

## CONTENTS

---

### American National Standards

Project Initiation Notification System (PINS) .....	2
Call for Comment on Standards Proposals .....	5
Final Actions - (Approved ANS) .....	27
Call for Members (ANS Consensus Bodies) .....	30
Accreditation Announcements (Standards Developers) .....	35
American National Standards (ANS) Process .....	36
ANS Under Continuous Maintenance .....	37
ANSI-Accredited Standards Developer Contacts .....	38
Meeting Notices (International) .....	40

### International Standards

ISO and IEC Draft Standards .....	41
ISO and IEC Newly Published Standards .....	45

### Information Concerning

Registration of Organization Names in the United States .....	47
Proposed Foreign Government Regulations .....	48

# 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.

---

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

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

### ***New Standard***

BSR/AHRI Standard 375-202x (SI/I-P), Application of Sound Rating Levels of Large Air-cooled Outdoor Refrigerating and Air-conditioning Equipment (new standard)

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

Project Need: This standard will be an application standard to accompany AHRI Standard 370. It will determine uniform methods for estimating sound pressure levels as a function of distance from any products included in the scope of AHRI Standard 370.

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

Scope: This standard will develop uniform methods for estimating sound pressure levels as a function of distance from products included in the scope of AHRI Standard 370. Products that are covered by AHRI Standard 275 are out of scope.

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

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

### ***National Adoption***

BSR/ASSP/ISO 45006-202X, Occupational health and safety management - Preventing and managing infectious diseases - General guidelines for organizations (identical national adoption of Proposed ISO 45006-202X)

Stakeholders: The occupational safety and health stakeholder communities in the United States and interested groups and individuals addressing preventing and managing infectious diseases general guidelines for organizations.

Project Need: Based upon the consensus of the ISO TC283 Committee and the occupational safety and health stakeholder communities in the United States.

Interest Categories: Academia; Consulting; Consumer; Employee/Labor; Employer/User; General Interest; Government; Insurance; Manufacturer; Professional Society; Utility; Interested Individuals

Scope: This document gives guidelines for organizations on how to prevent exposure to infectious agents and manage the risks associated with infectious diseases that present a risk of severe ill health or death and can impact the health, safety, and well-being of workers and relevant interested parties and to present a lower risk to health yet have a significant impact on the organization, its workers, and relevant interested parties.

**ASTM (ASTM International)**

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

***New Standard***

BSR/ASTM WK82917-202x, New Specification for Mechanical Couplings and Fittings for use with AWWA C906 & ASTM F714 Polyethylene pipes (new standard)

Stakeholders: Fittings industry.

Project Need: Absence of a consensus standard for mechanical fittings for these applications has perpetuated ambiguity as related to the required performance characteristics for typical operating conditions in a water piping system. AWWA M55 currently alludes only to availability of products that have an axial restraint capability sufficient to yield the PE pipe (Category 1) or a lesser capacity (Category 3) and leaves the piping designer to declare the capacity of the product. The goal of this task group is to define an axial restraint capability that is appropriate for the intended application based on the thermal, pressure thrust, transients (water hammer), Poisson effect, and any other commonly known or reasonably likely axial loading in a water system.

Interest Categories: Producer, User, General Interest

Scope: Develop and issue a performance standard (similar to ASTM F1948) for use with AWWA C906/ASTM F714 Polyethylene pipe. Scope may include "Seal Only" (Category 2) mechanical fittings to be used in absence of axial loading or in presence of some supplemental axial loading provided external to the fitting.

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

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

***Addenda***

BSR/CSA NGV 6.1-202x, Compressed natural gas (CNG) fuel storage and delivery systems for road vehicles (addenda to ANSI/CSA NGV 6.1-2021)

Stakeholders: Natural gas vehicle manufacturers, CNG Infrastructure, regulators.

Project Need: Safety.

Interest Categories: General interest, Gas supplier, Producer interest, User interest

Scope: Standard for the design, installation, inspection, repair, and maintenance of the fuel storage and delivery system installed in on-road vehicles for use with compressed natural gas (CNG). This includes fuel systems on self-propelled vehicles for the provision of motive power. This standard does not apply to (a) stationary engines; (b) mobile equipment using natural gas as a fuel for other than propulsion; or (c) electronic components or controls strategy of a fuel management system.

**ECIA (Electronic Components Industry Association)**

Laura Donohoe; ldonohoe@ecianow.org | 13873 Park Center Road, Suite 315 | Herndon, VA 20171 www.ecianow.org

***Reaffirmation***

BSR/EIA 364-34-2012 (R202x), Ambient Condensation Test Procedure for Electrical Connectors and Sockets (reaffirmation of ANSI/EIA 364-34-2012 (R2017))

Stakeholders: Electronics, Electrical, and Telecommunications industries.

Project Need: Reaffirm current American National Standard.

Interest Categories: User, Producer, General Interest

Scope: This standard establishes test methods for the evaluation of connectors and sockets as they are influenced by the effects of high condensing humidity and heat.

**NENA (National Emergency Number Association)**

Delaine Arnold; darnold@nena.org | 1700 Diagonal Road, Suite 500 | Alexandria, VA 22314 [www.nena.org](http://www.nena.org)

***New Standard***

BSR/NENA STA-005.2-202x, NENA Standards for the Provisioning and Maintenance of GIS data to ECRF and LVFs (new standard)

Stakeholders: ECRF, LVF, and related NG9-1-1 vendors; GIS data management staff; any individual who will benefit from the subject matter.

Project Need: Standardize the ECRF/LVF functions and interfaces to ensure alignment with the i3 and NG9-1-1 GIS Data Model standards.

Interest Categories: Producers, Users, General Interest

Scope: This document defines operational processes and procedures necessary to support the i3 Emergency Call Routing Function (ECRF) and Location Validation Function (LVF) through the ongoing process of publishing the most current and accurate authoritative Geographic Information System (GIS) data into ECRF/LVF systems and identifies ECRF/LVF performance and implementation considerations for 9-1-1 Authorities' consideration.

# Call for Comment on Standards Proposals

## American National Standards

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

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

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

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

\* Standard for consumer products

---

## Comment Deadline: September 11, 2022

### AARST (American Association of Radon Scientists and Technologists)

527 N. Justice Street, Hendersonville, NC 28739 | [StandardsAssist@gmail.com](mailto:StandardsAssist@gmail.com), [www.aarst.org](http://www.aarst.org)

#### Revision

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

This standard of practice specifies minimum requirements for methods that mitigate risks to occupants posed by radon gas, chemical vapors, or other hazardous soil gases that are present within existing schools and large buildings.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [StandardsAssist@gmail.com](mailto:StandardsAssist@gmail.com)

### AARST (American Association of Radon Scientists and Technologists)

527 N. Justice Street, Hendersonville, NC 28739 | [StandardsAssist@gmail.com](mailto:StandardsAssist@gmail.com), [www.aarst.org](http://www.aarst.org)

#### Revision

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

This standard of practice specifies minimum requirements for methods that mitigate risks to occupants posed by radon gas, chemical vapors, or other hazardous soil gases that are present within existing multifamily buildings.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [StandardsAssist@gmail.com](mailto:StandardsAssist@gmail.com)

## Comment Deadline: September 11, 2022

### **AARST (American Association of Radon Scientists and Technologists)**

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

#### **Revision**

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

This standard of practice specifies minimum requirements for methods that mitigate risks to occupants posed by radon gas, chemical vapors, or other hazardous soil gases that are present within existing homes.

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

Send comments (copy psa@ansi.org) to: StandardsAssist@gmail.com

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

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

#### **Addenda**

BSR/ASHRAE/ICC/IES/USGBC Addendum aa to BSR/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 improves the charging language of the Irrigation Section 6.3.1.1. It specifies terms for irrigated landscape during the initial establishment period. Exceptions for this were also edited. This addendum also removes Section 6.3.1.2 because it did not provide the intended requirements. The lettered sections 'a-d' of former 6.3.1.2 are then assumed under the revised section 6.3.1.1 and still apply. All other subsequent sections are then renumbered after Section 6.3.1.1.

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

Send comments (copy 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 | tlxley@ashrae.org, www.ashrae.org

#### **Addenda**

BSR/ASHRAE/ICC/IES/USGBC Addendum i to BSR/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)

Addendum i (3rd PPR ISC) proposes a change from the second ISC to clarify Table 7.3.4 in response to input received from commenters. Only the table is shown and available for comment.

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

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

## Comment Deadline: September 11, 2022

### **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 z to BSR/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 revises the current requirement for the submittal of environmental product declarations within Standard 189.1 to be mandatory for products meeting specific criteria. The section includes a new requirement for reporting the global warming potential contribution for those products within the building project. This addendum also removes UL100 from the list of third-party multiattribute certifications in Section 9.5.1.4 because UL has withdrawn the standard without replacement and discontinued subscriptions.

[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 | [rshanley@ashrae.org](mailto:rshanley@ashrae.org), [www.ashrae.org](http://www.ashrae.org)

#### **Addenda**

BSR/ASHRAE/IES Addendum h to BSR/ASHRAE/IES Standard 100-202x, Energy Efficiency in Existing Buildings (addenda to ANSI/ASHRAE/IES Standard 100-2018)

This proposed addendum revises Sections 4.3.2, 4.3.3, 10.1, and 10.3 to simplify and clarify the compliance process for buildings with energy targets, buildings without energy targets, and residential buildings and dwelling units. It also deletes Informative Annex F and replaces it with new Figures 4-1, 4-2, and 10-1.

[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 | [cking@ashrae.org](mailto:cking@ashrae.org), [www.ashrae.org](http://www.ashrae.org)

#### **Revision**

BSR/ASHRAE Standard 17-202x, Method of Testing Capacity of Electronic and Thermostatic Refrigerant Expansion Valves (revision of ANSI/ASHRAE Standard 17-2015)

This revision of ANSI/ASHRAE Standard 17-2015 prescribes a method of testing the capacity of electronic and thermostatic refrigerant expansion valves for use in vapor-compression refrigeration systems. This ISC publication public review draft updates references.

[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: September 11, 2022

### **NENA (National Emergency Number Association)**

1700 Diagonal Road, Suite 500, Alexandria, VA 22314 | [darnold@nena.org](mailto:darnold@nena.org), [www.nena.org](http://www.nena.org)

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

BSR/NENA STA-024.1-202x, NENA Standard for the Conveyance of Emergency Incident Data Objects (EIDOs) between Next Generation (NG9-1-1) Systems and Applications (new standard)

Definition of the standard specification or information needed for an application developer to build the interface to receive and send Emergency Incident Data Objects (EIDOs) from their application to other vendor applications, enabling data exchange interoperability between i3-compliant PSAPs and their associated response agencies and other applications. This does not involve content or structure of the EIDO itself.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: download and comment from [https://dev.nena.org/higherlogic/ws/public/document?document\\_id=26606&wg\\_id=39962138-43d1-4402-a475-6468db7effda](https://dev.nena.org/higherlogic/ws/public/document?document_id=26606&wg_id=39962138-43d1-4402-a475-6468db7effda)

or email [darnold@nena.org](mailto:darnold@nena.org)

### **NSF (NSF International)**

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

#### ***Revision***

BSR/NSF 170-202x (i33r1), Glossary of Food Equipment Terminology (revision of ANSI/NSF 170-2021)

Definitions covered by this Standard consist of terminology related to food equipment, including terms describing equipment, materials, design, construction, and performance testing. This Standard includes common definitions of terms used throughout NSF Food Equipment and Sanitation Standards.

[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 350-202x (i74r1), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2020)

This Standard contains minimum requirements for onsite residential and commercial greywater treatment systems. Systems may include greywater reuse treatment systems having a rated treatment capacity up to 5,678 L/d (1,500 gal/d); or Commercial greywater reuse treatment systems: This applies to onsite commercial reuse treatment systems that treat combined commercial facility greywater with capacities exceeding 5,678 L/d (1,500 gal/d) and commercial facility laundry water only of any capacity. Management methods and end uses appropriate for the treated effluent discharged from greywater residential and commercial treatment systems meeting this Standard are limited to subsurface discharge to the environment only.

[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)



## Comment Deadline: September 11, 2022

### NSF (NSF International)

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

#### Revision

BSR/NSF 358-2-202x (i3r1), Polypropylene Pipe and Fittings for Water-Based Ground-Source Geothermal Heat Pump Systems (revision of ANSI/NSF 358-2-2017)

The physical and performance requirements in this standard apply to plastic piping system components as well as non-plastic components of the ground-loop heat exchanger including but not limited to pipes and fittings used in water-based ground-source heat pump systems. This Standard is intended for ground loop heat exchangers with a maximum temperature and pressure of 140°F (60°C) at 100 psi. Water-based ground-source heat pump systems commonly include the use of anti-freeze, heat transfer fluids or other chemical additives. This standard does not cover refrigerant-based ground loop heat exchangers such as direct expansion (DX) systems. This standard does not cover hydronic heating or cooling systems within buildings.

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

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

### NSF (NSF International)

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

#### Revision

BSR/NSF 359-202x (i5r1), Valves for Cross-linked Polyethylene (PEX) Water Distribution Tubing Systems (revision of ANSI/NSF 359-2018)

This Standard establishes the minimum physical and performance requirements for in-line valves used with cross-linked polyethylene (PEX) systems. Establishment of these criteria provide for the protection of public health and the environment.

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

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

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

P.O. Box 4561, Oceanside, CA 92052 | rick.dixon@resnet.us, www.resnet.us.com

#### Addenda

BSR/RESNET/ICC 301-202x Addendum B-202x, CO2e Index (addenda to ANSI/RESNET/ICC 301-2022)

Addendum B updates and clarifies the references to the Cambium and eGRID databases and other data used in the calculation of the CO2 Index, changes CO2 to CO2e, updates the reference to the 2022 edition of standard ANSI/RESNET/ICC 380, and makes other minor changes to standard ANSI/RESNET/ICC 301-2022.

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

Send comments (copy psa@ansi.org) to: RESNET using the online comment form which is accessed by following the "ANSI Standards & Amendments Out For Public Comment" link on webpage: <https://www.resnet.us/about/standards/standards-currently-out-for-public-comment/> then selecting the link to this

## Comment Deadline: September 11, 2022

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/ANIS/UL 746C-202x, Standard for Safety for Polymeric Materials - Use in Electrical Equipment Evaluations (revision of ANSI/UL 746C-2022)

This proposal covers the following topics: (1) Addition to Table 57.1 of Requirements for the Number of Baseline and Exposed Sets and (2) Inclusion of Requirements for Tolerance for Water Immersion Test Exposure/Conditioning Time in Paragraph 58.1.

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

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

### ULSE (UL Standards & Engagement)

333 Pfingsten Road, Northbrook, IL 60062-2096 | Amy.K.Walker@ul.org, <https://ul.org/>

#### Revision

BSR/UL 325-202x, Standard for Safety for Door, Drapery, Gate, Louver, and Window Operators and Systems (revision of ANSI/UL 325-2020)

This proposal for UL 325 covers: (1) Relocation of additional feature requirements to new section within vehicular gate section.

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

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

### ULSE (UL Standards & Engagement)

47173 Benicia Street, Fremont, CA 94538 | Marcia.M.Kawate@ul.org, <https://ul.org/>

#### Revision

BSR/UL 343-202x, Standard for Safety for Oil-Burning Appliances (revision of ANSI/UL 343-2021)

The following topic is being proposed: (1) Revision of requirements for metallic part materials in contact with biofuel

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

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

### ULSE (UL Standards & Engagement)

47173 Benicia Street, Fremont, CA 94538 | Marcia.M.Kawate@ul.org, <https://ul.org/>

#### Revision

BSR/UL 1072-202x, Standard for Safety for Medium-Voltage Power Cables (revision of ANSI/UL 1072-2020)

The following topic is being proposed: (1) Alignment of insulation thicknesses.

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

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

## Comment Deadline: September 11, 2022

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 60745-2-3-202x, Standard for Safety for Hand-Held Motor-Operated Electric Tools - Safety - Part 2-3: Particular Requirements for Grinders, Polishers and Disk-Type Sanders (revision of ANSI/UL 60745-2-3-2013 (R2018))

Revise Cl. 20.101.1DV to allow for application of 62841-2-3 testing requirements.

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

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

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 122701-202x, Standard for Safety for Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids (revision of ANSI/UL 122701-2017 (R2021))

(1) Revisions to align temperature and fatigue cycling requirements with those found in IEC TS 60079-40 and related adoptions.

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

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

## Comment Deadline: September 26, 2022

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

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

#### New Standard

BSR/AAMI ST108-202x, Water for the processing of medical devices (new standard)

This standard covers the selection and maintenance of effective water quality suitable for processing medical devices. It provides guidelines for selecting the water quality necessary for the processing of categories of medical devices and addresses water treatment equipment, water distribution and storage, quality control procedures for monitoring water quality, strategies for bacterial control, and environmental and personnel considerations.

Single copy price: Free

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Jody Allen, [jallen@aami.org](mailto:jallen@aami.org)

## Comment Deadline: September 26, 2022

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

901 N. Glebe Road, Suite 300, Arlington, VA 22203 | abenedict@aami.org, www.aami.org

#### **Reaffirmation**

BSR/AAMI ST79-2017 (R202x), Comprehensive guide to steam sterilization and sterility assurance in health care facilities & Amendment 1, Amendment 2, Amendment 3, Amendment 4 (reaffirmation of ANSI/AAMI ST79-2017, ANSI/AAMI ST79-2017/A.1-2020, ANSI/AAMI ST79-2017/A.2-2020, ANSI/AAMI ST79-2017/A.3-2020, ANSI/AAMI ST79-2017/A.4-2020)

This document includes guidance for sterile processing facility design, personnel, receiving, transporting, handling, cleaning, decontamination, preparation, packaging, steam sterilization of reusable medical devices, quality process improvement, and new product evaluation.

Single copy price: \$378.00 (AAMI members)/\$433.00 (list)

Obtain an electronic copy from: <https://store.aami.org/s/store>

Order from: <https://store.aami.org/s/store>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Amanda Benedict; [abenedict@aami.org](mailto:abenedict@aami.org)

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

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

#### **Revision**

BSR/AHRI Standard 210/240-2023, Performance Rating of Unitary Air-conditioning and Air-source Heat Pump Equipment (revision of ANSI/AHRI Standard 210/240-2008 with Addenda 1 and 2-2011)

The purpose of this standard is to establish for Unitary Air-Conditioners and Air-Source Unitary Heat Pumps:

Definitions; classifications; test requirements; rating requirements; minimum data requirements for Published Ratings; operating requirements; marking and nameplate data; and conformance conditions.

Single copy price: Free

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [AHRI\\_Standards@ahrinet.org](mailto:AHRI_Standards@ahrinet.org)

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

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

#### **Revision**

BSR/AHRI Standard 210/240-2023, Performance Rating of Unitary Air-conditioning and Air-source Heat Pump Equipment (revision of ANSI/AHRI Standard 210/240-2008 with Addenda 1 and 2-2011)

The purpose of this standard is to establish for Unitary Air-Conditioners and Air-Source Unitary Heat Pumps:

Definitions; classifications; test requirements; rating requirements; minimum data requirements for Published Ratings; operating requirements; marking and nameplate data; and conformance conditions.

Single copy price: Free

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [AHRI\\_Standards@ahrinet.org](mailto:AHRI_Standards@ahrinet.org)

## Comment Deadline: September 26, 2022

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

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

#### **Addenda**

BSR/ASHRAE/IES Addendum c to BSR/ASHRAE/IES Standard 100-202x, Energy Efficiency in Existing Buildings (addenda to ANSI/ASHRAE/IES Standard 100-2018)

This proposed addendum moves Standard 100 from a basis of CBECS 2003/RECS 2005 to an updated basis on CBECS 2012/RECS 2015. As a result, EUI target values and many values in supporting tables throughout the standard have changed.

Single copy price: \$35.00

Obtain an electronic copy from: <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

Order from: standards.section@ashrae.org

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

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

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

#### **Revision**

BSR/ASSP A10.32-202X, Personal Fall Protection Used in Construction and Demolition Operations (revision and redesignation of ANSI/ASSE A10.32-2012)

This standard establishes performance criteria for personal fall protection equipment and systems in construction and demolition and provides guidelines, recommendations for their use and inspection. It includes, but is not limited to, fall arrest, restraint, positioning, climbing, descending, rescue, escape, and training activities.

Single copy price: \$110.00

Obtain an electronic copy from: Tim Fisher at TFisher@ASSP.Org

Order from: Tim Fisher; tfisher@assp.org

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

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

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | jrosario@aws.org, www.aws.org

#### **New Standard**

BSR/AWS B2.1-1-210-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root of Carbon Steel (M-1/P-1, Group 1 or 2), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, INMs-1, and ER70S-2, As-Welded or PWHT Condition, Primarily Pipe Applications (new standard)

This standard contains the essential welding variables for carbon steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using manual gas tungsten arc welding with consumable insert root. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove welds. This SWPS was developed primarily for pipe applications.

Single copy price: \$136.00

Obtain an electronic copy from: jrosario@aws.org

Order from: Jennifer Rosario; jrosario@aws.org

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

## Comment Deadline: September 26, 2022

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

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

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

BSR/AWS B2.1-1-211-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root followed by Shielded Metal Arc Welding of Carbon Steel (M-1/P-1, Group 1 or 2), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, INMs-1, ER70S-2, and E7018, As-Welded or PWHT Condition, Primarily Pipe Applications (new standard)

This standard contains the essential welding variables for carbon steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using manual gas tungsten arc welding with consumable insert root, followed by shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove welds. This SWPS was developed primarily for pipe applications.

Single copy price: \$136.00

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

Order from: Jennifer Rosario; [jrosario@aws.org](mailto:jrosario@aws.org)

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

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

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

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

BSR/AWS B2.1-8-024-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Austenitic Stainless Steel (M-8/P-8, Group 1), 1/16 inch [1.5 mm] through 1-1/2 inch [38 mm] Thick, ER3XX, As-Welded Condition Primarily Plate and Structural Applications (new standard)

This standard contains the essential welding variables for austenitic stainless steel in the thickness range of 1/16 inch [1.5 mm] through 1-1/2 inch [38 mm], using manual gas tungsten arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet and groove welds. This SWPS was developed primarily for plate and structural applications.

