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# Project Initiation Notification System (PINS)

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

Following is a list of proposed actions and new ANS that have been received recently from ASDs. Please also review the section in Standards Action entitled "American National Standards Maintained Under Continuous Maintenance" for additional or comparable information with regard to standards maintained under the continuous maintenance option. Use the following Public Document Library url to access PDF & EXCEL reports of approved & proposed ANS: [List of Approved and Proposed ANS](#)

Directly and materially affected interests wishing to receive more information or to submit comments are requested to contact the standards developer directly within 30 days of the publication of this announcement.

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

Tanisha Meyers-Lisle; [tmlisle@ashrae.org](mailto:tmlisle@ashrae.org) | 180 Technology Parkway | Peachtree Corners, GA 30092 [www.ashrae.org](http://www.ashrae.org)

### **Revision**

BSR/ASHRAE Standard 41.1-202X, Standard Methods for Temperature Measurement (revision of ANSI/ASHRAE Standard 41.1-2020)

Stakeholders: The stakeholders that are likely to be directly impacted by this revision include: Consumers of HVAC&R products, test labs operated by HVAC&R product manufacturers, independent test labs, and higher-tier standards project committees.

Project Need: This revision will make changes in the text to make it easier for higher-tier ASHRAE standards to adopt this standard by reference. It will also incorporate the new steady-state criteria figures and corresponding text changes, update the uncertainty portions to include pre-test and post-test uncertainty methods, redo the uncertainty example to be in accordance with the updated uncertainty methods, and include air-mixing methods based upon the results of ASHRAE RP-1733.

Interest Categories: Producer, User, General.

Scope: This standard prescribes methods for measuring temperature under laboratory and field conditions. Temperature measurements are required for system performance tests and for testing heating, ventilating, air-conditioning, and refrigerating components.

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

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**Reaffirmation**

BSR/ASHRAE Standard 41.10-2020 (R202x), Standard Methods for Refrigerant Mass Flow Measurement Using Flowmeters (reaffirmation of ANSI/ASHRAE Standard 41.10-2020)

Stakeholders: The stakeholders that are likely to be directly impacted by this revision include: Consumers of HVAC&R products, Test labs operated by HVAC&R product manufacturers, Independent test labs, and Higher-tier standards project committees.

Project Need: This revision will make changes in the text to make it easier for higher-tier ASHRAE standards to adopt this standard by reference. It will also incorporate the new steady-state criteria figures and corresponding text changes, update the uncertainty portions to include pre-test and post-test uncertainty methods, and redo the uncertainty example to be in accordance with the updated uncertainty methods

Interest Categories: General, User, Producer.

Scope: This standard prescribes methods for refrigerant mass flow rate measurement in laboratory and field applications using flowmeters. Refrigerant mass flow rate measurements are required for compressor performance tests and for testing other heating, ventilating, air-conditioning, and refrigerating systems and components. Each refrigerant mass flow rate is determined by subtracting the measured lubricant mass flow rate from the measured refrigerant/lubricant mixture mass flow rate.

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

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**Revision**

BSR/ASHRAE Standard 41.11-202X, Standard Methods for Power Measurement (revision of ANSI/ASHRAE Standard 41.11-2020)

Stakeholders: The stakeholders that are likely to be directly impacted by this revision include: Consumers of HVAC&R products, Test labs operated by HVAC&R product manufacturers, Independent test labs and Higher-tier standards project committees.

Project Need: This revision will make changes in the text to make it easier for higher-tier ASHRAE standards to adopt this standard by reference. It will also incorporate the new steady-state criteria figures and corresponding text changes, update the uncertainty portions to include pre-test and post-test uncertainty methods, and redo the uncertainty example to be in accordance with the updated uncertainty methods.

Interest Categories: General, User, Producer.

Scope: This standard applies to power measurements under laboratory and field conditions when testing, heating, ventilating, air-conditioning, and refrigerating systems and components.

**ASTM (ASTM International)**

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

***New Standard***

BSR/ASTM WK80705-202x, New Terminology for Relating to Gunshot Residue Analysis (new standard)

Stakeholders: Criminalistics Industry

Project Need: There is currently no comprehensive terminology document for gunshot residue analysis that has been generated through a consensus process. This standard is intended to fill that void.

Scope: The promotion of knowledge and development of standards (test methods, guides, practices, classifications, and terminology) for, but not limited to, definitions, methods and standard reference materials for the collection, preservation, scientific examination, preparation and reports relating to physical evidence for forensic purposes; and the general practice of forensic science; and other areas as determined by the scope. The activities of this Committee will be coordinated with other ASTM committees of ASTM and outside organizations having related interests.

