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# Project Initiation Notification System (PINS)

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

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## **ASTM (ASTM International)**

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

### ***New Standard***

BSR/ASTM WK85075-202x, New Practice for Uncertainty Estimation of Quantitative Measurements in the Analysis of Seized-Drugs (new standard)

Stakeholders: Criminalistics Industry.

Project Need: In forensic science, it is critical to assess/estimate the uncertainty associated with measurements and disclose the existing limitations regarding these measurements.

Interest Categories: Interest Categories: Producer, User, General Interest.

Scope: This standard provides minimum requirements for the estimation of uncertainty for quantitative measurements in the analysis of seized-drugs.

## **ASTM (ASTM International)**

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

### ***New Standard***

BSR/ASTM WK85254-202x, New Guide for Photovoltaic (PV) Soiling Methodologies (new standard)

Stakeholders: Photovoltaic Electric Power Conversion Industry.

Project Need: To provide explanation and terminology associated with making measurements of PV soiling and interpreting the data.

Interest Categories: Interest Categories: Producer, User, General Interest.

Scope: A recent IEA Task 13 report estimated global economic losses in solar energy to be ~7 Billion Euros. While the problem appears to be pervasive, there are no standards providing guidance or any clarity on the various methodologies and what can be expected from the data. Further, there are sizeable problems relating the resource assessment (preconstruction) data with operational (post construction) data as well as the spatial heterogeneity of soiling across a project.

**BHMA (Builders Hardware Manufacturers Association)**

Karen Bishop <[Kbishop@Kellencompany.com](mailto:Kbishop@Kellencompany.com)> | 355 Lexington Avenue, 15th Floor | New York, NY 10017-6603 www.buildershardware.com

**Revision**

BSR/BHMA A156.11-202x, Standard for Cabinet Locks (revision of ANSI/BHMA A156.11-2019)

Stakeholders: Consumers, Door and Hardware Manufacturers, Building and Construction.

Project Need: Adding additional product functions/types and test methods and other information.

Interest Categories: User, Government, General Interest, Testing Laboratory, Producer.

Scope: This standard establishes requirements for Cabinet Locks used on doors, drawers and furniture. Cycle tests, operational tests, strength tests and finish tests are included.

**CTA (Consumer Technology Association)**

Catrina Akers <[cakers@cta.tech](mailto:cakers@cta.tech)> | 1919 South Eads Street | Arlington, VA 22202 www.cta.tech

**New Standard**

BSR/CTA 2121-202x, Definitions and Best Practices for Monitoring Stress Using Heart Rate Variability in the Real-World (new standard)

Stakeholders: Consumers, health and fitness device manufacturers, users.

Project Need: Develop definitions and best practices for monitoring stress using HRV.

Interest Categories: Users, producers, general interest.

Scope: This standard defines and provides best practices for utilization of heart rate beat to beat interval data from consumer stress monitoring technologies for application of stress metrics in a real-world setting.

**CTA (Consumer Technology Association)**

Catrina Akers <[cakers@cta.tech](mailto:cakers@cta.tech)> | 1919 South Eads Street | Arlington, VA 22202 www.cta.tech

**New Standard**

BSR/CTA 2122-202x, Best Practices for Consumer EEG Technologies (new standard)

Stakeholders: Consumers, health and fitness device manufacturers and users.

Project Need: Definitions of common hardware elements and best practices for consumer EEG technologies.

Interest Categories: Users, producers and general interest

Scope: This document will define common hardware elements and provide best practices for consumer EEG technologies.

**RVIA (Recreational Vehicle Industry Association)**

Tyler Reamer <[treamer@rvia.org](mailto:treamer@rvia.org)> | 2465 J-17 Centreville Road, #801 | Herndon, VA 20171 [www.rvia.org](http://www.rvia.org)

**Revision**

BSR/RVIA UPA-1-202x, Uniform Plan Approval Recreational Vehicles (revision of ANSI/RVIA UPA-1-2019)

Stakeholders: RV manufacturers, RV suppliers on components, Authorities Having Jurisdiction that have RV code oversight programs, RV Associations, RV Campgrounds & Parks, RV dealers and RV consumers.

Project Need: There is a need to provide a uniform and systematic process for the submittal of required technical information to assure that all safety related requirements addressed by the RV adopted standards are clearly identified and included in the plans. This in turn assures a reasonable degree of safety and health for occupants using recreational vehicles.

Interest Categories: User, Producer, General Interest, Independent Expert, Distributor, Insurance, Government, Testing Lab.

Scope: This standard addresses plan approval requirements that specifically address the plumbing, electric, mechanical equipment, and components installed and located in recreational vehicles and outlines the criteria on how such plans are to be submitted for approval to authorities having jurisdiction or their agent.

**ULSE (UL Standards & Engagement)**

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

**New Standard**

BSR/UL 2930-202x, Standard for Cord-and-Plug-Connected Health Care Facility Outlet Assemblies (new standard)

Stakeholders: Medical field, electrical component manufacturers, electrical component distributors, installers.

Project Need: Current requirements do not address redundant bonding/grounding connections identified in NFPA 70 Article 517 between the facility electrical system and the patient via the cord/plug assembly.

Interest Categories: Supply Chain, Producer, General Interest, Testing & Standards, AHJ-Regulator, Commercial Industrial User.

Scope: These requirements cover indoor-use cord-and-plug-connected Health Care Facility receptacle outlet assemblies (HCOA) rated 250 V AC or less and 20 Amperes or less. HCOA are for use as a movable power supply connection for cord-and-plug-connected medical electrical utilization equipment in accordance with the National Electric Code, NFPA 70, Article 517 Health Care Facilities, and with NFPA 99, Health Care Facilities Code, for use in Category 2 (General Patient Care) Spaces or Category 1 (Critical Patient Care) Spaces, including Patient Care Vicinities equipped with Patient Equipment Grounding Points and an Attachment Plug with an Integral Patient Equipment Grounding Connection.

**ULSE (UL Standards & Engagement)**

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

***New Standard***

BSR/UL 6288-202X, Standard for Safety for Decorative Lighting Cords (new standard)

Stakeholders: Manufacturers of: decorative cord, decorative lighting, flexible lighting, seasonal & holiday decorative products, as well as consumer users of the product. Supply chain providing decorative cord for manufactured end product.

Project Need: The requirements for decorative cords are currently in the trinationally harmonized standard for Flexible Cords and Cables, CSA C22.2 No. 49/UL 62/NMX-J-436-ANCE. New decorative cord types are being requested at a faster rate than for other types of flexible cords. The needs of the decorative lighting industry are different than those of the typical flexible cord industry and the harmonization process hinders the process for making changes to the trinational standard. A new Standards for decorative cords will allow for a more targeted and responsive approach to Standards development and maintenance.

Interest Categories: Producer, supply chain, general, testing & standards and commercial/industrial users.

Scope: Requirements in the standard will apply to flexible cords intended for use in or with decorative lighting products and are rated 300 V maximum and are intended for use in accordance with NFPA 70, National Electrical Code (NEC), in the United States.

# Call for Comment on Standards Proposals

## American National Standards

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

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

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

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

\* Standard for consumer products

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## Comment Deadline: March 26, 2023

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

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

### Addenda

BSR/ASHRAE Addendum 62.2a-202x, Ventilation and Acceptable Indoor Air Quality in Residential Buildings (addenda to ANSI/ASHRAE Standard 62.2-2022)

Standard 62.2 has recently revised the minimum filtration requirement. This proposed addendum simplifies the filtration credit available in Section 4.1.4, Ventilation-Rate Reduction for Particle Filtration. Currently this section allows a wide range of filter efficiencies to qualify. This addendum proposes to narrow that range and significantly simplify the section. Other than eliminating the credit for low-performing filters, this revision does not substantially change the effect of this section. New Section 7.6, Filtered Air Delivery Rate, establishes the minimum qualifying filter that is allowed to get credit for PM reductions. (A qualifying filter is roughly MERV 13 or better depending on which test method is used.) The section then calculates the Particle Reduction Factor (PRF) resulting from the design of the system. The equation for PRF is based on the continuity equation (i.e., mass balance) with and without additional air cleaning; it assumes typical values for 62.2-compliant air change rates and particle deposition rates. New references are cited in this revision and those are listed to be added to Section 10.

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

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

## Comment Deadline: March 26, 2023

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

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

#### **Addenda**

BSR/ASHRAE/IES Addendum f to BSR/ASHRAE/IES Standard 90.2-202x, High-Performance Energy Design of Residential Buildings (addenda to ANSI/ASHRAE Standard 90.2-2018)

This addendum proposes a new requirement for the highest CO<sub>2</sub>e index allowed for dwelling units, in addition to the existing ERI requirements. Both the ERI and CO<sub>2</sub>e index would be determined through an energy simulation in accordance with the latest ANSI/RESNET/ICC Standard 301.

[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>

### **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 6-202x (i23r1), Dispensing Freezers (revision of ANSI/NSF 6-2021)

This standard contains requirements for the following equipment: dispensing freezers that process and freeze previously pasteurized product (e.g., soft ice cream, ice milk, yogurt, malts, custards) and dispense it directly into the consumer's container; dispensing freezers that dispense premanufactured frozen product (e.g., ice cream) directly into the consumer's container; and batch dispensing freezers.

[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 385 (i15r1)-202x, Disinfection Mechanics (revision of ANSI/NSF 385-2021)

This Standard is intended for use with devices intended to disinfect wastewater after secondary treatment and prior to discharge from residential wastewater treatment systems having rated treatment capacities between 757 LPD (200GPD) and 5,678 LPD (1,500 GPD).

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

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

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

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

#### **Revision**

BSR/UL 20-202x, Standard for General-Use Snap Switches (revision of ANSI/UL 20-2021)

Recirculation of the following topics balloted August 12, 2022: (4) Spring Action Clamp Terminal; (5) Separable Terminal Assembly Construction.

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

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

## Comment Deadline: March 26, 2023

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 2904-202x, Standard Method for Testing and Assessing Particle and Chemical Emissions from 3D Printers (revision of ANSI/UL 2904-2019)

General updates to the Standard

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: <https://csds.ul.com/Home/ProposalsDefault.aspx>

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 9540-202x, Standard for Safety for Energy Storage Systems and Equipment (revision of ANSI/UL 9540-2020)

1. Revisions to Marking Criteria and Inclusion of AC and DC ESS Concepts. 5. Clarification of Impulse waveform in 29.2. 14. Addition of references to component standards. 15. Revisions for flywheel ESS throughout the Standard.

[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: April 10, 2023

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

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

#### Reaffirmation

BSR/AAMI BP22-1994 (R202x), Blood pressure transducers (reaffirmation of ANSI/AAMI BP22-1994 (R2016))  
This standard provides performance and safety requirements for transducers, including cables, designed for blood pressure measurements through an indwelling catheter or direct puncture, and provides disclosure requirements to permit the user to determine the compatibility between the transducer and blood pressure monitor. This standard is a combined revision of two standards (ANSI/AAMI BP22-1986 and ANSI/AAMI BP23-1986.)

Single copy price: Free

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Ladan Bulookbashi <[LBulookbashi@aami.org](mailto:LBulookbashi@aami.org)>



## Comment Deadline: April 10, 2023

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

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

#### **Reaffirmation**

BSR/AAMI CI86-2017 (R202x), Cochlear Implant Systems: Requirements for Safety, Functional Verification, Labeling and Reliability Reporting (reaffirmation of ANSI/AAMI CI86-2017)

This standard specifies requirements, test procedures, methods and labeling for active implantable medical devices intended to treat hearing impairment by means of electrical stimulation of the cochlea. Such devices are referred to as cochlear implants or cochlear prostheses. This standard is also applicable to non-implantable parts and accessories of the devices, including fitting and diagnostic components.

Single copy price: Free

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Ladan Bulookbashi <[LBulookbashi@aami.org](mailto:LBulookbashi@aami.org)>

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

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

#### **Reaffirmation**

BSR/AAMI NS4-2013 (R202x), Transcutaneous electrical nerve stimulators (reaffirmation of ANSI/AAMI NS4-2013 (R2017))

This standard establishes labeling, safety, and performance requirements and referee tests for transcutaneous electrical stimulators (including TENS) intended for use in the treatment of pain syndrome. Also covered are labeling requirements for patient leads and electrodes.

Single copy price: Free

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Ladan Bulookbashi <[LBulookbashi@aami.org](mailto:LBulookbashi@aami.org)>

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

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

#### **Reaffirmation**

BSR/ANS 15.1-2007 (R202x), The Development of Technical Specifications for Research Reactors (reaffirmation of ANSI/ANS 15.1-2007 (R2018))

This standard identifies and establishes the content of technical specifications for research reactors. Areas addressed are: Definitions, Safety Limits, Limiting Safety System Settings, Limiting Conditions for Operation, Surveillance Requirements, Design Features, and Administrative Controls, Sufficient detail is incorporated so that applicable specifications can be derived or extracted.

Single copy price: \$25.00

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

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

## Comment Deadline: April 10, 2023

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

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

#### **Withdrawal**

ANSI/ASA S1.14-1998 (R2018), Recommendations for the Specifying and Testing the Susceptibility of Acoustical Instruments to Radiated Radio-Frequency Electromagnetic Fields, 25 MHz to 1 GHz (withdrawal of ANSI ASA S1.14-1998 (R2018))

This Standard provides recommendations for specifying and testing the susceptibility of acoustical instruments to radiated radio-frequency electromagnetic fields. This Standard does not contain recommendations regarding the susceptibility of an instrument to conducted electromagnetic fields, or recommendations to limit the emission of electromagnetic fields from instruments. The Standard covers two ranges of radio frequencies for the carrier signal: 25 MHz to 500 MHz, and an extended range from 25 MHz to 1 GHz. Recommended maximum electric field strengths for the radio-frequency field are 3 V/m, 10 V/m, and 61.4 V/m. An electric field strength greater than 61.4 V/m may be selected for specific applications. The Standard recommends limits, relative to the overall performance category of an acoustical instrument, of allowable deviation from nominal performance in the absence of a radiofrequency field.

Single copy price: \$110.00

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

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

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

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

#### **Reaffirmation**

BSR/ASA S2.72-2003/Part 4 (R202x)/ISO 2631-4-2001 (R202x), Mechanical Vibration and Shock - Evaluation of Human Exposure to Whole Body Vibration - Part 4: Guidelines for the Evaluation of the Effects of Vibration and Rotational Motion on Passenger and Crew Comfort in Fixed-Guideway Transport Systems (a nationally adopted international standard) (reaffirm a national adoption ANSI/ASA S2.72-2003/Part 4 (R2018)/ISO 2631-4-2001 (R2018))

The purpose of this part of ANSI S2.72 / ISO 2631 is to help in the design and evaluation of fixedguideway passenger systems, with regard to the impact of vibration and repetitive motions on passenger comfort. Fixed-guideway vehicles provide a predictable but complex multi-axis motion environment that is a function of the guideway, vehicle and seat or berth. Passengers evaluate ride comfort not only based on motion but also on their expectations with regard to the class of service that they have purchased. The duration of the trip has not been demonstrated to be a direct factor in predicting comfort (with the possible exception of kinetosis), but the anticipated duration of the trip is related to the types of activities passengers expect to accomplish while on board. Passengers on trips of more than a few minutes may expect to read, write, eat and drink; on trips of longer duration they will expect to sleep. To the extent that ride-induced vibration interferes with these activities, passengers may rate differently the comfort of vehicles with the same motion environment but different expected levels of service or different trip durations. Passengers are likely to judge comfort based on the interaction of vibration with factors such as acoustic noise, temperature, humidity, air quality and seat design.