Single copy price: \$136.00

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

Order from: Jennifer Rosario; [jrosario@aws.org](mailto:jrosario@aws.org)

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

## Comment Deadline: September 26, 2022

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

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

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

BSR/AWS B2.1-8-025-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding followed by Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8, Group 1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, ER3XX and E3XX-XX, As-Welded Condition, Primarily Plate and Structural Applications (new standard)

This standard contains the essential welding variables for austenitic stainless steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using manual gas tungsten arc welding followed by shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet and groove welds. This SWPS was developed primarily for plate and structural applications.

Single copy price: \$136.00

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

Order from: Jennifer Rosario; [jrosario@aws.org](mailto:jrosario@aws.org)

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

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

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

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

BSR/AWS B2.1-8-212-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Austenitic Stainless Steel (M-8/P-8, Group 1), 1/16 inch [1.5 mm] through 1-1/2 inch [38 mm] Thick, ER3XX, As-Welded Condition, Primarily Pipe Applications (new standard)

This standard contains the essential welding variables for austenitic stainless steel in the thickness range of 1/16 inch [1.5 mm] through 1-1/2 inch [38 mm], using manual gas tungsten arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet and groove welds. This SWPS was developed primarily for pipe applications.

Single copy price: \$136.00

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

Order from: Jennifer Rosario; [jrosario@aws.org](mailto:jrosario@aws.org)

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

## Comment Deadline: September 26, 2022

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

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

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

BSR/AWS B2.1-8-213-202x, Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8, Group 1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, E3XX-XX, As-Welded Condition, Primarily Pipe Applications (new standard)

This standard contains the essential welding variables for austenitic stainless steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using manual shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet and groove welds. This SWPS was developed primarily for pipe applications.

Single copy price: \$136.00

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

Order from: Jennifer Rosario; [jrosario@aws.org](mailto:jrosario@aws.org)

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

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

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

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

BSR/AWS B2.1-8-214-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding followed by Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8, Group 1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, ER3XX and E3XX-XX, As-Welded Condition, Primarily Pipe Applications (new standard)

This standard contains the essential welding variables for austenitic stainless steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using manual gas tungsten arc welding followed by shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet and groove welds. This SWPS was developed primarily for pipe applications.

Single copy price: \$136.00

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

Order from: Jennifer Rosario; [jrosario@aws.org](mailto:jrosario@aws.org)

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



## Comment Deadline: September 26, 2022

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

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

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

BSR/AWS B2.1-8-215-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root of Austenitic Stainless Steel (M-8/P-8, Group 1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, IN3XX and ER3XX, As-Welded Condition, Primarily Pipe Applications (new standard)

This standard contains the essential welding variables for austenitic stainless steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using manual gas tungsten arc welding with consumable insert root. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove welds. This SWPS was developed primarily for pipe applications.

Single copy price: \$136.00

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

Order from: Jennifer Rosario; [jrosario@aws.org](mailto:jrosario@aws.org)

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

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

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

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

BSR/AWS B2.1-8-216-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root followed by Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8, Group 1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, IN3XX, ER3XX, and E3XX-XX, As-Welded Condition, Primarily Pipe Applications (new standard)

This standard contains the essential welding variables for austenitic stainless steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using manual gas tungsten arc welding with consumable insert root followed by shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove welds. This SWPS was developed primarily for pipe applications.

Single copy price: \$136.00

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

Order from: Jennifer Rosario; [jrosario@aws.org](mailto:jrosario@aws.org)

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

## Comment Deadline: September 26, 2022

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

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

#### **Revision**

BSR/AWS B2.4-202x, Specification for Welding Procedure and Performance Qualification for Thermoplastics (revision of ANSI/AWS B2.4-2020-AMD1)

This specification provides the requirements for qualification of welding procedure specifications and welders for manual, semi-automatic, mechanized, and automatic welding. The welding processes included are electrofusion, hot gas, socket fusion, butt contact fusion, infrared, extrusion welding, flow fusion welding, and solvent cement welding. Base materials, filler materials, qualification variables, and testing requirements are also included.

Single copy price: \$37.00

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

Order from: Stephen Hedrick; [steveh@aws.org](mailto:steveh@aws.org)

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

### **AWWA (American Water Works Association)**

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

#### **Revision**

BSR/AWWA C208-202x, Dimensions for Fabricated Steel Water Pipe Fittings (revision of ANSI/AWWA C208-2017)

This standard provides formulas to calculate overall dimensions of fittings for steel water transmission and distribution facilities.

Single copy price: Free

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

Order from: Vicki David; [vdavid@awwa.org](mailto:vdavid@awwa.org)

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

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

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

#### **Reaffirmation**

BSR/HL7 V3 HQMF, R1-2017 (R202x), HL7 Version 3 Standard: Representation of the Health Quality Measures Format (eMeasure), Release 1 (reaffirmation of ANSI/HL7 V3 HQMF, R1-2017)

Health Quality Measures Format (HQMF) formally defines a quality measure (data elements, logic, definitions, etc.) to support consistent and unambiguous interpretation. Quality measures encoded in the HQMF format are referred to as "eMeasures". Quality measure developers can encode their measures in this format so that they can be consumed by provider organizations, who will then be able to use the formal definitions to, for instance, query their EHR data stores.

Single copy price: Free to members and non-members

Obtain an electronic copy from: [Karenvan@HL7.org](mailto:Karenvan@HL7.org)

Order from: Karen Van Hentenryck; [Karenvan@HL7.org](mailto:Karenvan@HL7.org)

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

## Comment Deadline: September 26, 2022

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

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

#### **Revision**

BSR/ASSE 1087-202x, Performance Requirements for Commercial and Food Service Water Treatment Equipment Utilizing Drinking Water (revision of ANSI/ASSE 1087-2018)

Commercial water treatment equipment is used in point-of-entry (POE) and point-of-use (POU) applications connected to building plumbing to improve the water quality characteristics of potable water. This standard includes testing requirements for components and complete systems. Electrical compliance is not covered by the standard

Single copy price: Free

Obtain an electronic copy from: standards@iapmostandards.org

Order from: standards@iapmostandards.org

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

### **NEMA (ASC C50) (National Electrical Manufacturers Association)**

1300 North 17th Street, Suite 900, Rosslyn, VA 22209 | David.Richmond@nema.org, www.nema.org

#### **National Adoption**

BSR NEMA 61800-9-1-202x, Adjustable Speed Drives Electrical Power Drive Systems - Part 1: General Requirements - Rating Specifications for Low Voltage Adjustable Speed d.c. Power Drive Systems (identical national adoption of IEC 61800-9-1-2017 Ed. 1)

It enables product committees for driven equipment connected to motor systems (so-called extended products) to interface with the relative power losses of the connected motor system (e.g., power drive system) in order to calculate the system energy efficiency for the whole application.

Single copy price: \$259.00

Obtain an electronic copy from: David.Richmond@nema.org

Order from: [https://webstore.ansi.org/Standards/IEC/IEC61800Ed2017-1651533?](https://webstore.ansi.org/Standards/IEC/IEC61800Ed2017-1651533?gclid=EAIaIQobChMIzbic2ePk9wIV4zizAB2_UQxSEAAYASAAEgIWb_D_BwE)

[gclid=EAIaIQobChMIzbic2ePk9wIV4zizAB2\\_UQxSEAAYASAAEgIWb\\_D\\_BwE](https://webstore.ansi.org/Standards/IEC/IEC61800Ed2017-1651533?gclid=EAIaIQobChMIzbic2ePk9wIV4zizAB2_UQxSEAAYASAAEgIWb_D_BwE)

Send comments (copy psa@ansi.org) to: david.richmond@nema.org

## Comment Deadline: September 26, 2022

### NFPA (National Fire Protection Association)

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

#### NFPA FIRE PROTECTION STANDARDS DOCUMENTATION

*The National Fire Protection Association announces the availability of the NFPA Second Draft Report for concurrent review and comment by NFPA and ANSI. These Second Draft Reports contain the disposition of public comment(s) that were received for standards in the ERRS Group 2 (Fall 2022) Revision Cycle (available for review on the next edition tab for each standard). All Notices of Intent to Make A Motion on the ERRS Group 2 (Fall 2022) Revision Cycle Second Draft Report must be received by the following date: **September 9, 2022**.*

*For more information on the rules and deadlines for NFPA standards in cycle, please check the NFPA website ([www.nfpa.org](http://www.nfpa.org)) or contact Standards Administration at NFPA. Those who submit comments to NFPA's online submission system on the ERRS Group 2 (Fall 2022) Revision Cycle Standards are invited to copy ANSI's Board of Standards Review.*

#### Revision

BSR/NFPA 440-202x, Guide for Aircraft Rescue and Firefighting Operations and Airport/Community Emergency Planning (revision, redesignation and consolidation of ANSI/NFPA 402-2019, ANSI/NFPA 424-2017)

This guide provides information relative to aircraft rescue and firefighting operations and procedures for airport and structural fire departments and describes the elements of an airport/community emergency plan that require consideration before during and after an emergency has occurred. Throughout this document, the airport/community emergency plan will be referred to as the "AEP."

Obtain an electronic copy from: [www.nfpa.org/440Next](http://www.nfpa.org/440Next)

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

### NFPA (National Fire Protection Association)

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

#### Revision

BSR/NFPA 460-202x, Standard for Aircraft Rescue and Firefighting Services at Airports, Recurring Proficiency of Airport Fire Fighters, and Evaluating Aircraft Rescue and Firefighting Foam Equipment (revision, redesignation and consolidation of ANSI/NFPA 403-2018, ANSI/NFPA 405-2020, ANSI/NFPA 412-2020)

This standard contains the minimum requirements for aircraft rescue and firefighting (ARFF) services at airports, the required performance criteria by which an authority having jurisdiction over aircraft rescue and firefighting (ARFF) maintains proficiency and effective ARFF at airports and establishes test procedures for evaluating the foam firefighting equipment installed on aircraft rescue and firefighting vehicles designed in accordance with NFPA 414.

Obtain an electronic copy from: [www.nfpa.org/460Next](http://www.nfpa.org/460Next)

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

### NFPA (National Fire Protection Association)

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

#### Revision

BSR/NFPA 610-202x, Guide for Emergency and Safety Operations at Motorsports Venues (revision of ANSI/NFPA 610-2018)

This guide addresses planning, training, personnel, equipment, and facilities as they relate to emergency and safety operations at motorsports venues.

Obtain an electronic copy from: [www.nfpa.org/610Next](http://www.nfpa.org/610Next)

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

## Comment Deadline: September 26, 2022

### **NFPA (National Fire Protection Association)**

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

#### **Revision**

BSR/NFPA 1026-202x, Standard for Incident Management Personnel Professional Qualifications (revision of ANSI/NFPA 1026-2018)

This standard identifies the minimum job performance requirements (JPRs) for personnel performing roles within an all-hazard incident management system.

Obtain an electronic copy from: [www.nfpa.org/1026Next](http://www.nfpa.org/1026Next)

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

### **NFPA (National Fire Protection Association)**

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

#### **Revision**

BSR/NFPA 1030-202x, Standard for Professional Qualifications for Fire Prevention Program Positions (revision, redesignation and consolidation of ANSI/NFPA 1031-2014, ANSI/NFPA 1035-2015, ANSI/NFPA 1037-2016)

This standard provides minimum requirements for professional qualifications for fire prevention program positions.

Obtain an electronic copy from: [www.nfpa.org/1030Next](http://www.nfpa.org/1030Next)

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

### **NFPA (National Fire Protection Association)**

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

#### **Revision**

BSR/NFPA 1091-202x, Standard for Traffic Incident Management Personnel Professional Qualifications (revision of ANSI/NFPA 1091-2019)

This standard identifies the minimum job performance requirements (JPRs) for Traffic Control Incident Management Personnel.

Obtain an electronic copy from: [www.nfpa.org/1091Next](http://www.nfpa.org/1091Next)

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

### **NFPA (National Fire Protection Association)**

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

#### **Revision**

BSR/NFPA 1660-202x, Standard on Community Risk Assessment, Pre-Incident Planning, Mass Evacuation, Sheltering, and Re-entry Programs (revision, redesignation and consolidation of ANSI/NFPA 1600-2019, ANSI/NFPA 1616-2020, ANSI/NFPA 1620-2020)

This standard shall establish a common set of criteria for all-hazards disaster/crisis/disaster/emergency management and business continuity/continuity of operations programs (hereinafter referred to as "program"), for developing pre-incident plans for use by personnel responding to emergencies, and for the process of organizing, planning, implementing, and evaluating a program for mass evacuation, sheltering, and re-entry.

Obtain an electronic copy from: [www.nfpa.org/1660Next](http://www.nfpa.org/1660Next)

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

## Comment Deadline: September 26, 2022

### **NFPA (National Fire Protection Association)**

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

#### **Revision**

BSR/NFPA 1910-202x, Standard for Marine Firefighting Vessels and the Inspection, Maintenance, Testing, Refurbishing, and Retirement of In-Service Emergency Vehicles (revision, redesignation and consolidation of ANSI/NFPA 1912-2016, ANSI/NFPA 1925-2018, ANSI/NFPA 1071-2020, ANSI/NFPA 1911-2017)

This standard defines the minimum requirements for establishing an inspection, maintenance, refurbishment, retirement, and testing program for in-service emergency vehicles and marine firefighting vessels.

Obtain an electronic copy from: [www.nfpa.org/1910Next](http://www.nfpa.org/1910Next)

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

### **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 3-202x (i21r1), Commercial Warewashing Equipment (revision of ANSI/NSF 3-2021)

This Standard applies to commercial dishwashing; glasswashing; and pot, pan, and utensil washing machines that wash their contents by applying sprays of detergent solutions with or without blasting media granules, and sanitize their contents by applying sprays of hot water or chemical sanitizing solutions. Stationary rack and conveyor machines are covered under this Standard.

Single copy price: Free

Obtain an electronic copy from: [https://standards.nsf.org/apps/group\\_public/download.php/64992/3i21r1%20&%20170i33r1%20Bottle%20Washing%20-%20JC%20Memo%20and%20Ballot.pdf](https://standards.nsf.org/apps/group_public/download.php/64992/3i21r1%20&%20170i33r1%20Bottle%20Washing%20-%20JC%20Memo%20and%20Ballot.pdf)

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

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

140 Philips Rd, Exton, PA 19341 | [kcooney@scte.org](mailto:kcooney@scte.org), [www.scte.org](http://www.scte.org)

#### **New Standard**

BSR/SCTE 279-202x, 1.8 GHz Broadband Radio Frequency Hardline Amplifiers for Cable Systems (new standard)

This document recommends mechanical, environmental, and electrical standards for broadband radio frequency (RF) amplifiers that support DOCSIS® 4.0 frequency division duplex (FDD) capabilities, with downstream operation at frequencies up to 1794 MHz and upstream operation at frequencies up to 684 MHz.

Single copy price: \$50.00

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

Order from: Global Engineering Documents

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

## Comment Deadline: September 26, 2022

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

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

#### **Revision**

BSR/SCTE 165-16-202x, IPCablecom 1.5 Part 16: Management Event Mechanism (revision of ANSI/SCTE 165-16-2016)

This specification is one of two documents that together define a framework for reporting Management Events in the Packet Cable architecture.

Single copy price: \$50.00

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

Order from: Global Engineering Documents

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

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

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

#### **Reaffirmation**

BSR/UL 2021-2021 (R202x), Standard for Safety for Type L Low-Temperature Venting Systems (reaffirmation of ANSI/UL 2021-2021)

1.1 These requirements cover factory-built vent piping and fittings constructed to provide venting systems for use with gas and liquid fuel-burning appliances that exhaust low-temperature flue gases and that are approved for use with Type L venting systems. 1.2 The Type L low-temperature venting systems covered by these requirements are intended for installation in accordance with the National Fire Protection Association Standard for Chimneys, Fireplaces, Vents, and Solid-Fuel Burning Appliances, NFPA 211; the International Mechanical Code; and the Uniform Mechanical Code. 1.3 A product that contains features, characteristics, components, materials, or systems new or different from those covered by the requirements in this standard, and that involves a risk of fire or of electric shock or injury to persons shall be evaluated using appropriate additional component and end-product requirements to maintain the level of safety as originally anticipated by the intent of this standard. A product whose features, characteristics, components, materials, or systems conflict with specific requirements or provisions of this standard does not comply with this standard. Revision of requirements shall be proposed and adopted in conformance with the methods employed for development, revision, and implementation of this standard.

Single copy price: Free

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

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Isabella Brodzinski, [isabella.brodzinski@ul.org](mailto:isabella.brodzinski@ul.org)

## Comment Deadline: September 26, 2022

### ULSE (UL Standards & Engagement)

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

#### Reaffirmation

BSR/UL 2021-2021 (R202x), Standard for Safety for 1400 Degree Fahrenheit Factory-Built Chimneys (reaffirmation of ANSI/UL 2021-2021)

1.1 These requirements cover factory-built 1400-degree-Fahrenheit chimneys intended for venting gas, liquid, and solid-fuel-fired appliances in which the maximum continuous flue-gas temperatures do not exceed 1400 °F (760 °C). 1.2 Factory-built chimneys are intended for installation in accordance with the Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances, NFPA 211, and in accordance with codes such as the International Mechanical Code, and the Uniform Mechanical Code.

Single copy price: Free

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

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Isabella Brodzinski, [isabella.brodzinski@ul.org](mailto:isabella.brodzinski@ul.org)

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 20-202x, Standard for Safety for General-Use Snap Switches (revision of ANSI/UL 20-2021)  
Ballot of the following topics: (1) Field Replacement Actuator; (2) Revised Marking for Products with USB-Type Outlets; (3) Tungsten-Filament-Lamp Load Characteristics - 30 Ampere AC Switches; (4) Spring Action Clamp Terminal; (5) Separable Terminal Assembly Construction.

Single copy price: Free

Obtain an electronic copy from: [www.csds.ul.com](http://www.csds.ul.com)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [www.csds.ul.com](http://www.csds.ul.com)

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 4248-6-202X, Standard for Fuseholders - Part 6: Class H (revision of ANSI/UL 4248-6-2007 (R2018))  
(1) Proposed second edition of the Standard for Fuseholders - Part 6: Class H, UL 4248-6.

Single copy price: Free

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

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>



## Comment Deadline: September 26, 2022

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 4248-8-202X, Standard for Fuseholders - Part 8: Class J (revision of ANSI/UL 4248-8-2018)

(1) Proposed third edition of the Standard for Fuseholders - Part 8: Class J, UL 4248-8.

Single copy price: Free

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

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>

### VC (ASC Z80) (The Vision Council)

225 Reinekers Lane, Suite 700, Alexandria, VA 22314 | [ascz80@thevisioncouncil.org](mailto:ascz80@thevisioncouncil.org), [www.z80asc.com](http://www.z80asc.com)

#### Revision

BSR Z80.31-202x, Ophthalmic Optics - Specifications for Ready-to-Wear Near-Vision Spectacles (revision of ANSI Z80.31-2017)

This standard specifies minimum requirements for complete ready-to-wear near-vision spectacles with positive power available directly to the public without the prescription of a licensed professional. This includes readers with segments and power-variation readers, as well as readers with tints and plano power portions.

Single copy price: \$55.00

Obtain an electronic copy from: <https://www.z80asc.com/> or via email: [ascz80@thevisioncouncil.org](mailto:ascz80@thevisioncouncil.org)

Order from: <https://www.z80asc.com/> or via email: [ascz80@thevisioncouncil.org](mailto:ascz80@thevisioncouncil.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: <https://www.z80asc.com/> or via email: [ascz80@thevisioncouncil.org](mailto:ascz80@thevisioncouncil.org)

## Comment Deadline: October 11, 2022

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 2900-2-1-202x, Standard for Safety for Software Cybersecurity for Network-Connectable Products - Part 2-1: Particular Requirements for Network Connectable Components of Healthcare and Wellness Systems (revision of ANSI/UL 2900-2-1-2020)

This proposal for UL 2900-2-1 covers:

(1) Addition of inclusive language; (2) Updated note about Threat Modeling in 12.1.1.

Single copy price: Free

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

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).

### ASQ (ASC Z1) (American Society for Quality)

600 N Plankinton Avenue, Milwaukee, WI 53201 | espaulding@asq.org, www.asq.org

#### *New Technical Report*

ASQ TR4:2022, Guidelines for application of quality management system model in healthcare organizations (technical report)

A quality management system (QMS), regardless of its industry or focus, should achieve the following major objectives: validate reliable processes, decrease variation, defects and waste, identify and maintain key process indicators based on the core requirements of all major stakeholders, focus on achieving better results, and use evidence to verify that a service is satisfactory and meets all regulatory standards.

Single copy price: \$80.00

Order from: standards@asq.org

## Project Withdrawn

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

### TIA (Telecommunications Industry Association)

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

BSR/TIA 102.AABF-C-2-202x, Link Control Word Formats and Messages - Addendum 2 (addenda to ANSI/TIA 102.AABF-C-2011)

Inquiries may be directed to Teesha Jenkins; standards-process@tiaonline.org

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

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

### TIA (Telecommunications Industry Association)

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

ANSI/TIA 102.AABF-D-2015, Project 25 Link Control Word Formats and Messages

Direct inquiries to: Teesha Jenkins; standards-process@tiaonline.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.