**ASTM (ASTM International)**

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

***New Standard***

BSR/ASTM WK80871-202x, New Practice for Evaluating Water-Miscible Metalworking Fluid Foaming Tendency by Recirculation Testing (new standard)

Stakeholders: Health and Safety Standards for Metal Working Fluids Industry

Project Need: There is a need for a standard test method in which foam control persistence and knockdown are tested with the ability to alter temperature, water hardness, speed, pressure and filtration depending on the application.

Scope: Many foam test methods provide insight into either foam knockdown or initial foaming behavior of a system. These methods do not always simulate the field application for metal working fluids as they are used over extended periods of time.

**ASTM (ASTM International)**

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

***New Standard***

BSR/ASTM WK80925-202x, New Test Method for Draft Standard Test Method for Determining the Combustion Behavior of Layered Assemblies using a Cone Calorimeter (new standard)

Stakeholders: Smoke and Combustion Products Industry

Project Need: These additional data have been proved to be useful to predict the full-scale performance of multi-layered products containing fire barriers.

Scope: This draft standard yields additional information to cone calorimetry, not provided by E1354, including: (a) appearance of liquid products (generated by either melting or pyrolysis of the specimen) over the bottom surface of the specimen, (b) dripping of liquid products and consequent pool formation underneath the specimen, (c) appearance of flaming over the bottom surface of the specimen or the liquid pool (pool fire), and (d) formation of a hole connecting the top to the bottom of the specimen (burn-through).

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

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

***New Standard***

BSR/CSA NGV 4.3-202x, Temperature compensation for compressed natural gas vehicle fueling (new standard)

Stakeholders: Consumers, Manufacturers, Gas Suppliers, Certification Bodies

Project Need: Develop a standard for safety and performance.

Scope: This Standard details the safety and performance requirements for temperature compensation control used to prevent compressed natural gas (CNG) dispensing systems from exceeding a safe fill level of vehicle fuel storage container(s). This Standard contains safety performance guidelines for compressed natural gas fueling dispenser temperature compensation systems. It applies to newly manufactured dispensing systems and the field evaluation of existing dispensing systems designed primarily to allow for full fill and to avoid over-pressurization of vehicle fuel storage containers under operating temperature conditions as specified in this Standard. This Standard applies to CNG fueling of vehicle containers with service pressures of P30 [20 700 kPa (3,000 psi)], P30HD [20 700 kPa (3,000 psi)], P36 [24 800 kPa (3,600 psi)], and P36HD [24 800 kPa (3,600 psi)]. P30HD and P36HD are designations used in accordance with CSA/ANSI NGV 1, and throughout the document the use of P30 and P36 are also applicable to P30HD and P36HD, respectively (see Annex A regarding applicable vehicle service pressures). This Standard is applicable to the dispensing of only natural gas that meets the quality specifications contained in ASTM D8080.

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

Jennifer Kirk; jkirk@esda.org | 218 W. Court Street | Rome, NY 13440 www.esda.org

***Revision***

BSR/EOS ESD SP3.4-202X, ESD Association Standard Practice for the Protection of Electrostatic Discharge Susceptible Items - Periodic Verification of Air Ionizer Performance Using a Small Test Fixture (revision of ANSI/ESD SP3.4-2012 (R2017))

Stakeholders: Electronics Industry including telecom, consumer, medical, and industrial

Project Need: This standard practice provides a test fixture example and procedures for performance verification of air ionization used in confined spaces where it may not be possible to use the test fixtures defined in ANSI/ESD STM3.1 or ANSI/ESD SP3.3.

Interest Categories: User, Manufacturer, Supplier, General Interest.

Scope: This standard practice establishes measurement procedures, under recommended conditions, to periodically determine offset voltage (ion balance) and discharge (charge neutralization) times for ionizers in their actual use locations. This standard practice does not include measurements of electromagnetic interference (EMI), or uses of ionizers in connection with ordnance, flammables, explosive items, or electrically initiated explosive devices.

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

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

**Revision**

BSR/ASSE 1086-202x, Performance Requirements for Reverse Osmosis Water Efficiency - Drinking Water (revision of ANSI/ASSE 1086-2020)

Stakeholders: Plumbing professionals, Contractors, engineers

Project Need: There have been significant changes to the reference standards found in this standard. The changes in those standards was the result of new legislation. Therefore, it is necessary to update the references in ASSE 1086.

Interest Categories: Enforcing Authority, Consumer, Manufacturer, General Interest, Research/Standards/Labs, User.

Scope: This standard covers water efficiency, automatic shut-off valves, and flow restrictor requirements for Residential RO systems and performance testing to address the membrane life concerns of high-efficiency RO membranes. This standard includes test requirements for complete systems or components (RO membrane, automatic shut-off valve, flow restrictor).

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

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

**Revision**

BSR/CSA B45.12/IAPMO Z402-202x, Aluminum and copper plumbing fixtures (revision of ANSI/CSA B45.12/IAPMO Z402-2013 (R2018))

Stakeholders: Plumbing Professionals, Contractors, Engineers.

Project Need: New revisions update of requirements and methods.

