Safety Classification of Refrigerants, ANSI/ASHRAE 34 and shall not exceed the following:

- a) 9.6 oz (270 ~~g grams~~) for a Class 2 refrigerant.
- b) 4.6 oz (130 g) ~~2.0 oz (60 grams)~~ for a Class 3 refrigerant.

SB3.2A A drinking water cooler intended for use in lobbies or locations of egress, such as a hallway or public corridor, shall not have a flammable refrigerant charge size that exceeds the lesser of:

- a) three times the refrigerant lower flammability limit (3 m<sup>3</sup> x LFL ) as expressed in kilograms per cubic meter (kg/m<sup>3</sup>); and
- b) the maximum specified in SB3.2.

SB6.2.3 The installation and operating instructions shall indicate ~~that~~:

- a) That C~~o~~ component parts shall be replaced with like components;
- b) That S~~S~~ servicing shall be done by factory authorized service personnel, so as to minimize the risk of possible ignition due to incorrect parts or improper service; ~~and~~
- c) That A~~A~~ drinking water cooler having a flammable refrigerant shall not be intended for use in lobbies or locations of egress, such as a hallway or public corridor-, if the requirements of SB3.2A are not met; and
- d) The refrigerant lower flammability limit for the kind of refrigerant specified on the drinking water cooler nameplate.

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