---

## **AISC (American Institute of Steel Construction)**

130 E Randolph Street, Suite 2000, Chicago, IL 60601-6204 | [duncan@aisc.org](mailto:duncan@aisc.org), [www.aisc.org](http://www.aisc.org)

### ***New Standard***

ANSI/AISC 342-2022, Seismic Provisions for the Evaluation and Retrofit of Existing Structural Steel Buildings (new standard) Final Action Date: 8/1/2022

### ***Revision***

ANSI/AISC 360-2022, Specification for Structural Steel Buildings (revision of ANSI/AISC 360-2016) Final Action Date: 8/1/2022

## **APTech (ASC B65) (Association for Print Technologies)**

113 Seaboard Lane, Suite C250, Franklin, TN 37067 | [dorf@aptech.org](mailto:dorf@aptech.org), [www.printtechnologies.org](http://www.printtechnologies.org)

### ***Reaffirmation***

ANSI B65-5-2011 (R2022), Graphic technology - Safety requirements for graphic technology equipment and systems - Part 5: Stand-alone platen presses (reaffirm a national adoption ANSI B65-5-2011) Final Action Date: 8/3/2022

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

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

### ***Revision***

ANSI/ASME OM-2022, Operation and Maintenance of Nuclear Power Plants (revision of ANSI/ASME OM-2020) Final Action Date: 8/2/2022

## **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)

### ***National Adoption***

ANSI/ASSP/ISO 31073-2022, Risk Management - Vocabulary (identical national adoption of ISO 31073-2022 and revision of ANSI/ASSE Z690.1-2011) Final Action Date: 8/4/2022

## **ASTM (ASTM International)**

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

### ***Reaffirmation***

ANSI/ASTM F765-1993 (R2022), Specification for Wildcats, Ship Anchor Chain (reaffirmation of ANSI/ASTM F765-1993 (R2017)) Final Action Date: 7/19/2022

### ***Reaffirmation***

ANSI/ASTM F885-1984 (R2022), Specification for Envelope Dimensions for Bronze Globe Valves NPS 14 to 2 (reaffirmation of ANSI/ASTM F885-1984 (R2017)) Final Action Date: 7/19/2022

### ***Reaffirmation***

ANSI/ASTM F992-2017 (R2022), Specification for Valve Label Plates (reaffirmation of ANSI/ASTM F992-2017) Final Action Date: 7/19/2022

**ASTM (ASTM International)**

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

**Reaffirmation**

ANSI/ASTM F1455-1992 (R2022), Guide for Selection of Structural Details for Ship Construction (reaffirmation of ANSI/ASTM F1455-1992 (R2017)) Final Action Date: 7/19/2022

**Reaffirmation**

ANSI/ASTM F1965-2017 (R2022), Test Method for Performance of Deck Ovens (reaffirmation of ANSI/ASTM F1965-2017) Final Action Date: 7/19/2022

**Reaffirmation**

ANSI/ASTM F2474-2017 (R2022), Test Method for Heat Gain to Space Performance of Commercial Kitchen Ventilation/Appliance Systems (reaffirmation of ANSI/ASTM F2474-2017) Final Action Date: 7/19/2022

**Reaffirmation**

ANSI/ASTM F3257-2017 (R2022), Guide for Design, Construction, and Operation of Vessels Providing Accommodation Service to Offshore Installations (reaffirmation of ANSI/ASTM F3257-2017) Final Action Date: 7/19/2022

**Revision**

ANSI/ASTM D2235-2022, Specification for Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings (revision of ANSI/ASTM D2235-2021) Final Action Date: 7/19/2022

**Revision**

ANSI/ASTM D3485-2022, Specification for Coilable High Density Polyethylene (HDPE) Cable in Conduit (CIC) (revision of ANSI/ASTM D3485-2017) Final Action Date: 7/19/2022

**Revision**

ANSI/ASTM E1354-2022b, Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter (revision of ANSI/ASTM E1354-2022a) Final Action Date: 8/1/2022

**Revision**

ANSI/ASTM F718-2022, Specification for Shipbuilders and Marine Paints and Coatings Product/Procedure Data Sheet (revision of ANSI/ASTM F718-2007 (R2017)) Final Action Date: 7/19/2022

**Revision**

ANSI/ASTM F877-2022, Specification for Crosslinked Polyethylene (PEX) Hot- and Cold-Water Distribution Systems (revision of ANSI/ASTM F877-2020) Final Action Date: 7/19/2022

**Revision**

ANSI/ASTM F1331-2022, Practice for Installation Procedures of Vinyl Deck Coverings on Portable Plates in Electrical and Electronic Spaces (revision of ANSI/ASTM F1331-1997 (R2017)) Final Action Date: 7/19/2022

**Revision**

ANSI/ASTM F1499-2022, Specification for Coextruded Composite Drain, Waste, and Vent Pipe (DWV) (revision of ANSI/ASTM F1499-2017) Final Action Date: 7/19/2022

**Revision**

ANSI/ASTM F1901-2022, Specification for Polyethylene (PE) Pipe and Fittings for Roof Drain Systems (revision of ANSI/ASTM F1901-2016) Final Action Date: 7/19/2022

**ASTM (ASTM International)**

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

**Revision**

ANSI/ASTM F3347-2022, Specification for Metal Press Insert Fittings with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing (revision of ANSI/ASTM F3347-2021) Final Action Date: 7/19/2022

**Revision**

ANSI/ASTM F3348-2022, Specification for Plastic Press Insert Fittings with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing (revision of ANSI/ASTM F3348-2021A) Final Action Date: 7/19/2022

**HL7 (Health Level Seven)**

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

**Reaffirmation**

ANSI/HL7 IMTRANS, R2-2016 (R2022), HL7 Version 3 Standard: Transmission Infrastructure, Release 2 (reaffirmation of ANSI/HL7 IMTRANS, R2-2016) Final Action Date: 8/2/2022

**Reaffirmation**

ANSI/HL7 V3 DAM DIETORD, R2-2017 (R2022), HL7 Version 3 Domain Analysis Model: Diet and Nutrition Orders, Release 2 (reaffirmation of ANSI/HL7 V3 DAM DIETORD, R2-2017) Final Action Date: 8/2/2022

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

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

**Revision**

ANSI/IEEE C37.66-2022, Standard Requirements for Capacitor Switches for AC Systems (1 kV to 38 kV) (revision of ANSI/IEEE C37.66-2005) Final Action Date: 8/3/2022

**LIA (ASC Z136) (Laser Institute of America)**

12001 Research Parkway, Suite 210, Orlando, FL 32828 | [lcaldero@lia.org](mailto:lcaldero@lia.org), [www.laserinstitute.org](http://www.laserinstitute.org)

**Revision**

ANSI Z136.1-2022, Standard for Safe Use of Lasers (revision of ANSI Z136.1-2014) Final Action Date: 8/3/2022

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

140 Philips Rd, Exton, PA 19341 | [kcooney@scte.org](mailto:kcooney@scte.org), [www.scte.org](http://www.scte.org)

**New Standard**

ANSI/SCTE 278-2022, Standard Data Fields for Outside Plant Power (new standard) Final Action Date: 8/1/2022

**ULSE (UL Standards & Engagement)**

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

**Reaffirmation**

ANSI/UL 1676-2013 (R2022), Conductive-Path and Discharge-Path Resistors for Use in Radio-, Video-, or Television-Type Appliances (reaffirmation of ANSI/UL 1676-2013) Final Action Date: 8/1/2022

**Revision**

ANSI/UL 1066-2022, Standard for Safety for Power Circuit Breakers up to 1000 V AC and 1500 V DC Used in Enclosures (revision of ANSI/UL 1066-2017) Final Action Date: 8/1/2022

# Call for Members (ANS Consensus Bodies)

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

---

## 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).

# Call for Members (ANS Consensus Bodies)

---

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

901 N. Glebe Road, Suite 300, Arlington, VA 22203 | abenedict@aami.org, www.aami.org

BSR/AAMI ST79-2017 (R202x), Comprehensive guide to steam sterilization and sterility assurance in health care facilities & Amendment 1, Amendment 2, Amendment 3, Amendment 4 (reaffirmation of ANSI/AAMI ST79-2017, ANSI/AAMI ST79-2017/A.1-2020, ANSI/AAMI ST79-2017/A.2-2020, ANSI/AAMI ST79-2017/A.3-2020, ANSI/AAMI ST79-2017/A.4-2020)

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

901 N. Glebe Road, Suite 300, Arlington, VA 22203 | jallen@aami.org, www.aami.org

BSR/AAMI ST108-202x, Water for the processing of medical devices (new standard)

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

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

BSR/AHRI Standard 375-202x (SI/I-P), Application of Sound Rating Levels of Large Air-cooled Outdoor Refrigerating and Air-conditioning Equipment (new standard)

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

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

BSR/AHRI Standard 210/240-2023, Performance Rating of Unitary Air-conditioning and Air-source Heat Pump Equipment (revision of ANSI/AHRI Standard 210/240-2008 with Addenda 1 and 2-2011)

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

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

BSR/AHRI Standard 210/240-2023, Performance Rating of Unitary Air-conditioning and Air-source Heat Pump Equipment (revision of ANSI/AHRI Standard 210/240-2008 with Addenda 1 and 2-2011)

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

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

BSR/ASSP A10.32-202X, Personal Fall Protection Used in Construction and Demolition Operations (revision and redesignation of ANSI/ASSE A10.32-2012)

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

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

BSR/ASSP/ISO 45006-202X, Occupational health and safety management - Preventing and managing infectious diseases - General guidelines for organizations (identical national adoption of Proposed ISO 45006-202X)

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

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | jrosario@aws.org, www.aws.org

BSR/AWS B2.1-1-210-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root of Carbon Steel (M-1/P-1, Group 1 or 2), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, INMs-1, and ER70S-2, As-Welded or PWHT Condition, Primarily Pipe Applications (new standard)

# Call for Members (ANS Consensus Bodies)

---

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

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

BSR/AWS B2.1-1-211-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root followed by Shielded Metal Arc Welding of Carbon Steel (M-1/P-1, Group 1 or 2), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, INMs-1, ER70S-2, and E7018, As-Welded or PWHT Condition, Primarily Pipe Applications (new standard)

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

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

BSR/AWS B2.1-8-024-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Austenitic Stainless Steel (M-8/P-8, Group 1), 1/16 inch [1.5 mm] through 1-1/2 inch [38 mm] Thick, ER3XX, As-Welded Condition Primarily Plate and Structural Applications (new standard)

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

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

BSR/AWS B2.1-8-025-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding followed by Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8, Group 1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, ER3XX and E3XX-XX, As-Welded Condition, Primarily Plate and Structural Applications (new standard)

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

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

BSR/AWS B2.1-8-212-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Austenitic Stainless Steel (M-8/P-8, Group 1), 1/16 inch [1.5 mm] through 1-1/2 inch [38 mm] Thick, ER3XX, As-Welded Condition, Primarily Pipe Applications (new standard)

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

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

BSR/AWS B2.1-8-213-202x, Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8, Group 1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, E3XX-XX, As-Welded Condition, Primarily Pipe Applications (new standard)

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

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

BSR/AWS B2.1-8-214-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding followed by Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8, Group 1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, ER3XX and E3XX-XX, As-Welded Condition, Primarily Pipe Applications (new standard)



# Call for Members (ANS Consensus Bodies)

---

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

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

BSR/AWS B2.1-8-215-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root of Austenitic Stainless Steel (M-8/P-8, Group 1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, IN3XX and ER3XX, As-Welded Condition, Primarily Pipe Applications (new standard)

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

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

BSR/AWS B2.1-8-216-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root followed by Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8, Group 1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, IN3XX, ER3XX, and E3XX-XX, As-Welded Condition, Primarily Pipe Applications (new standard)

## **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 364-34-2012 (R202x), Ambient Condensation Test Procedure for Electrical Connectors and Sockets (reaffirmation of ANSI/EIA 364-34-2012 (R2017))

## **NENA (National Emergency Number Association)**

1700 Diagonal Road, Suite 500, Alexandria, VA 22314 | [darnold@nena.org](mailto:darnold@nena.org), [www.nena.org](http://www.nena.org)

BSR/NENA STA-005.2-202x, NENA Standards for the Provisioning and Maintenance of GIS data to ECRF and LVFs (new standard)

## **NSF (NSF International)**

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

BSR/NSF 3-202x (i21r1), Commercial Warewashing Equipment (revision of ANSI/NSF 3-2021)

## **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 170-202x (i33r1), Glossary of Food Equipment Terminology (revision of ANSI/NSF 170-2021)

## **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 350-202x (i74r1), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2020)

## **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 358-2-202x (i3r1), Polypropylene Pipe and Fittings for Water-Based Ground-Source Geothermal Heat Pump Systems (revision of ANSI/NSF 358-2-2017)

# Call for Members (ANS Consensus Bodies)

---

## **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 359-202x (i5r1), Valves for Cross-linked Polyethylene (PEX) Water Distribution Tubing Systems (revision of ANSI/NSF 359-2018)

## Accreditation Announcements (Standards Developers)

---

### Approval of Reaccreditation – ASD

#### **AWS - American Welding Society**

**Effective August 8, 2022**

The reaccreditation of **AWS - American Welding Society** has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on AWS-sponsored American National Standards, effective **August 8, 2022**. For additional information, please contact: Peter Portela, American Welding Society (AWS) | 8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | (800) 443-9353, pportela@aws.org

### Approval of Reaccreditation – ASD

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

**Effective August 9, 2022**

The reaccreditation of **IAPMO (ASSE Chapter) - ASSE International Chapter of IAPMO** has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on IAPMO (ASSE Chapter)-sponsored American National Standards, effective **August 9, 2022**. For additional information, please contact: Marianne Waickman, ASSE International Chapter of IAPMO (IAPMO (ASSE Chapter)) | 18927 Hickory Creek Drive, Suite 220, Mokena, IL 60448 | (708) 995-3015, marianne.waickman@asse-plumbing.org

## American National Standards (ANS) Process

---

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.standardslearn.org](http://www.standardslearn.org)

## American National Standards Under Continuous Maintenance

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

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

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

- 
- AAMI (Association for the Advancement of Medical Instrumentation)
  - AARST (American Association of Radon Scientists and Technologists)
  - AGA (American Gas Association)
  - AGSC (Auto Glass Safety Council)
  - ASC X9 (Accredited Standards Committee X9, Incorporated)
  - ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)
  - ASME (American Society of Mechanical Engineers)
  - ASTM (ASTM International)
  - GBI (Green Building Initiative)
  - HL7 (Health Level Seven)
  - Home Innovation (Home Innovation Research Labs)
  - IES (Illuminating Engineering Society)
  - ITI (InterNational Committee for Information Technology Standards)
  - MHI (Material Handling Industry)
  - NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)
  - NCPDP (National Council for Prescription Drug Programs)
  - NEMA (National Electrical Manufacturers Association)
  - 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

Association for the Advancement of  
Medical Instrumentation  
901 N. Glebe Road, Suite 300  
Arlington, VA 22203  
[www.aami.org](http://www.aami.org)

Amanda Benedict  
[abenedict@aami.org](mailto:abenedict@aami.org)

Jody Allen  
[jallen@aami.org](mailto:jallen@aami.org)

## AARST

American Association of Radon Scientists  
and Technologists  
527 N. Justice Street  
Hendersonville, NC 28739  
[www.aarst.org](http://www.aarst.org)

Gary Hodgden  
[StandardsAssist@gmail.com](mailto:StandardsAssist@gmail.com)

## AHRI

Air-Conditioning, Heating, and Refrigeration  
Institute  
2311 Wilson Boulevard, Suite 400  
Arlington, VA 22201  
[www.ahrinet.org](http://www.ahrinet.org)  
Karl Best  
[kbest@ahrinet.org](mailto:kbest@ahrinet.org)

## AISC

American Institute of Steel Construction  
130 E Randolph Street, Suite 2000  
Chicago, IL 60601  
[www.aisc.org](http://www.aisc.org)  
Cynthia Duncan  
[duncan@aisc.org](mailto:duncan@aisc.org)

## APTech (ASC CGATS)

Association for Print Technologies  
113 Seaboard Lane, Suite C250  
Franklin, TN 37067  
[www.printtechnologies.org](http://www.printtechnologies.org)  
Debra Orf  
[dorf@apttech.org](mailto:dorf@apttech.org)

## ASHRAE

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

Carmen King  
[cking@ashrae.org](mailto:cking@ashrae.org)

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

## ASME

American Society of Mechanical Engineers  
Two Park Avenue, M/S 6-2B  
New York, NY 10016  
[www.asme.org](http://www.asme.org)

Terrell Henry  
[ansibox@asme.org](mailto:ansibox@asme.org)

## ASQ (ASC Z1)

American Society for Quality  
600 N Plankinton Avenue  
Milwaukee, WI 53201  
[www.asq.org](http://www.asq.org)

Elizabeth Spaulding  
[espaulding@asq.org](mailto:espaulding@asq.org)

## ASSP (Safety)

American Society of Safety Professionals  
520 N. Northwest Highway  
Park Ridge, IL 60068  
[www.assp.org](http://www.assp.org)  
Lauren Bauerschmidt  
[LBauerschmidt@assp.org](mailto:LBauerschmidt@assp.org)

Tim Fisher  
[TFisher@ASSP.org](mailto:TFisher@ASSP.org)

## ASTM

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

Corice Leonard  
[accreditation@astm.org](mailto:accreditation@astm.org)

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

## AWS

American Welding Society  
8669 NW 36th Street, Suite 130  
Miami, FL 33166  
[www.aws.org](http://www.aws.org)

Jennifer Rosario  
[jrosario@aws.org](mailto:jrosario@aws.org)

Stephen Hedrick  
[steveh@aws.org](mailto:steveh@aws.org)

## AWWA

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

Paul Olson  
[polson@awwa.org](mailto:polson@awwa.org)

## CSA

CSA America Standards Inc.  
8501 East Pleasant Valley Road  
Cleveland, OH 44131  
[www.csagroup.org](http://www.csagroup.org)

Debbie Chesnik  
[ansi.contact@csagroup.org](mailto:ansi.contact@csagroup.org)

## ECIA

Electronic Components Industry  
Association  
13873 Park Center Road, Suite 315  
Herndon, VA 20171  
[www.ecianow.org](http://www.ecianow.org)

Laura Donohoe  
[ldonohoe@ecianow.org](mailto:ldonohoe@ecianow.org)

## HL7

Health Level Seven  
3300 Washtenaw Avenue, Suite 227  
Ann Arbor, MI 48104  
[www.hl7.org](http://www.hl7.org)

Karen Van Hentenryck  
[Karenvan@HL7.org](mailto:Karenvan@HL7.org)

## IAPMO (ASSE Chapter)

ASSE International Chapter of IAPMO  
18927 Hickory Creek Drive, Suite 220  
Mokena, IL 60448  
[www.asse-plumbing.org](http://www.asse-plumbing.org)

Terry Burger  
[terry.burger@asse-plumbing.org](mailto:terry.burger@asse-plumbing.org)

## IEEE

Institute of Electrical and Electronics  
Engineers  
445 Hoes Lane  
Piscataway, NJ 08854  
[www.ieee.org](http://www.ieee.org)

Karen Evangelista  
[k.evangelista@ieee.org](mailto:k.evangelista@ieee.org)

## ANSI-Accredited Standards Developers Contact Information

**LIA (ASC Z136)**

Laser Institute of America  
12001 Research Parkway, Suite 210  
Orlando, FL 32828  
www.laserinstitute.org

Liliana Caldero  
lcaldero@lia.org

**NEMA (ASC C50)**

National Electrical Manufacturers  
Association  
1300 North 17th Street, Suite 900  
Rosslyn, VA 22209  
www.nema.org

David Richmond  
David.Richmond@nema.org

**NENA**

National Emergency Number Association  
1700 Diagonal Road, Suite 500  
Alexandria, VA 22314  
www.nena.org

Delaine Arnold  
darnold@nena.org

**NFPA**

National Fire Protection Association  
One Batterymarch Park  
Quincy, MA 02269  
www.nfpa.org

Patrick Foley  
PFoley@nfpa.org

**NSF**

NSF International  
789 N. Dixboro Road  
Ann Arbor, MI 48105  
www.nsf.org

Allan Rose  
arose@nsf.org

Jason Snider  
jsnider@nsf.org

**RESNET**

Residential Energy Services Network, Inc.  
P.O. Box 4561  
Oceanside, CA 92052  
www.resnet.us.com

Richard Dixon  
rick.dixon@resnet.us

**SCTE**

Society of Cable Telecommunications  
Engineers  
140 Philips Rd  
Exton, PA 19341  
www.scte.org

Kim Cooney  
kcooney@scte.org

**ULSE**

UL Standards & Engagement  
12 Laboratory Drive  
Research Triangle Park, NC 27709  
https://ul.org/

Caroline Treuthardt  
caroline.treuthardt@ul.org

Doreen Stocker  
Doreen.Stocker@ul.org

Kelly Smoke  
kelly.smoke@ul.org

Patricia Sena  
patricia.a.sena@ul.org

Tony Partridge  
Tony.Partridge@ul.org

Vickie Hinton  
Vickie.T.Hinton@ul.org

**ULSE**

UL Standards & Engagement  
333 Pfingsten Road  
Northbrook, IL 60062  
https://ul.org/

Amy Walker  
Amy.K.Walker@ul.org

Isabella Brodzinski  
isabella.brodzinski@ul.org

Mitchell Gold  
mitchell.gold@ul.org

**ULSE**

UL Standards & Engagement  
47173 Benicia Street  
Fremont, CA 94538  
https://ul.org/

Derrick Martin  
Derrick.L.Martin@ul.org

Marcia Kawate  
Marcia.M.Kawate@ul.org

**VC (ASC Z80)**

The Vision Council  
225 Reinekers Lane, Suite 700  
Alexandria, VA 22314  
www.z80asc.com

Michele Stolberg  
ascz80@thevisioncouncil.org

# Meeting Notices (International)

---

## ANSI Accredited Standards Developer

### New INCITS Technical Committee on Brain-Computer Interfaces (BCI) – US TAG to JTC 1/SC 43 – Brain-Computer Interfaces

#### Organizational Meeting – August 29, 2022

Meeting Notice and Call for Members for the New INCITS Technical Committee on Brain-Computer Interfaces (BCI) – US TAG to JTC 1/SC 43 – Brain-Computer Interfaces

Organizational Meeting – August 29, 2022. The organizational meeting of INCITS/Brain-Computer Interfaces (BCI) will be held electronically via Zoom on August 29, 2022 (1:00 PM to 4:00 PM (Eastern) / 10:00 AM to 1:00 PM (Pacific)). The agenda, related documents and instructions for joining the Zoom meeting will be distributed by July 15 to organizational representatives that have requested membership on the new committee. RSVPs for the meeting should be submitted to Rachel Porter (rporter@itic.org) as soon as possible.