Single copy price: \$74.00

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

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

## Comment Deadline: April 10, 2023

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

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

#### Reaffirmation

BSR/ASA S2.72/Part 4 Amd. 1-2010/ISO 2631-4 Amd. 1:2010 (R202x), Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration - Part 4: Guidelines for the evaluation of the effects of vibration and rotational motion on passenger and crew comfort in fixed-guideway transport systems, Amendment 1 (a nationally adopted international standard--Amendment) (reaffirm a national adoption ANSI/ASA S2.72/Part 4 Amd. 1-2010/ISO 2631-4 Amd. 1:2010 (R2018))

This amendment to ANSI S2.72-2003/Part 4 / ISO 2631-4:2001 (R2007) incorporates a new Annex B "Statistical analysis method." This annex cancels and replaces ISO 10056:2001 Mechanical vibration – Measurement and analysis of whole-body vibration to which passengers and crew are exposed in railway vehicles.

Single copy price: \$35.00

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

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

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

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

#### Reaffirmation

BSR/ASA S3.1-1999 (R202x), Maximum Permissible Ambient Noise Levels for Audiometric Test Rooms (reaffirmation of ANSI/ASA S3.1-1999 (R2018))

This Standard specifies maximum permissible ambient noise levels (MPANLs) allowed in an audiometric test room that produce negligible masking (less than or equal to 2 dB) of test signals presented at reference equivalent threshold levels specified in ANSI S3.6-1996 standard Specification of Audiometers. The MPANLs are specified from 125 to 8000 Hz in octave and one-third octave band intervals for two audiometric testing conditions (ears covered and ears not covered) and for three test frequency ranges (125 to 8000 Hz, 250 to 8000 Hz, and 500 to 8000 Hz). The Standard is intended for use by all persons testing hearing and for distributors, installers, designers, and manufacturers of audiometric test rooms. This standard is a revision of ANSI S3.1-1991 standard Maximum Permissible Ambient Noise Levels for Audiometric Test Rooms.

Single copy price: \$110.00

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

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

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

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

#### Reaffirmation

BSR/ASABE/ISO 12188-2-2015 (R202x), Tractors and machinery for agriculture and forestry - Test procedures for positioning and guidance systems in agriculture - Part 2: Testing of satellite-based auto-guidance systems during straight and level travel (reaffirm a national adoption ANSI/ASABE/ISO 12188-2-2015 (R2019))

This standard specifies the process for evaluating and reporting the performance of agricultural vehicles equipped with automated guidance systems (AGS) based on a global navigation satellite system (GNSS) when operating in an automatic steering mode.

Single copy price: \$78.00

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Jean Walsh <[walsh@asabe.org](mailto:walsh@asabe.org)>

## Comment Deadline: April 10, 2023

### **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 111-202x, Measurement, Testing, Adjusting and Balancing of Building Heating, Ventilation and Air-Conditioning Systems (revision of ANSI/ASHRAE Standard 111-2008 (R2017))

This revision of ANSI/ASHRAE Standard 111-2008 provides uniform procedures for measurement, testing, adjusting, balancing, evaluating, and reporting the performance of building heating, ventilating, and air conditioning systems in the field.

Single copy price: \$35.00

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

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

### **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**

BSR/ASME BTH-1-202x, Design of Below-the-Hook Lifting Devices (revision of ANSI/ASME BTH-1-2020)

This Standard provides minimum structural, mechanical, and electrical design criteria for ASME B30.20, Below-the-Hook Lifting Devices. The provisions in this Standard apply to the design or modification of below-the-hook lifting devices. Compliance with requirements and criteria that may be unique to specialized industries and environments is outside the scope of this Standard. Lifting devices designed to this Standard shall comply with ASME B30.20, Below-the-Hook Lifting Devices. ASME B30.20 includes provisions that apply to the marking, construction, installation, inspection, testing, maintenance, and operation of below-the-hook lifting devices. The provisions defined in this Standard address the most common and broadly applicable aspects of the design of below-the-hook lifting devices. A qualified person shall determine the appropriate methods to be used to address design issues that are not explicitly covered in the Standard so as to provide design factors and/or performance consistent with the intent of this Standard.

Single copy price: Free

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Elijah Dominguez <[domingueze@asme.org](mailto:domingueze@asme.org)>

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

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

#### **Revision**

BSR/ASSP A10.19-202X, Safety Requirements for Pile Installation and Extraction Operations (revision and redesignation of ANSI ASSE A10.19-2017)

This standard establishes safety requirements for the installation and extraction of piles during construction and demolition operations.

Single copy price: \$110.00

Obtain an electronic copy from: Tim Fisher at [TFisher@ASSP.Org](mailto:TFisher@ASSP.Org)

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

## Comment Deadline: April 10, 2023

### **BHMA (Builders Hardware Manufacturers Association)**

17 Faulkner Drive, Niantic, CT 06357 | [mtierney@kellencompany.com](mailto:mtierney@kellencompany.com), [www.buildershardware.com](http://www.buildershardware.com)

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

BSR/BHMA A156.43-202x, Standard for Integrated Sliding Door Opening Assemblies (new standard)

This Standard establishes requirements for Integrated Sliding Door Opening Assemblies supplied complete and ready to install with all integral hardware. At a minimum, they shall include a door panel, and hanging device.

Performance requirements include operational, cycle, and abuse tests.

Single copy price: \$36.00

Obtain an electronic copy from: [mtierney@kellencompany.com](mailto:mtierney@kellencompany.com)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Michael Tierney <[mtierney@kellencompany.com](mailto:mtierney@kellencompany.com)>

### **BHMA (Builders Hardware Manufacturers Association)**

355 Lexington Avenue, 15th Floor, New York, NY 10017-6603 | [Kbishop@Kellencompany.com](mailto:Kbishop@Kellencompany.com), [www.buildershardware.com](http://www.buildershardware.com)

#### ***Revision***

BSR/BHMA A156.16-202x, Standard for Auxiliary Hardware (revision of ANSI/BHMA A156.16-2013 (R2018))

This Standard establishes requirements for auxiliary hardware and includes performance tests covering operational, cyclical, and strength.

Single copy price: \$36.00 non-member, \$18.00 member

Obtain an electronic copy from: [KBishop@kellencompany.com](mailto:KBishop@kellencompany.com)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Karen Bishop <[Kbishop@Kellencompany.com](mailto:Kbishop@Kellencompany.com)>

### **BHMA (Builders Hardware Manufacturers Association)**

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#### ***Revision***

BSR/BHMA A156.28-202x, Recommended Practices for Mechanical Keying Systems (revision of ANSI/BHMA A156.28-2013 (R2018))

This recommended practice is intended for building owners, security professionals and others responsible for designing, implementing, and maintaining secure keying systems. It covers system design, to provide design criteria to establish and maintain a secure keying system.

Single copy price: \$36.00

Obtain an electronic copy from: [mtierney@kellencompany.com](mailto:mtierney@kellencompany.com)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Michael Tierney <[mtierney@kellencompany.com](mailto:mtierney@kellencompany.com)>

### **BHMA (Builders Hardware Manufacturers Association)**

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#### ***Revision***

BSR/BHMA A156.32-202x, Standard for Integrated Swinging Door Opening Assemblies (revision of ANSI/BHMA A156.32-2014)

This Standard establishes requirements for Integrated Swinging Door Opening Assemblies supplied complete and ready to install with all integral hardware. At a minimum, they shall include a door panel, hanging device and latching mechanism. Performance requirements include operational, cycle, and abuse and optional security tests.

Single copy price: \$36.00

Obtain an electronic copy from: [mtierney@kellencompany.com](mailto:mtierney@kellencompany.com)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Michael Tierney <[mtierney@kellencompany.com](mailto:mtierney@kellencompany.com)>

## Comment Deadline: April 10, 2023

### FM (FM Approvals)

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#### Revision

BSR/FM 3260-202x, Energy-Sensing Fire Detectors for Automatic Fire Alarm Signaling (revision of ANSI/FM 3260-2014)

This standard sets performance requirements for radiant energy-sensing fire detectors used for automatic fire alarm signaling for the protection of occupants, building space, structure, area, or object.

Single copy price: Free

Obtain an electronic copy from: [josephine.mahnken@fmaprovals.com](mailto:josephine.mahnken@fmaprovals.com)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Josephine Mahnken <[josephine.mahnken@fmaprovals.com](mailto:josephine.mahnken@fmaprovals.com)>

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

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

#### Revision

BSR/ASSE 1022-202x, Performance Requirements for Backflow Preventer for Beverage Dispensing Equipment (for carbonated and non-carbonated) (revision of ANSI/ASSE 1022-2020)

This standard covers a backflow prevention device designed to protect the potable water supply serving beverage dispensing equipment. These devices are intended for use under continuous or intermittent pressure conditions.

Single copy price: Free

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: George Istefan <[standards@iapmostandards.org](mailto:standards@iapmostandards.org)>

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#### Revision

BSR/ASSE 1024-202x, Performance Requirements for Dual Check Backflow Preventers (revision of ANSI/ASSE 1024-2017 (R2021))

This standard applies to devices classified as dual check backflow preventers (herein referred to as "device"). The purpose of this device is to keep polluted water from flowing back into the potable water system when pressure is temporarily higher in the polluted part of the system than in the potable water piping. The devices covered by this standard are intended to protect the potable water supply from low hazard pollution at residential service lines and individual outlets. These devices are intended for continuous or intermittent pressure conditions with cold water service. Usage with hot water is limited to the temperature specified by the manufacturer. The purpose of this device is to keep polluted water from flowing back into the potable water system when pressure is temporarily higher in the polluted part of the system than in the potable water piping. The devices covered by this standard are intended to protect the potable water supply from low hazard pollution at residential service lines and individual outlets. These devices are intended for continuous or intermittent pressure conditions with cold water service. Usage with hot water is limited to the temperature specified by the manufacturer.

Single copy price: Free

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: George Istefan <[standards@iapmostandards.org](mailto:standards@iapmostandards.org)>

## Comment Deadline: April 10, 2023

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

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#### **Revision**

BSR/ASSE 1032-202x, Performance Requirements for Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers, Post Mix Type (revision of ANSI/ASSE 1032-2011 (R2021))  
Dual check valve type backflow preventers (for carbonated beverage dispensers, post mix type), herein referred to as “device,” prevent carbon dioxide gas and carbonated water from backflowing into the potable water system which supplies the carbonating unit. These devices operate under continuous or intermittent pressure conditions. These devices consist of two (2) independently acting check valves internally force loaded to a normally closed position and designed to operate under intermittent or continuous pressure conditions.

Single copy price: Free

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

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#### **Revision**

BSR/CAN/ASSE/IAPMO 1055-202x, Performance Requirements for Chemical Dispensers with Integral Backflow Protection (revision of ANSI/CAN/ASSE/IAPMO 1055-2020)

Chemical dispensing systems (herein referred to as the “device”) provide a means of mixing potable water with chemicals to provide the user with a chemical solution which is ready for use. The amount of dilution shall be fixed or adjustable. Devices covered by this standard are intended for stationary installations, mobile devices where the orientations are fixed, and handheld devices.

Single copy price: Free

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### **IES (Illuminating Engineering Society)**

120 Wall Street, Floor 17, New York, NY 10005-4001 | [pmcgillicuddy@ies.org](mailto:pmcgillicuddy@ies.org), [www.ies.org](http://www.ies.org)

#### **New Standard**

BSR/IES RP-46-202x, Recommended Practice: Supporting the Physiological and Behavioral Effects of Lighting in Interior Daytime Environments (new standard)

This RP seeks to translate the circadian, neuroendocrine, and neurobehavioral responses to light, summarized as physiological responses, mediated by the intrinsically photosensitive retinal ganglion cells (ipRGCs) for application of white light in indoor interior daytime environments. This RP is designed for use in parallel with the many existing recommendations for lighting intended to optimize visual function. Lighting designers and practitioners should, therefore, continue to ensure that all designs provide sufficient light to meet visual requirements, after which the impact of lighting for physiological responses shall be considered.

Single copy price: \$25.00

Obtain an electronic copy from: [pmcgillicuddy@ies.org](mailto:pmcgillicuddy@ies.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Patricia McGillicuddy <[pmcgillicuddy@ies.org](mailto:pmcgillicuddy@ies.org)>

## Comment Deadline: April 10, 2023

### **NEMA (ASC C119) (National Electrical Manufacturers Association)**

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

#### **Revision**

BSR C119.1-202x, Electric Connectors - Sealed Insulated Underground Connector Systems Rated 600 Volts (revision of ANSI C119.1-2016)

This standard covers sealed, insulated underground connector systems rated at 600 V for utility applications. The standard establishes electrical, mechanical, and sealing requirements for sealed insulated underground connector systems. The standard also establishes the additional requirements for their use in overhead outdoor applications.

Single copy price: Free

Obtain an electronic copy from: [pau\\_orr@nema.org](mailto:pau_orr@nema.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Paul Orr <[Pau\\_orr@nema.org](mailto:Pau_orr@nema.org)>

### **NEMA (ASC C136) (National Electrical Manufacturers Association)**

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

#### **Revision**

BSR C136.31-202X, Roadway and Area Lighting Equipment - Luminaire Vibration (revision of ANSI C136.31-2018)

This Standard covers the minimum vibration withstand capability and vibration test methods for roadway and area luminaires. This Standard is not intended to address natural or catastrophic disasters.

Single copy price: \$62.00

Obtain an electronic copy from: [david.richmond@nema.org](mailto:david.richmond@nema.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: David Richmond <[David.Richmond@nema.org](mailto:David.Richmond@nema.org)>

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

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

#### **Revision**

BSR ICEA T-26-465/NEMA WC 54-202x, Guide for Frequency of Sampling Extruded Dielectric Power, Control, Instrumentation, and Portable Cables for Test (revision of ANSI/ICEA T-26-465/NEMA WC 54-2013)

This guide provides a combination of plans for the frequencies at which cable samples may be obtained for tests to determine conformance to the appropriate requirements of ICEA Standards Publications. Valid statistical sampling frequencies other than those listed herein are acceptable if evidence of statistical control can be demonstrated. This guide applies only to extruded dielectric power, control, instrumentation, and portable cables.

Single copy price: \$100.00

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Khaled Masri <[Khaled.Masri@nema.org](mailto:Khaled.Masri@nema.org)>



## Comment Deadline: April 10, 2023

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

One Batterymarch Park, Quincy, MA 02169 | [dbellis@nfpa.org](mailto:dbellis@nfpa.org), [www.nfpa.org](http://www.nfpa.org)

#### **Revision**

BSR/NFPA 17-202x, Standard for Dry Chemical Extinguishing Systems (revision of ANSI/NFPA 17-2021)

This standard includes minimum requirements for dry chemical fire-extinguishing systems that discharge dry chemical from fixed nozzles or hand hose lines by means of expellant gas. The dry chemical systems described in this standard are designed to discharge dry chemical from fixed nozzles and piping or from hose lines by means of an expellant gas. The intent of the standard is to present the design considerations applicable to these systems. It contains only the essential requirements and recommendations needed to make the standard workable in the hands of those skilled in this field. Because the flow of dry chemical (solid particles suspended in a gaseous medium) does not follow general hydraulic theories, most of the flow principles have been determined experimentally. The dry chemicals produced by various manufacturers usually are not identical in all characteristics, and each manufacturer designs equipment for use with a specific dry chemical. System design principles applicable to the products of one manufacturer are not applicable to the products of another manufacturer. As a result, it is not practical to include system design details as a part of this standard. It is now generally accepted that the flame-extinguishing properties of...