Interest Categories: General Interest, Installer/Maintainer, Manufacturer, Research/Standards/Testing Lab.

Scope: This Standard covers aluminum and copper plumbing fixtures and specifies requirements for materials, construction, performance, testing, and markings of these fixtures.

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

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

**Revision**

BSR/CSA B45.8/IAPMO Z403-202x, Terrazzo, concrete, composite stone, and natural stone plumbing fixtures (revision of ANSI/CSA B45.8/IAPMO Z403-2018)

Stakeholders: Plumbing Professionals, Contractors and Engineers

Project Need: Revision to update requirements and methods.

Interest Categories: General Interest, Installer/Maintainer, Manufacturer, Research/Standards/Testing.

Scope: This Standard covers terrazzo, concrete, composite stone, and natural stone plumbing fixtures and specifies requirements for materials, construction, performance, testing, and markings of these fixtures.

**OEOSC (ASC OP) (Optics and Electro-Optics Standards Council)**

Patrick Augino; paugino@optimaxsi.com | 75 Barrett Drive, #1190 | Webster, NY 14580 [www.OEOSC.org](http://www.OEOSC.org)

***National Adoption***

BSR OEOSC ISO 10110-7-202x, Optics and Electro-Optical Instruments - Preparation of Drawings for Optical Elements and Systems - Part 7: Surface Imperfections (identical national adoption of ISO 10110-7:2017)

Stakeholders: Designers, manufacturers, and users of optical components and optical systems.

Project Need: Standardized drawings of optical elements and systems improve the quality of communication between suppliers and customers.

Scope: This document is a part of the ISO 10110 series of technical drawing standards for optical elements and systems. It specifies rules for the level of acceptability of surface imperfections within a test region on individual optical elements and optical assemblies.

# 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: April 3, 2022

### 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 62.2i-202x, Ventilation and Acceptable Indoor Air Quality in Residential Buildings (addenda to ANSI/ASHRAE Standard 62.2-2019)

Ozone and similar reactive oxygen species are hazardous both directly and through the indoor chemistry they promote. Some air-cleaning systems may produce ozone intentionally or incidentally. By reference to 62.1, this proposed addendum establishes minimum requirements for ozone emissions of air-cleaning systems that incorporate ultraviolet light or the creation of charged particles, ions, or free radicals.

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

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

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

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

#### Addenda

BSR/ASHRAE Addendum 62.2L-202x, Ventilation and Acceptable Indoor Air Quality in Residential Buildings (addenda to ANSI/ASHRAE Standard 62.2-2019)

This proposed addendum consolidates the operation requirements of the standard into one section, adds a requirement for systems to be maintained, and clarifies that operations and maintenance instructions must be provided via a manual meeting minimum requirements.

[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: April 3, 2022

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

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

#### **Addenda**

BSR/ASHRAE Addendum g to BSR/ASHRAE Standard 15-202x, Safety Standard for Refrigeration Systems (addenda to ANSI/ASHRAE Standard 15-2019)

Draft addendum g to ANSI/ASHRAE Standard 15-2019 proposes a complete rewrite of Section 7.2, "Concentration Limits," and Section 7.3, "Volume Calculations." This second PPR (Independent Substantive Change) proposes modifications based upon comments submitted during the previous public review.

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

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

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

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

#### **Revision**

BSR/NSF 40-202x (i43r1), Residential Wastewater Treatment Systems (revision of ANSI/NSF 40-2020)  
This Standard contains minimum requirements for residential wastewater treatment systems having rated treatment capacities between 1,514 L/d (400 gal/d) and 5,678 L/d (1,500 gal/d). Management methods for the treated effluent discharged from residential wastewater treatment systems are not addressed by this Standard. System components covered under other NSF or NSF/ANSI standards or criteria shall also comply with the requirements therein. This Standard shall in no way restrict new system designs, provided such designs meet the minimum specifications described in this standard.

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

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

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

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

#### **Revision**

BSR/NSF 49-202x (i135r2), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2020)

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

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

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

## Comment Deadline: April 3, 2022

### SPRI (Single Ply Roofing Industry)

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

#### **Revision**

BSR/SPRI RP-4-202x, Wind Design Standard for Ballasted Single-Ply Roofing Systems (revision of ANSI/SPRI RP-4-2019)

This standard provides a method of designing wind uplift resistance of ballasted single-ply roofing systems. It is intended as a design and installation reference for those individuals who design, specify, and install ballasted single-ply roofing systems. It shall be used in conjunction with the installation specifications and requirements of the manufacturer of the specific products used in the ballasted single-ply roofing system.

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

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

### UL (Underwriters Laboratories)

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

#### **National Adoption**

BSR/UL 60079-13-202x, Standard for Safety for Explosive Atmospheres - Part 13: Equipment Protection by Pressurized Room p and Artificially Ventilated Room v (national adoption of IEC 60079-13 with modifications and revision of ANSI/UL 60079-13-2020)

This proposal provides revisions to the proposal document dated September 3, 2021 per comments received.