Background on Establishment of INCITS/Brain-Computer Interfaces – At the January 2022 INCITS Executive Board meeting, a new Technical Committee (TC), INCITS/Brain-Computer Interfaces (BCI), was established contingent upon approval of the establishment of JTC 1 Subcommittee 43 – Brain-Computer Interfaces. The TC will serve as the US TAG to JTC 1 Subcommittee 43 – Brain-Computer Interfaces:

Scope: Standardization in the area of Brain-computer Interfaces (BCI) for information technology to enable communication and interaction between brain and computers that are applicable across application areas.

- Serve as the focus and proponent for JTC 1's standardization programme on BCI, including the development of foundational standards.
- Provide guidance on Brain-computer Interfaces to JTC 1, IEC, ISO and other entities developing applications of BCI.

Excluded: standards for human implants and medical applications.

The committee will operate under the USNC-accredited procedures for the InterNational Committee for Information Technology Standards (INCITS) (see INCITS Organization, Policies and Procedures - Annex A, Policies and Procedures for USNC Technical Advisory Groups (TAGs) to ISO/IEC JTC 1. Additional information can also be found at <http://www.INCITS.org>, <http://www.incits.org/participation/membership-info> and <http://www.incits.org/participation/apply-for-membership>.

The complete meeting notice and membership information can be found at [https://standards.incits.org/apps/group\\_public/document.php?document\\_id=143629&wg\\_abbrev=eb](https://standards.incits.org/apps/group_public/document.php?document_id=143629&wg_abbrev=eb).



# 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 5109, Evaluation method for the resonance frequency of the multi-copter UA by measurement of rotor and body frequencies - 6/5/2022, \$46.00

ISO/FDIS 15388, Space systems - Contamination and cleanliness control - 11/4/2021, \$98.00

ISO/DIS 23665, Unmanned aircraft systems - Training for personnel involved in UAS operations - 10/22/2022, \$102.00

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

ISO/FDIS 10993-2, Biological evaluation of medical devices - Part 2: Animal welfare requirements - 12/15/2019, \$67.00

### Cleanrooms and associated controlled environments (TC 209)

ISO/DIS 14644-18, Cleanrooms and associated controlled environments - Part 18: Assessment of suitability of consumables - 10/24/2022, \$107.00

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

ISO/FDIS 3079, Two-electrode method using acetic acid to measure pitting potential of aluminium and aluminium alloys in chloride solutions - 9/13/2021, \$46.00

ISO/DIS 5668, Corrosion of metals and alloys - Guidelines for corrosion testing in simulated environment of deep-sea water - 10/22/2022, \$71.00

ISO/FDIS 23669, Corrosion of metals and alloys - Requirements for localised corrosion and environmentally assisted cracking testing of additively manufactured metals and alloys - 9/9/2021, \$40.00

### Environmental management (TC 207)

ISO/DIS 14066, Competence requirements for teams (including technical experts), and independent reviewers involved in the validation and verification of environmental information - 6/10/2022, \$98.00

### Fine Bubble Technology (TC 281)

ISO/DIS 20304-2, Fine bubble technology - Water treatment applications - Part 2: Test methods using a test micro-organism: *Escherichia coli* - 10/23/2022, \$82.00

### Fine ceramics (TC 206)

ISO/FDIS 20504, Fine ceramics (advanced ceramics, advanced technical ceramics) - Mechanical properties of ceramic composites at room temperature - Determination of compressive properties -, \$71.00

### Fluid power systems (TC 131)

ISO/DIS 20145, Pneumatic fluid power - Test methods for measuring acoustic emission pressure levels of exhaust silencers - 6/9/2022, \$102.00

### Gears (TC 60)

ISO/DIS 10300-1, Calculation of load capacity of bevel gears - Part 1: Introduction and general influence factors - 6/9/2022, \$125.00

ISO/DIS 10300-2, Calculation of load capacity of bevel gears - Part 2: Calculation of surface durability (pitting) - 6/6/2022, \$107.00

ISO/DIS 10300-3, Calculation of load capacity of bevel gears - Part 3: Calculation of tooth root strength - 6/9/2022, \$112.00

**Geotechnics (TC 182)**

ISO/FDIS 24057, Geotechnics - Array measurement of microtremors to estimate shear wave velocity profile - 10/1/2021, \$107.00

**Health Informatics (TC 215)**

ISO/DIS 22077-3, Health informatics - Medical waveform format - Part 3: Long term electrocardiography - 10/22/2022, \$93.00

**Information and documentation (TC 46)**

ISO/DIS 11798, Information and documentation - Permanence and durability of writing, printing and copying on paper - Requirements and test methods - 6/5/2022, \$82.00

**Lifts, escalators, passenger conveyors (TC 178)**

ISO/DIS 25745-1.2, Energy performance of lifts, escalators and moving walks - Part 1: Energy measurement and verification - 8/13/2022, \$67.00

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

ISO/DIS 19901-3, Petroleum and natural gas industries - Specific requirements for offshore structures - Part 3: Topsides structure - 6/4/2022, \$175.00

**Measurement of fluid flow in closed conduits (TC 30)**

ISO/DIS 24460, Measurement of fluid flow rate in closed conduits - Radioactive Tracer Methods - 10/23/2022, \$102.00

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

ISO/FDIS 4530, Vitreous and porcelain enamelled manufactured articles - Determination of resistance to heat - 10/29/2021, \$33.00

ISO/FDIS 6769, Vitreous and porcelain enamels - Determination of surface scratch hardness according to the Mohs scale - 11/21/2021, \$29.00

**Microbeam analysis (TC 202)**

ISO/DIS 14595, Microbeam analysis - Electron probe microanalysis - Guidelines for the specification of certified reference materials (CRMs) - 10/27/2022, \$67.00

**Optics and optical instruments (TC 172)**

ISO/DIS 10109, Optics and photonics - Guidance for the selection of environmental tests - 6/6/2022, \$82.00

ISO/DIS 9022-23, Optics and photonics - Environmental test methods - Part 23: Low pressure combined with cold, ambient temperature and dry or damp heat - 6/4/2022, \$62.00

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

ISO/FDIS 16976-1, Respiratory protective devices - Human factors - Part 1: Metabolic rates and respiratory flow rates - 6/20/2021, \$71.00

ISO/FDIS 16976-3, Respiratory protective devices - Human factors - Part 3: Physiological responses and limitations of oxygen and limitations of carbon dioxide in the breathing environment - 6/20/2021, \$82.00

**Petroleum products and lubricants (TC 28)**

ISO/FDIS 7278-2, Petroleum measurement systems - Part 2: Pipe prover design, calibration and operation - 9/19/2021, \$165.00

**Photography (TC 42)**

ISO/DIS 18946, Imaging materials - Reflection colour photographic prints - Method for testing humidity fastness - 6/4/2022, \$62.00

**Pigments, dyestuffs and extenders (TC 256)**

ISO/DIS 3262-4, Extenders - Specifications and methods of test - Part 4: Whiting - 10/23/2022, \$40.00

ISO/DIS 3262-5, Extenders - Specifications and methods of test - Part 5: Natural crystalline calcium carbonate - 10/23/2022, \$40.00

**Plastics (TC 61)**

ISO/DIS 14126, Fibre-reinforced plastic composites - Determination of compressive properties in the in-plane direction - 10/22/2022, \$98.00

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

ISO/DTS FDIS 24399, Thermoplastic pipes for the conveyance of fluids - Inspection of polyethylene butt fusion joints using time of flight diffraction testing -, \$82.00

**Rare earth (TC 298)**

ISO/DIS 23596, Rare earth - Determination of rare earth content in individual rare earth metal and their compounds - Gravimetric method - 10/23/2022, \$58.00

**Road vehicles (TC 22)**

ISO 13400-2:2019/DAMd 1, - Amendment 1: Road vehicles - Diagnostic communication over Internet Protocol (DoIP) - Part 2: Transport protocol and network layer services - Amendment 1 - 10/24/2022, \$58.00

ISO/DIS 11992-4, Road vehicles - Interchange of digital information on electrical connections between towing and towed vehicles - Part 4: Diagnostic communication - 6/5/2022, \$98.00

ISO/DIS 20766-5, Road vehicles - Liquefied petroleum gas (LPG) fuel system components - Part 5: Fuel selection system and electrical installations - 6/4/2022, \$33.00

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

ISO/DIS 9924-1, Rubber and rubber products - Determination of the composition of vulcanizates and uncured compounds by thermogravimetry - Part 1: Butadiene, ethylene-propylene copolymer and terpolymer, isobutene-isoprene, isoprene and styrene-butadiene rubbers - 6/3/2022, \$53.00

### **Screw threads (TC 1)**

ISO/DIS 262, ISO general purpose metric screw threads - Selected sizes for screws, bolts and nuts - 10/23/2022, \$33.00

ISO/DIS 724, ISO general purpose metric screw threads - Basic dimensions - 10/24/2022, \$58.00

### **Ships and marine technology (TC 8)**

ISO/DIS 24146-1, Ships and marine technology - Marine environment protection - Part 1: Management and handling of shipboard waste on inland vessels - 10/21/2022, \$98.00

### **Solid mineral fuels (TC 27)**

ISO/DIS 4077, Coal - Guidance for sampling in coal preparation plants - 6/5/2022, \$134.00

### **Sports and recreational equipment (TC 83)**

ISO/FDIS 23659, Sports and recreational facilities - Trampoline parks - Safety requirements - 2/25/2021, \$134.00

### **Steel wire ropes (TC 105)**

ISO/FDIS 2232, Round non-alloy steel wires for general purpose wire ropes, large diameter wire ropes and mine hoisting wire ropes - Specifications - 9/2/2021, \$77.00

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

ISO/FDIS 3163, Adventure tourism - Vocabulary - 2/11/2021, \$46.00

ISO/FDIS 13810, Tourism and related services - Visits to industrial, natural, cultural and historical sites - Requirements and recommendations - 7/31/2021, \$58.00

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

ISO/DIS 6534, Forestry machinery - Portable chain-saw hand-guards - Mechanical strength - 6/10/2022, \$40.00

ISO/DIS 7914, Forestry machinery - Portable chain-saws - Minimum handle clearance and sizes - 6/10/2022, \$46.00

ISO/DIS 23117-1, Agricultural and forestry machinery - Unmanned aerial spraying systems - Part 1: Environmental requirements - 6/9/2022, \$58.00

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

ISO/FDIS 14906, Electronic fee collection - Application interface definition for dedicated short-range communication - 11/11/2021, \$165.00

ISO/DIS 17573-3, Electronic fee collection - System architecture for vehicle related tolling - Part 3: Data dictionary - 10/21/2022, \$119.00

### **Water quality (TC 147)**

ISO/DIS 13168, Water quality - Simultaneous determination of tritium and carbon 14 activities - Test method using liquid scintillation counting - 10/23/2022, \$71.00

ISO/FDIS 5667-26, Water quality - Sampling - Part 26: Guidance on sampling for the parameters of the oceanic carbon dioxide system - 1/29/2021, \$58.00

### **Welding and allied processes (TC 44)**

ISO/DIS 1089, Resistance welding equipment - Electrode taper fits for spot welding equipment - Dimensions - 10/21/2022, \$46.00

ISO/DIS 15613, Specification and qualification of welding procedures for metallic materials - Qualification based on a pre-production welding test - 6/3/2022, \$40.00

ISO/FDIS 9455-1, Soft soldering fluxes - Test methods - Part 1: Determination of non-volatile matter, gravimetric method -, \$33.00

ISO/FDIS 9455-6, Soft soldering fluxes - Test methods - Part 6: Determination and detection of halide (excluding fluoride) content -, \$67.00

ISO/DIS 15614-11, Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 11: Electron and laser beam welding - 6/4/2022, \$88.00

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

ISO/IEC DIS 17917, Smart cities - Guidance to establishing a decision-making framework for sharing data and information services - 6/5/2022, \$112.00

ISO/IEC FDIS 24668, Information technology - Artificial intelligence - Process management framework for big data analytics - 8/6/2021, \$119.00

ISO/IEC FDIS 27557, Information security, cybersecurity and privacy protection - Application of ISO 31000:2018 for organizational privacy risk management - 11/6/2021, \$77.00

## ISO &amp; IEC Draft International Standards

ISO/IEC FDIS 27559, Information security, cybersecurity and privacy protection - Privacy enhancing data de-identification framework - 11/6/2021, \$82.00

ISO/IEC DIS 3532-2, Information technology - 3D Printing and scanning - Medical image-Based modelling - Part 2: Segmentation - 6/5/2022, \$88.00

ISO/IEC DIS 15426-2, Information technology - Automatic identification and data capture techniques - Bar code verifier conformance specification - Part 2: Two-dimensional symbols - 10/21/2022, \$67.00

ISO/IEC FDIS 23002-7, Information technology - MPEG video technologies - Part 7: Versatile supplemental enhancement information messages for coded video bitstreams - 8/6/2021, \$175.00

ISO/IEC DIS 24773-4, Software and Systems Engineering - Certification of software and systems engineering professionals - Part 4: Software engineering - 6/10/2022, \$62.00

ISO/IEC FDIS 24791-3, Information technology - Radio frequency identification (RFID) for item management - Software system infrastructure - Part 3: Device management - 9/26/2021, \$119.00

ISO/IEC FDIS 30105-4, Information technology - IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes - Part 4: Key concepts - 11/15/2021, \$82.00

ISO/IEC DIS 30134-7, Information Technology - Data centres key performance indicators - Part 7: Cooling Efficiency Ratio (CER) - 6/3/2022, \$67.00



# Newly Published ISO & IEC Standards

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

## ISO Standards

### Aircraft and space vehicles (TC 20)

[ISO 24071:2022](#), Aircraft - Auto-transformer rectifier units (ATRU) - General requirements, \$111.00

[ISO 5015-2:2022](#), Unmanned aircraft systems - Part 2: Operation of vertiports for vertical take-off and landing (VTOL) unmanned aircraft (UA), \$149.00

### Applications of statistical methods (TC 69)

[ISO 10576:2022](#), Statistical methods - Guidelines for the evaluation of conformity with specified requirements, \$111.00

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

[ISO 16609:2022](#), Financial services - Requirements for message authentication using symmetric techniques, \$111.00

### Biotechnology (TC 276)

[ISO 24603:2022](#), Biotechnology - Biobanking - Requirements for human and mouse pluripotent stem cells, \$175.00

### Fine ceramics (TC 206)

[ISO 24046:2022](#), Fine ceramics (advanced ceramics, advanced technical ceramics) - Methods of tests for reinforcements - Determination of the tensile properties of resin-impregnated yarns, \$111.00

### Lifts, escalators, passenger conveyors (TC 178)

[ISO 8102-20:2022](#), Electrical requirements for lifts, escalators and moving walks - Part 20: Cybersecurity, \$175.00

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

[ISO 1461:2022](#), Hot dip galvanized coatings on fabricated iron and steel articles - Specifications and test methods, \$111.00

### Other

[ISO 17072-2:2022](#), Leather - Chemical determination of metal content - Part 2: Total metal content, \$73.00

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

[ISO 5270:2022](#), Pulps - Laboratory sheets - Determination of physical properties, \$73.00

### Petroleum products and lubricants (TC 28)

[ISO 13736:2021/Amd 1:2022](#), - Amendment 1: Determination of flash point - Abel closed-cup method - Amendment 1: Bias statement update, \$20.00

### Quality management and quality assurance (TC 176)

[ISO 10008:2022](#), Quality management - Customer satisfaction - Guidance for business-to-consumer electronic commerce transactions, \$175.00

### Ships and marine technology (TC 8)

[ISO 23120:2022](#), Ships and marine technology - Graphical symbols for computer-based incident response systems, \$73.00

### Sieves, sieving and other sizing methods (TC 24)

[ISO 26824:2022](#), Particle characterization of particulate systems - Vocabulary, \$48.00

### Starch (including derivatives and by-products) (TC 93)

[ISO 24683:2022](#), High fructose syrup - Specifications and test methods, \$73.00

### Thermal insulation (TC 163)

[ISO 9288:2022](#), Thermal insulation - Heat transfer by radiation - Vocabulary, \$48.00

[ISO 12623:2022](#), Thermal insulating products for building equipment and industrial installations - Determination of short-term water absorption by partial immersion of preformed pipe insulation, \$73.00

[ISO 12629:2022](#), Thermal insulating products for building equipment and industrial installations - Determination of water vapour transmission properties of preformed pipe insulation, \$111.00

[ISO 18096:2022](#), Thermal insulating products for building equipment and industrial installations - Determination of maximum service temperature for preformed pipe insulation, \$111.00

[ISO 18097:2022](#), Thermal insulating products for building equipment and industrial installations - Determination of maximum service temperature, \$111.00

[ISO 18098:2022](#), Thermal insulating products for building equipment and industrial installations - Determination of the apparent density of preformed pipe insulation, \$48.00

[ISO 18099:2022](#), Thermal insulating products for building equipment and industrial installations - Determination of the coefficient of thermal expansion, \$48.00

### **Traditional Chinese medicine (TC 249)**

[ISO 23964:2022](#), Traditional Chinese medicine - Saposhnikovia divaricata root and rhizome, \$111.00

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

[ISO 24166-1:2022](#), Snap-on bottles for metering pumps - Part 1: Tubular glass, \$149.00

[ISO 24166-2:2022](#), Snap-on bottles for metering pumps - Part 2: Moulded glass, \$111.00

[ISO 24166-3:2022](#), Snap-on bottles for metering pumps - Part 3: Plastic, \$111.00

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

[ISO 10231:2022](#), Motorcycle tyres - Test methods for verifying tyre capabilities, \$73.00

### **Vacuum technology (TC 112)**

[ISO 24477:2022](#), Vacuum technology - Vacuum gauges - Specifications, calibration and measurement uncertainties for spinning rotor gauges, \$73.00

## **ISO Technical Specifications**

### **Plastics (TC 61)**

[ISO/TS 23483:2022](#), Carbon fibres - Determination of polyacrylonitrile-based (PAN-based) carbon fibre tow characteristics - Heat transfer parameter, \$73.00

### **Solid mineral fuels (TC 27)**

[ISO/TS 20362:2022](#), Hard coal - Determination of plastometric indices - Automated Sapozhnikov penetration plastometer method, \$149.00

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

[ISO/IEC 18045:2022](#), Information security, cybersecurity and privacy protection - Evaluation criteria for IT security - Methodology for IT security evaluation, \$250.00

[ISO/IEC 15408-1:2022](#), Information security, cybersecurity and privacy protection - Evaluation criteria for IT security - Part 1: Introduction and general model, \$250.00

[ISO/IEC 15408-2:2022](#), Information security, cybersecurity and privacy protection - Evaluation criteria for IT security - Part 2: Security functional components, \$250.00

[ISO/IEC 15408-3:2022](#), Information security, cybersecurity and privacy protection - Evaluation criteria for IT security - Part 3: Security assurance components, \$250.00

[ISO/IEC 15408-4:2022](#), Information security, cybersecurity and privacy protection - Evaluation criteria for IT security - Part 4: Framework for the specification of evaluation methods and activities, \$111.00

[ISO/IEC 15408-5:2022](#), Information security, cybersecurity and privacy protection - Evaluation criteria for IT security - Part 5: Pre-defined packages of security requirements, \$175.00

[ISO/IEC 18181-4:2022](#), Information technology - JPEG XL image coding system - Part 4: Reference software, \$48.00

[ISO/IEC 23009-1:2022](#), Information technology - Dynamic adaptive streaming over HTTP (DASH) - Part 1: Media presentation description and segment formats, \$250.00

# Registration of Organization Names in the United States

---

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

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

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

## Public Review

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

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

# Proposed Foreign Government Regulations

---

## Call for Comment

U.S. manufacturers, exporters, regulatory agencies and standards developing organizations may be interested in proposed foreign technical regulations notified by Member countries of the World Trade Organization (WTO). In accordance with the WTO Agreement on Technical Barriers to Trade (TBT Agreement), Members are required to notify proposed technical regulations that may significantly affect trade to the WTO Secretariat in Geneva, Switzerland. In turn, the Secretariat issues and makes available these notifications. The purpose of the notification requirement is to provide global trading partners with an opportunity to review and comment on the regulations before they become final.

The USA Inquiry Point for the WTO TBT Agreement is located at the National Institute of Standards and Technology (NIST) in the Standards Coordination Office (SCO). The Inquiry Point distributes the notified proposed foreign technical regulations (notifications) and makes the associated full-texts available to U.S. stakeholders via its online service, Notify U.S. Interested U.S. parties can register with Notify U.S. to receive e-mail alerts when notifications are added from countries and industry sectors of interest to them. To register for Notify U.S., please visit: <http://www.nist.gov/notifyus/>.

The USA WTO TBT Inquiry Point is the official channel for distributing U.S. comments to the network of WTO TBT Enquiry Points around the world. U.S. business contacts interested in commenting on the notifications are asked to review the comment guidance available on Notify U.S. at: <https://tsapps.nist.gov/notifyus/data/guidance/guidance.cfm> prior to submitting comments.

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



## Harmonization effort for

### SGM-SF, RMS-MF and RMS-LB Mitigation Standards

*Continuous maintenance efforts to improve these standards are currently ongoing.*

**Read me: AARST RMS-MF/RMS-LB      Comment Deadline Sept. 11, 2022**

**The work attached contains a *collection of proposed revisions* for harmonization compared to what is currently published in *rev. 12/20 publications of: RMS-MF (existing multifamily buildings) and RMS-LB (existing schools and large buildings)*.**

The latest published versions of these standards are available for comparison at [www.standards.aarst.org](http://www.standards.aarst.org) where all ANSI/AARST standards can be found for review at no charge and for purchase. The current mitigation standards committee roster (consensus body) can be linked to from [www.standards.aarst.org/public-review](http://www.standards.aarst.org/public-review).