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

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#### **Revision**

BSR/NFPA 17A-202x, Standard for Wet Chemical Extinguishing Systems (revision of ANSI/NFPA 17A-2021)

1.1 Scope. The provisions of this standard apply to the design, installation, operation, testing, and maintenance of preengineered wet chemical fire extinguishing systems that discharge wet chemical from fixed nozzles and piping by means of expellant gas. It contains only the essential requirements and recommendations needed to make the standard workable in the hands of those skilled in this field. The wet chemical systems described in this standard are designed to discharge wet chemical from fixed nozzles and piping by means of expellant gas. The intent of the standard is to present the design considerations applicable to these systems. The wet chemicals produced by various manufacturers usually are not identical in all characteristics, and each manufacturer designs equipment for use with a specific wet chemical. Therefore, system design principles applicable to the products of one manufacturer are not applicable to the products of another manufacturer. As a result, it is not practical to include system design details as part of this standard. However, such system design details are an integral part of the listing of the systems and are included in the manufacturers' design, installation, and maintenance manuals.

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#### Revision

BSR/NFPA 30-202x, Flammable and Combustible Liquids Code (revision of ANSI/NFPA 30-2021)

This code shall apply to the storage, handling, and use of flammable and combustible liquids, including waste liquids, as herein defined and classified. A. This code is recommended for use as the basis for legal regulations. Its provisions are intended to reduce the hazard to a degree consistent with reasonable public safety, without undue interference with public convenience and necessity, of operations that require the use of flammable and combustible liquids. Compliance with this code does not eliminate all hazards in the use of flammable and combustible liquids. (See the Flammable and Combustible Liquids Code Handbook for additional explanatory information.) This code shall not apply to the following: (1)\*Any liquid that has a melting point of 100°F (37.8°C) or greater A.(1) Liquids that are solid at 100°F (37.8°C) or above, but are handled, used, or stored at temperatures above their flash points, should be reviewed against pertinent sections of this code. (2)\*Any liquid that does not meet the criteria for fluidity given in the definition of liquid in Chapter 3 and in the provisions of Chapter 4 A.(2) The information in A.(1) also applies here. (3) Any cryogenic fluid or liquefied gas, as defined in.. Obtain an electronic copy from: [www.nfpa.org/30Next](http://www.nfpa.org/30Next)

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### NFPA (National Fire Protection Association)

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#### Revision

BSR/NFPA 30A-202x, Code for Motor Fuel Dispensing Facilities and Repair Garages (revision of ANSI/NFPA 30A-2021)

This code is recommended for use as the basis for legal regulations. Its provisions are intended to reduce the hazards of motor fuels to a degree consistent with reasonable public safety, without undue interference with public convenience and necessity. Thus, compliance with this code does not eliminate all hazards in the use of these fuels. See the Flammable and Combustible Liquids Code Handbook for additional explanatory information. Scope. This code shall apply to motor fuel dispensing facilities and motor fuel dispensing at farms and isolated construction sites. This code shall apply to motor vehicle repair garages. This code shall not apply to those motor fuel dispensing facilities where only liquefied petroleum gas (LP-Gas), liquefied natural gas (LNG), or compressed natural gas (CNG) is dispensed as motor fuel. A. See NFPA 52, Vehicular Gaseous Fuel Systems Code, and NFPA 58, Liquefied Petroleum Gas Code, for requirements for facilities where only these fuels are dispensed. This code shall not apply to aircraft fueling.

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

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#### **Revision**

BSR/NFPA 96-202x, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations (revision of ANSI/NFPA 96-2021)

This standard shall provide the minimum fire safety requirements (preventative and operative) related to the design, installation, operation, inspection, and maintenance of all public and private cooking operations. A. These requirements include, but are not limited to, all manner of cooking equipment, exhaust hoods, grease removal devices, exhaust ductwork, exhaust fans, dampers, fire-extinguishing equipment, and all other auxiliary or ancillary components or systems that are involved in the capture, containment, and control of grease-laden cooking effluent. This standard shall apply to residential cooking equipment used for commercial cooking operations. This standard shall not apply to cooking equipment located in a single dwelling unit. This standard shall not apply to facilities where all of the following are met: (1) Only residential equipment is being used. (2) Fire extinguishers are located in all kitchen areas in accordance with NFPA 10, Standard for Portable Fire Extinguishers. (3) The facility is not an assembly occupancy. (4) The authority having jurisdiction has approved the installation. A. This judgment should take into account the type of cooking being performed, the items being cooked, and the frequency of cooking...

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

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#### **Revision**

BSR/NFPA 99-202x, Health Care Facilities Code (revision of ANSI/NFPA 99-2021)

The scope of this code is to establish minimum criteria as follows in through 3. Fundamentals. Chapter 4 establishes criteria for levels of health care services or systems based on risk to the patients, staff, or visitors in health care facilities. Gas and Vacuum Systems. .1 Chapter 5 covers the performance, maintenance, installation, and testing of the following: (1) Nonflammable medical gas systems with operating pressures below a gauge pressure of 2068 kPa (300 psi) (2) Vacuum systems in health care facilities (3) Waste anesthetic gas disposal (WAGD) systems, also referred to as scavenging (4) Manufactured assemblies that are intended for connection to the medical gas, vacuum, or WAGD systems (also referred to as scavenging) .2 Requirements for portable compressed gas systems are covered in Chapter 11. Electrical Systems. .1 Chapter 6 covers the performance, maintenance, and testing of electrical systems (both normal and essential) in health care facilities. .2 The following areas are not addressed in this code, but are addressed in other NFPA documents: (1) Specific requirements for wiring and installation of equipment are covered in NFPA 70, National Electrical Code. (2) Requirements for illumination..

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#### **Revision**

BSR/NFPA 99B-202x, Standard for Hypobaric Facilities (revision of ANSI/NFPA 99B-2021)

This standard shall apply to all hypobaric facilities in which humans will be occupants or are intended to be occupants of the hypobaric chamber. This standard shall not apply to hypobaric facilities used for animal experimentation if the size of the hypobaric chamber does not allow for human occupancy.

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#### **Revision**

BSR/NFPA 306-202x, Standard for the Control of Gas Hazards on Vessels (revision of ANSI/NFPA 306-2019)

This standard applies to vessels that carry or burn as fuel, flammable or combustible liquids. It also applies to vessels that carry or have carried flammable compressed gases, flammable cryogenic liquids, chemicals in bulk, or other products capable of creating a hazardous condition. This standard describes the conditions required before a space can be entered or work can be started, continued, or started and continued on any vessel under construction, alteration, or repair, or on any vessel awaiting shipbreaking. This standard applies to cold work, application or removal of protective coatings, and work involving riveting, welding, burning, or similar fire-producing operations. This standard applies to vessels while in the United States, its territories and possessions, both within and outside of yards for ship construction, ship alteration, ship repair, or shipbreaking. This standard applies specifically to those spaces on vessels that are subject to concentrations of combustible, flammable, and toxic liquids, vapors, gases, and chemicals as herein described. This standard is also applicable to those spaces on vessels that might not contain sufficient oxygen to permit safe entry. .1 When requested, the Marine Chemist shall apply this standard to other spaces to..

Obtain an electronic copy from: [www.nfpa.org/306Next](http://www.nfpa.org/306Next)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [www.nfpa.org/306Next](http://www.nfpa.org/306Next)

## Comment Deadline: April 10, 2023

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

One Batterymarch Park, Quincy, MA 02169 | [dbellis@nfpa.org](mailto:dbellis@nfpa.org), [www.nfpa.org](http://www.nfpa.org)

#### **Revision**

BSR/NFPA 556-202x, Guide on Methods for Evaluating Fire Hazard to Occupants of Passenger Road Vehicles (revision of ANSI/NFPA 556-2020)

This guide addresses issues associated with the development of hazardous conditions from fire involving passenger road vehicles and the time available for safe egress or rescue. This document provides guidance toward a systematic approach of the determination of the relationship between the properties of passenger road vehicles, including the materials, components and systems, and the development of hazardous conditions in the vehicle. This approach can include small-scale testing, full-scale testing of systems or entire vehicles, and computer modeling techniques in specified, well-defined scenarios. The principles and concepts presented in this guide provide a methodology that can be used to determine the effects of changes in design or in the properties of materials, components, and assemblies in passenger road vehicles on the development of hazardous fire conditions in passenger road vehicles in response to specified well-defined scenarios. This guide provides a methodology that can be used in the selection of materials and design of components and systems, with the intent of providing a desired level of fire safety to occupants in passenger road vehicles in response to specific fire scenarios.

Obtain an electronic copy from: [www.nfpa.org/556Next](http://www.nfpa.org/556Next)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [www.nfpa.org/556Next](http://www.nfpa.org/556Next)

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

One Batterymarch Park, Quincy, MA 02169 | [dbellis@nfpa.org](mailto:dbellis@nfpa.org), [www.nfpa.org](http://www.nfpa.org)

#### **Revision**

BSR/NFPA 5000®-202x, Building Construction and Safety Code® (revision of ANSI/NFPA 5000-2021)

1.1 Scope. The Code does not address features that solely affect economic loss to private property. General. The Code addresses those construction, protection, and occupancy features necessary to minimize danger to life and property.

Obtain an electronic copy from: [www.nfpa.org/5000Next](http://www.nfpa.org/5000Next)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [www.nfpa.org/5000Next](http://www.nfpa.org/5000Next)

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

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

#### **Reaffirmation**

BSR/UL 565-2018 (R202x), Standard for Liquid-Level Gauges for Anhydrous Ammonia and LP-Gas (reaffirmation of ANSI/UL 565-2018)

Reaffirming current edition of standard. The standard covers the following: 1.1 These requirements cover liquid-level gauges for anhydrous ammonia and liquefied petroleum gas (LP-Gas) for use with pressure vessels in nonrefrigerated systems in installations covered by the following standards and others: a) Compressed Gas Association, CGA G-2.1. b) Liquefied Petroleum Gas Code, NFPA 58. c) Storage and Handling of Liquefied Petroleum Gases at Utility Plants, ANSI/NFPA 59. 1.2 These requirements cover designs of gauges that require the release of liquid or gas phases of the contained fluid in order to function and gauges that do not require the release of liquid or gas phases of the contained fluid to function.

Single copy price: Free

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

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

## Comment Deadline: April 10, 2023

### ULSE (UL Standards & Engagement)

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

#### Reaffirmation

BSR/UL 1008S-2012 (R202x), Standard for Safety for Solid-State Transfer Switches (reaffirmation of ANSI/UL 1008S-2012 (R2018))

Reaffirmation and continuance of the First Edition of the Standard for Safety for Solid-State Transfer Switches, UL 1008S, as a standard.

Single copy price: Free

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

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

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

#### Revision

BSR/UL 244B-202X, Field Installed and/or Field Connected Appliance Controls (revision of ANSI/UL 244B-2022)

Proposed revisions to item 37(d) of Table 47.1, Marking and Instructions, to read, "To Reduce the Risk of Overheating and Possible Damage To Other Equipment, Do Not Install Where the Marked Ampere Rating of the Separable Terminal Assembly Control Exceeds the Marked Ampere Rating of the control Separable Terminal Assembly."

Single copy price: Free

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

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

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 1727-202x, Safety for Commercial Electric Personal Grooming Appliances (revision of ANSI/UL 1727-2021)

1. Clarification of Immersion Protection Requirements and Immersion Protection Trip Time Measurement Test. 2. Clarification of Temperature Test for Hand Supported Hair Dryers.

Single copy price: Free

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

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

## Comment Deadline: April 25, 2023

### 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)

#### **Reaffirmation**

BSR/ASME B29.12M-1997 (R202x), Steel Bushed Rollerless Chains Attachments and Sprocket Teeth (reaffirmation of ANSI/ASME B29.12M-1997 (R2018))

This Standard provides the following information for steel brushed rollerless chains, attachments, and sprocket teeth.

Single copy price: \$43.00

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Justin Cassamassino <[cassasmassinoj@asme.org](mailto:cassasmassinoj@asme.org)>

### 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)

#### **Reaffirmation**

BSR/ASME B29.17M-1998 (R202x), Hinge-Type Flat Top Conveyor Chains and Sprocket Teeth (reaffirmation of ANSI/ASME B29.17M-1998 (R2018))

This Standard contains information for hinge type flat top conveyor chains and sprocket teeth.

Single copy price: \$43.00

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Justin Cassamassino <[cassasmassinoj@asme.org](mailto:cassasmassinoj@asme.org)>

### 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)

#### **Reaffirmation**

BSR/ASME B29.21-2013 (R202x), 700 Class Welded Steel and Cast Chains, Attachments and Sprockets for Water and Sewage Treatment Plants (reaffirmation of ANSI/ASME B29.21-2013 (R2018))

This Standard covers 700 Class chains, attachments, and sprocket teeth for water and sewage treatment plants.

Single copy price: \$44.00

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Justin Cassamassino <[cassasmassinoj@asme.org](mailto:cassasmassinoj@asme.org)>

## Comment Deadline: April 25, 2023

### 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)

#### **Reaffirmation**

BSR/ASME B29.400-2001 (R202x), Combination, H Type Mill Chains and Sprockets (reaffirmation of ANSI/ASME B29.400-2001 (R2018))

This Standard is a consolidation of two ASME standards, ASME B29.11M-1994 (Combination Chains, Attachments, and Sprocket Teeth) and ASME B29.14M- 1996 (“H”Type Mill Chains, Attachments, and Sprocket Teeth). Combination chains are a series of block links having barrels to contact the sprocket teeth, alternating with links composed of sidebars and pins that articulate in the barrels of the block link. Pins are fixed against rotation in sidebar pitch holes by mechanical locks, such as flats, or by interference fits, or both. Assembly of pins may be from either side or alternated, at the manufacturer’s option. The main topics are (a) General chain proportions and designations; and (b) Attachments. “H” type mill chains are a series of identical cast offset links having barrels to contact the sprocket teeth and pins that articulate in the barrels of the links. Pins are fixed in the sidebar pitch holes by either press fits and/or mechanical locks, such as flats, to prevent rotation of the pins in the sidebar pitch holes. The main topics are (a) general chain proportions and designations; (b) Attachments; (c) Sprocket tooth forms; and (d) Sprocket design data.

Single copy price: \$72.00

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Justin Cassamassino <[cassasmassinoj@asme.org](mailto:cassasmassinoj@asme.org)>

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

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

#### **Withdrawal**

INCITS/ISO/IEC 1073-1:1976 [S2013], Alphanumeric character sets for optical recognition - Part 1: Character set OCR-A - Shapes and dimensions of the printed image (withdrawal of INCITS/ISO/IEC 1073-1:1976 [S2013])

Describes the forms of printed images and the sizes of alphanumeric characters as well as the signs and graphical symbols (OCR-A) intended for optical character reading according to ISO 646-1973.

Single copy price: \$60.00

Obtain an electronic copy from: <http://webstore.ansi.org>

Order from: <http://webstore.ansi.org>

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

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

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

#### **Withdrawal**

INCITS/ISO/IEC 1073-2:1976 [S2013], Alphanumeric character sets for optical recognition - Part 2: Character set OCR-B - Shapes and dimensions of the printed image (withdrawal of INCITS/ISO/IEC 1073-2:1976 [S2013])

Indicates the forms of printed images and the sizes of alphanumeric characters as well as the sings and graphical symbols (OCR-B-character set) intended for optical character reading according to ISO 646-1973.

Single copy price: \$60.00

Obtain an electronic copy from: <http://webstore.ansi.org>

Order from: <http://webstore.ansi.org>

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



## Comment Deadline: April 25, 2023

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

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

#### ***Withdrawal***

INCITS/ISO/IEC 1831:1980 [S2013], Printing specifications for optical character recognition (withdrawal of INCITS/ISO/IEC 1831:1980 [S2013])

Includes basic definitions, measurement requirements, specifications and recommendations for OCR paper and print, and deals with three main parameters for OCR media: optical properties of paper; optical properties and dimensions of ink patterns used as OCR characters; basic requirements for positions of OCR characters on paper. References: ISO 216; 1073/1; 1073/2; 2469; 2471; CIE Publication 15 (E 1.3.1) 1971.