[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>

### UL (Underwriters Laboratories)

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

#### **National Adoption**

BSR/UL 61800-5-1-202x, Standard for Safety for Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy (national adoption with modifications of IEC 61800-5-1) Recirculation of the following proposals balloted October 15, 2021: (4) VFD Output Conductor Protection.

[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 3, 2022

### UL (Underwriters Laboratories)

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

#### **Revision**

BSR/AAMI/UL 2800-1-202X, Standard for Safety for Medical Device Interoperability (revision and partition of ANSI/AAMI/UL 2800-1-2019)

The second edition of the Standard for Medical Device Interoperability, AAMI/UL 2800-1, is being proposed with only editorial changes to accommodate a reorganization into part standards. AAMI/UL 2800-1 is being proposed as UL 2800-1, 2nd edition, UL 2800-1-1, 1st edition, UL 2800-1-2, 1st edition, and UL 2800-1-3, first edition. This Standard is applicable to interoperable medical products, including assembled systems of interoperable medical products that comprise or are intended to be incorporated into interoperable medical systems within an interoperable environment. This Standard specifies a baseline set of interoperability lifecycle requirements for assuring safe and secure interoperability for interoperable medical systems.

[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>

### UL (Underwriters Laboratories)

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

#### **Revision**

BSR/AAMI/UL 2800-1-1-202X, Standard for Safety for Risk Concerns for Interoperable Medical Products (revision and partition of ANSI/AAMI/UL 2800-1-2019)

The second edition of the Standard for Medical Device Interoperability, AAMI/UL 2800-1, is being proposed with only editorial changes to accommodate a reorganization into part standards. AAMI/UL 2800-1 is being proposed as UL 2800-1, 2nd edition, UL 2800-1-1, 1st edition, UL 2800-1-2, 1st edition, and UL 2800-1-3, first edition. AAMI/UL 2800-1-1 is applicable to interoperable medical products, including assembled systems of interoperable medical products that comprise or are intended to be incorporated into interoperable medical systems within an interoperable environment. This Standard specifies a baseline set of risk concerns for assuring safe and secure interoperability for interoperable medical systems.

[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 3, 2022

### UL (Underwriters Laboratories)

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

#### **Revision**

BSR/AAMI/UL 2800-1-2-202X, Standard for Safety for Interoperable Item Development Life Cycle (revision and partition of ANSI/AAMI/UL 2800-1-2019)

The second edition of the Standard for Medical Device Interoperability, AAMI/UL 2800-1, is being proposed with only editorial changes to accommodate a reorganization into part standards. AAMI/UL 2800-1 is being proposed as UL 2800-1, 2nd edition, UL 2800-1-1, 1st edition, UL 2800-1-2, 1st edition, and UL 2800-1-3, first edition. AAMI/UL 2800-1-2 is applicable to interoperable medical products, including assembled systems of interoperable medical products that comprise or are intended to be incorporated into interoperable medical systems within an interoperable environment. This Standard specifies a baseline set of development lifecycle requirements for assuring safe and secure interoperability for interoperable items.

[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>

### UL (Underwriters Laboratories)

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

#### **Revision**

BSR/AAMI/UL 2800-1-3-202X, Standard for Safety for Interoperable Item Integration Life Cycle (revision and partition of ANSI/UL 2800-1-2019)

The second edition of the Standard for Medical Device Interoperability, AAMI/UL 2800-1, is being proposed with only editorial changes to accommodate a reorganization into part standards. AAMI/UL 2800-1 is being proposed as UL 2800-1, 2nd edition, UL 2800-1-1, 1st edition, UL 2800-1-2, 1st edition, and UL 2800-1-3, first edition. AAMI/UL 2800-1-2 is applicable to interoperable medical products, including assembled systems of interoperable medical products that comprise or are intended to be incorporated into interoperable medical systems within an interoperable environment. This Standard specifies a baseline set of integration lifecycle requirements for assuring safe and secure interoperability of interoperable items assembled or otherwise integrated into interoperable medical systems.

[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>

### UL (Underwriters Laboratories)

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

#### **Revision**

BSR/UL 96-202x, Standard for Safety for Lightning Protection Components (revision of ANSI/UL 96-2020)  
Addition of requirements for lightning component accessories.

[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 3, 2022

### UL (Underwriters Laboratories)

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

#### **Revision**

BSR/UL 347A-202x, Standard for Safety for Medium Voltage Power Conversion Equipment (revision of ANSI/UL 347A-2020)

Recirculation of the following topic that was balloted on September 17, 2021: (5) Revision to breakdown of components requirements.