### REQUESTED PROCESS AND FORM FOR FORMAL PUBLIC REVIEW COMMENTS

Submittals (MS Word preferred) may be attached by email to [StandardsAssist@gmail.com](mailto:StandardsAssist@gmail.com)

- 1) Do not submit marked-up or highlighted copies of the entire document.
- 2) If a new provision is proposed, text of the proposed provision must be submitted in writing. If modification of a provision is proposed, the proposed text must be submitted utilizing the strikeout/underline format.
- 3) For substantiating statements: Be brief. Provide abstract of lengthy substantiation. (If appropriate, full text may be enclosed for project committee reference.)

### REQUESTED FORMAT

Title of Public Review Draft: **Collection RMS-MF-LB Revisions 09-22**

- **Name:** Affiliation:
- **Clause or Subclause:**
- **Comment/Recommendation:**
- **Substantiating Statements:**

### AARST Consortium on National Radon Standards

Website: [www.standards.aarst.org](http://www.standards.aarst.org) Email: [standards@aarst.org](mailto:standards@aarst.org)

527 N Justice Street, Hendersonville, NC 28739

### The Consortium Consensus Process

The consensus process developed for the AARST Consortium on National Radon Standards and as accredited to meet essential requirements for American National Standards by the American National Standards Institute (ANSI) has been applied throughout the process of approving this document.

### Notices

Notice of right to appeal: Bylaws for the AARST Consortium on National Radon Standards are available at [www.standards.aarst.org/public-review](http://www.standards.aarst.org/public-review). Section 2.1 of Operating Procedures for Appeals (Appendix B) states, "Persons or representatives who have materially affected interests and who have been or will be adversely affected by any substantive or procedural action or inaction by AARST Consortium on National Radon Standards committee(s), committee participant(s), or AARST have the right to appeal; (3.1) Appeals shall first be directed to the committee responsible for the action or inaction."

**AARST RMS-MF Radon Mitigation Standards for Multifamily Buildings**  
**AARST RMS-LB Radon Mitigation Standards for Schools and Large Buildings**

*Rational/Commentary: This proposal speaks to buildings where several large structures are joined*

## 5.2 Nondestructive Investigation

### 5.2.1 Diagrams

5.2.1.1 For large structures, such as a school or large commercial or multifamily buildings, diagrams and sketches are permitted to be limited to portions of the building to be mitigated.

### 5.2.2 Visual inspections

*Rational/Commentary: This proposal summarizes and harmonizes steps required in previous publications of RMS-LB that are essential for designing mitigation systems for many large buildings.*

#### 5.2.2.4 Additional Visual Inspections

The visual inspections of the building, including interior, exterior and roof, shall include review for the design of HVAC and other mechanical systems that may influence mitigation system design. Where conditions in Table 5.2.2.4 are observed, jobsite logs shall include notation of components or description of conditions observed that may influence mitigation system design.

<u>Exhausts</u>	<u>Exhaust fans capable of causing building depressurization</u>
<u>Ventilation With Outdoor Air</u>	<u>Air intakes vents that may enhance ventilation, or observance of a lack of ventilation</u>
<u>Air Pressure</u>	<u>Unbalanced air pressure relationships across rooms or unique sectors.</u>
<u>Ventilation</u>	<u>Differences in ventilation air across rooms or unique sectors.</u>

*Rational/Commentary: This proposal harmonizes with ANS/AARST CC-1000 for test port locations for larger buildings.*

#### 9.1.4.1 Vapor Intrusion Test Ports

##### b) Test port locations

Strategic locations of test ports shall include all of the following locations where targeted for mitigation:

1. Test port locations remotely distant from suction point(s) that are sufficient in number to:
 
  - a. evaluate effectiveness of soil gas transport across the major expanse of the slab or membrane; and
  - b. evaluate consistency of soil gas transport across soil gas collection plenums that are joined to a shared ASD exhaust vent pipe.
2. Not less than one test port for each outer quadrant area of the building while also achieving one test port for each soil gas collection plenum addressed by each ASD system; and
3. For larger expanses, not less than one test port for each outer quadrant area of soil gas collection plenums that are 8,000 sq. ft. (744 m<sup>2</sup>) or larger while also achieving one test port for each additional 8,000 sq. ft. (744 m<sup>2</sup>) area and remaining smaller area.

Exception: Where there are no openings or utility penetrations through the slab or soil gas retarder, test ports are not required for plenum areas that are less than 64 square feet (6 m<sup>2</sup>), or collectively represent less than 10% of any 4,500 square foot (418 m<sup>2</sup>) area.

**Rational/Commentary:** This proposed change to Section 10.5.2 addresses harmonization of long-term monitoring of radon concentrations in large buildings where radon mitigation efforts have been undertaken. OM&M plans are likely to remain with properties longer than test reports.

## 10.5 OM&M Manuals

### 10.5.1 Essentials

### 10.5.2 Stewardship/ Monitoring

OM&M manuals shall recommend post-mitigation testing and provide instructions regarding post-mitigation clearance testing and long-term stewardship of mitigation systems, to include requirements in a), b), c) and d) of this Section 10.5.1.

- a) Stewardship Statement
- b) Ownership/Management Changes
- c) Radon Measurement/Inspections

Where a radon mitigation system is installed or found in a building at the property, OM&M procedures provided in the OM&M manual shall include all of the following:

1. Quarterly inspection to verify operation of fans and other mechanical components;
2. Testing all buildings at the property at least every 5 years. All radon measurements shall be conducted in compliance with ANSI/AARST MALB/MAMF. This clearance test procedure shall include testing all ground-contact dwellings and non-residential rooms that are occupied or intended to be occupied; not less than 10% of dwellings and non-residential rooms on each upper floor; and any mitigated areas on upper floors.
3. After post-mitigation clearance testing and in between 5-year clearance test events, test all previously tested locations for mitigated areas at nominally 2-year intervals, to ensure continued effectiveness.

It is permitted to suspend testing at 2-year intervals where the required effectiveness of a mitigation system has consistently demonstrated for a period of not less than eight years, and such systems are:

- a. inspected quarterly to verify fan operation,
  - b. inspected biennially for mechanical equipment performance and integrity, and
  - c. all buildings at the property and mitigated areas are retested every 5 years.
4. Each of these stewardship testing events to include mechanical inspections conducted by a qualified professional to verify continued performance of equipment.
  5. The following or equivalent instructions:

“Testing to verify continued effectiveness is to be conducted in conjunction with any sale of a building and after any of the following events occur:

- ✓ New adjoining additions, structures or parking lots, or building reconfiguration or rehabilitation;
- ✓ A ground contact area not previously tested is occupied or a home is newly occupied;
- ✓ Heating or cooling systems are altered with changes to air distribution or pressure relationships;
- ✓ Ventilation is altered by extensive weatherization efforts;
- ✓ Sizable openings to soil occur due to:
  - groundwater or slab surface water control systems or sewer lines are added or altered (e.g., sumps, drain tiles, shower/tub retrofits, etc.) or
  - natural settlement causing major cracks to develop;
- ✓ Earthquakes, blasting, fracking or formation of sink holes nearby; or
- ✓ An installed *mitigation system* is altered.”

~~10.5.5 Frequency of inspections for functionality~~~~The OM&M manual shall instruct that stewardship obligations require:~~

- ~~a) Visual operational inspections conducted quarterly; and~~
- ~~b) Mechanical inspections to verify continued performance of equipment, as designed, conducted annually by a qualified professional.~~

~~10.5.7 Monitoring concentrations~~~~The OM&M manual shall instruct that stewardship obligations require a regimen of ongoing radon or soil gas measurements to verify continued systems effectiveness as required in a) and b) of this Section 10.5.8.~~~~a) Radon Measurements~~~~The OM&M manual shall instruct that stewardship obligations require a routine schedule of ongoing measurements for radon gas where systems are known to mitigate radon gas.~~

**Commentary/Rationale:** The proposed revision to Section 9.2.4 is to align with ANSI Essential Requirements 2021 when personal or product certifications or listings are required by a standard.

## 9.2.4 Radon test devices

Radon test devices employed shall be listed by: the National Radon Proficiency Program (NRPP), the National Radon Safety Board (NRSB) or a program that verifies compliance with the most current version of ANSI/AARST MS-PC; or as required by the state where the measurement is being performed.

**Commentary/Rationale:** The proposed revisions to Section 3 are to align with ANSI Essential Requirements 2021 when personal or product certifications or listings are required by a standard.

## 3.2 Radon Mitigation Professionals

A “qualified radon mitigation professional” is defined as:

“An individual who has demonstrated a minimum degree of appropriate technical knowledge and skills specific to design and installation of systems that mitigate occupant exposure to radon gas in existing multifamily, school, commercial and mixed-use buildings, as established in listing or certification requirements<sup>1</sup> of:

- a) the National Radon Proficiency Program (NRPP), the National Radon Safety Board (NRSB) or equivalent national program<sup>2</sup>; and
- b) as required by local statute, state or provincial licensure or certification programs that evaluate individuals for radon-specific technical knowledge and skills.”

## 3.3 Soil Gas Mitigation Professionals

A “qualified soil gas mitigation professional” is defined as:

“An individual who has demonstrated a minimum degree of appropriate technical knowledge and skills specific to design and installation of systems that mitigate occupant exposure to hazardous chemicals vapors and gas in existing multifamily, school, commercial and mixed-use buildings, as established in listing or certification requirements<sup>1</sup> of:

- a) the National Radon Proficiency Program (NRPP), the National Radon Safety Board (NRSB) or equivalent national program<sup>2</sup>; and

<sup>1</sup> The definition of “certification requirements” is located Section 14, *Description of Terms*. The definition includes minimum educational requirements associated with listing or certification of qualified mitigation professionals.

<sup>2</sup> Note that identification of the two competing certification bodies listed is not an endorsement of either program. The definition of “equivalent national program” is located Section 14, *Description of Terms*.

- b) as required by local statute, state or provincial licensure or certification programs that evaluate individuals for soil-gas-specific technical knowledge and skills.”

**Commentary/Rationale:** These proposed additions to Section 14 (Description of terms) are to elaborate on what is meant by the term “equivalent programs” as compared to the benchmark established for 25 years by the two competing national programs identified in Section 3.

## Section 14 Description of terms

**Equivalent National Program:** A national program that evaluates and lists qualified individuals, training courses and other products or services, such as laboratory services, integral to achieving public health goals intended by this standard. Equivalent programs are programs with published policies that:

- (1) require persons to undergo education and an impartial examination process prior to granting personal certification or certificates of educational achievement;
- (2) have a written policy and means for receiving and adjudicating complaints against individuals who have been granted the credential; and
- (3) require surveillance of continued competence, not less than as demonstrated by continuing education in related technical knowledge and skills, prior to granting recertification or renewed certificates.

**Commentary/Rationale:** These proposed definitions are specific to RMS-MF and RMS-LB.

### **Certification Or Listing Requirements (Qualified Radon Measurement Professionals-Multifamily and Commercial):**

Listing or certification credentials granted by *equivalent national programs* that qualify individuals as proficient in design, planning, and implementing quality procedures when conducting *radon* measurements in multifamily buildings, schools and other non-residential or mixed-use buildings, to include:

- (1) current certification as a qualified radon measurement professional in existing homes; and
- (2) prior to granting advanced level certifications or listings, additional education and processes approved by the program relative to tasks required in the most current version of ANSI/AARST MAMF / MALB.

### **Certification Or Listing Requirements (Qualified Mitigation Professionals-Multifamily and Commercial):**

Listing or certification credentials granted by *equivalent national programs* that qualify individuals as proficient in designing radon or soil gas *mitigation* systems in existing multifamily, school or large buildings are to include:

- (1) current certification as a *qualified mitigation professional* in existing homes; and
- (2) prior to granting advanced level certifications or listings, additional education and processes approved by the program relative to tasks required in the most current version of ANSI/AARST RMS-MF / RMS-LB.

**Commentary/Rationale:** These proposed for certification and listing requirements from SGM-SF are referenced in definitions for certification/listing requirements.

### **Certification Requirements (Qualified Radon Mitigation Professionals-Homes):**

Certifications granted by *equivalent national programs* that qualify individuals as proficient in designing radon *mitigation* systems require no less than 32 hours or more education, to include a focus on tasks required in ANSI/AARST SGM-SF *Soil Gas Mitigation Standards for Existing Homes*, and no less than 16 hours continuing education biennially prior to granting recertification prior to granting recertification.

### **Certification Requirements (Qualified Soil Gas Mitigation Professionals-Homes):**

Certifications granted by *equivalent national programs* that qualify individuals as proficient in designing soil gas *mitigation* systems require no less 32 hours or more education, to include a focus on tasks required in ANSI/AARST SGM-SF *Soil Gas Mitigation Standards for Existing Homes*, training on chemical hazard protection, and no less than 16 hours continuing education biennially prior to granting recertification.

# Public Review Draft

Proposed Addendum aa to Standard 189.1-2020

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

First Public Review (July, 2022)  
(Draft Shows Proposed Changes to Current Standard)

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

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

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

© June 18, 2020 ASHRAE. This draft is covered under ASHRAE copyright. Permission to reproduce or redistribute all or any part of this document must be obtained from the ASHRAE Manager of Standards, 180 Technology Pkwy NW, Peachtree Corners, GA 30092. Phone: 404-636-8400, Ext. 1125. Fax: 404-321-5478. E-mail: [standards.section@ashrae.org](mailto:standards.section@ashrae.org).

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



BSR/ASHRAE/ICC/USGBC/IES Addendum *aa* 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

© July 11, 2022 ASHRAE

*This draft is covered under ASHRAE copyright. The appearance of any technical data or editorial material in this publication document does not constitute endorsement, warranty, or guaranty by ASHRAE of any product, service, process, procedure, design or the like and ASHRAE expressly disclaims such. Permission to republish or redistribute must be obtained from the MOS.*

**(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 improves the charging language of the Irrigation Section 6.3.1.1. It specifies terms for irrigated landscape during the initial establishment period. Exceptions for this were also edited. This addendum also removes Section 6.3.1.2 because it did not provide the intended requirements. The lettered sections ‘*a-d*’ of former 6.3.1.2 are then assumed under the revised section 6.3.1.1 and still apply. All other subsequent sections are then renumbered after Section 6.3.1.1.

The *improved landscape* definition is ‘any disturbed area of the site where new *plant* and/or grass materials are to be used, including green *roofs*, plantings for stormwater controls, planting boxes, and similar vegetative use. *Improved landscape* shall not include *hardscape* areas such as sidewalks, driveways, other paved areas, and swimming pools or decking.’

*[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 *aa* to 189.1-2020

*Revise Section 6.3.1.1 as follows*

**6.3.1.1 Irrigation Limitations.** ~~Not more than 40% of the improved landscape area shall be irrigated.~~  
60 percent of the improved landscape area shall not be irrigated except during the landscape establishment period by a temporary irrigation system. The temporary irrigation system shall not be an in-ground system and shall be removed from the site after the landscape establishment period.

### Exceptions to 6.3.1.1:

The following areas shall be subtracted from the improved landscape area prior to calculation of the areas allowed to be irrigated:

1. Dedicated sports fields ~~Dedicated athletic fields, golf courses, and driving~~

BSR/ASHRAE/ICC/USGBC/IES Addendum *aa* 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

~~ranges.~~

2. Areas dedicated for production of food for human consumption

~~3. Burial grounds~~

~~4. Landscape areas irrigated solely with *alternate on-site sources of water*~~

~~5. 3. Areas dedicated to *plants* with an annual  $ET_c$  of 15 in. (380 mm) or less, other than turfgrass, where average annual rainfall is less than 12 in. (300 mm).~~

~~6. Irrigation applied only during the *landscape establishment period*.~~

*Delete Section 6.3.1.2 and renumber subsequent subsections accordingly:*

~~**6.3.1.2 Irrigation.** For landscaped areas, not greater than one-third of *improved landscape area* is allowed to be irrigated with *potable water*. The area of dedicated athletic fields shall be excluded from the calculation of the *improved landscape* for schools, *residential common areas*, and public recreational facilities. All other irrigation shall be provided from alternate sources of water.~~

~~**Exception to 6.3.1.2:** *Potable water* is allowed to be used on such newly installed landscape for the *landscape establishment period*. The amount of *potable water* allowed to be applied to the newly planted areas during the *landscape establishment period* shall not exceed 70% of  $ET_o$  for *turfgrass* and 55% of  $ET_o$  for other plantings.~~

*Renumber Sections 6.3.1.2.1 and 6.3.1.2.2 and modify the wording, as shown below:*

~~**6.3.1.2.1-6.3.1.2 Irrigation System Design.** The design of the irrigation system shall be performed by an accredited or certified irrigation professional and shall be in accordance with the following:~~

~~a. Irrigation systems~~

~~1. shall be based on *hydrozones*. *Turfgrass* areas shall be on their own *irrigation stations*.~~

~~2. shall have backflow prevention in accordance with the plumbing code.~~

~~3. [JO] shall have a master valve on municipally supplied water sources that allows pressurization of the irrigation mainline only when irrigation is scheduled.~~

~~4. [JO] shall have a flow sensor and monitoring equipment that will shut off the control valve if the flow exceeds normal flow from an *irrigation station*.~~

~~5. shall prevent piping from draining between irrigation events.~~

~~b. Irrigation emission devices shall comply with ASABE/ICC 802, *Landscape Irrigation Sprinkler and Emitter Standard*.~~

~~c. Irrigation sprinklers~~

~~1. shall not spray water directly on buildings or *hardscape area*.~~

~~2. shall have matched precipitation rate nozzles within an *irrigation station*.~~

~~3. shall be prohibited on landscape areas having any dimension less than 4 ft (1.2 m).~~

~~4. shall have an application rate less than or equal to 0.75 in. (19 mm) per hour on slopes greater than 1 unit vertical in 4 units horizontal.~~

~~5. shall be limited to use with *turfgrass* or *ground cover* areas with vegetation maintained at 8 in. (200 mm) or less in height.~~

~~6. where of the pop-up configuration, shall have a pop-up height of not less than 4 in (100 mm).~~

~~d. Microirrigation zones~~

~~1. shall be equipped with pressure regulators, filters, and flush assemblies.~~



BSR/ASHRAE/ICC/USGBC/IES Addendum *aa* 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

2. shall have indicators that allow confirmation of operation by visual inspection.
3. drip emitters shall be of pressure-compensating type.

**6.3.1.2.2-6.3.1.3 Irrigation System Controls.** Where any irrigation system for the project site uses an *automatic* controller, the system shall be controlled by a qualifying *smart controller* that uses *evapotranspiration (ET)* and weather data to adjust irrigation schedules and complies with the minimum requirements. Alternatively, the system shall be controlled by an on-site rain or moisture sensor that automatically shuts off the system after a predetermined amount of rainfall or sensed moisture in the soil. Qualifying *smart controllers* shall be *labeled* according to USEPA *Water-Sense Specification for Weather-Based Irrigation Controllers* or tested in accordance with Irrigation Association SWAT Climatologically Based Controllers, 8th Testing Protocol. *Smart controllers* that use *ET* data shall provide the following irrigation amounts:

- a. *Irrigation adequacy*—80% minimum *ET<sub>c</sub>*
- b. *Irrigation excess*—not to exceed 10% of *ET<sub>c</sub>*

~~**Exception to 6.3.1.2.2:** A temporary irrigation systems used exclusively for the establishment of new landscape shall be exempt from this requirement. Temporary irrigation systems shall be removed or permanently disabled at such time as the *landscape establishment period* has expired.~~

**6.3.1.2.2.1** The following settings and schedule for the irrigation control system shall be posted on or adjacent to the controller:

- a. Precipitation rate of each *irrigation station*
- b. *Plant* factors for each *hydrozone*
- c. Soil type
- d. Rain sensor settings
- e. Soil moisture sensor settings, where installed
- f. Peak demand schedule, including run times, cycle starts, and soak times
- g. Maximum runtimes to prevent water runoff

~~**Exception to 6.3.1.3:** Temporary irrigation systems used exclusively for the *landscape establishment period*.~~

*Delete section 6.3.1.2.3:*

~~**6.3.1.2.3 Irrigation of Rainfall-*ET<sub>c</sub>* Compatible Plants and Native Plants.**~~

~~In-ground irrigation systems serving *rainfall-ET<sub>c</sub> compatible plants* or *native plants* using *potable water* or off-site treated *reclaimed water* are prohibited. After the *landscape establishment period* of *rainfall-ET<sub>c</sub> compatible plants* and *native plants*, the irrigation system using *potable water* or *reclaimed water* shall be permanently disabled or removed from the site.~~

~~**Exception to 6.3.1.2.3:** Areas identified by Section 6.3.1.1, Exception 5.~~

# Public Review Draft

Proposed Addendum i to Standard 189.1-2020

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

Third Public Review (July 2022)  
(Draft Shows Proposed Independent Substantive  
Changes to Previous Public Review Draft)

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

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

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

© June 18, 2020 ASHRAE. This draft is covered under ASHRAE copyright. Permission to reproduce or redistribute all or any part of this document must be obtained from the ASHRAE Manager of Standards, 180 Technology Pkwy NW, Peachtree Corners, GA 30092. Phone: 404-636-8400, Ext. 1125. Fax: 404-321-5478. E-mail: [standards.section@ashrae.org](mailto:standards.section@ashrae.org).

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



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

© July 11, 2022 ASHRAE

*This draft is covered under ASHRAE copyright. The appearance of any technical data or editorial material in this publication document does not constitute endorsement, warranty, or guaranty by ASHRAE of any product, service, process, procedure, design or the like and ASHRAE expressly disclaims such. Permission to republish or redistribute must be obtained from the MOS.*

**(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

*Addendum i proposes a change from the second ISC to clarify Table 7.3.4 in response to input received from commenters. Only the table is shown and available for comment.*

*Note to Reviewers: This public review draft 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 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 substantive changes.]*

## 189.1-2020 Addendum *i* 3<sup>rd</sup> PPR ISC

---

**Table 7.3.4 Electric Storage Water Heater Controls**

Equipment Type	Controls	
	<u>Manufactured <del>B</del> before 7/1/2025</u>	<u>Manufactured on or after <del>As of</del> 7/1/2025</u>
Electric Storage Water heaters	ANSI/CTA-2045-B Level 1 and also capable of initiating water heating to meet the temperature set point in response to a <i>demand response signal</i>	ANSI/CTA-2045-B Level 2, except all related requirements for “Price Stream Communication” functionality.