Single copy price: \$60.00

Obtain an electronic copy from: <http://webstore.ansi.org>

Order from: <http://webstore.ansi.org>

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

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

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

#### ***Withdrawal***

INCITS/ISO/IEC 12246:1993 [S2013], Information technology - 8 mm wide magnetic tape cartridge dual azimuth format for information interchange - Helical scan recording (withdrawal of INCITS/ISO/IEC 12246:1993 [S2013]) Specifies the physical and magnetic characteristics of an 8 mm wide magnetic tape cartridge to enable interchangeability of such cartridges. Also specifies the quality of the recorded signals, the format and the recording method.

Single copy price: \$60.00

Obtain an electronic copy from: <http://webstore.ansi.org>

Order from: <http://webstore.ansi.org>

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

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

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

#### ***Withdrawal***

INCITS/ISO/IEC 12248:1993 [S2013], Information technology - 3,81 mm wide magnetic tape cartridge for information interchange - Helical scan recording - DATA/DAT-DC format using 60 m and 90 m length tapes (withdrawal of INCITS/ISO/IEC 12248:1993 [S2013])

Specifies the physical and magnetic characteristics of a 3,81 mm wide magnetic tape cartridge to enable interchangeability of such cartridges. Also specifies the quality of the recorded signals, the recorded format and the recording method.

Single copy price: \$60.00

Obtain an electronic copy from: <http://webstore.ansi.org>

Order from: <http://webstore.ansi.org>

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

## Comment Deadline: April 25, 2023

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

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

#### ***Withdrawal***

INCITS/ISO/IEC 22050:2002 [S2013], Information technology - Data interchange on 12,7 mm, 384-track magnetic tape cartridges - Ultrium-1 format (withdrawal of INCITS/ISO/IEC 22050:2002 [S2013])  
Specifies the physical and magnetic characteristics of magnetic tape cartridges, using magnetic tape 12,65 mm wide so as to provide physical interchange of such cartridges between drives. It also specifies the quality of the recorded signals, the recording method and the recorded format, thereby allowing data interchange between drives by means of such cartridges.

Single copy price: \$60.00

Obtain an electronic copy from: <http://webstore.ansi.org>

Order from: <http://webstore.ansi.org>

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

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

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

#### ***Withdrawal***

INCITS/ISO/IEC 22091:2002 [S2013], Information technology - Streaming Lossless Data Compression algorithm (SLDC) (withdrawal of INCITS/ISO/IEC 22091:2002 [S2013])

Specifies a lossless compression algorithm to reduce the number of 8-bit bytes required to represent data records and File Marks. The algorithm is known as Streaming Lossless Data Compression algorithm (SLDC).

Single copy price: \$60.00

Obtain an electronic copy from: <http://webstore.ansi.org>

Order from: <http://webstore.ansi.org>

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

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

171 Nepean Street, Suite 400, Ottawa, ON K2P 0B4 Canada | [laura.werner@ul.org](mailto:laura.werner@ul.org), <https://ulse.org/>

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

BSR/UL/ULC 2447-202x, Standard for Safety for Containment Sumps, Fittings and Accessories for Flammable and Combustible Liquids (new standard)

This Standard sets forth the minimum requirements for containment sumps, and associated sump fittings and accessories (products) intended for below-grade, at-grade or aboveground use as an enclosure for the housing of, and access to, underground piping, connector piping, and other fueling system components (such as pumps, valves, sensors, wiring, etc.) in addition to temporary containment of typical liquid fuels as identified in this Standard. These products are intended for use in commercial (public) or private (fleet) automotive fueling station applications or similar fuel dispensing applications, and in piping systems for fuel supply to generators, burners or similar equipment. Some sump fitting or sump accessory products may be optionally evaluated for repair or replacement applications in containment sumps that have been in service.

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: April 25, 2023

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 252-202x, Standard for Safety for Compressed Gas Regulators (revision of ANSI/UL 252-2022)

The following is being proposed: 1. Addition of Regulators with Electrically Operated Valves to Accessories Section.

Single copy price: Free

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

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

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

## 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:

### ADA (American Dental Association)

211 East Chicago Avenue, Chicago, IL 60611-2678 | [bralowerp@ada.org](mailto:bralowerp@ada.org), [www.ada.org](http://www.ada.org)

BSR/ADA Standard No. 1102-202x, Electronic Dental Benefits Eligibility Verification (new standard)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Paul Bralower <[bralowerp@ada.org](mailto:bralowerp@ada.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)

BSR/AHRI Standard 1210-202x (I-P), Performance Rating of Variable Frequency Drives (revision and redesignation of ANSI/AHRI Standard 1210 (I-P)-2011)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Karl Best <[kbest@ahrinet.org](mailto:kbest@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)

BSR/AHRI Standard 1211-202x (SI), Performance Rating of Variable Frequency Drives (revision of ANSI/AHRI Standard 1211-2011)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Karl Best <[kbest@ahrinet.org](mailto:kbest@ahrinet.org)>

### NENA (National Emergency Number Association)

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Questions may be directed to: Sandy Dyre <[crm@nena.org](mailto:crm@nena.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.

### **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)

ANSI/AHRI Standard 1210 (I-P)-2011 with Addendum 1, Performance Rating of Variable Frequency Drives (revision, redesignation and consolidation of ANSI/AHRI Standard 1210-2011)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Questions may be directed to: Karl Best <[kbest@ahrinet.org](mailto:kbest@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)

ANSI/AHRI Standard 1211 (SI)-2011 with Addendum 1, Performance Rating of Variable Frequency Drives (revision of ANSI/AHRI Standard 1210-2011)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Questions may be directed to: Karl Best <[kbest@ahrinet.org](mailto:kbest@ahrinet.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)

ANSI/HL7 V3 CGPED, R1-2007 (R2017), HL7 Version 3 Standard: Clinical Genomics; Pedigree, Release 1 (reaffirmation of ANSI/HL7 V3 CGPED, R1-2007 (R2012))

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Questions may be directed to: Karen Van Hentenryck <[Karenvan@HL7.org](mailto:Karenvan@HL7.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.

---

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

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

ANSI X9.104-1-2004 (R2023), Financial transaction card originated messages - Card acceptor to acquiring host messages - Part 1: Messages, data elements and code values (reaffirmation of ANSI X9.104-1-2004 (R2017))  
Final Action Date: 2/16/2023 | *Reaffirmation*

ANSI X9.104-2-2004 (R2023), Financial transaction card originated messages - Card acceptor to acquiring host messages - Part 2: Convenience store and petroleum marketing industry (reaffirmation of ANSI X9.104, Part 2 -2004 (R2016)) Final Action Date: 2/16/2023 | *Reaffirmation*

## **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)

ANSI/ASME BPVC Section VI-2023, Recommended Rules for the Care and Operation of Heating Boilers (revision of ANSI/ASME BPVC Section VI-2021) Final Action Date: 2/17/2023 | *Revision*

ANSI/ASME BPVC Section VII-2023, Recommended Guidelines for the Care of Power Boilers (revision of ANSI/ASME BPVC Section VII-2021) Final Action Date: 2/17/2023 | *Revision*

## **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)

ANSI/AWS F1.2-2013 (R2023), Laboratory Method for Measuring Fume Generation Rates and Total Fume Emission of Welding and Allied Processes (reaffirmation of ANSI/AWS F1.2-2013) Final Action Date: 2/16/2023 | *Reaffirmation*

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

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

ANSI/AWWA B512-2023, Sulfur Dioxide (revision of ANSI/AWWA B512-2015) Final Action Date: 2/13/2023 | *Revision*

## **CTA (Consumer Technology Association)**

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

ANSI/CTA 2060-2017 (R2023), Interoperability Standards Series for Consumer EEG Data - File Storage (reaffirmation of ANSI/CTA 2060-2017) Final Action Date: 2/17/2023 | *Reaffirmation*

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

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

ANSI/EIA 364-123-2023, High Temperature Exposure with Contact Loading Test Procedure for Electrical Connectors (new standard) Final Action Date: 2/16/2023 | *New Standard*

**EOS/ESD (ESD Association, Inc.)**

218 W. Court Street, Rome, NY 13440 | [jkirk@esda.org](mailto:jkirk@esda.org), <https://www.esda.org>

ANSI/ESD SP5.1.3-2017 (R2022), ESD Association Standard Practice for Electrostatic Discharge Sensitivity Testing - Human Body Model (HBM) Testing - Component Level - A Method for Randomly Selecting Pin Pairs (reaffirmation and redesignation of ANSI/ESD SP5.1.3-2017) Final Action Date: 2/14/2023 | *Reaffirmation*

**IES (Illuminating Engineering Society)**

120 Wall Street, Floor 17, New York, NY 10005-4001 | [pmcgillicuddy@ies.org](mailto:pmcgillicuddy@ies.org), [www.ies.org](http://www.ies.org)

ANSI/IES LM-83-2023, Approved Method: Spatial Daylight Autonomy and Annual Sunlight Exposure (new standard) Final Action Date: 2/16/2023 | *New Standard*

**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)

ANSI/NSF 40-2023 (i54r1), Residential Wastewater Treatment Systems (revision of ANSI/NSF 40-2022) Final Action Date: 2/15/2023 | *Revision*

ANSI/NSF 51-2023 (i27r1), Food Equipment Materials (revision of ANSI/NSF 51-2021) Final Action Date: 2/16/2023 | *Revision*

**TIA (Telecommunications Industry Association)**

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

ANSI/TIA 1183-B-2023, Measurement Methods and Test Fixtures for Balun-Less Measurements of Balanced Components and Systems (revision and redesignation of ANSI/TIA 1183-A-2017) Final Action Date: 2/17/2023 | *Revision*

# Call for Members (ANS Consensus Bodies)

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

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## ANSI Accredited Standards Developer

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

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

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

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

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

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

## ANSI Accredited Standards Developer

### SCTE (Society of Cable Telecommunications Engineers)

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

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

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

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

## **ANSI Accredited Standards Developer**

### **AGSC - Auto Glass Safety Council**

#### **Request for additional participation**

**ANSI/AGSC/AGRSS 005-2022**, Auto Glass Safety Council/Automotive Glass Replacement Safety Standard

Interest Categories: Request additional participation from Auto Glass Manufacturers, Insurance (companies that insure or provide services to companies that insure automobiles)

**ANSI/AGSC/NWRD/ROLAGS 002-2022**, Auto Glass Safety Council/National Windshield Repair Division/Repair of Laminated Automotive Glass Standard

Interest Categories: Request additional participation from Auto Glass Manufacturer, Insurance Company/Claims Administrator

For inquiries please contact: Kathy Bimber, Auto Glass Safety Council (AGSC) PO Box 569, Garrisonville, VA 22463, [kbimber@agsc.org](mailto:kbimber@agsc.org), [www.agsc.org](http://www.agsc.org), [www.nwrassn.org](http://www.nwrassn.org)

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

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

BSR/AAMI BP22-1994 (R202x), Blood pressure transducers (reaffirmation of ANSI/AAMI BP22-1994 (R2016))

Interest Categories: AAMI BP- Blood Pressure Monitoring Committee The committee is seeking regulatory, user and general interest members to participate in the reaffirmation and future revision of AAMI BP22-1994 (R2016), Blood pressure transducers. Please direct inquiries to: Ladan Bulookbashi <[lbulookbashi@aami.org](mailto:lbulookbashi@aami.org)>

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

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

BSR/AAMI CI86-2017 (R202x), Cochlear Implant Systems: Requirements for Safety, Functional Verification, Labeling and Reliability Reporting (reaffirmation of ANSI/AAMI CI86-2017)

Interest Categories: AAMI CI-Cochlear Implants Committee: The committee is seeking industry, regulatory, and general interest members to participate in the reaffirmation and future revision of AAMI CI86-2017, Cochlear implant systems—Requirements for safety, functional verification, labeling and reliability reporting. Please direct inquiries to: Ladan Bulookbashi <[lbulookbashi@aami.org](mailto:lbulookbashi@aami.org)>

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

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

BSR/AAMI NS4-2013 (R202x), Transcutaneous electrical nerve stimulators (reaffirmation of ANSI/AAMI NS4-2013 (R2017))

Interest Categories: NS-WG03 - Transcutaneous electrical stimulator WG: The working group is seeking industry, regulatory, user and general interest members to participate in the reaffirmation and future revision of AAMI NS4-2013 (R2017), Transcutaneous electrical nerve stimulators. Please direct inquiries to: Ladan Bulookbashi <[lbulookbashi@aami.org](mailto:lbulookbashi@aami.org)>

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

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

ANSI/ASA S1.14-1998 (R2018), Recommendations for the Specifying and Testing the Susceptibility of Acoustical Instruments to Radiated Radio-Frequency Electromagnetic Fields, 25 MHz to 1 GHz (withdrawal of ANSI ASA S1.14-1998 (R2018))



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

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

BSR/ASA S2.72-2003/Part 4 (R202x)/ISO 2631-4-2001 (R202x), Mechanical Vibration and Shock - Evaluation of Human Exposure to Whole Body Vibration - Part 4: Guidelines for the Evaluation of the Effects of Vibration and Rotational Motion on Passenger and Crew Comfort in Fixed-Guideway Transport Systems (a nationally adopted international standard) (reaffirm a national adoption ANSI/ASA S2.72-2003/Part 4 (R2018)/ISO 2631-4-2001 (R2018))

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

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

BSR/ASA S2.72/Part 4 Amd. 1-2010/ISO 2631-4 Amd. 1:2010 (R202x), Mechanical vibration and shock - Evaluation of human exposure to whole-body vibration - Part 4: Guidelines for the evaluation of the effects of vibration and rotational motion on passenger and crew comfort in fixed-guideway transport systems, Amendment 1 (a nationally adopted international standard--Amendment) (reaffirm a national adoption ANSI/ASA S2.72/Part 4 Amd. 1-2010/ISO 2631-4 Amd. 1:2010 (R2018))

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

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

BSR/ASA S3.1-1999 (R202x), Maximum Permissible Ambient Noise Levels for Audiometric Test Rooms (reaffirmation of ANSI/ASA S3.1-1999 (R2018))

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

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

BSR/ASABE/ISO 12188-2-2015 (R202x), Tractors and machinery for agriculture and forestry - Test procedures for positioning and guidance systems in agriculture - Part 2: Testing of satellite-based auto-guidance systems during straight and level travel (reaffirm a national adoption ANSI/ASABE/ISO 12188-2-2015 (R2019))

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

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

BSR/ASSP A10.19-202X, Safety Requirements for Pile Installation and Extraction Operations (revision and redesignation of ANSI ASSE A10.19-2017)

**BHMA (Builders Hardware Manufacturers Association)**

355 Lexington Avenue, 15th Floor, New York, NY 10017-6603 | [Kbishop@Kellencompany.com](mailto:Kbishop@Kellencompany.com), [www.buildershardware.com](http://www.buildershardware.com)

BSR/BHMA A156.11-202x, Standard for Cabinet Locks (revision of ANSI/BHMA A156.11-2019)

**BHMA (Builders Hardware Manufacturers Association)**

355 Lexington Avenue, 15th Floor, New York, NY 10017-6603 | [Kbishop@Kellencompany.com](mailto:Kbishop@Kellencompany.com), [www.buildershardware.com](http://www.buildershardware.com)

BSR/BHMA A156.16-202x, Standard for Auxiliary Hardware (revision of ANSI/BHMA A156.16-2013 (R2018))

**BHMA (Builders Hardware Manufacturers Association)**

17 Faulkner Drive, Niantic, CT 06357 | [mtierney@kellencompany.com](mailto:mtierney@kellencompany.com), [www.buildershardware.com](http://www.buildershardware.com)

BSR/BHMA A156.28-202x, Recommended Practices for Mechanical Keying Systems (revision of ANSI/BHMA A156.28-2013 (R2018))

**BHMA (Builders Hardware Manufacturers Association)**

17 Faulkner Drive, Niantic, CT 06357 | [mtierney@kellencompany.com](mailto:mtierney@kellencompany.com), [www.buildershardware.com](http://www.buildershardware.com)

BSR/BHMA A156.32-202x, Standard for Integrated Swinging Door Opening Assemblies (revision of ANSI/BHMA A156.32-2014)

**BHMA (Builders Hardware Manufacturers Association)**

17 Faulkner Drive, Niantic, CT 06357 | [mtierney@kellencompany.com](mailto:mtierney@kellencompany.com), [www.buildershardware.com](http://www.buildershardware.com)

BSR/BHMA A156.43-202x, Standard for Integrated Sliding Door Opening Assemblies (new standard)

**CTA (Consumer Technology Association)**

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

BSR/CTA 2121-202x, Definitions and Best Practices for Monitoring Stress Using Heart Rate Variability in the Real-World (new standard)

Interest Categories: CTA and the R11 Health, Fitness & Wellness Committee are particularly interested in adding new members (called "users") who acquire health, fitness and wellness products. from those who create them, and in adding new members who neither produce nor use health, fitness or wellness products, and others (called members with a "general interest").