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

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

### UL (Underwriters Laboratories)

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#### **Revision**

BSR/UL 414-202x, Standard for Safety for Meter Sockets (revision of ANSI/UL 414-2020)

This proposal for UL 414 covers Meter Socket Adapters for use with Distributed Generation Equipment.

[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>

### UL (Underwriters Laboratories)

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

#### **Revision**

BSR/UL 998-202x, Standard for Safety for Humidifiers (revision of ANSI/UL 998-2016)

This proposal for UL 998 covers: (1) Proposed revision to replace UL 60950-1 and CSA C22.2 No. 60950-1 with UL 62368-1 and CSA C22.2 No. 62368-1.

[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>

### UL (Underwriters Laboratories)

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

#### **Revision**

BSR/UL 1242-202X, Standard for Electrical Intermediate Metal Conduit - Steel (revision of ANSI/UL 1242-2020)

(1) Reference to table of minimum acceptable dimensions of elbows.

[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 18, 2022

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

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

#### ***Revision***

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

This standard of practice specifies minimum requirements for methods that mitigate risks to occupants posed by radon gas, chemical vapors, or other hazardous soil gases that are present within existing schools and large buildings. The proposed revisions to Section 4.1 (Assemble Building Information) clarifies a few details to collect that are pertinent to mitigation design. The proposed revisions to Section 5.2 (Nondestructive Investigation) identifies a set of minimum details to observe and record that are pertinent to successful mitigation design.

Single copy price: \$TBD

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

Order from: Gary Hodgden; StandardsAssist@gmail.com

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

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

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

#### ***Revision***

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

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

Single copy price: \$TBD

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

Order from: Gary Hodgden; StandardsAssist@gmail.com

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

## Comment Deadline: April 18, 2022

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

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

#### **Revision**

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

This standard of practice specifies minimum requirements for methods that mitigate risks to occupants posed by radon gas, chemical vapors, or other hazardous soil gases that are present within existing homes. The proposed revisions to Section 4.1 (Assemble Building Information) clarifies a few details to collect that are pertinent to mitigation design. The proposed revisions to Section 5.2 (Nondestructive Investigation) identifies a set of minimum details to observe and record that are pertinent to successful mitigation design.

Single copy price: \$TBD

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

Order from: Gary Hodgden; StandardsAssist@gmail.com

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

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

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

#### **New Standard**

BSR/ABYC E-13-202x, Lithium Ion Batteries (new standard)

This standard addresses selection and installation of lithium ion batteries on boats, lithium ion battery system design (e.g., house battery bank, cranking, propulsion), and manufacturer's safety information.

Single copy price: \$50.00

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

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

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

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

#### **Revision**

BSR/ABYC A-32-202x, AC Power Conversion Equipment and Systems (revision of ANSI/ABYC A-32-2017)

This standard addresses the design, construction, and installation of electrical and electronic power conversion, control equipment, and systems.

Single copy price: \$50.00

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

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

## Comment Deadline: April 18, 2022

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

613 Third Street, Suite 10, Annapolis, MD 21403 | bgoodwin@abycinc.org, www.abycinc.org

#### ***Revision***

BSR/ABYC H-29-202x, Canoes and Kayaks (revision of ANSI/ABYC H-29-2019)

This standard is for determining capacities, flotation, powering, design, construction, and labeling of canoes and kayaks, and applies to all boats identified as canoes or kayaks, including inflatable canoes or kayaks.

Single copy price: \$50.00

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

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

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

613 Third Street, Suite 10, Annapolis, MD 21403 | bgoodwin@abycinc.org, www.abycinc.org

#### ***Revision***

BSR/ABYC H-37-202x, Jet Boats - Light Weight (revision of ANSI/ABYC H-37-2017)

This standard is a guide for the design, construction, and maintenance of inboard water jet-propelled boats less than 20 ft (6 meters) in length overall (LOA) with a boat weight less than 3000 lb (1360.8 kg).

Single copy price: \$50.00

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

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

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

613 Third Street, Suite 10, Annapolis, MD 21403 | bgoodwin@abycinc.org, www.abycinc.org

#### ***Revision***

BSR/ABYC S-30-202x, Outboard Engine and Related Equipment Weights (revision of ANSI/ABYC S-30-2017)

This industry conformity standard applies to all outboard powered boats and addresses outboard engine and related equipment weights for use in determining vessel capacity and flotation.

Single copy price: \$50.00

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

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



## Comment Deadline: April 18, 2022

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

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

#### ***Reaffirmation***

BSR B65-1-2011 (R202x), Graphic technology - Safety requirements for graphic technology equipment and systems - Part 1: General requirements (reaffirm a national adoption ANSI B65-1-2011)

This part of the B65 series of standards provides safety specifications for the design and construction of new equipment used in prepress systems, printing press systems, binding and finishing systems, converting systems and stand-alone platen presses. It is applicable to equipment used in stand-alone mode, or in combination with other machines, including ancillary equipment, in which all the machine actuators (e.g., drives) of the equipment are controlled by the same control system. The requirements given in this standard are applicable to the equipment covered in the additional parts of the B65 series listed in the Foreword. This part of the B65 series of standards is to be used in conjunction with the applicable part of the B65 series that contains additional requirements specific to a particular type of equipment.