# Public Review Draft

Proposed Addendum z to Standard 189.1-2020

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

First Public Review (July,2022)  
(Draft Shows Proposed Changes to Current Standard)

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

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

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

© June 18, 2020 ASHRAE. This draft is covered under ASHRAE copyright. Permission to reproduce or redistribute all or any part of this document must be obtained from the ASHRAE Manager of Standards, 180 Technology Pkwy NW, Peachtree Corners, GA 30092. Phone: 404-636-8400, Ext. 1125. Fax: 404-321-5478. E-mail: [standards.section@ashrae.org](mailto:standards.section@ashrae.org).

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



BSR/ASHRAE/ICC/USGBC/IES Addendum z 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

© July 11, 2022 ASHRAE

*This draft is covered under ASHRAE copyright. The appearance of any technical data or editorial material in this publication document does not constitute endorsement, warranty, or guaranty by ASHRAE of any product, service, process, procedure, design or the like and ASHRAE expressly disclaims such. Permission to republish or redistribute must be obtained from the MOS.*

**(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 revises the current requirement for the submittal of environmental product declarations within Standard 189.1 to be mandatory for products meeting specific criteria. The section includes a new requirement for reporting the global warming potential contribution for those products within the building project. This addendum also removes UL100 from the list of third-party multiattribute certifications in Section 9.5.1.4 because UL has withdrawn the standard without replacement and discontinued subscriptions.

*[Note to Reviewers: This addendum makes proposed changes to the 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 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 z to 189.1-2020

*Add section 9.4.1, renumber subsequent sections, and modify section 9.5.1.4 as follows:*

---

### **9.4.1 Environmental Product Declarations and Global Warming Potential Reporting**

**9.4.1.1 Environmental Product Declarations (EPDs).** EPDs shall be submitted for products that together represent not less than 25% of the total cost of all products permanently installed in the *building project* such that a, b, c and d are satisfied. EPDs submitted shall:

- a) represent products that are permanently installed in the *building project* at the time of issuance of the certificate of occupancy,
- b) represent products from not less than 10 different manufacturers,
- c) represent not less than 20 different products, and
- d) include any product with a value that exceeds 5% of the total cost of all products permanently installed in the *building project*.

A value of 45% of the total construction cost shall be permitted to be used in lieu of the total cost of all

BSR/ASHRAE/ICC/USGBC/IES Addendum z 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

products permanently installed in the *building project*.

**9.4.1.2 EPD Requirements.** EPDs used to comply with 9.4.1.1 shall be third-party verified Type III EPDs consistent with ISO 21930 or ISO 14025, with not less than a cradle-to-gate scope. Where an industry-wide or product-specific Type III EPD is not available for a product, a critically reviewed third-party life cycle assessment report based on ISO Standards 14040 and 14044 or third-party verified summary thereof shall be permitted as an alternative method for demonstrating compliance.

Product compliance shall be shown by submitting either a product-specific EPD or a regional- or industry-wide EPD. Each product-specific EPD shall be counted as one product. Each regional- or industry-wide EPD shall be counted as ½ product.

Products delivered to the *building project* site as an assembly comprised of multiple components and ready for installation into the *building project* shall be considered a single product. Compliance with 9.4.1.1 shall be based on either:

- a) an EPD representing the assembly, or
- b) EPDs of individual components within the assembly.

**9.4.1.3 Reporting of Global Warming Potential Contribution.** For each of the products with EPDs used to comply with section 9.4.1.1, the global warming potential reported in the applicable EPD as a declared unit or functional unit shall be multiplied by the number of declared units or functional units of product used in the *building project*. A report listing the results on a per product basis and the total square footage of the *building project* shall be provided to the project owner and be made available to the authority having jurisdiction (AHJ).

**9.45 Material Selection.** The building project shall comply with either 9.4.1 or 9.4.2.

**9.45.1 Reduced Impact Materials.** The *building project* shall comply with ~~any two~~ one of the following: Sections 9.45.1.1, 9.45.1.2, 9.45.1.3, or 9.45.1.4. Calculations shall only include materials permanently installed in the *building project*. A value of 45% of the total construction cost shall be permitted to be used in lieu of the actual cost of materials.

[Sections 9.4.1.1 through 9.4.1.3 are renumbered but not modified]

~~**9.4.1.4 Multiple Attribute Product Declarations or Certification.** A minimum of ten different products installed in the *building project* at the time of issuance of certificate of occupancy shall comply with one of the following subsections. Declarations, reports, Certifications and assessments shall be submitted to the *authority having jurisdiction (AHJ)* and shall contain documentation of the critical peer review by an independent third party, results from the review, the reviewer's name, company name, contact information, and date of the review or certification.~~

~~**9.4.1.4.1 Industry Wide Declaration.** A Type III industry-wide environmental product declaration (EPD) shall be submitted for each product. Where the program operator explicitly recognizes the EPD as fully representative of the product group on a national level, it is considered industry-wide. In the case where an industry-wide EPD represents only a subset of an industry group, as opposed to being industry-wide, the manufacturer shall be explicitly recognized as a participant by the EPD program operator. All EPD shall be consistent with~~

BSR/ASHRAE/ICC/USGBC/IES Addendum z 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

~~ISO Standards 14025 and 21930, with at least a cradle to gate scope. Each product complying with this section shall be counted as one product for compliance with Section 9.4.1.4.~~

~~**9.4.1.4.2 Product Specific Declaration.** A product-specific Type III EPD shall be submitted for each product. The product-specific declaration shall be manufacturer-specific for a product family. Type III EPDs shall be certified as complying with the goal and scope for the cradle to gate requirements in accordance with ISO Standards 14025 and 21930. Each product complying with this section shall be counted as two products for compliance with Section 9.4.1.4.~~

~~**9.45.1.4.3 Third-Party Multiattribute Certification.** A material-specific assessment shall be submitted to the *authority having jurisdiction (AHJ)* for a minimum of five different products installed in the *building project* at the time of issuance of certificate of occupancy for each product in accordance with one or more of the following standards, where applicable. The assessment shall be certified as meeting the minimum performance level specified in each standard. Each product complying with this section shall be counted as two products for compliance with Section 9.4.1.4.~~

- a. ANSI/BIFMA e3
- b. NSF/ANSI 140
- c. NSF/ANSI 332
- d. NSF/ANSI 336
- e. NSF/ANSI 342
- f. NSF/ANSI 347
- g. NSC 373
- h. ANSI A138.1
- i. UL 100
- ji. UL 102

~~**9.4.2.4.2 Product Life Cycle.** A report by a third-party that has critically reviewed the *life-cycle assessment (LCA)* of a product, based on ISO Standards 14040 and 14044, shall be submitted. The report shall demonstrate compliance with the goal and scope for the cradle to gate requirements. Each product complying with this section shall be counted as two products for compliance with Section 9.4.1.4.~~



**BSR/ASHRAE/IES Addendum h  
to ANSI/ASHRAE/IES Standard 100-2018**

**First Public Review Draft**

**Proposed Addendum h to  
Standard 100-2018, Energy  
Efficiency in Existing Buildings**

**First Public Review (August 2022)  
(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 draft, go to the ASHRAE website at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts> and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard or guideline may be purchased from the ASHRAE Online Store at [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore) or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

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

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

© 2022 ASHRAE. This draft is covered under ASHRAE copyright. Permission to reproduce or redistribute all or any part of this document must be obtained from the ASHRAE Manager of Standards, 180 Technology Parkway NW, Peachtree Corners, GA 30092. Phone: 404-636-8400, Ext. 1125. Fax: 404-321-5478. E-mail: [standards.section@ashrae.org](mailto:standards.section@ashrae.org).

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



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

## FOREWORD

*This proposed addendum revises Sections 4.3.2, 4.3.3, 10.1, and 10.3 to simplify and clarify the compliance process for buildings with energy targets, buildings without energy targets, and residential buildings and dwelling units. It also deletes Informative Annex F and replaces it with new Figures 4-1, 4-2, and 10-1.*

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

**Addendum h to Standard 100-2018**  
*Modify Section 4 as shown. The remainder of Section 4 remains unchanged.*

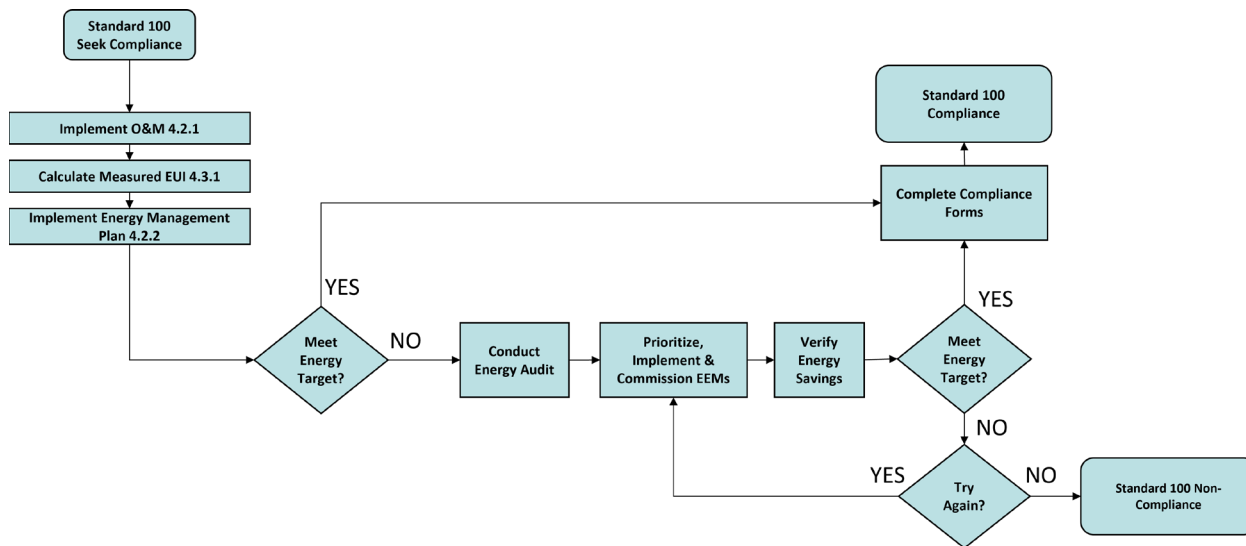
## 4. COMPLIANCE REQUIREMENTS

[ ... ]

### 4.3.2 Buildings with Energy Targets

*Add new Section 4.3.2.1, “Compliance Process,” as shown. Renumber subsequent subsections accordingly.*

**4.3.2.1 Compliance Process.** *Buildings with energy targets shall comply with the requirements of Sections 4.3.2.2 and 4.3.2.3. Figure 4-1 illustrates the compliance process for buildings with energy targets.*



**FIGURE 4-1 Flowchart for Buildings with Energy Targets**

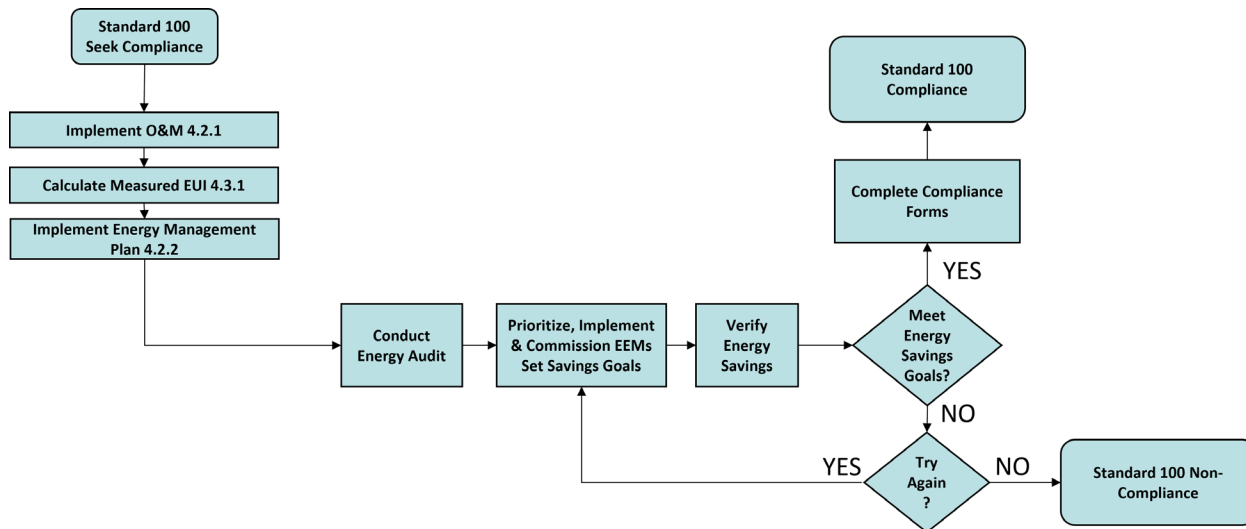
[ ... ]

### 4.3.3 Buildings without Energy Targets

*Add new Section 4.3.3.1, “Compliance Process,” as shown. Renumber subsequent subsections accordingly.*

BSR/ASHRAE/IES Addendum h to ANSI/ASHRAE/IES Standard 100-2018, *Energy Efficiency in Existing Buildings*  
 First Public Review Draft

**4.3.3.1 Compliance Process.** *Buildings without energy targets shall comply with the requirements of Sections 4.3.3.2 and 4.3.3.3. Figure 4-2 illustrates the compliance process for buildings without energy targets.*



**FIGURE 4-2 Flowchart for Buildings without Energy Targets**

[ ... ]

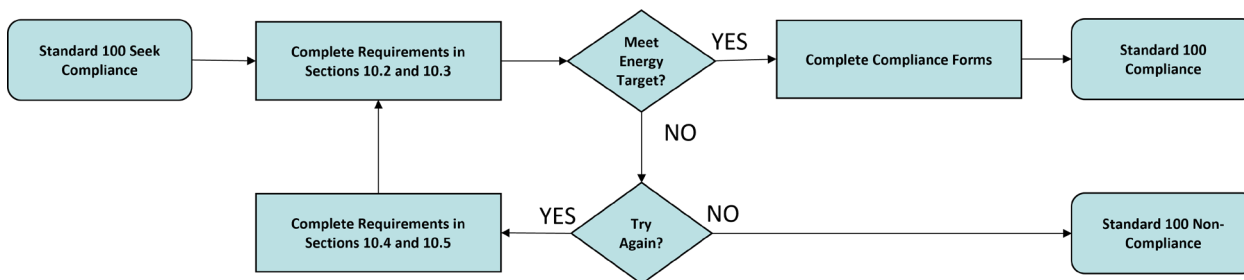
*Modify Section 10 as shown. The remainder of Section 10 remains unchanged.*

**10. RESIDENTIAL BUILDINGS AND DWELLING UNITS**

**10.1 Compliance Requirements**

*Add new Section 10.1.1, “Compliance Process,” as shown.*

**10.1.1 Compliance Process.** *Residential buildings and dwelling units shall comply with the requirements of Section 10.4. Figure 10-1 illustrates the compliance process for residential buildings and dwelling units.*



**FIGURE 10-1 Flowchart for Residential Buildings**

*Note to Reviewers: Table 10-1, “Building Types Derived from RECS,” is deleted in its entirety.*

[ ... ]

~~10.1.2~~10.1.1...

~~10.1.3~~10.1.1...

~~10.1.3.1~~10.1.2.1...

~~10.1.3.2~~~~10.1.2.2...~~

~~10.1.4~~~~10.1.3...~~

~~10.1.4~~ All residential dwelling units seeking compliance shall meet the *energy targets* according to the requirements under Section 10.4.

[ ... ]

~~10.1.6~~ A flowchart showing the compliance process is provided in Informative Annex F.

~~10.1.6~~~~10.1.7~~ The timeline for compliance is shown in Informative Annex B.

~~10.1.7~~~~10.1.8~~ Compliance forms for reporting compliance to the *authority having jurisdiction (AHJ)* are found in Normative Annex C.

[ ... ]

10.3.4.7 Select *building* types from among the types of *residential buildings* listed in Table ~~7-140-1~~.

[ ... ]

10.4.1 **Buildings that Meet Energy Targets.** *Residential buildings and dwelling units*~~Buildings~~ that meet their *energy targets* under Section 10 comply with Standard 100~~are not required to perform an energy audit.~~ Compliance shall be reported according to Section 10.1.7.

[ ... ]

***Modify Informative Annex B as shown. The remainder of Informative Annex B remains unchanged.***

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

**INFORMATIVE ANNEX B—TIMELINE**

[ ... ]

**TABLE B-2 Compliance Timeline for Buildings without Energy Targets**

Event	Time Frame	Reference
[ ... ]		
Step 10—Apply for compliance with Standard 100.	Within 60 months after completion of Step 4	Section <del>4.3.2.3</del> <del>4.3.2.2-</del> and Form A (with additional forms as needed.)
[ ... ]		

***Note to Reviewers: Informative Annex F, “Standard 100 Compliance Flow,” is deleted in its entirety.***



**BSR/ASHRAE Standard 17-2015R**

**Public Review Draft**

# **Method of Testing Capacity of Electronic and Thermostatic Refrigerant Expansion Valves**

**First Public Review (August 2022)  
(Complete Draft for Full Review)**

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).

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

© 2022 ASHRAE. This draft is covered under ASHRAE copyright. Permission to reproduce or redistribute all or any part of this document must be obtained from the ASHRAE Manager of Standards, 180 Technology Parkway NW, Peachtree Corners, GA 30092. Phone: 404-636-8400, Ext. 1125. Fax: 404-321-5478. E-mail: [standards.section@ashrae.org](mailto:standards.section@ashrae.org).

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

BSR/ASHRAE Standard 17-2015R, *Method of Testing Capacity of Electronic and Thermostatic Refrigerant Expansion Valves*

2<sup>nd</sup> ISC Publication 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

*This is a revision of ANSI/ASHRAE Standard 17-2015. This ISC publication public review draft updates references.*

**This is a review of Independent Substantive Changes** to normative text made since the last public review. Text that was removed from the Public Review Draft is provided for reference but is shown in ~~strikeout~~, and text that has been added is shown with underlines.

Only these changes are open to comment at this time. All other material is provided for context only and is not open for Public Review comment except as it relates to the proposed changes.

## 10. CAPACITY CALCULATION

$$CAPACITY = w (h_g - h_f) \quad (2)$$

where

$w$  = refrigerant mass flow rate, kg/h (lb/h)

$h_g$  = enthalpy of saturated refrigerant vapor at the measured equalizer pressure, kJ/kg (Btu/lb)

$h_f$  = enthalpy of saturated refrigerant liquid at the measured test valve inlet temperature, kJ/kg (Btu/lb)

The enthalpy values ( $h_g$  and  $h_f$ ) of some refrigerants at various temperatures may be found in *ASHRAE Handbook—Fundamentals*<sup>119</sup> in the chapter entitled “Thermophysical Properties of Refrigerants.” More extensive properties are available in the NIST Standard Reference Database 23, entitled *NIST Thermodynamic and Transport Properties of Refrigerants and Refrigerant Mixtures—REFPROP10*<sup>124</sup>.

*SI Example test report:*

Refrigerant R-410A (a Zeotropic mixture)

Liquid temperature 40°C

Inlet pressure 2733 kPa absolute

Outlet pressure 1258 kPa absolute

External equalizer pressure 936 kPa absolute

Temperature-sensing element temperature 11°C

Static superheat 3°C

Superheat change 3°C

Refrigerant flow rate 300 kg/h

BSR/ASHRAE Standard 17-2015R, *Method of Testing Capacity of Electronic and Thermostatic Refrigerant Expansion Valves*

2<sup>nd</sup> ISC Publication Public Review Draft

$$h_g = 427.55 \text{ kJ/kg}$$

$$h_f = 266.3 \text{ kJ/kg}$$

$$\text{Capacity} = 13.4 \text{ kW}$$

*I-P Example test report:*

Refrigerant R-410A (a Zeotropic mixture)

Liquid temperature 100°F

Inlet pressure 396 psia

Outlet pressure 182 psia

External equalizer pressure 136 psia

Temperature-sensing element temperature 52°F

Static superheat 6°F

Superheat change 6°F

Refrigerant flow rate 600 lb/h

$$h_g = 183.8 \text{ Btu/lb}$$

$$h_f = 114.5 \text{ Btu/lb}$$

$$\text{Capacity} = 41,580 \text{ Btu/h}$$

## 11. REFERENCES

1. *ANSI/ASHRAE Standard 15-2013, Safety Standard for Refrigeration Systems.* American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
2. *ANSI/ASHRAE Standard 34-2013, Designation and Safety Classification of Refrigerants.* American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
3. *AHRI Standard 750-2007, Thermostatic Refrigerant Expansion Valves.* Air-Conditioning, Heating, and Refrigeration Institute.
4. *AHRI Standard 751-2007, Thermostatic Refrigerant Expansion Valves.* Air-Conditioning, Heating, and Refrigeration Institute.
5. *AHRI Standard 1370, Electronic Refrigerant Expansion Valves.* Air-Conditioning, Heating, and Refrigeration Institute.
6. *AHRI Standard 1371, Electronic Refrigerant Expansion Valves.* Air-Conditioning, Heating, and Refrigeration Institute.
7. *ANSI/AHRI Standard 700-2014, Specifications for Fluorocarbon Refrigerants.* Air-Conditioning, Heating, and Refrigeration Institute.

BSR/ASHRAE Standard 17-2015R, *Method of Testing Capacity of Electronic and Thermostatic Refrigerant Expansion Valves*

2<sup>nd</sup> ISC Publication Public Review Draft

8. *ANSI/ASHRAE Standard 41.1-202013*, *Standard Method for Temperature Measurement*. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
9. *ASHRAE Standard 41.3-20221989*, *Standard Method for Pressure Measurement*. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
10. ASHRAE. 2021. *ASHRAE Handbook—Fundamentals*, “Thermophysical Properties of Refrigerants.” Atlanta: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc
11. Lemmon, E.W., Bell, I.H., Huber, M.L., McLinden, M.O. NIST Standard Reference Database 23: Reference Fluid Thermodynamic and Transport Properties-REFPROP, Version 10.0, National Institute of Standards and Technology, Standard Reference Data Program, Gaithersburg, 2018.