**CTA (Consumer Technology Association)**

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

BSR/CTA 2122-202x, Best Practices for Consumer EEG Technologies (new standard)

**IES (Illuminating Engineering Society)**

120 Wall Street, Floor 17, New York, NY 10005-4001 | [pmcgillicuddy@ies.org](mailto:pmcgillicuddy@ies.org), [www.ies.org](http://www.ies.org)

BSR/IES RP-46-202x, Recommended Practice: Supporting the Physiological and Behavioral Effects of Lighting in Interior Daytime Environments (new standard)

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

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

INCITS/ISO/IEC 1073-1:1976 [S2013], Alphanumeric character sets for optical recognition - Part 1: Character set OCR-A - Shapes and dimensions of the printed image (withdrawal of INCITS/ISO/IEC 1073-1:1976 [S2013])

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

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

INCITS/ISO/IEC 1073-2:1976 [S2013], Alphanumeric character sets for optical recognition - Part 2: Character set OCR-B - Shapes and dimensions of the printed image (withdrawal of INCITS/ISO/IEC 1073-2:1976 [S2013])

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

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

INCITS/ISO/IEC 1831:1980 [S2013], Printing specifications for optical character recognition (withdrawal of INCITS/ISO/IEC 1831:1980 [S2013])

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

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

INCITS/ISO/IEC 12246:1993 [S2013], Information technology - 8 mm wide magnetic tape cartridge dual azimuth format for information interchange - Helical scan recording (withdrawal of INCITS/ISO/IEC 12246:1993 [S2013])

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

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

INCITS/ISO/IEC 12248:1993 [S2013], Information technology - 3,81 mm wide magnetic tape cartridge for information interchange - Helical scan recording - DATA/DAT-DC format using 60 m and 90 m length tapes (withdrawal of INCITS/ISO/IEC 12248:1993 [S2013])

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

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

INCITS/ISO/IEC 22050:2002 [S2013], Information technology - Data interchange on 12,7 mm, 384-track magnetic tape cartridges - Ultrium-1 format (withdrawal of INCITS/ISO/IEC 22050:2002 [S2013])

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

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

INCITS/ISO/IEC 22091:2002 [S2013], Information technology - Streaming Lossless Data Compression algorithm (SLDC) (withdrawal of INCITS/ISO/IEC 22091:2002 [S2013])

**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 6-202x (i23r1), Dispensing Freezers (revision of ANSI/NSF 6-2021)

**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 385 (i15r1)-202x, Disinfection Mechanics (revision of ANSI/NSF 385-2021)

**RVIA (Recreational Vehicle Industry Association)**

2465 J-17 Centreville Road, #801, Herndon, VA 20171 | [treamer@rvia.org](mailto:treamer@rvia.org), [www.rvia.org](http://www.rvia.org)

BSR/RVIA UPA-1-202x, Uniform Plan Approval Recreational Vehicles (revision of ANSI/RVIA UPA-1-2019)

**ULSE (UL Standards & Engagement)**

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

BSR/UL 6288-202X, Standard for Safety for Decorative Lighting Cords (new standard)

# American National Standards (ANS) Announcements

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## Corrections

### ISA (Organization) - International Society of Automation

#### ISA 60534-8-1 (75.07.03) changed to ISA 60534-8-1 (75.07.01)

The Designation and the Title of Standard of a proposed ANS has changed since ISA (Organization) first published a PINS notice in the November 17, 2006 edition of Standards Action

**BSR/ISA 60534-8-1 (75.07.03)-200x**, *Control Valve Aerodynamic Noise Prediction*

has been changed to:

**BSR/ISA 60534-8-1 (75.07.01)-202x**, *Industrial-Process Control Valves – Part 8-1: Noise considerations – Laboratory measurement of noise generated by aerodynamic flow through control valves.*

Please direct inquiries to: Eliana Brazda <[ebrazda@isa.org](mailto:ebrazda@isa.org)>

## Corrections

### ISA (Organization) - International Society of Automation

#### ISA 60534-8-4 (75.07.02) changed to ISA 60534-8-4 (75.07.04)

The Designation and the Title of Standard of a proposed ANS has changed since ISA (Organization) first published a PINS notice in the November 17, 2006 edition of Standards Action.

**BSR/ISA 60534-8-4 (75.07.02)-200x**, *Control Valve Hydrodynamic Noise Prediction*

has been changed to:

**BSR/ISA 60534-8-4 (75.07.04)-202x**, *Industrial-Process Control Valves – Part 8-4: Noise considerations – Prediction of noise generated by hydrodynamic flow*

Please direct inquiries to: Eliana Brazda <[ebrazda@isa.org](mailto:ebrazda@isa.org)>

# American National Standards (ANS) Process

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

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

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

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

# Meeting Notices (Standards Developers)

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## ANSI Accredited Standards Developer

### A3 - Association for Advancing Automation

#### Meeting Details for March 2023

The following meetings of the **A3 - Association for Advancing Automation** are scheduled for:

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

Note: Invited guests, members of UL STP 1740

Meeting Format & Location: In-person/hybrid, with the in-person portion in the Chicago, IL, area

Purpose: Discuss progress on TR 1006; preparation of the next edition of R15.06 (U.S. national adoption of ISO 10218-1, -2)

Day/Date/Time:

Day 1: Monday, 03/13/23, from 1 – 5 PM Central Time

Day 2: Tuesday, 03/14/23, from 8:30 – 5:00 PM Central Time

Meeting Host/Sponsor: UL LLC

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

Note: Invited guests, members of UL STP 3100

Meeting Format & Location: In-person/hybrid, with the in-person portion in the Chicago, IL, area

Purpose: Comment resolution for R15.08-2.

Day/Date/Time: In-person/hybrid, with the in-person portion in the Chicago, IL, area

Day 1: Thursday, 03/16/23, from 8:30 AM – 5:00 PM, Central Time

Day 2: Friday, 03/17/23, from 8:00 AM – 12:00 Noon Central Time

Meeting Host/Sponsor: UL LLC

For inquiries please contact: Carole Franklin, [cfranklin@robotics.org](mailto:cfranklin@robotics.org), or Maren Roush, [mroush@automate.org](mailto:mroush@automate.org), Association for Advancing Automation (A3)

## ANSI Accredited Standards Developer

### AGSC - Auto Glass Safety Council

#### Meeting Times: March 27, 2023 & March 29, 2023

Committee Meeting: AGSC ROLAGS 2 (**Repair of Laminated Automotive Glass Standard 2**) Standards Committee

**Monday, March 27, 2023 8:00 a.m. – 3:00 p.m.**

The Draftsman Hotel, Charlottesville, Virginia

Committee Meeting: ANSI AGSC AGRSS (**Auto Glass Replacement Safety Standard**) Standards Committee

**Wednesday, March 29, 2023 9:00 a.m. – 12:00 p.m.**

The Draftsman Hotel, Charlottesville, Virginia

For inquiries please contact: Kathy Bimber, Auto Glass Safety Council (AGSC) PO Box 569, Garrisonville, VA 22463, [kbimber@agsc.org](mailto:kbimber@agsc.org), [www.agsc.org](http://www.agsc.org), [www.nwrassn.org](http://www.nwrassn.org)

# American National Standards Under Continuous Maintenance

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

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

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

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

# ANSI-Accredited Standards Developers (ASD) Contacts

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

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# ISO & IEC Draft International Standards



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

## COMMENTS

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

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

## ORDERING INSTRUCTIONS

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

## ISO Standards

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

ISO/DIS 7240-29, Fire detection and alarm systems - Part 29: Video fire detectors - 5/4/2023, \$155.00

### Fine ceramics (TC 206)

ISO/DIS 19606, Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for surface roughness of fine ceramic films by atomic force microscopy - 5/5/2023, \$88.00

### Health Informatics (TC 215)

ISO/DIS 10781, Health Informatics - HL7 Electronic Health Record-System Functional Model, Release 2.1 (EHR FM) - 5/7/2023, \$134.00

ISO/DIS 16527, Health informatics - HL7 Personal Health Record System Functional Model, Release 2 (PHRS FM) - 5/7/2023, \$146.00

### Industrial trucks (TC 110)

ISO/DIS 5053-3, Industrial trucks - Vocabulary - Part 3: Accessories and components - 5/8/2023, \$88.00

### Non-destructive testing (TC 135)

ISO/DIS 18563-3, Non-destructive testing - Characterization and verification of ultrasonic phased array equipment - Part 3: Complete systems - 5/6/2023, \$102.00

### Optics and optical instruments (TC 172)

ISO/DIS 7921, Ophthalmic optics and instruments - Near vision charts - 5/5/2023, \$46.00

ISO/DIS 14880-2, Optics and photonics - Microlens arrays - Part 2: Test methods for wavefront aberrations - 5/6/2023, \$93.00

ISO/DIS 14880-3, Optics and photonics - Microlens arrays - Part 3: Test methods for optical properties other than wavefront aberrations - 5/5/2023, \$62.00

ISO/DIS 14880-4, Optics and photonics - Microlens arrays - Part 4: Test methods for geometrical properties - 5/5/2023, \$82.00

### Rubber and rubber products (TC 45)

ISO/DIS 9924-3, Rubber and rubber products - Determination of the composition of vulcanizates and uncured compounds by thermogravimetry - Part 3: Hydrocarbon rubbers, halogenated rubbers and polysiloxane rubbers - 5/5/2023, \$71.00

### Soil quality (TC 190)

ISO/DIS 24212, Remediation techniques applied at contaminated sites - 5/5/2023, \$155.00

### Sterilization of health care products (TC 198)

ISO/DIS 11137-1, Sterilization of health care products - Radiation - Part 1: Requirements for the development, validation and routine control of a sterilization process for medical devices - 5/8/2023, \$119.00

### (TC 323)

ISO/DIS 59010, Circular Economy — Guidance on the transition of business models and value networks - 5/8/2023, \$102.00

### (TC 334)

ISO/DIS 33405, Reference materials - Guidance for characterization and assessment of homogeneity and stability - 5/4/2023, \$155.00

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

ISO/DIS 22014, Library objects for architecture, engineering, construction, and use - 5/5/2023, \$107.00

**Textiles (TC 38)**

ISO/DIS 1833-4, Textiles - Quantitative chemical analysis - Part 4: Mixtures of certain protein fibres with certain other fibres (method using hypochlorite) - 5/7/2023, \$33.00

ISO/DIS 18692-5, Fibre ropes for offshore stationkeeping - Part 5: Aramid - 5/7/2023, \$62.00

**Timber structures (TC 165)**

ISO/DIS 24322, Timber structures - Methods of test for evaluation of long-term performance - Part 1: wood-based products in bending - 5/6/2023, \$82.00

ISO/DIS 24323, Timber structures - Design method for vibrational serviceability of timber floors - 5/4/2023, \$62.00

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

ISO/IEC 23094-2:2021/DAMd 1, - Amendment 1: Information technology - General video coding - Part 2: Low complexity enhancement video coding - Amendment 1: Additional levels - 5/7/2023, \$40.00

ISO/IEC DIS 27031, Information technology - Cybersecurity - Information and communication technology readiness for business continuity - 5/6/2023, \$102.00

ISO/IEC DIS 10918-4, Information technology - Digital compression and coding of continuous-tone still images - Part 4: APPn markers - 5/8/2023, \$33.00

ISO/IEC DIS 15444-4, Information technology - JPEG 2000 image coding system - Part 4: Conformance testing - 5/7/2023, \$125.00

ISO/IEC DIS 19777-3, Information technology - Computer graphics and image processing - Extensible 3D (X3D) language bindings - Part 3: C - 5/5/2023, \$102.00

ISO/IEC DIS 19777-4, Information technology - Computer graphics and image processing - Extensible 3D (X3D) language bindings - Part 4: Part 4 - C++ - 5/5/2023, \$102.00

ISO/IEC DIS 19777-5, Information technology - Computer graphics and image processing - Extensible 3D (X3D) language bindings - Part 5: Part 5 - C# - 5/5/2023, \$102.00

ISO/IEC DIS 29794-1, Information technology - Biometric sample quality - Part 1: Framework - 5/8/2023, \$88.00

**IEC Standards**

CIS/H/473/CD, CISPR TR 31 ED3: Description of the Radio Services Database, 05/12/2023

46C/1253/NP, PNW 46C-1253 ED1: IEC 61156-14: Multicore and Symmetrical Pair/Quad Cables for Digital Communications - Part 14: Symmetrical single pair cables with transmission characteristics up to 20 MHz - Work area wiring - Sectional specification, 05/12/2023

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

94/815/CD, IEC 61810-7-12 ED1: Electrical relays - Tests and Measurements - Part 7-12: Internal Moisture, 04/14/2023

94/816/CD, IEC 61810-7-13 ED1: Electrical relays - Tests and Measurements - Part 7-13: Corrosive atmospheres - Polluted atmospheres, 04/14/2023

94/814/CD, IEC 61810-7-15 ED1: Electrical relays - Tests and Measurements - Part 7-15: Robustness of Terminals, 04/14/2023

94/813/CD, IEC 61810-7-17 ED1: Electrical relays - Tests and Measurements - Part 7-17: Shock, Acceleration and Vibration, 04/14/2023

94/812/CD, IEC 61810-7-22 ED1: Electrical relays - Tests and Measurements - Part 7-22: Limiting continuous current, 04/14/2023

94/817/CD, IEC 61810-7-30 ED1: Electrical relays - Tests and Measurements - Part 7-30: Contact sticking (delayed release), 04/14/2023

94/818/CD, IEC 61810-7-7 ED1: Electrical relays - Tests and Measurements - Part 7-7: Functional Tests, 04/14/2023

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

46F/640/CD, IEC 61169-23 ED1: Radio-frequency connectors - Part 23: Pin and socket connector for use with 3.5 mm rigid precision coaxial lines with inner diameter of outer conductor of 3.5 mm (0.1378 in), 05/12/2023

46F/639/NP, PNW 46F-639 ED1: Radio-frequency connectors - Part 1-8: Electrical test methods -Voltage standing wave ratio for a single connector by double connector method, 05/12/2023