Single copy price: \$55.00

Obtain an electronic copy from: [dorf@aptech.org](mailto:dorf@aptech.org)

Order from: Debra Orf; [dorf@aptech.org](mailto:dorf@aptech.org)

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

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

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

#### ***Reaffirmation***

BSR B65-2-2011 (R202x), Graphic technology - Safety requirements for graphic technology equipment and systems - Part 2: Prepress and press equipment and systems (reaffirm a national adoption ANSI B65-2-2011)

This standard provides safety requirements specific to prepress and press equipment and systems. It is to be used in conjunction with the general requirements given in B65-1. This standard provides additional safety requirements for the design and construction of new prepress and press equipment, and the auxiliary equipment integrated into the press control system.

Single copy price: \$43.00

Obtain an electronic copy from: [dorf@aptech.org](mailto:dorf@aptech.org)

Order from: Debra Orf; [dorf@aptech.org](mailto:dorf@aptech.org)

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

## Comment Deadline: April 18, 2022

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

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

#### **Reaffirmation**

BSR B65-3-2011 (R202x), Graphic technology - Safety requirements for graphic technology equipment and systems - Part 3: Binding and finishing equipment and systems (reaffirm a national adoption ANSI B65-3-2011)

This standard provides safety requirements specific to binding and finishing equipment and systems. It is intended to be used in conjunction with the general requirements given in B65-1. This standard provides additional safety requirements for the design and construction of new equipment used to convert printed or blank substrates into cut, folded, collated, assembled, bound, or otherwise finished product. It can also be applicable to processes for preparing substrate for the printing process.

Single copy price: \$45.00

Obtain an electronic copy from: [dorf@aptech.org](mailto:dorf@aptech.org)

Order from: Debra Orf; [dorf@aptech.org](mailto:dorf@aptech.org)

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

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

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

#### **Reaffirmation**

BSR B65-5-2011 (R202x), Graphic technology - Safety requirements for graphic technology equipment and systems - Part 5: Stand-alone platen presses (reaffirm a national adoption ANSI B65-5-2011)

This standard provides safety requirements specific to stand-alone platen presses. It is intended to be used in conjunction with the general requirements given in B65-1. This standard provides additional press design safety requirements for the design and construction of new manually fed or automatic stand-alone platen press systems intended for diecutting, creasing, embossing, foil stamping, and/or printing of paper, board, and other materials processed in a similar manner.

Single copy price: \$19.00

Obtain an electronic copy from: [dorf@aptech.org](mailto:dorf@aptech.org)

Order from: Debra Orf; [dorf@aptech.org](mailto:dorf@aptech.org)

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

### **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 55g-202x, Thermal Environmental Conditions for Human Occupancy (addenda to ANSI/ASHRAE Standard 55-2020)

Proposed Addendum g makes changes to the definition of the SET temperature and to the SET code to align with international standards.

Single copy price: \$35.00

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

Order from: [standards.section@ashrae.org](mailto:standards.section@ashrae.org)

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: April 18, 2022

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

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

#### **Addenda**

BSR/ASHRAE Addendum 62.2h-202x, Ventilation and Acceptable Indoor Air Quality in Residential Buildings (addenda to ANSI/ASHRAE Standard 62.2-2019)

This proposed addendum is intended to make the standard more consistent in the language used in the text and to more appropriately arrange and organize several sections of the standard. In addition, several changes have been made to better accommodate multi-family applications of the standard, such as the inclusion of a definition of "corridor" and consistent use of the term "dwelling unit". Where terms are no longer used in the standard, definitions have been removed.

Single copy price: \$35.00

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

Order from: [standards.section@ashrae.org](mailto:standards.section@ashrae.org)

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>

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

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

#### **Revision**

BSR/CSA HGV 3.1-202x, Fuel system components for compressed hydrogen gas powered vehicles (revision of ANSI/CSA HGV 3.1-2014 (R2019))

This standard establishes requirements for newly produced compressed hydrogen-gas fuel system components, intended for use on hydrogen-gas-powered vehicles including: check valves, manual valves, manual container valves, automatic valves, and automatic container valves; hydrogen injectors; pressure and temperature sensors and pressure gauges, pressure regulators, pressure relief valves, pressure relief devices, excess flow valves, gas-tight housing and ventilation passages; stainless-steel rigid fuel lines, flexible fuel lines; hoses and assemblies, filter assemblies, fittings, non-metallic low-pressure rigid fuel lines, and discharge line closures.