# NENA Standard for the Conveyance of Emergency Incident Data Objects (EIDOs) between Next Generation (NG9-1-1) Systems and Applications

ANS CANDIDATE NENA-STA-024.1-2022

Only **highlighted text** is open for Public Review 3 Comment  
For reference only, entire draft is available [here](#).

## 2.1 WebSocket-based Incident Data Subscription

A Functional Element (FE) exposes an interface for subscribing to events or messages as matched by the provided filter [1]. Using the qualFilter the service will support a subscription to matching specific target objects that will be sent via a WebSocket.

### 2.1.1 General Description

Clients establish a connection to a service via a WebSocket per RFC 6455 **Error! Reference source not found.** specifying a WebSocket Protocol named `“nena-ent-“emergency-ent””`.

#### 2.1.3.1.2 HTTP Headers

The following HTTP headers are REQUIRED to establish a WebSocket for the WebSocket Protocol `“nena-ent-“emergency-ent””` per RFC 6455, *The WebSocket Protocol* **Error! Reference source not found.:**

Header Name	Value	Description
Connection	“Upgrade”	Directive to change protocol.
Upgrade	“websocket”	Directive to upgrade to the WebSocket protocol.
Host	Hostname	Identification of the host requested.
Sec-WebSocket-Extensions:	“nena-ent-version=1; nena-ent-version=2”	The list of versions supported by the requestor.
Sec-WebSocket-Protocol	“emergency-ent1.0nena-ent”	Used to identify the version(s) of the message protocol supported by the requestor.



Header Name	Value	Description
Sec-WebSocket-Key	base64	The value of this header field MUST be a nonce consisting of a randomly selected 16-byte value that has been base64-encoded (see Section 4 of <b>Error! Reference source not found.</b> .. The nonce MUST be selected randomly for each connection.
Sec-WebSocket-Version	"13"	WebSocket protocol version number.

The following HTTP headers will be returned in response to the request to establish a WebSocket:

Header Name	Value	Description
Connection	"Upgrade"	The server is upgrading the connection.
Upgrade	"websocket"	The server is upgrading the connection to a WebSocket.
Set-WebSocket-Accept	Base64	Sent from the server to the client to confirm that the server is willing to initiate the WebSocket connection.
Sec-WebSocket-Protocol	" <del>emergency-ent1.0</del> " <del>^nena-ent</del> "	Used to identify the message protocol and its version.
Sec-WebSocket-Extensions:	" <del>nena-ent-version=2</del> "	The highest version specified in the Sec-WebSocket-Extensions specified in the request header that the server supports.

### Example: WebSocket Establishment Request

```
GET /eido_urn HTTP/1.1
Host: idx.esinet.net
Connection: Upgrade
Upgrade: websocket
Sec-WebSocket-Protocol: nena-entemergency-ent1.0
Sec-WebSocket-Extensions: nena-ent-version=1; nena-ent-version=2
Sec-WebSocket-Key: dGhlIHhnbXBsZSBub25jZQ==
Sec-WebSocket-Version: 13
```

### Example: WebSocket Establishment Response

```
HTTP/1.1 101 Switching Protocols
Upgrade: websocket
Connection: Upgrade
Sec-WebSocket-Accept: s3pPLMBiTxaQ9kYGzzhZRbK+xOo=
```

~~Sec-WebSocket-Protocol: nena-ent-emergency-ent1.0~~  
~~Sec-WebSocket-Extensions: nena-ent-version=2~~

### 2.1.5.1.1 client request

Name	Type	Condition	Description
minRate	integer	<del>OPTIONAL-CONDITIONAL</del> <del>OPTIONAL if and only if a</del> <del>subscriptionId is not specified,</del> <del>otherwise MUST NOT be</del> <del>specified.</del>	Number of seconds after the last notification after which a notification must be sent consistent with RFC 6446 <b>Error! Reference source not found..</b> If not specified there is no minimum rate.
maxRate	integer	<del>OPTIONAL-CONDITIONAL</del> <del>OPTIONAL if and only if a</del> <del>subscriptionId is not specified,</del> <del>otherwise MUST NOT be</del> <del>specified.</del>	Minimum time in seconds to wait between notifications which is the maximum rate at which notifications are sent consistent with RFC 6446 <b>Error! Reference source not found..</b> If not specified there is no maximum rate.
subscriptionId	string	OPTIONAL	<del>The subscriptionId</del> <del>previously returned by</del> <del>the service-notifier in the</del> <del>subscribeResponse. This</del> <del>is provided back in an</del> <del>Acknowledgement by the</del> <del>service, is used for</del> <del>keeping a subscription</del> <del>alive, subsequent filter</del> <del>modifications, or to</del> <del>terminate the</del> <del>subscription.</del>

## 2.5 EIDO Dereference Factory

The agency's IDX MAY maintain an internal EIDO RESTful web service URL that, when an HTTP GET whose last element of the path is the incident ID is presented, returns a Dereference Service URI for the Incident [27]. Data Rights Management would control if the issuance of a URI from the Dereference Factory is permitted. The Dereference Factory MUST supply the same URI for a given requestor and incident so that the URI expiration mechanism cannot be circumvented.

## 2.9 Logging

Regardless of transport mechanism (i.e., subscribe, message, dereference, or included in a call transfer):

Any FE that sends or receives an EIDO MUST log it to a Logger FE as defined in NENA-STA-010 with an the EIDO LogEvent as defined in NENA-STA-010 Logging Service. [26].

Certain LogEvents are defined in NENA-STA-010. One of those, EidoLogEvent, is extended. In addition, to the LogEvent types defined in NENA-STA-010, the following LogEvent types are defined, some of which have common members: The "direction" member has one of two values, "incoming" and "outgoing". The "queryId" member is used to relate the query to the response. The value of the "queryId" member is generated locally, MUST be globally unique, and is suggested to be of the form "urn:ena:uid:logEvent:", followed by a locally unique ID, followed by a colon, followed by the domain of the entity performing the logging, for example, "urn:ena:uid:logEvent:a99dasdas37:psap.example.com". In most of these events, a "peerId" member is included, which value is the identity of the peer. For a client or subscriber, it is the identity of the server or notifier. For the server or notifier, it is the identity of the requesting client or subscriber.

### 2.9.1 EidoLogEvent

The EidoLogEvent is extended to include a "peerId" member containing the identity of the peer entity, and a "subscriptionId" member. Implementations of this standard MUST populate the "peerId" member and MUST populate the "subscriptionId" member when the EidoLogEvent results from a subscription. The "peerId" member will be required in a future version of the schema.

### 2.9.10 WebSocketEstablishedLogEvent

The client MAY and the server MUST log a WebSocketEstablishedLogEvent which MUST include a "subscriber" member containing the identity of the peer entity, a "direction" member, a "websocketId" member to relate the WebSocket establishment and its associated termination, and a "statusCode" member containing a "statusDescription" member containing an HTTP status code and description. The value of the "websocketId" member is generated locally, MUST be globally unique, and is suggested to be of the form "urn:ena:uid:logEvent:", followed by a locally unique ID, followed by a colon, followed by the domain of the entity performing the logging, for example, "urn:ena:uid:logEvent:a99dasdas37:psap.example.com".

### 2.9.11 WebSocketTerminatedLogEvent

The client MAY and the server MUST log a WebSocketTerminatedLogEvent which MUST include a "subscriber" member containing the identity of the peer entity, a "direction" member, a "websocketId" member with the same value as that specified in its associated WebSocketEstablishedLogEvent, a "closeCode" member containing a WebSocket Close frame status code, and an optional "closeReason" member containing a reason per RFC 6455 **Error! Reference source not found..**

## 3.5 WebSocket Subprotocol Name Registry

IANA is requested to add the following values to the WebSocket Subprotocol Name Registry.

<b>Subprotocol Identifier Name</b>	<b>Subprotocol Common NameValue</b>	<b>Subprotocol Definition Reference</b>
emergency-ent1.0	Emergency Event Notification Transport 1.0	<this document>

## 5 References

- [25] National Emergency Number Association. *NENA Standard for WebSocket-based Subscriptions and Notifications between Next Generation (NG9-1-1) Systems and Applications. Version 1.0 Schema*. 2022.
- [26] National Emergency Number Association. *NENA Standard for NG9-1-1 Logging Service. Version 1.2 Schema*. 2022.
- [27] National Emergency Number Association. *NENA Standard for NG9-1-1 EIDO Conveyance Incident Data API. Version 1.0 Schema*. 2022.

## 8 Appendix B: Schemas and OpenAPI Interfaces

### 8.1 ~~WebSocket Subscription and Notification and Associated Response Object Schemas~~

### 8.2 ~~EIDO Dereference Factory and EIDO Retrieval Service~~

### 8.3 ~~Logging Service Schemas~~

Tracking number 170i33r1  
© 2022 NSF

Revision to NSF/ANSI 170-2021  
Issue 33 Revision 1 (August 2022)

Not for publication. This document is part of the NSF standard development process. This draft text is for circulation for review and/or approval by an NSF Standards Committee and has not been published or otherwise officially adopted. All rights reserved. This document may be reproduced for informational purposes only.

[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 Standard  
for Food Equipment —

## Glossary of Food Equipment Terminology

•

**3.XXX bottle washing machine:** A machine designed and manufactured to clean and sanitize bottles by applying sprays of detergent solutions and a sanitizing rinse. This may include devices that can temporarily modify an existing commercial warewashing machine to accommodate racking, washing, and sanitizing bottles.

Not for publication. This document is part of the NSF standard development process. This draft text is for circulation for review and/or approval by a NSF Standards Committee and has not been published or otherwise officially adopted. All rights reserved. This document may be reproduced for informational purposes only.

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

NSF/ANSI Standard  
For Wastewater Technology –

## Onsite Residential and Commercial Water Reuse Treatment Systems

.  
. .

### 5 Design and construction

.  
. .

#### 5.10 Dataplate and service label

##### 5.10.1 Residential ~~W~~wastewater treatment systems

The system shall have a permanent and legible data plate. The data plate shall include:

- manufacturer's name and address;
- model number;
- serial number;
- rated daily hydraulic capacity of the system; and
- the system classification of single-family residential (R), or multi-family or commercial (C), as determined by the performance testing and evaluation requirements described herein.

##### 5.10.2 Greywater treatment systems

The system shall have a permanent and legible dataplate. The dataplate shall include:

- manufacturer's name and address;
- model number;
- serial number;
- rated daily hydraulic capacity of the system;

Tracking #350i74r1  
© 2022 NSF

Revision to NSF/ANSI 350-2020  
Draft 1, Issue 74 (July 2022)

**Not for publication. This document is part of the NSF standard development process. This draft text is for circulation for review and/or approval by a NSF Standards Committee and has not been published or otherwise officially adopted. All rights reserved. This document may be reproduced for informational purposes only.**

- restrictions on the source of greywater treated by the system, being either laundry or bathing water or both, as determined by the performance testing and evaluation requirements described herein; and
- the system classification of single-family residential (R), or multi-family or commercial (C), as determined by the performance testing and evaluation requirements described herein.

**5.10.3** A clearly visible label or plate that provides instructions for obtaining service shall be permanently located near the failure signal.

Tracking number 358-2i3r1  
© 2022 NSF International

Revision to NSF/ANSI 358-2 – 2017  
Issue 3, Revision 1 (July 2022)

**Not for publication. This document is part of the NSF standard development process. This draft text is for circulation for review and/or approval by an NSF Standards Committee and has not been published or otherwise officially adopted. All rights reserved. This document may be reproduced for informational purposes only.**

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

NSF/ANSI Standard  
for Plastics —

## Polypropylene Pipe and Fittings for Water-Based Ground-Source “Geothermal” Heat Pump Systems

- 
- 
- 

### 2 Normative references

The following documents contain provisions that, through reference, constitute provisions of this NSF Standard. At the time this Standard was balloted, the editions listed below were valid. All documents are subject to revision, and parties are encouraged to investigate the possibility of applying the recent editions of the documents indicated below. The most recent published edition of the document shall be used for undated references.

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

#### Normative References for Polypropylene Pipe and Fittings for Water-Based Ground-Source “Geothermal” Heat Pump Systems:

ASTM D2290-42 19a, Standard Test Method for Apparent Hoop Tensile Strength of Plastic or Reinforced Plastic Pipe by Split Disk Method

ASTM D2837-43 21, Standard Test Method for Obtaining Hydrostatic Design Basis for Thermoplastic Pipe Materials or Pressure Design Basis for Thermoplastic Pipe Products

ASTM D543-06 21, Standard Practices for Evaluating the Resistance of Plastics to Chemical Reagents

ASTM F1588-96 (204519), Standard Test Method for Constant Tensile Load Joint Test (CTLJT)

ASTM F412-4221, Standard Terminology Relating to Plastic Piping Systems

ASTM F2389-40 21, Standard Specification for Pressure-rated Polypropylene (PP) Piping Systems

- 
- 
-



Not for publication. This document is part of the NSF standard development process. This draft text is for circulation for review and/or approval by an NSF Standards Committee and has not been published or otherwise officially adopted. All rights reserved. This document may be reproduced for informational purposes only.

### 3 Definitions

- 
- 
- 

**3.8 joint:** The location at which two pieces of pipe or a pipe and a fitting are connected together. Various joint types not defined in this standard shall be defined by ASTM F412. Error! Bookmark not defined.

*Rationale: Definitions cannot contain requirements (shall). This has been moved to 5.4*

- 
- 
- 

### 5 General requirements

- 
- 
- 

#### 5.4 Joining

Joints between PP pipe and fittings shall be socket-fusion, butt-fusion, electrofusion, or fusion outlet in accordance with ASTM D2657.

Various joint types not defined in this standard shall be defined by ASTM F412.

### 7 Quality assurance

#### 7 Quality assurance

- 
- 
- 

##### 7.2.2 Qualification of molds

The test frequency indicated for fittings shall be used only after the mold has been qualified. In order for a new or retooled mold to be considered “qualified,” all products from all cavities in the mold shall attain compliance with all of the appropriate dimensions and tests. This does not include annual or semiannual tests. After qualification, the indicated test frequencies shall apply to one cavity per mold, rotating cavities within the mold, including start-ups. If any physical change is made to the mold itself, all cavities within the mold ~~must~~ shall be re-qualified.

*Rationale: “shall” is more in alignment with NSF policies for standards language*

Tracking number 359i5r1  
© 2022 NSF

Revision to NSF/ANSI 359-2018  
Issue 5, Revision 1 (July 2022)

Not for publication. This document is part of the NSF standard development process. This draft text is for circulation for review and/or approval by an NSF Standards Committee and has not been published or otherwise officially adopted. All rights reserved. This document may be reproduced for informational purposes only.

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

NSF/ANSI Standard  
for Plastics —

## Valves for Cross-linked Polyethylene (PEX) Water Distribution Tubing Systems.

- 
- 
- 

### 2 Normative references

The following documents contain provisions that, through reference, constitute requirements of this NSF Standard. All documents are subject to revision, and parties are encouraged to investigate the possibility of applying the recent editions of the documents indicated below.

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

ANSI/ISA-75.01.01-2012 – *Flow Equations for Sizing Control Valves Industrial-Process Control Valves - Part 2-1: Flow Capacity - Sizing Equations For Fluid Flow Under Installed Conditions*<sup>1</sup>

ASME A112.14.4 ASME A112.4.14-2017/CSA B125.14-2017 – *Manually Operated, Quarter-Turn Shutoff Valves for Use in Plumbing Systems*<sup>2</sup>

ASME A112.18.1-2018 Plumbing Supply Fittings

ASME B1.20.1 - 2013 – *Pipe Threads, General Purpose, Inch*<sup>2</sup>

ASME B16.22 - 2018 – *Wrought Copper and Copper Alloy Solder Joint Pressure Fittings*<sup>2</sup>

ASTM B858-06 (2012) – *Standard Test Method for Ammonia Vapor Test for Determining Susceptibility to Stress Corrosion Cracking in Copper Alloys*<sup>3</sup>

<sup>1</sup> The International Society of Automation (ISA). 67 Alexander Drive, P.O. Box 12277, Research Triangle Park, NC 77091 <www.isa.org>.

<sup>2</sup> American Society of Mechanical Engineers (ASME). Three Park Avenue, New York, NY 10016-5990 <www.asme.org>.

<sup>3</sup> American Society for Testing Materials (ASTM). 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 <www.astm.org>.

Tracking number 359i5r1  
© 2022 NSF

Revision to NSF/ANSI 359-2018  
Issue 5, Revision 1 (July 2022)

**Not for publication. This document is part of the NSF standard development process. This draft text is for circulation for review and/or approval by an NSF Standards Committee and has not been published or otherwise officially adopted. All rights reserved. This document may be reproduced for informational purposes only.**

ASTM D2846M-19a. *Standard Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Hot and Cold Water Distribution Systems*<sup>5</sup>

ASTM D6394-21a. *Standard Specification for Sulfone Plastics (SP)*<sup>5</sup>

ASTM F877-20. *Standard Specification for Crosslinked Polyethylene (PEX) Plastic Hot and Cold Water Distribution*<sup>5</sup>

ASTM F1498-08(2020). *Standard Specification for Taper Pipe Threads 60° for Thermoplastic Pipe and Fittings*<sup>5</sup>

ASTM F1807-19b. *Standard Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing*<sup>5</sup>

~~ASTM F1865. *Standard Specification for Mechanical Cold Expansion Insert Fitting With Compression Sleeve for Cross-linked Polyethylene (PEX) Tubing*<sup>5</sup>~~

*Rationale: Withdrawn by ASTM in 2018*

ASTM F1960-21. *Standard Specification for Cold Expansion Fitting with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing*<sup>5</sup>

~~ASTM F1961. *Standard Specification for Metal Mechanical Cold Flare Compression Fittings with Disc Spring for Cross-linked Polyethylene (PEX) Tubing*<sup>5</sup>~~

*Rationale: Withdrawn by ASTM in 2018*

ASTM F2080-19. *Standard Specification for Cold-Expansion Fittings With Metal Compression-Sleeves for Cross-Linked Polyethylene (PEX) Pipe and SDR9 Polyethylene of Raised Temperature (PE-RT) Pipe*<sup>5</sup>

ASTM F2159-21. *Standard Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing*<sup>5</sup>

ASTM F2434-19. *Standard Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR 9 cross-linked Polyethylene (PEX) Tubing and SDR9 Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene (PEX-AL-PEX) Tubing*<sup>5</sup>

ASTM F2735-21. *Standard Specification for Plastic Insert Fittings for SDR9 Cross-linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing*<sup>5</sup>

ASSE 1061-2020. *Performance Requirements for ~~Removable and Non-Removable~~ Push-Fit Fittings*<sup>4</sup>

NSF/ANSI 14. *Plastic Piping System Components and Related Materials*

NSF/ANSI 61. *Drinking Water Systems Components – Health Effects*

<sup>4</sup> American Society of Sanitary Engineering (ASSE) for Plumbing and Sanitary Research, 901 Canterbury Road, Suite A, Westlake, OH 44145-7201 <www.asse.org>.

# Draft PDS-02

## BSR/RESNET/ICC 301-2022 Addendum B-202x, CO<sub>2</sub>e Index

*Revise section 7. as follows:*

**7.3.4** Projected ~~CO<sub>2</sub>~~CO<sub>2</sub>e emissions for the home, calculated in accordance with Sections ~~57.1.2.2.1.1~~ and ~~57.1.2.2.1.4~~~~2~~.

*Revise section 8. as follows:*

**8. CO<sub>2</sub>e Rating Index.** The CO<sub>2</sub>e Index shall be calculated for the Rated Home in accordance with equation 8.1 using the provisions of Sections 8.1 through 8.4

**CO<sub>2</sub>e Index = ACO<sub>2</sub> / (ARCO<sub>2</sub> \* IAF<sub>RH</sub>) \* 100** (Equation 8-1) where:

ACO<sub>2</sub> = Annual hourly CO<sub>2</sub>e emissions from the Rated Home

ARCO<sub>2</sub> = Annual hourly CO<sub>2</sub>e emissions from the CO<sub>2</sub>e Index Reference Home

IAF<sub>RH</sub> = Index Adjustment Factor in accordance with Equation 4.3-2

- 8.1 The CO<sub>2</sub>e emission factors for household combustion fuel use shall be those given in Table 7.1.2(1).
- 8.2 The CO<sub>2</sub>e emission factors for electricity use shall be the levelized CO<sub>2</sub>e combined combustion and pre-combustion, end-use emission rates having 100-year IPCC 6<sup>th</sup> Assessment Report Global Warming Potential as calculated using the 2021 Cambium database<sup>1,2</sup> for the Low Renewable Energy Cost Scenario for the Long-Run Marginal month-hour CO<sub>2</sub>e emission rates (lmer\_co2e) for the applicable Cambium Grid and Emission Assessment (GEA) region in accordance with the local ZIP Code using equation 8-2 with a starting year of 2025.<sup>3,4,5</sup>

<sup>1</sup> (Normative Note) <https://cambium.nrel.gov/>

<sup>2</sup> (Normative Note) Gagnon, Pieter; Frazier, Will; Hale, Elaine, Cole, Wesley (2022): Long-run Marginal Emission Rates for Electricity - Workbooks for 2021 Cambium Data. National Renewable Energy Laboratory, Golden, CO. <https://data.nrel.gov/submissions/183>

<sup>3</sup> (Informative note) National Renewable Energy Laboratory (NREL) provides a spreadsheet tool for the calculation of levelized CO<sub>2</sub>e emission rates that can be accessed at <https://data.nrel.gov/submissions/183>.