**Electrical accessories (TC 23)**

23/1062(F)/FDIS, IEC 61535 ED3: Installation couplers intended for permanent connection in fixed installations, 03/03/2023

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

62D/2023(F)/CDV, ISO 80601-2-55/AMD1 ED2: Amendment 1 - Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors, 05/05/2023

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

48B/3028/CD, IEC 61076-2 ED3: Connectors for electronic equipment - Product requirements - Part 2: Sectional specification for circular connectors, 05/12/2023

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

86A/2286(F)/FDIS, IEC 60794-1-1 ED5: Optical fibre cables - Part 1-1: Generic specification - General, 03/10/2023

86A/2309/CD, IEC 60794-1-104 ED1: Optical fibre cables - Part 1-104: Generic specification - Basic optical cable test procedures - Mechanical tests method - Impact, method E4, 04/14/2023

86A/2269(F)/CDV, IEC 60794-1-111 ED1: Optical fibre cables - Part 1-111: Generic specification - Basic optical cable test procedures - Mechanical tests methods - Bend, method E11, 04/14/2023

86A/2305/FDIS, IEC 60794-1-309 ED1: Optical fibre cables - Part 1-309: Generic specification - Basic optical cable test procedures - Cable element test methods - Bleeding and evaporation of filling or flooding compounds, Method G9, 03/31/2023

86A/2285(F)/FDIS, IEC 60794-2-22 ED2: Optical fibre cables - Part 2-22: Indoor cables - Detail specification for multi-simplex breakout optical cables for use in terminated breakout cable assemblies, 03/10/2023

86A/2284(F)/FDIS, IEC 60794-2-50 ED3: Optical fibre cables - Part 2-50: Indoor cables - Family specification for simplex and duplex cables for use in terminated cable assemblies, 03/10/2023

86/615(F)/FDIS, IEC 61744 ED3: Calibration of fibre optic chromatic dispersion test sets, 03/10/2023

86/614(F)/FDIS, IEC 62496-4-3 ED1: Optical circuit boards - Part 4-3: Interface standards - Terminated waveguide OCB assembly using a single-row thirty-two-channel PMT connector intermateable with 250 m pitch MPO 16, 03/10/2023

### **Fuel Cell Technologies (TC 105)**

105/968/FDIS, IEC 62282-8-301 ED1: Fuel cell technologies - Part 8-301: Energy storage systems using fuel cell modules in reverse mode - Power-to-methane energy systems based on solid oxide cells including reversible operation - Performance test methods, 03/31/2023

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

81/723/FDIS, IEC 62561-6 ED3: Lightning protection system components (LPSC) - Part 6: Requirements for lightning strike counters (LSCs), 03/31/2023

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

113/743/DTS, IEC TS 62607-8-3 ED1: Nanomanufacturing - Key Control Characteristics - Part 8-3: Nano-enabled metal-oxide interfacial devices - Analog resistance change and resistance fluctuation: Electrical resistance measurement, 05/12/2023

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

59K/365(F)/FDIS, IEC 60350-1 ED3: Household electric cooking appliances - Part 1: Ranges, ovens, steam ovens and grills - Methods for measuring performance, 03/03/2023

59F/468/CD, Replaced by 59F/468A/CD, 05/12/2023

59F/465/CD, IEC 62885-2 ED3: Surface cleaning appliances - Part 2: Dry vacuum cleaners for household or similar use - Methods for measuring the performance, 05/12/2023

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

57/2576/NP, PNW 57-2576 ED1: Power systems management and associated information exchange - Data and communications security - Part 16: Profiles for Ethernet security, MACsec (IEC 62351-16), 05/12/2023

57/2575/NP, PNW TS 57-2575 ED1: Power systems management and associated information exchange - Data and Communication Security - Part 100-41: Conformance Testing for 62351-4 A-Profile., 05/12/2023

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

116/652A/NP, PNW 116-652 ED1: Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-10: Particular requirements for pole-mounted pruners, 04/07/2023

### **Safety of household and similar electrical appliances (TC 61)**

61/6806/CD, IEC TS 63457 ED1: Household and similar electrical appliances - Repair, refurbishment, and remanufacturing of an appliance and subsequent safety testing - General safety requirements, 04/14/2023

61/6807/NP, PNW 61-6807 ED1: Particular requirements for breast pumps for expressing breast milk, 04/14/2023

### **Semiconductor devices (TC 47)**

47/2796(F)/FDIS, IEC 63287-2 ED1: Semiconductor devices - Guidelines for reliability qualification plans - Part 2: Concept of mission profile, 03/03/2023

47D/951/NP, PNW 47D-951 ED1: Thermal standardization on semiconductor packages - Part 6: Thermal resistance and capacitance model for transient temperature prediction at junction and measurement points, 05/12/2023

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

82/2122/FDIS, IEC 61730-2 ED3: Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing, 03/31/2023

82/2123/FDIS, IEC 62788-2-1 ED1: Measurement procedures for materials used in photovoltaic modules - Part 2-1: Polymeric materials - Frontsheet and backsheet - Safety requirements, 03/31/2023

82/2112(F)/FDIS, IEC 63027 ED1: Photovoltaic power systems - DC arc detection and interruption, 03/10/2023

82/2121/DTS, IEC TS 62915 ED2: Photovoltaic (PV) modules - Type approval, design and safety qualification - Retesting, 05/12/2023

### **Surface mounting technology (TC 91)**

91/1844/NP, PNW 91-1844 ED1: Future 61189-3-XXX: Test methods for electrical materials, printed board and other interconnection structures and assemblies - Part 3-XXX:- Computed tomography(CT) method for copper plating voids in metallized holes of PCB, 05/12/2023

### **Switchgear and controlgear (TC 17)**

17A/1375/CD, IEC 62271-100/AMD1 ED3: Amendment 1 - High-voltage switchgear and controlgear - Part 100: Alternating-current circuit-breakers, 04/14/2023

#### **(TC 123)**

123/68/NP, PNW 123-68 ED1: Management of network assets in power systems - Overview, principles and terminology, 05/12/2023

#### **(TC 127)**

127/47/CD, IEC TS 63346-2-2 ED1: Low-voltage auxiliary power systems - Part 2-2: Design criteria - Low-voltage d.c. auxiliary power systems for substations, 05/12/2023

### **Wearable electronic devices and technologies (TC 124)**

124/214(F)/FDIS, IEC 63203-204-1 ED2: Wearable electronic devices and technologies - Part 204-1: Electronic textile - Test method for assessing washing durability of e-textile products, 03/03/2023

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

### **(JTC1)**

JTC1-SC41/335/DTR, ISO/IEC TR 30172 ED1: Digital Twin - Use cases, 04/14/2023



# Newly Published ISO & IEC Standards

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

## ISO Standards

### Acoustics (TC 43)

[ISO 11819-1:2023](#), Acoustics - Measurement of the influence of road surfaces on traffic noise - Part 1: Statistical pass-by method, \$200.00

### Additive manufacturing (TC 261)

[ISO/ASTM 52911-3:2023](#), Additive manufacturing - Design - Part 3: PBF-EB of metallic materials, \$149.00

### Agricultural food products (TC 34)

[ISO 2171:2023](#), Cereals, pulses and by-products - Determination of ash yield by incineration, \$73.00

[ISO 21872-1:2017/Amd 1:2023](#), - Amendment 1: Microbiology of the food chain - Horizontal method for the determination of *Vibrio* spp. - Part 1: Detection of potentially enteropathogenic *Vibrio parahaemolyticus*, *Vibrio cholerae* and *Vibrio vulnificus* - Amendment 1: Inclusion of performance testing of culture media and reagents, \$20.00

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

[ISO 11568:2023](#), Financial services - Key management (retail), \$250.00

[ISO 18245:2023](#), Retail financial services - Merchant category codes, \$48.00

### Dimensional and Geometrical Product Specifications and Verification (TC 213)

[ISO 8062-3:2023](#), Geometrical product specifications (GPS) - Dimensional and geometrical tolerances for moulded parts - Part 3: General dimensional and geometrical tolerances and machining allowances for castings using  $\pm$  tolerances for indicated dimensions, \$175.00

[ISO 16610-62:2023](#), Geometrical product specifications (GPS) - Filtration - Part 62: Linear areal filters: spline filters, \$73.00

### Ergonomics (TC 159)

[ISO 24553:2023](#), Ergonomics - Accessible design - Ease of operation, \$225.00

### Fluid power systems (TC 131)

[ISO 12238:2023](#), Pneumatic fluid power - Directional control valves - Measurement of shifting time, \$111.00

### Jewellery (TC 174)

[ISO 11490:2023](#), Jewellery and precious metals - Determination of palladium - Gravimetry using dimethylglyoxime, \$48.00

### Non-destructive testing (TC 135)

[ISO 18251-2:2023](#), Non-destructive testing - Infrared thermography - Part 2: Test method for integrated performance of system and equipment, \$73.00

### Nuclear energy (TC 85)

[ISO 24389-1:2023](#), Management of radioactive waste from nuclear facilities - Part 1: General principles, objectives and practical approaches, \$111.00

### Optics and optical instruments (TC 172)

[ISO 9022-4:2014/Amd 1:2023](#), - Amendment 1: Optics and photonics - Environmental test methods - Part 4: Salt mist - Amendment 1, \$20.00

### Photography (TC 42)

[ISO 12233:2023](#), Photography - Electronic still picture imaging - Resolution and spatial frequency responses, \$225.00

### Plastics (TC 61)

[ISO 293:2023](#), Plastics - Compression moulding of test specimens of thermoplastic materials, \$73.00

[ISO 11357-1:2023](#), Plastics - Differential scanning calorimetry (DSC) - Part 1: General principles, \$175.00

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

[ISO 4427-2:2019/Amd 1:2023](#), - Amendment 1: Plastics piping systems for water supply, and for drainage and sewerage under pressure - Polyethylene (PE) - Part 2: Pipes - Amendment 1, \$20.00

### Rubber and rubber products (TC 45)

[ISO 10282:2023](#), Single-use sterile rubber surgical gloves - Specification, \$73.00

[ISO 15671:2023](#), Rubber and rubber products - Determination of total sulfur content using an automatic analyser, \$48.00

### Security (TC 292)

[ISO 22393:2023](#), Security and resilience - Community resilience - Guidelines for planning recovery and renewal, \$200.00

**Steel (TC 17)**

[ISO 4998:2023](#), Steel sheet, zinc-coated and zinc-iron alloy-coated by the continuous hot-dip process, of structural quality, \$111.00

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

[ISO 20900:2023](#), Intelligent transport systems - Partially-automated parking systems (PAPS) - Performance requirements and test procedures, \$175.00

**ISO Technical Reports****Dentistry (TC 106)**

[ISO/TR 20896-2:2023](#), Dentistry - Digital impression devices - Part 2: Methods for assessing accuracy for implanted devices, \$149.00

**Laboratory glassware and related apparatus (TC 48)**

[ISO/TR 16153:2023](#), Determination of uncertainty for volume measurements of a piston-operated volumetric apparatus using a photometric method, \$149.00

**Railway applications (TC 269)**

[ISO/TR 22131:2023](#), Railway applications - Railway braking - Country specific applications for ISO 20138-1, \$149.00

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

[ISO/TS 13126:2023](#), Traditional Chinese medicine - Determination of ochratoxin A in natural products by liquid chromatography coupled with fluorescence detector, \$73.00

**ISO/IEC JTC 1 Technical Reports**

[ISO/IEC TR 23844:2023](#), Information technology for learning, education, and training - Immersive content and technology, \$73.00

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

[ISO/IEC 18477-4:2017/Cor 1:2023](#), Corrigendum, FREE

[ISO/IEC 23465-1:2023](#), Card and security devices for personal identification - Programming interface for security devices - Part 1: Introduction and architecture description, \$149.00

[ISO/IEC 23001-11:2023](#), Information technology - MPEG systems technologies - Part 11: Energy-efficient media consumption (green metadata), \$250.00

[ISO/IEC 23090-19:2023](#), Information technology - Coded representation of immersive media - Part 19: Reference Software for V-PCC, \$48.00

[ISO/IEC 29167-11:2023](#), Information technology - Automatic identification and data capture techniques - Part 11: Crypto suite PRESENT-80 security services for air interface communications, \$175.00

[ISO/IEC TS 23465-2:2023](#), Card and security devices for personal identification - Programming interface for security devices - Part 2: API definition, \$225.00

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

[IEC 62087-2 Ed. 2.0 b:2023](#), Audio, video, and related equipment - Determination of power consumption - Part 2: Signals and media, \$259.00

[IEC 62087-3 Ed. 2.0 b:2023](#), Audio, video, and related equipment - Determination of power consumption - Part 3: Television sets, \$354.00

[S+ IEC 62087-2 Ed. 2.0 en:2023 \(Redline version\)](#), Audio, video, and related equipment - Determination of power consumption - Part 2: Signals and media, \$338.00

[S+ IEC 62087-3 Ed. 2.0 en:2023 \(Redline version\)](#), Audio, video, and related equipment - Determination of power consumption - Part 3: Television sets, \$460.00

**Hydraulic turbines (TC 4)**

[IEC/IEEE 63198-2775 Ed. 1.0 b:2023](#), Technical guidelines for smart hydroelectric power plant, \$392.00

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

[IEC 62471-7 Ed. 1.0 b:2023](#), Photobiological safety of lamps and lamp systems - Part 7: Light sources and luminaires primarily emitting visible radiation, \$259.00

# Registration of Organization Names in the United States

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

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

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

## Public Review

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

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



# Proposed Foreign Government Regulations

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## Call for Comment

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

### Online Resources:

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

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

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

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

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

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

Comment guidance:

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

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

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

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

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

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

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

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

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

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



**BSR/ASHRAE Addendum a  
to ANSI/ASHRAE Standard 62.2-2022**

**Public Review Draft**

**Proposed Addendum a to  
Standard 62.2-2022, Ventilation and  
Acceptable Indoor Air Quality in  
Residential Buildings**

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

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

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

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

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

BSR/ASHRAE Addendum a to ANSI/ASHRAE Standard 62.2-2022, *Ventilation and Acceptable Indoor Air Quality in Residential Buildings*  
First Public Review Draft

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

## FOREWORD

*Standard 62.2 has recently revised the minimum filtration requirement. This proposed addendum simplifies the filtration credit available in Section 4.1.4, Ventilation-Rate Reduction for Particle Filtration. Currently this section allows a wide range of filter efficiencies to qualify. This addendum proposes to narrow that range and significantly simplify the section. Other than eliminating the credit for low-performing filters, this revision does not substantially change the effect of this section.*

*New Section 7.6, Filtered Air Delivery Rate, establishes the minimum qualifying filter that is allowed to get credit for PM reductions. (A qualifying filter is roughly MERV 13 or better depending on which test method is used.) The section then calculates the Particle Reduction Factor (PRF) resulting from the design of the system. The equation for PRF is based on the continuity equation (i.e., mass balance) with and without additional air cleaning; it assumes typical values for 62.2-compliant air change rates and particle deposition rates.*

*New references are cited in this revision and those are listed to be added to Section 10.*

***[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 a to 62.2-2022

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***Revise Section 4.1.4 and delete Tables 4-2, 4-3, 4-4 as shown below.***

**4.1.4 Ventilation-Rate Reduction for Particle Filtration.** This section describes the requirements necessary to apply a credit against the minimum total ventilation rate of this standard. This credit applies during any period in which the requirements of Sections 4.1.4.1, 4.1.4.2, and 4.1.4.3 are met. In these cases,

$$Q_{\text{filtration, credit}} = 0.2 \times Q_{\text{tot}} \quad (4-8)$$

where  $Q_{\text{tot}}$  is the total ventilation rate of Section 4.1.1 as modified by Section 4.1.3 and any required additional airflow of Section A3, and  $Q_{\text{filtration, credit}}$  is the credit for filtration, which shall be used to reduce  $Q_{\text{tot}}$  in Section 4.1 for that period.