Single copy price: Free

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [ANSI.contact@csagroup.org](mailto:ANSI.contact@csagroup.org)

## Comment Deadline: April 18, 2022

### CTA (Consumer Technology Association)

1919 S. Eads Street, Arlington, VA 22202 | cakers@cta.tech, www.cta.tech

#### **Revision**

BSR/CTA 774-E-202x, TV Receiving Antenna Performance Presentation and Measurement (revision and redesignation of ANSI/CTA 774-D)

This standard defines test and measurement procedures for use by manufacturers of television receiving antennas who wish to categorize their antennas in accordance with CEA-2028-A, Color Codes for Outdoor TV Receiving Antennas.

Single copy price: Free

Obtain an electronic copy from: standards@cta.tech

Order from: standards@cta.tech

Send comments (copy psa@ansi.org) to: Catrina Akers; cakers@cta.tech

### CTA (Consumer Technology Association)

1919 S. Eads Street, Arlington, VA 22202 | cakers@cta.tech, www.cta.tech

#### **Revision**

BSR/CTA 2028-C-202x, Color Codes for Outdoor TV Receiving Antennas (revision and redesignation of ANSI/CTA 2028-B R-2019)

This standard defines color codes to be associated with minimum performance parameters of outdoor television (TV) receiving antennas.

Single copy price: Free

Obtain an electronic copy from: standards@cta.tech

Order from: standards@cta.tech

Send comments (copy psa@ansi.org) to: Catrina Akers; cakers@cta.tech

### CTA (Consumer Technology Association)

1919 S. Eads Street, Arlington, VA 22202 | cakers@cta.tech, www.cta.tech

#### **Revision**

BSR/CTA 2032-C-202x, Indoor TV Receiving Antennas Performance Standard (revision and redesignation of ANSI/CTA 2032-B R-2019)

This standard defines test and measurement procedures for determining the performance of indoor TV receiving antennas.

Single copy price: Free

Obtain an electronic copy from: standards@cta.tech

Order from: standards@cta.tech

Send comments (copy psa@ansi.org) to: Catrina Akers; cakers@cta.tech

## Comment Deadline: April 18, 2022

### HI (Hydraulic Institute)

6 Campus Drive, Suite 104, Parsippany, NJ 07054-4406 | [esuarez@pumps.org](mailto:esuarez@pumps.org), [www.pumps.org](http://www.pumps.org)

#### **Revision**

BSR/HI 9.6.4-202x, Rotodynamic Pumps for Vibration Measurements and Allowable Values (revision of ANSI/HI 9.6.4-2016)

This standard pertains to evaluation of vibration when the vibration measurements are made on stationary parts associated with bearing housings) of rotodynamic pumps. It provides specific maximum allowable vibration values measured on bearing housing of rotodynamic pumps in the field and factory test environments.

Single copy price: \$50.00

Obtain an electronic copy from: [esuarez@pumps.org](mailto:esuarez@pumps.org)

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

### NEMA (ASC C29) (National Electrical Manufacturers Association)

1300 17th St N #900,, Arlington, VA 22209 | [Paul.Crampton@nema.org](mailto:Paul.Crampton@nema.org), [www.nema.org](http://www.nema.org)

#### **Reaffirmation**

BSR/NEMA C29.3-2015 (R202x), Wet-Process Porcelain Insulators - Spool Type (reaffirmation of ANSI/NEMA C29.3-2015)

This standard covers spool-type insulators made of wet-process porcelain and used in the transmission and distribution of electric energy.

Single copy price: \$68.00

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

Order from: [Paul.Crampton@nema.org](mailto:Paul.Crampton@nema.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [Paul.Crampton@nema.org](mailto:Paul.Crampton@nema.org)

### NEMA (ASC C29) (National Electrical Manufacturers Association)

13 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 C29.4-202x, Wet-Process Porcelain Insulators - Strain Type (revision of ANSI/NEMA C29.4-2015)

This standard covers strain-type insulators made of wet-process porcelain and used in the transmission and distribution of electric energy.

Single copy price: \$111.00

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

Order from: Paul Orr; [pau\\_orr@nema.org](mailto:pau_orr@nema.org)

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

## Comment Deadline: April 18, 2022

### **NEMA (ASC C29) (National Electrical Manufacturers Association)**

13 North 17th Street, Suite 900, Rosslyn, VA 22209 | pau\_orr@nema.org, www.nema.org

#### **Revision**

BSR C29.5-202x, Wet-Process Porcelain Insulators - Low- and Medium-Voltage Types (revision of ANSI/NEMA C29.5-2015)

This standard covers low- and medium-voltage-type insulators made of wet-process porcelain and used in the transmission and distribution of electric energy.