<sup>4</sup> (Informative Note) RESNET provides a spreadsheet of the hourly emission factors and ZIP code mappings that meet these criteria that can be accessed ~~at~~ [https://www.resnet.us/wpcontent/uploads/RESNET\\_2021\\_CO<sub>2</sub>e\\_GEAdata.xlsx](https://www.resnet.us/wpcontent/uploads/RESNET_2021_CO2e_GEAdata.xlsx) <https://www.resnet.us/about/standards/otherstandards-resources/>.

<sup>5</sup> (Informative Note) These Cambium CO<sub>2</sub>e emission data are provided in units of kg/MWh.

$$LRMER_{levelized} = \frac{\sum_{t=0}^{n-1} LRMER_t (1+d)^t}{\sum_{t=0}^{n-1} \frac{1}{(1+d)^t}} \quad \text{(Equation 8-2)}$$

---

PDS02\_301-2022\_AdnB\_webcmnt

where:

$LRMER_t$  = long-run marginal emission rate for year  $t$

$d$  = real social discount rate = 0.03  $n$  = evaluation

period in years = 25

- 8.3 The CO<sub>2e</sub> emission factors shall be applied to the hourly Purchased Energy by fuel type for both the Rated Home and the CO<sub>2e</sub> Index Reference Home.
- 8.4 The CO<sub>2e</sub> Index Reference Home shall be identical to the Energy Rating Reference Home except that it shall use electricity for all energy end uses.



## BSR/UL 746C, Standard for Safety for Polymeric Materials – Use in Electrical Equipment Evaluations

### 1. Addition to Table 57.1 of Requirements for the Number of Baseline and Exposed Sets

#### PROPOSAL

**Table 57.1**  
**Physical-property test methods<sup>b</sup>**

Physical-property consideration	Material test method
Functional support	Tensile strength or Flexural strength <sup>a</sup>
Impact resistance	Tensile impact, Izod impact, or Charpy impact
Deformation resistance	Tensile strength and Elongation

<sup>a</sup> The ultraviolet-exposed side is to be in contact with the two loading points when using the three-point loading method.

<sup>b</sup> The unexposed and exposed set for physical-property measurements shall comprise of 10 and 5 specimens respectively.

### 2. Inclusion of Requirements for Tolerance for Water Immersion Test Exposure/Conditioning Time in Paragraph 58.1

#### PROPOSAL

#### 58 Water Exposure and Immersion Test

58.1 Using standard test procedures, property values for the material are to be determined both before and after the conditioning described below.

a) Specimens of the material shall be immersed in distilled or deionized water at  $70 \pm 2^\circ\text{C}$  ( $158 \pm 4^\circ\text{F}$ ) for ~~7 days~~  $168 \pm 2$  hours. A complete change of water is to be made on each of the first 5 days. Following the water conditioning, those specimens that are to be subjected to physical-property tests are to be immersed in distilled or deionized water at  $23 \pm 2^\circ\text{C}$  ( $73 \pm 4^\circ\text{F}$ ) for ~~4 1/2 hour~~ immediately  $30 \pm 1$  min prior to testing. Following the immersions, those specimens to be subjected to flammability tests are to be conditioned in air at  $23 \pm 2^\circ\text{C}$  ( $73 \pm 4^\circ\text{F}$ ) and  $50 \pm 10$  percent relative humidity for a minimum of 2 weeks, but not more than 30 days.

*Exception: For materials classed 5VA or 5VB or materials that are evaluated by Enclosure Flammability – 5 inch Flame Test, Section 52, the specimens shall be immersed in distilled or deionized water at  $82 \pm 2^\circ\text{C}$  ( $180 \pm 4^\circ\text{F}$ ) rather than  $70 \pm 2^\circ\text{C}$ .*

## BSR/UL 325, Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems

### 1. Relocation of Additional Feature Requirements to New Section Within Vehicular Gate Section

26.11 In the evaluation of entrapment protection circuits used in gate operators:

- a) The entrapment protection devices shall be operational,
- b) An alarm shall be present and functional for an operator with a Type A entrapment protection device,
- c) Monitor for the presence and correct operation of an external entrapment protection device, and
- d) A Class I or II operator for a horizontal slide gate or vertical lift gate shall not result in gate movement that exceeds that specified in ~~32.1.24~~ 32.3.2.

32.1.8 A gate operator installed in accordance with the manufacturer's instructions utilizing external entrapment protection designated Types B1 or B2 in Table 32.1 to comply with 32.1.1 by having provision for connection of such device (s), or providing such device (s) with the operator, shall monitor for the presence of every device at least once during each open and close cycle. Upon monitoring, should any device not be present, or a fault condition occur that precludes the sensing of an obstruction, including an interruption of the wireless signal to the wireless device or an open or short circuit in the wiring that connects the external entrapment device to the operator and the device's supply source, the operator shall function with constant pressure as required by 32.1.23 for the direction of travel being protected, or shall only be able to be moved manually as required by ~~32.1.25~~ 32.3.1. Compliance with this section shall be verified by test per 32.2.1.4.

~~32.1.24 A Class I or Class II horizontal slide gate or vertical lift gate operator (or system) shall not result in a gate movement of greater than 0.3 m/s (1 ft/s) with the operator exerting a pull force of 333.6 N (75 lbf) and when connected to a supply circuit of maximum rated voltage and rated frequency.~~

~~32.1.25 A vehicular gate operator shall have a means for manual operation so that the gate is capable of being moved independently of the gate operator. For a Class I, II, or III vehicular gate operator, the means for manual operation shall be supplied as an integral part of the gate operator and the gate operator shall be marked with instructions on how to manually operate the gate. For a Class IV vehicular gate operator, the use of a nearby keyed release or a remotely located non-keyed release to release the gate operator from the gate meets the intent of this requirement. A risk of injury to persons shall not result when the means for manual operation is activated and the gate operator is then energized.~~

### **32.3 Additional features**

32.3.1 A vehicular gate operator shall have a means for manual operation so that the gate is capable of being moved independently of the gate operator. For a Class I, II, or III vehicular gate operator, the means for manual operation shall be supplied as an integral part of the gate operator and the gate operator shall be marked with instructions on how to manually operate the gate per marking requirements in 63.4.2.1. For a Class IV vehicular gate operator, the use of a nearby keyed release or a remotely located non-keyed release to release the gate operator from the gate meets the intent of this requirement. A risk of injury to persons shall not result when the means for manual operation is activated and the gate operator is then energized.

32.3.2 A Class I or Class II horizontal slide-gate or vertical lift-gate operator (or system) shall not result in a gate movement of greater than 0.3 m/s (1 ft/s) with the operator exerting a pull force of 333.6 N (75 lbf) and when connected to a supply circuit of maximum rated voltage and rated frequency.

63.4.2.1 A gate operator shall be permanently marked with instructions on how to manually operate the gate.



63.4.9 The markings described in ~~63.4.3~~ 63.4.2.1 through 63.4.8 shall be located on the outside housing of the operator, control box, or control panel.

**UL copyrighted material. Not authorized for further reproduction without prior permission from UL.**

## **BSR/UL 343, Standard for Safety for Pumps for Oil-Burning Appliances**

### **1. Revision of requirements for metallic part materials in contact with biofuel**

#### **PROPOSAL**

##### **SA3 Materials**

*Modify 7.6 in UL 343 by adding the following:*

Metallic parts in contact with the fuel shall be constructed from materials containing not more than 10% lead, and not more than 40% zinc by weight and shall not have a coating or exposed plating containing such lead or zinc, and the use of threads or fasteners shall not expose metallic parts or plating containing such lead or zinc. Parts shall not deteriorate and shall perform their intended function, as identified by requirements and tests in this standard, when in contact with the pumped liquid.

*Exception 1: Coating and plating containing lead or zinc are permitted to be used on internal parts, provided that the base metal complies with the requirements of this standard.*

*Exception 2: For parts subject to wear and friction, the use of materials containing not more than 25% lead is permitted.*

ULSE Inc. copyrighted material. Not authorized for further reproduction without permission from ULSE Inc.

## BSR/UL 1072, Standard for Safety for Medium-Voltage Power Cables

## 1. Alignment of insulation thicknesses

## PROPOSAL

Table 15.1

Thicknesses, in mils, of XLPE, DREP, or EP insulation in 5 – 35 kV, shielded single- and multiple-conductor cable and of XLPE, EP, or DREP insulation in 2400 V, nonshielded multiple-conductor cable

Voltage rating of cable (phase-to-phase circuit voltage)	Conductor size (AWG or kcmil)	Insulation thickness (mils)					
		100 percent level <sup>a</sup>		133 percent level <sup>a</sup>		173 percent level <sup>a</sup>	
		Minimum at any point	Maximum at any point	Minimum at any point	Maximum at any point	Minimum at any point	Maximum at any point
2400	8 – 1000	85	120	–	–	–	–
	1001 – 2000	135	170	–	–	–	–
5000	8 – 1000	85	120	<del>85</del> <u>110</u>	<del>120</del> <u>145</u>	135	170
	1001 – 2000	135	170	135	170	135	170
5001 – 8000	6 – 1000	110	145	135	170	165	205
	1001 – 2000	165	205	165	205	210	250
8001 – 15000	2 – 1000	165	205	210	250	245	290
	1001 – 2000	210	250	210	250	245	290
15001 – 25000	1 – 2000	245	290	305	350	400	450
25001 – 28000	1 – 2000	265	310	330	375	425	<del>475</del> <u>495</u>
28001 – 35000	1/0 – 2000	330	375	400	<del>450</del> <u>460</u>	<del>555</del> <u>550</u>	<del>610</del> <u>630</u>

<sup>a</sup> The selection of the cable insulation level to be used is made on the basis of the fault current clearing times and other information as explained in the National Electrical Code (NEC) Table 310.64.

Table 15.2

Thicknesses, in mm, of XLPE, DREP, or EP insulation in 5 – 35 kV, shielded single- and multiple-conductor cable and of XLPE, EP, or DREP insulation in 2400 V, nonshielded multiple-conductor cable

Voltage rating of cable (phase-to-phase circuit voltage)	Conductor size (AWG or kcmil)	Insulation thickness (mm)					
		100 percent level <sup>a</sup>		133 percent level <sup>a</sup>		173 percent level <sup>a</sup>	
		Minimum at any point	Maximum at any point	Minimum at any point	Maximum at any point	Minimum at any point	Maximum at any point
2400	8 – 1000	2.16	3.05	–	–	–	–
	1001 – 2000	3.43	4.32	–	–	–	–
5000	8 – 1000	2.16	3.05	<del>2.16</del> <u>2.79</u>	<del>3.05</del> <u>3.68</u>	3.43	4.32
	1001 – 2000	3.43	4.32	3.43	4.32	3.43	4.32
5001 – 8000	6 – 1000	2.79	3.68	3.43	4.32	4.19	5.21
	1001 – 2000	4.19	5.21	<del>4.19</del>	5.21	5.33	6.35
8001 – 15000	2 – 1000	4.19	5.21	5.33	6.35	6.22	7.37
	1001 – 2000	5.33	<del>6.35</del>	5.33	6.35	6.22	7.37
15001 – 25000	1 – 2000	6.22	7.37	7.75	8.89	10.2	11.4
25001 – 28000	1 – 2000	6.73	7.87	8.38	9.53	10.8	<del>12.1</del> <u>12.6</u>
28001 – 35000	1/0 – 2000	8.38	9.53	10.2	<del>11.4</del> <u>11.7</u>	<del>14.1</del> <u>14.0</u>	<del>15.5</del> <u>16.0</u>

<sup>a</sup> The selection of the cable insulation level to be used is made on the basis of the fault current clearing times and other information as explained in the National Electrical Code (NEC) Table 310.64.

ULSE Inc. copyright material. Not authorized for further reproduction without permission from ULSE Inc.

**Table 55.1**  
**Partial-discharge extinction levels for semiconducting coating and tape designs only – see 55.1.1**

Voltage rating of cable (phase-to-phase circuit voltage)	Partial-discharge extinction level in kilovolts		
	100 percent insulation level	133 percent insulation level	173 percent insulation level
5000	4 <sup>a</sup>	5 <sup>a</sup>	6 <sup>a</sup>
8000	6	8	10
15000	11	15	18

a For the 5000-V rating, the insulation thicknesses are the same for the 133 percent insulation level as for the 100 percent insulation level and so insulation thickness is not an indication of the insulation level as it is for all of the other ratings (see thicknesses in Table 15.1 or Table 15.2). Unless the higher level is indicated by one of the following markings as covered in 70.1(b)(1), a 5000-V shielded circuit conductor is to be tested as being of the 100 percent insulation level (4-kV extinction level):

"133 percent insulation level"

"100 or 133 percent insulation level"

**Table 56.1**  
**A-C dielectric withstand rms test potential in kilovolts for shielded conductors**

Rated circuit voltage phase to phase	Conductor size AWG or kcmil	100 percent insulation level	133 percent insulation level	173 percent insulation level
2001 – 5000	8 – 1000	18	48 <u>23</u>	28
	1001 – 2000	28	28	28
5001 – 8000	6 – 1000	23	28	35
	1001 – 2000	35	35	44
8001 – 15000	2 – 1000	35	44	52
	1001 – 2000	44	44	52
15001 – 25000	1 – 2000	52	64	84
25001 – 28000	1 – 2000	56	69	89
28001 – 35000	1/0 – 2000	69	84	116

**BSR/UL 60745-2-3, Standard for Safety for Hand-Held Motor-Operated Electric Tools – Safety- Part 2-3: Particular Requirements for Grinders, Polishers and Disk-Type Sanders**

**1. Revise Cl. 20.101.1DV to allow for application of 62841-2-3 testing requirements**

**PROPOSAL**

20.101 All **WHEEL GUARDS** specified in accordance with 8.12.2 b) 104) shall have sufficient mechanical strength to prevent the wheel fragments from being ejected towards the operator in the event of the wheel breakage.

*Compliance is checked by submitting three samples of any recommended guard to the test specified in 20.101.1 to 20.101.4. At the manufacturer's discretion, the test may be conducted with three guards but less than three separate **GRINDERS**. After the test, the tool shall meet the acceptance criteria of 20.101.5.*

**20.101DV D2 Modification: Replace Clauses 20.101 – 20.101.5 of the Part 2 with Clauses 20.101 – 20.103 and Annex AA of CSA/UL 62841-2-3:**

**When CSA/UL 62841-2-3 clauses for the instruction manual are referenced in these clauses CSA C22.2 No. 62841-2-3 / UL 62841-2-3, the following cross-reference chart shall be used to properly apply the appropriate clause from CSA C22.2 No. 60745-2-3 / UL 60745 2-3.62841-2-3.**

**CSA/UL 62841-2-3 Cross-Reference to CSA/UL 60745-2-3**

<b>CSA/UL 62841-2-3 Instruction Manual Clauses</b>	<b>Equivalent CSA/UL 60745-2-3 Clause to be Used</b>
<b>8.14.2 a) 101)</b>	<b>8.12.2 a) 101) 8.12.2 b) 104)</b>
<b>8.14.2 a) 104)</b>	<b>8.12.2 a) 102)</b>
<b>8.14.2 b) 102)</b>	<b>8.12.2 b) 102)</b>
<b>8.14.2 b) 104)</b>	<b>8.12.2 a) 105)</b>

20.101.1 The guard shall be mounted and securely fixed to the **GRINDER** in accordance with the instructions of 8.12.2 b) 105). If the guard is adjustable, it shall be positioned as close as possible to 30° (in a range of ±10°) from the neutral or the symmetrical wheel covering position against the direction of the wheel's rotation or to its maximum setting if the adjustable range is less than 30°. See Figures 106A and 106B.

The maximum thickness grinding wheel recommended by the manufacturer with a diameter equal to the **RATED CAPACITY** of the **GRINDER** shall be mounted to the spindle in accordance with the instructions.

The **GRINDER** shall be operated at rated voltage and no-load for a minimum of 5 min. The speed of the wheel is measured and recorded.

**20.101.1DV D2 Modification: Delete Clause 20.101.1DV of the Part 2**  
**Replace the last two paragraphs of Clause 20.101.1DV of the Part 2 with the following:**

~~The requirements in the last two paragraphs do not apply.~~

~~Clause 20.101.1DV does not apply. See Clause 20.101DV.1 and 20.101DV.2.~~

20.101.2 A wheel as specified in 20.101.1 shall be notched into four equal segments (quadrants). For wheel Types 1, 27, 28, 29, 41 and 42, the cut is directed from the outer edge radially towards the centre (see Figure 107). For wheel Types 6 and Type 11, the cut starts across the working surface towards the mounting end (see Figure 108).

The width of each notch shall not exceed 2,5 mm. The extend of the notches shall allow for the centrifugal forces to cause the wheel to disintegrate at a speed equal to or greater than either the speed established in 20.101.1 or 90% of the **RATED SPEED** of the **GRINDER**, whichever is higher. The notched grinding wheel is mounted to the spindle in accordance with the instructions.

**NOTE** The following Table 102 provides typical pre-cut length ranges for standard wheel dimensions.

**20.101.2DV D2 Modification: Replace Delete Clause 20.101.2DV of the Part 2 with the following:**

~~The maximum thickness grinding wheel recommended by the manufacturer with a diameter equal to the rated capacity of the grinder shall be notched into four equal segments (quadrants). The width of each notch shall not exceed 2,5 mm. For WHEEL TYPES 1, 27, 28, 29, 41 and 42, the cut is directed from the outer edge radially towards the center (see Figure 107). For WHEEL TYPES 6 and Type 11, the cut starts across the working surface towards the mounting end (see Figure 108).~~

~~The notched grinding wheel is mounted to the spindle with any mounting means that will allow for the centrifugal forces to cause the wheel to disintegrate. The mounting means shall position the wheel at the same location relative to the guard as would occur with the flange recommended in accordance with the instructions in 8.12.2b).~~

~~Clause 20.101.2DV does not apply. See Clause 20.101DV.1 and 20.101DV.2.~~

20.101.4 While monitoring the wheel speed with a tachometer, the voltage to the tool is gradually increased until the speed specified in 20.101.2 is achieved. If the wheel does not disintegrate, stop the **GRINDER**, increase the length of the pre-cuts and repeat the test above until the wheel bursts.

*Dust, minor fragments and segments remaining in the guard are ignored. Most of the four major segments will be captured by the clay wall. If any of the major segments rebound from the clay, the segment's impression must be identified. Afterward, the segments of the wheel in the clay wall are removed.*

NOTE Typically, the wheel will burst within 5 min.

**20.101.4DV D2 Modification: Delete/Replace Clause 20.101.4DV of the Part 2 with the following :**

~~While monitoring the wheel speed with a tachometer, the voltage to the tool is gradually increased until the higher of the speeds established in 19.6 or 90 % of the RATED SPEED of the grinder is achieved. If the wheel does not disintegrate at this specified speed, at the manufacturer's option:~~

- ~~— either continue further increasing the speed; or~~
- ~~— stop the grinder, increase the length of the pre-cuts and repeat the test above until the wheel bursts at or above the speed specified in this clause.~~

~~Clause 20.101.4DV does not apply. See Clauses 20.101DV.1 and 20.101DV.2.~~

*20.101.5 The guard and the fasteners or the guard's mounting hardware shall remain in place. Deformation, hairline cracks or scratches and gouges to the guard and mounting hardware are acceptable.*

*As a result of the wheel's disintegration, the guard shall not have rotated in the direction of the wheel rotation by more than 90° (see Figures 106A and 106B). If the guard covers 360° of the wheel's periphery, the 90° limitation on the guard's rotation is not applicable.*

*The impression of the impact in the clay wall from the major segments shall be within the fragment zone. The fragment zone is defined by extending a straight line through the midpoints of the two side handles onto the clay wall facing the unguarded wheel in the position of the GRINDER just prior to the wheel bursting (see Figure 110A).*

**20.101.5DV D2 Delete Clause 20.101.5DV of the Part 2: National Difference Deleted**

**20.101.5DV.1 D2 Modification: Replace Clause 20.101.5 of this Part 2 with the following:**

~~Clause 20.101.1DV does not apply. See Clause 20.101DV.1 and 20.101DV.2.~~



## BSR/UL 122701, Standard for Safety for Requirements for Process Sealing Between Electrical Systems and Flammable or Combustible Process Fluids

### 1. Revisions to align temperature and fatigue cycling requirements with those found in IEC TS 60079-40 and related adoptions.

#### PROPOSAL

##### 6.2.2 Temperature cycling

6.2.2.1 For equipment incorporating seals with non-metallic parts excluding glass and ceramic, a representative sample of the seal shall be subjected to temperature cycling conditioning as follows:

Duration:	Two (2) weeks or 150 cycles (whichever occurs first)
Maximum Temperature ( $T_{max}$ ):	Manufacturer's maximum rated process seal temperature increased by 10 to 15 K
Minimum Temperature ( $T_{min}$ ):	Manufacturer's minimum rated process seal temperature reduced by 10 to 15 K <u>5 to 10 K</u>
Stabilization:	The test temperature is considered to have stabilized when the rate of change of temperature does not exceed 2 K/h

If the seal is incorporated into equipment that assures the temperature of the seal is maintained such that the maximum fluctuation is limited to 10 K, the temperature cycling test may be waived.

6.2.3.1 Seals shall be fatigue cycled. A representative sample of the seal shall be cyclically pressurized and depressurized as follows:

Duration:	At least 100,000 cycles
Maximum Pressure ( $P_{max}$ ):	Manufacturer's rated maximum working pressure
Minimum Pressure ( $P_{min}$ ):	Manufacturer's rated minimum working pressure (vacuum applications)
Dwell Time:	Equipment rated for vacuum applications:
	<hr/> First 10,000 cycles: At least 1 minute at $P_{max}$ followed by at least 1 <del>second</del> <u>minute</u> at $P_{min}$ Remaining 90,000 cycles: At least 5 seconds at $P_{max}$ followed by at least 5 seconds at $P_{min}$
	Equipment not rated for vacuum applications:
	<hr/> First 10,000 cycles: At least 1 minute at $P_{max}$ followed by at least 1 second at $P_{min}$ Remaining 90,000 cycles: At least 5 seconds at $P_{max}$ followed by at least 5 seconds <u>1 second</u> at $P_{min}$