**4.1.4.1 Air Distribution System.** The filtered air shall be supplied to or returned from all rooms in the habitable space through an air-handling system. Systems that combine filtration air distribution and HVAC distribution, such as an air-handling system that supplies air from (or returns air to) the filter from every bedroom and living area, comply with this requirement but are not required.

**4.1.4.2 Particle Filtration.** Recirculated air shall be passed through a *filter* with a maximum filtration factor of 4.3 as determined in accordance with Section 4.1.4.2.1. ~~The Particle Reduction Factor shall be at least 2.1 based on~~

the daily average Filtered Air Delivery Rate (see Section 7.6). Outdoor and recirculated air are also subject to the requirements of Section 6.7, which may require additional filtration depending on the system design.

**4.1.4.2.1 Filtration Factor.** The filtration factor of an air filter ( $f_{fr}$ ) shall be determined using one of the following methods:-

- a. Filters tested to ASHRAE Standard 52.2: Identify the filtration factor from the row in Table 4-2 associated with the MERV designation.
- b. Filters tested to AHRI 680: Identify the filtration factor from the row in Table 4-3 for which the measured particle size efficiencies are no less than the values listed in the row.
- c. Filters with an alternative method providing PM<sub>2.5</sub> efficiency as approved by the authority having jurisdiction: Identify the filtration factor from the row in Table 4-4 for which the PM<sub>2.5</sub> efficiency is no less than the value listed in the row.

**4.1.4.3 Airflow Rate.** The minimum airflow rate passing through the filter is shown in Equation 4-9:

$$Q_{fr} = f_{fr} Q_{tot} \quad (4-9)$$

where  $Q_{fr}$  is the time average flow rate of filtered, recirculated air delivered by the air handling system. The period of time for averaging the flow shall not exceed one day. If the period exceeds 12 hours, controls shall be provided to ensure that the system also provides at least 10% of  $Q_{fr}$  every 12-hour period.

**Table 4-2 Filtration Factor for Filters Tested to ASHRAE Standard 52.2**

MERV	$f_{fr}$
11	4.3
12	3.0
13	2.1
14	1.8
15	1.7
16	1.6

**Table 4-3 Filtration Factor for Filters Tested to AHRI 680**

Particle Size Efficiency (0.30 to 1.0 $\mu\text{m}$ )	Particle Size Efficiency (1.0 to 3.0 $\mu\text{m}$ )	$f_{fr}$
0	65	4.3
0	80	3.0
25	85	2.1
75	90	1.8
85	90	1.7
95	95	1.6

**Table 4-4 Filtration Factor for Filters with a PM<sub>2.5</sub> Efficiency Designation**

PM <sub>2.5</sub> Efficiency	$f_{fr}$
35%	4.3
50%	3.0

70%	2.1
85%	1.8
90%	1.7
95%	1.6

**4.1.4.34.1.4.4 Installation and Maintenance.** All filters shall be readily accessible from within the occupiable space. Filters shall be installed using methods to minimize air bypass. In addition to the instruction and labeling requirements of Section 6.2, the filter designation required to meet the filtration requirements for this system shall be prominently displayed on or near the filter housing access door.

**Add new Section 7.6 as shown below.**

**7.6 Filtered Air Delivery Rate.** Where particle filters are used in conjunction with air-moving equipment, this section shall be used to determine the filtered air delivery rate (FADR) and the Particle Reduction Factor (PRF) as needed. The FADR at any one time shall be the sum of the individual FADR from devices or equipment operating at that time, calculated using Equation 7-1

$$FADR = \sum_{i=1}^n FADR_i \quad (7-1)$$

where

$FADR$  = filtered air delivery rate at any one time

$n$  = the number of devices or equipment providing an FADR at any one time

$FADR_i$  = the FADR for the  $i^{\text{th}}$  device or equipment

If no rated air cleaners or qualifying filters are in operation, the FADR shall be zero.

**7.6.1 Air cleaners.** Where stand-alone air cleaners are in operation and are certified by ANSI/AHAM AC-1, or equivalent, the FADR for that device shall be the reported CADR for PM<sub>2.5</sub> divided by the floor area, calculated using Equation 7-2.

$$FADR_i = CADR_i / A_{\text{floor}} \quad (7-2)$$

where

$FADR_i$  = filtered air delivery rate for the  $i^{\text{th}}$  stand-alone air cleaner, cfm/ft<sup>2</sup> (L/s/m<sup>2</sup>)

$CADR_i$  = the reported CADR for PM<sub>2.5</sub> for the  $i^{\text{th}}$  stand-alone air cleaner, cfm (L/s)

$A_{\text{floor}}$  = dwelling-unit floor area, ft<sup>2</sup> (m<sup>2</sup>)

**7.6.2 Other air moving equipment.** Other air moving equipment shall have an FADR equal to 0.85 times the amount of recirculated air flowing through qualifying filters,  $Q_{\text{recirculated}}$ , divided by the floor area, calculated using Equation 7-3.

$$FADR_i = 0.85 \cdot Q_{\text{recirculated},i} / A_{\text{floor}} \quad (7-3)$$

where

$FADR_i$  = filtered air delivery rate for the  $i^{\text{th}}$  stand-alone air cleaner, cfm/ft<sup>2</sup> (L/s/m<sup>2</sup>)

$Q_{\text{recirculated},i}$  = recirculated airflow of the  $i^{\text{th}}$  device or equipment, cfm (L/s)

$A_{\text{floor}}$  = dwelling-unit floor area, ft<sup>2</sup> (m<sup>2</sup>)

**7.6.3 Qualifying filters.** A filter is qualifying if it has a certified filtration efficiency of at least 50% for 1-micron particles. A filter is deemed as qualifying if it is a filter:

- of at least MERV 13 as determined by ASHRAE Standard 52.2; or
- with at least an 85% efficiency rating in the 1.0-3.0-micron range as determined by AHRI 680; or

BSR/ASHRAE Addendum a to ANSI/ASHRAE Standard 62.2-2022, *Ventilation and Acceptable Indoor Air Quality in Residential Buildings*

First Public Review Draft

- having an ePM1 efficiency of at least 50% as determined by ISO 16890; or
- that is part of an air cleaning device rated by AHAM AC-1, or equivalent; or
- that is accepted as a High Efficiency Particle Air (HEPA) filter by the authority having jurisdiction.

**7.6.4 Particle Reduction Factor.** The Particle Reduction Factor (PRF) shall be calculated using Equation 7-4a (I-P) or 7-4b (SI).

$$PRF = 1 + 8.8 * FADR \quad (7-4a)$$

where

PRF = particle reduction factor, unitless

FADR = daily average filtered air delivery rate, cfm/ft<sup>2</sup>

$$PRF = 1 + 1.7 * FADR \quad (7-4b)$$

where

PRF = particle reduction factor, unitless

FADR = daily average filtered air delivery rate, L/s/m<sup>2</sup>

**Add new references to Section 10 as shown below.**

## 10. References

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

**1111 19th Street NW, Suite 402**

**Washington DC 20036**

**(202) 872-5955; <https://www.aham.org/>**

*ANSI/AHAM AC-1-2020. Method for Measuring Performance of Portable Household Electric Room Air Cleaners; Section 7.6.1, 7.6.3*

### **International Organization for Standardization (ISO)**

**Ch. de Blandonnet 8, CP 401**

**CH-1214 Vernier, Geneva, Switzerland**

**+41 22 749 01 11; [www.iso.org](http://www.iso.org)**

*ISO 16890 (2016) Air Filters for General Ventilation. Section 7.6.3*



**BSR/ASHRAE/IES Addendum f  
to ANSI/ASHRAE/IES Standard 90.2-2018**

**Public Review Draft**

# **Proposed Addendum f to Standard 90.2-2018, High-Performance Energy Design of Residential Buildings**

**First Public Review (February 2023)  
(Draft Shows Proposed Changes to Current Standard)**

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

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

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

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## FOREWORD

*The revised Title, Purpose and Scope (TPS) of 90.2 now includes reduction of Greenhouse Gas (GHG) emissions. Additionally, the ANSI/RESNET/ICC 301-2022 Standard which 90.2 references for compliance score calculations now include a CO<sub>2e</sub> calculation for GHG emissions in residential buildings. Preliminary analysis indicates that a CO<sub>2e</sub> Index of 55 would be an appropriate starting point for this criterion in ASHRAE Standard 90.2. Most homes complying with the 90.2 ERI requirement would also be able to comply with a CO<sub>2e</sub> Index requirement of 55 or less.*

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

## Addendum f to 90.2-2018

*Modify Section 6 as follows and renumber remaining sections:*

### 6. PERFORMANCE REQUIREMENTS

**6.1** The dwelling unit shall be planned, designed, and constructed to achieve both the Energy Rating Index (ERI) by climate zone shown in Table 6-1 and a CO<sub>2e</sub> Index of 55 or less.

**6.1.12** The ERI of the proposed design shall be determined using the energy simulation program conducted in accordance with ANSI/RESNET/ICC Standard 301-2022~~14~~, including Addenda A-2015 and E-2018, as modified by the modeling requirements included in Normative Appendices A and B.

**6.1.2** The CO<sub>2e</sub> Index of the proposed design shall be determined using the energy simulation program conducted in accordance with the provisions of ANSI/RESNET/ICC Standard 301-2022, including Addendum B-2022.

**6.23 On-Site Power Utilization.** When on-site power production is used to meet the ERI requirements of Section 6.1, the following requirements for building thermal envelope and envelope air leakage shall be met.

...

*Modify Section 9 as follows:*

### 9. REPORTING REQUIREMENTS



**9.1.10 The achieved CO<sub>2</sub>e Index of the proposed design and the as built construction, calculated according to Equation 8-1 of ANSI/RESNET/ICC Standard 301-2022 Addendum B-2022 shall be reported to be equal to or less than 55.**

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## NSF/ANSI Standard for Food Equipment –

# Dispensing Freezers

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## 2 Normative 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 most recent editions of the documents indicated below. The most recent published edition of the document shall be used for undated references.

40 CFR § 180.940, *Tolerance exemptions for active and inert ingredients for use in antimicrobial formulations (Food-Contact Surface Sanitizing Solutions)*

~~ANSI Z97.1 – 2009, *Safety Glazing Materials Used in Buildings – Safety Performance Specifications and Methods of Test*~~

APHA, *Standard Methods for the Examination of Dairy Products*, 17<sup>th</sup> edition

APHA/AWWA/WEF, *Standard Methods for the Examination of Water and Wastewater (hereinafter referred to as Standard Methods)*, 21<sup>st</sup> edition

IEEE/ASTM SI 10 – 2016, *American National Standard for Metric Practice*

NSF/ANSI 2, *Food Equipment*

NSF/ANSI 51, *Food Equipment Materials*

NSF/ANSI 170, *Glossary of Food Equipment Terminology*

~~UL 197 – 2010, *Standard for Commercial Electrical Cooking Appliances*~~

*Rationale: ANSI/UL cross references were moved to Standard 51 in the 2012 publication but were never removed from this Normative Reference List.*

**6.1.2.2** The equipment shall be operated so that food contact surfaces are exposed to the *E. coli* and product mix suspension. If a remote product supply system is being tested, the remote line set shall be filled with *E. coli* and product mix suspension so all food contact surfaces are exposed (i.e., no air in remote line set). The equipment shall then be CIP according to the manufacturer's instructions and refilled with sterile buffered dilution water (SBDW). The SBDW shall be dispensed and five 100 mL samples shall be

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collected at intervals from the start of the dispensing until the unit is empty. When adequate sample volumes cannot be realized, more SBDW shall be added accordingly. The equipment shall then be operated so that food contact surfaces intended for CIP are exposed to the SBDW. Sufficient SBDW shall then be dispensed. The challenge organisms present in each sample shall be collected and enumerated using the Standard Total Coliform Membrane Filter Procedure in accordance with *APHA-Standard Methods for the Examination of Water and Wastewater*.

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#### 6.5.2.2 For machines with prepackaged product

The dispensing freezer shall be operated in accordance with the manufacturer's instructions. After the freezer dispenses and discards 250 mL of product, a heat treatment cycle shall be started. Upon completion of one heat treatment cycle, four 40-mL samples shall be collected by dispensing product into sample bottles. 40 mL of product shall be dispensed and discarded between each two sample collections. The freezer shall be allowed to operate for a total of 24 h, including a minimum of 12 h in the standby mode (if available) before starting the next heat treatment cycle. Prior to the start of the next heat treatment cycle, the product path shall be refilled with inoculated product mix (challenge suspension) so that the *E. coli* density in the product path is at least  $1 \times 10^4$  CFU/mL. The procedures described in this paragraph shall be repeated each day for as many days (not to exceed 92 d) as is recommended by the manufacturer between manual cleaning and sanitization of the dispensing freezer.

All samples and controls shall be enumerated by the Standard Plate Count and Violet Red Bile Agar Pour Plate Methods in accordance with *APHA-Standard Methods for the Examination of Dairy Products*.

All product tubing and connectors shall be inspected each day of the test for any deterioration, deformation, or product leakage.

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### N-1.5 Reagents

- sterile buffered dilution water (SBDW) shall be prepared according to *APHA-Standard Methods for the Examination of Water and Wastewater* (dilution water : buffered water);
- sodium thiosulfate solution 10% ( $\text{Na}_2\text{S}_2\text{O}_3$ ) shall be prepared by adding 100 g reagent grade sodium thiosulfate per 900 mL DI water, and autoclaved for 30 min at  $121 \pm 1$  °C ( $250 \pm 1$  °F);
- sodium hydroxide (NaOH) solution. 1 N shall be used to adjust pH of reagents;
- hydrochloric acid (HCl) solution. 1 N shall be used to adjust pH of reagents;
- neutralizer stock solution shall be prepared as follows: 40 g lecithin, 280 mL Tween 80, and 1.25 mL phosphate buffer shall be mixed together with 1 L distilled water. pH shall be adjusted to 7.2. Solution shall be dispensed into 100-mL portions and autoclaved 15 min at  $121 \pm 1$  °C ( $250 \pm 1$  °F); and
- phosphate buffer solution shall be prepared according to *APHA-Standard Methods for the Examination of Water and Wastewater* (dilution water : buffered water).

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*Rationale: Updated Standard Methods reference to conform to NSF formatting guidelines and to eliminate repetitive use of the reference title.*

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#### N-1.8.2 Challenge culture preparation

- a) 1 mL of the stock culture shall be transferred to a TSA slant prepared in a French bottle with a surface approximately 75 cm<sup>2</sup> in area. The media shall then be incubated at 36 ± 1 °C (97 ± 1 °F) for 24 h.
- b) Cells shall be washed from agar surface with 5 mL of SBDW. Agar surface shall be scraped with sterile disposable loops.
- c) The density of *E. coli* culture suspension ~~must~~ shall be between 1 and 5 × 10<sup>6</sup> colony forming units (CFU) per mL.

*Rationale: Replacing “must” with “shall” per ANSI guidelines.*

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## NSF/ANSI Standard For Wastewater Technology –

### Disinfection Mechanics

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#### 7.6.1.4.1 Optional testing for lower transmittance

There are certain treatment technologies that use organic or natural media (peat, coconut, etc.) as part of the treatment process which affect the UV transmittance. In order to demonstrate that a UV technology can provide disinfection after such technologies, an optional stress test may be performed at the end of the sampling as noted in Section 7.6.1.3. For this optional stress test the UV transmittance shall be adjusted from the range shown in Table 1.1 to a range of 40% to 55% per cm transmittance.

The optional lower transmittance UV testing is not intended to be a comprehensive evaluation of the disinfection system in prolonged lower UV transmittance conditions. It is intended to demonstrate the effectiveness of the disinfection system in temporary lower transmittance conditions. If prolonged lower transmittance conditions are anticipated, additional testing may be necessary to assure the system will continue to disinfect the effluent.

This optional stress test will have a duration of 1 wk at the end of testing according to Section 7.6.1.3 and will include two grab samples of effluent from the UV system. The influent and effluent grab samples shall be collected on Day 3 and Day 7 of the stress test. Results of this optional stress test shall be included in the final report, but the sample results shall not be included in the pass/fail criteria of Section 1.5.

#### 7.6.1.4.1 UV absorbent

UV absorbent shall be added to the influent to reach the lower transmittance levels in Section 7.6.1.4. The UV absorbent shall be comprised of either:

- vanillin (CAS# 121-33-5) and SuperHume® (or equivalent). The vanillin and SuperHume® shall be combined while maintaining a ratio of 1.0 mg of vanillin to 0.02 mL SuperHume®; or
- sodium thiosulfate. The sodium thiosulfate shall be dissolved in deionized water prior to addition to the test water.

These compounds shall be diluted as needed prior to addition to the test water with deionized water.

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## BSR/UL 20, Standard for Safety for General-Use Snap Switches

### 4. Spring Action Clamp Terminal

#### PROPOSAL

**2.19.1 TERMINAL, SPRING ACTION CLAMP** – A terminal where the stripped end of a conductor is inserted into the terminal and a manually operated integral lever ~~applies~~ enables clamping pressure to a spring mechanism, without the use of screws.

Table 14A  
Test values for spring action clamp terminal pull test

Size of conductor AWG	Pullout force <u>N (lbf)</u> <del>(pounds)</del>
16	<u>40 (9)</u>
14	<u>51.2 (11.5)</u>
12	<u>60.0 (13.5)</u>
10	<u>80.1 (18.0)</u>
8	<u>91.2 (20.5)</u>
6	<u>93.4 (21)</u>
4	<u>133.4 (30)</u>

### 5. Separable Terminal Assembly Construction

#### PROPOSAL

##### 1 Scope

1.1 The requirements of this Standard apply to manually operated, general-use snap switches and modular switch assembly for connection to copper (Cu) or copper-clad conductors used in accordance with the National Electrical Code (NEC), ANSI/NFPA 70, or the Canadian Electrical Code (CE Code), Part I, and intended to be permanently connected in accordance with the NEC and the CE Code, Part I. In Canada, requirements for switches for connection to aluminum (Al) conductors used in accordance with the CE Code, Part I, and intended for connection to wiring systems recognized by the CE Code, Part I, are covered in Annex B.

1.8.1 A modular switch assembly is considered to be a general-use AC only flush switch.

**2.13 TERMINAL ASSEMBLY, SEPARABLE** – A two-piece terminal assembly provided with an integral mechanical latching mechanism(s). ~~May be either installed (i.e., special purpose connector) into a device box or secured (i.e., back plate) to the device box. It c~~ Consists of permanently attached pins or tabs located on the body of the switch which are capable of receiving a special purpose connector or back plate connector with leads or wiring terminals for connection to the branch circuit conductors. May be one of the constructions described below:

- a) A back plate connector that is secured to the device box; or
- b) A special-purpose connector that is installed into a device box.

~~4.5.3.19.1 A switch employing a separable terminal assembly that is secured (i.e., back plate) to a device box shall be rated 15 A only and shall have solid or stranded 14 AWG (2.1 mm<sup>2</sup>) copper conductors or larger.~~

4.5.3.19.1 A modular switch assembly with a special-purpose connector type may be rated either 15 or 20 A only and shall have solid or stranded 14 AWG (2.1 mm<sup>2</sup>) copper conductors for 15 A, or 12 AWG (3.3

mm<sup>2</sup>) for 20 A. The special-purpose connector shall be keyed to prevent interchangeability of differently rated devices.

4.5.3.19.2 A modular switch assembly with a back plate connector type shall be rated 15 A Only. The back plate shall have solid or stranded 14 AWG (2.1 mm<sup>2</sup>) copper conductors or larger or provided with field wiring terminals.

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## BSR/UL 2904, Standard for Standard Method for Testing and Assessing Particle and Chemical Emissions from 3D Printers

### 1. Proposed Second Edition of UL 2904, Standard Method for Testing and Assessing Particle and Chemical Emissions from 3D Printers

## PROPOSAL

### 3.7 Aldehydes (ALD)

Aldehydes are low molecular weight organic compounds containing a functional group with the empirical formula, structure—CHO and structural formula, HC(=O). The measured aldehydes are 2-butenal, acetaldehyde, benzaldehyde, 2,5-dimethylbenzaldehyde, 2-methylbenzaldehyde, 3 (and/or) 4-methylbenzaldehyde, butanal, 3-methylbutanal, formaldehyde, hexanal, pentanal, and propanal, individually calibrated to a traceable compound specific standard via High-Performance Liquid Chromatography (HPLC) analysis

#### 3.21 Mass/Number Concentration

Mass/number of particles or mass of VOC per unit air volume at room temperature and atmospheric pressure.

#### 5.4 High-Performance Liquid Chromatography Equipped with a UV Detector

Formaldehyde, acetaldehyde, and other low molecular weight aldehydes samples shall be analyzed by HPLC equipped with a UV detector and an analytical column providing full resolution of the formaldehyde hydrazone derivative from unreacted 2,4-dinitrophenylhydrazine (DNPH) in a sample.

The analytical methods for formaldehyde, acetaldehyde, and other low molecular weight aldehydes shall be based on ASTM D5197 or an equivalent method. It is recognized that unsaturated low molecular weight aldehydes such as acrolein are not accurately determined by this method. Additionally, 2-butenal is subject to artifact effects (Ho et al., 2011). Aldehydes with molecular weights equal or greater than that of butanal can be analyzed by TD-GC/MS.

#### 6.1.2 Print Object for Double Extrusion Printers

The test print for a double extrusion printer is to print a template file called Dual Material Test Print by dkschmidt. (This template can be downloaded at <https://www.thingiverse.com/thing:4768255>). An L-shaped object will be printed (see Appendix D.3.2). The print time may vary with different 3D printers, therefore the file (print size) is to be adjusted to print for 4 hours using normal/manufacturer recommended 3D printer settings. The finished printed object shall weigh at least 25 g.

It is recommended to perform a rough calculation to predict the mass of finished product prior to the test using hardware and software parameters such as extrusion speed, density of the filament, filling percentage/density, and raft/skirt/brim options.

~~The test print is to print a template file called Dual Material Test Print by dkschmidt. (This template can be downloaded at <https://www.thingiverse.com/thing:4768255>)~~

~~An L-shaped object will be printed (see Appendix D.3.2). The print time may vary with different 3D printers, therefore the file (print size) is to be adjusted for 4 hours using normal manufacturer recommended 3D printer settings. The finished product must weigh at least 25.0 g.~~

#### 6.2 Preparation of the Test 3D Printer



The period of time between unpacking and preparation of the test 3D printer and feedstock shall be as short as practical, with exceptions reported. The time of placement of the test 3D printer in the conditioning environment shall be recorded.

NOTE: If printer is pre-loaded with filament, there may be a rise in concentration during the warm-up phase, this is to be included in calculations.

### 6.3 Feedstock

The testing laboratory shall be provided with the exact name, manufacture, color of the feedstock, For each device, the feedstock in the device shall be as specified in the manufacture's instruction manual or website. The testing laboratory shall be provided with the exact name, manufacture, color of the feedstock, diameter, lot number or another form of traceability, such as spool identification number, the minimum, maximum, and recommended print settings and nozzle temperatures, and recommended extrusion speed for that feedstock. A current Safety data sheet (SDS), CAS number(s), the country of origin of main polymer additives/dyes should be provided. Each feedstock with any variation in the parameters listed above shall be tested separately. If applicable, recommended platform temperature and adhesives or surface preparation should be provided. In any case, reserve samples are highly recommended.

Examples of typical feedstock include, but are not limited to, polylactic acid (PLA), acrylonitrile butadiene styrene (ABS), thermoplastic polyurethane (TPU), nylon, and polycarbonate.

The feedstock shall be stored according to the manufacturer's instructions until the test, and the feedstock shall be provided in sufficient quantities.

NOTE: During storage, chemical contamination should be avoided.

#### 8.6.1 Particles

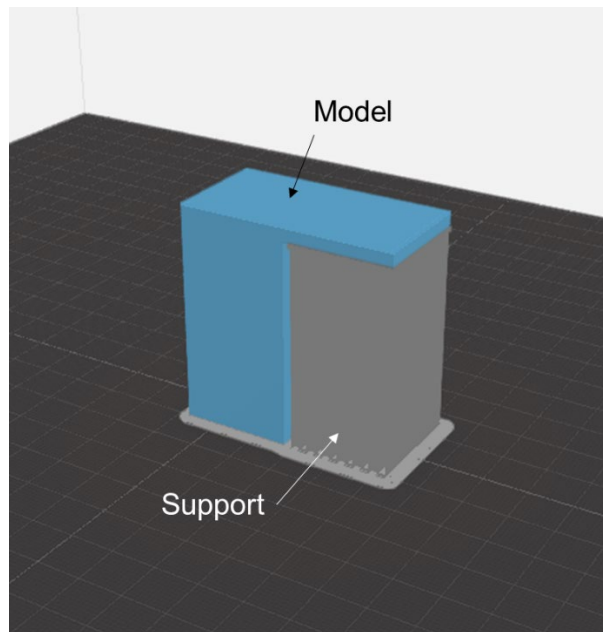
Coarse, fine, and ultrafine particle measurements, ~~MCE filter samples, and microscopy samples~~ shall be collected during pre-operating phase, printing phase, and post-operating phase. If applicable, MCE filter samples and microscopy samples can be collected for off-line analyses.

#### 12.3.2 Data on the Tested 3D Printer and Feedstock

- Precise product specification, indicate of the desk-top or standalone device, model number, print speed specified by the manufacturer, etc. If 3D printer information is unobtainable, the testing laboratory should keep a retention sample.
- 3D printer parameters used for the test. If applicable, recommended platform material, platform temperature, and adhesives or surface preparation as well.
- Feedstock type and product specifications: The exact name, manufacture, color of the feedstock, lot number, diameter, minimum, maximum, and recommended nozzle temperatures, and recommended extrusion speed for that feedstock. A current SDS, CAS number(s), the country of origin of main polymer, additives/dyes should be reported.
- Production date of 3D printer and feedstock
- Date of receipt
- Type of packaging
- Storage time and conditions (temperature and humidity) before the test for 3D printer and feedstock

#### D.3.2 Template for Print Object for Double Extrusion Printer

<https://www.thingiverse.com/thing:4768255>



## Appendix G – Particle Characterization

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### **H.3.2 Composites**

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**BSR/UL 9540, Standard for Safety for Energy Storage Systems and Equipment****1. Revisions to Marking Criteria and Inclusion of AC and DC ESS Concepts.****PROPOSAL**

6.1A AC ESS – An energy storage system ~~containing~~ comprised of the energy storage function and energy storage protective function which are evaluated for functional safety, and electrical power conditioning or conversion function, providing AC output field wiring terminals. See Figure 6.1.

6.5A DWELLING UNIT – See the definition for “dwelling unit” in Chapter 3, Definitions of NFPA 855, in Section 0\_ the Definitions section of CSA C22.1, in the General Definitions, Section 202 of ICC IFC, and in Chapter 2, Definitions of ICC IRC.

23.2.1 Electrochemical type ESS, including but not limited to capacitor and battery ESS, shall be subjected to large scale fire testing in accordance with UL 9540A as follows in (a) – (d):

- a) Systems with increased energy capacities as required in codes and standards;
- b) Systems with decreased separation distances to adjacent ESS units, doors and windows, or exposures. See 42.2 and/or 42.4;
- c) Indoor systems; or
- d) Systems for installation in dwelling units residential dwellings (where permitted).

NOTE: See Appendix E for guidance on code limits related to separation distances and energy capacity.

23.2.3 Electrochemical ESS intended for use in dwelling units residential applications where UL 9540A testing is indicated per the codes and standards, shall minimally meet the Unit Level Performance Criteria for residential installations identified in UL 9540A with a test that aligns with the manufacturer’s installation instructions. These ESS shall be marked in accordance with 41.3(e)(3).

42.7 Installation instructions for indoor electrochemical ESS marked “Suitable for Use in Residential Habitable Spaces” shall be permitted to indicate the units are suitable for use in residential dwellings- units, including in the living or habitable spaces, provided that they meet the criteria as noted in 23.2.2

**5. Clarification of Impulse waveform in 29.2.****PROPOSAL**

**Table 29.1**  
**Impulse voltages**

Voltage of Circuit Under Test <u>Vac or Vdc</u>	Impulse test voltage, voltage between circuits and accessible parts			
	Circuits not connected to mains		Circuits connected to mains	
	Basic or supplementary insulation <b>V</b>	Reinforced insulation <b>V</b>	Basic or supplementary insulation <b>V</b>	Reinforced Insulation <b>V</b>
≤ 50	500	800	800	1500
100	800	1500	1500	2500
150	1500	2500	2500	4000
300	2500	4000	4000	6000
600	4000	6000	6000	8000
1000	6000	8000	8000	12000
> 1000	a	a	a	a

<sup>a</sup> Extrapolation is permitted for circuits above 1000 V.

**14. Addition of references to component standards.****PROPOSAL**

**NOTE FROM UL STP PROJECT MANAGER: ONLY PART OF 5.1 (WITH PROPOSED REVISIONS) IS SHOWN FOR EASE OF REVIEW**

**5 Normative References**

5.1 The following standards are referenced in this standard, and portions of these referenced standards may be essential for compliance. Energy storage systems covered by this standard shall comply with the referenced installation codes and standards as appropriate for the country where the energy storage system is to be installed. When the energy storage system is intended for use in more than one country, the energy storage system shall comply with the installation codes and standards for all countries where it is intended to be used.

~~IEC 61034-2, Measurement of Smoke Density of Cables Burning Under Defined Conditions – Part 2: Test Procedure and Requirements~~

~~UL 2885, Acid Gas, Acidity and Conductivity of Combusted Materials and Assessment of Halogens~~

**10 General Electrical Safety of Systems and Additional Requirements for Walk-in Units**

~~10.19 Electrical wiring and supply connections shall meet the requirements of low smoke in accordance with IEC 61034-2, halogen free in accordance with UL 2885, and a minimum V-0 rating in accordance with UL 94 or CSA-C22.2 No. 0.17.~~

**15. Revisions for flywheel ESS throughout the Standard.****PROPOSAL**

33.4.2 The mechanical energy storage element shall be subjected to an overspeed type test demonstrating the required factor of safety. The DUT shall be representative of the latest design revision and subjected to an overspeed and corresponding stress as follows in (a) or (b). For the purpose here, rotor working stress is presumed to scale exactly as the square of the rotation speed.

- a) Where the minimum required factor of safety is 2.0, the overspeed shall be at least 139%. The DUT shall sustain the overspeed for a time period of 1 min without ruptures in of any part of the assembly.
- b) Where the minimum required factor of safety is 1.3, the overspeed shall be 120% minimum. The DUT shall sustain the overspeed for a time period of 1 min. Yielding of the material during the test is permitted as long as the test requirement is met and the DUT can be shut down afterward in a normal manner (i.e. through braking or discharge of the stored energy). This condition implies that margin between the maximum Von Mises stress in the part at normal operating speed and the ultimate tensile strength of the material must be greater than 1.45 to successfully pass the overspeed test.