Single copy price: \$www.nema.org

Obtain an electronic copy from: pau\_orr@nema.org

Order from: Paul Orr; pau\_orr@nema.org

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

### **NEMA (ASC C29) (National Electrical Manufacturers Association)**

13 North 17th Street, Suite 900, Rosslyn, VA 22209 | pau\_orr@nema.org, www.nema.org

#### **Revision**

BSR C29.6-202X, Wet-Process Porcelain Insulators - High-Voltage Pin-Type (revision of ANSI/NEMA C29.6-2015)

This standard covers high-voltage pin-type insulators made of wet-process porcelain and used in the transmission and distribution of electrical energy.

Single copy price: \$68.00

Obtain an electronic copy from: pau\_orr@nema.org

Order from: Paul Orr; pau\_orr@nema.org

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

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

789 N. Dixboro Road, Ann Arbor, MI 48105 | mmilla@nsf.org, www.nsf.org

#### **Revision**

BSR/NSF 53-202x (i125r2), Drinking Water Treatment Units - Health Affects (revision of ANSI/NSF 53-2021)

It is the purpose of this Standard to establish minimum requirements for materials, design and construction, and performance of point-of-use and point-of-entry drinking-water treatment systems that are designed to reduce specific health-related contaminants in public or private water supplies. Such systems include point-of-entry drinking-water treatment systems used to treat all or part of the water at the inlet to a residential facility or a bottled-water production facility, and includes the material and components used in these systems. This Standard also specifies the minimum product literature and labeling information that a manufacturer shall supply to authorized representatives and system owners, as well as the minimum service-related obligations that the manufacturer shall extend to system owners.

Single copy price: Free

Obtain an electronic copy from: [https://standards.nsf.org/apps/group\\_public/download.php/62433/53i125r2%20et%20al%20-%20PFAS%20-%20JC%20Memo%20&%20Ballot.pdf](https://standards.nsf.org/apps/group_public/download.php/62433/53i125r2%20et%20al%20-%20PFAS%20-%20JC%20Memo%20&%20Ballot.pdf)

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

## Comment Deadline: April 18, 2022

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105 | mmilla@nsf.org, www.nsf.org

#### Revision

BSR/NSF 58-202x (i90r2), Reverse-Osmosis Drinking-Water Treatment Systems (revision of ANSI/NSF 58-2021)

The purpose of this Standard is to establish minimum requirements for materials, design and construction, and performance of reverse-osmosis drinking-water treatment systems. This Standard also specifies the minimum product literature that manufacturers shall supply to authorized representatives and owners, as well as the minimum service-related obligations that manufacturers shall extend to system owners.

Single copy price: Free

Obtain an electronic copy from: [https://standards.nsf.org/apps/group\\_public/download.php/62433/53i125r2%20et%20al%20-%20PFAS%20-%20JC%20Memo%20&%20Ballot.pdf](https://standards.nsf.org/apps/group_public/download.php/62433/53i125r2%20et%20al%20-%20PFAS%20-%20JC%20Memo%20&%20Ballot.pdf)

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

### NSF (NSF International)

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

#### Revision

BSR/NSF/CAN 50-202x (i186r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2020)

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

Single copy price: Free

Obtain an electronic copy from: [https://standards.nsf.org/apps/group\\_public/download.php/62463/50i186r1%20-%20UV%20Display%20Validation%20-%20JC%20memo%20&%20Ballot.pdf](https://standards.nsf.org/apps/group_public/download.php/62463/50i186r1%20-%20UV%20Display%20Validation%20-%20JC%20memo%20&%20Ballot.pdf)

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

### NSF (NSF International)

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

#### Withdrawal

ANSI/NSF 321-2010 (R2016), Goldenseal Root (*Hydrastis canadensis*) (withdrawal of ANSI/NSF 321-2010 (R2016))

The purpose of this Standard is to serve as an evaluation tool for analyzing the botanical dietary supplement Goldenseal Root (*Hydrastis canadensis*). NSF/ANSI 321 contains requirements for dietary supplements that contain goldenseal root as an ingredient. It allows for the determination that this botanical ingredient is accurately identified, that the product contains the quantity of dietary ingredients and marker constituents as determined by the American Herbal Pharmacopoeia (AHP), that the ingredient does not contain unacceptable quantities of contaminants, conforms to the compliance criteria of the AHP, and can be used to facilitate GMP compliance.

Single copy price: Free

Obtain an electronic copy from: [https://standards.nsf.org/apps/group\\_public/download.php/62410/321i3r1%20-%20Withdrawal%20-%20JC%20Memo%20&%20Ballot.pdf](https://standards.nsf.org/apps/group_public/download.php/62410/321i3r1%20-%20Withdrawal%20-%20JC%20Memo%20&%20Ballot.pdf)

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

## Comment Deadline: April 18, 2022

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

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

#### **Reaffirmation**

BSR/SCTE 25-1-2017 (R202x), Hybrid Fiber Coax Outside Plant Status Monitoring - Physical (PHY) Layer Specification v1.0 (reaffirmation of ANSI/SCTE 25-1-2017)

This specification describes the PHY layer requirements that must be implemented by all Type-2- and Type-3-compliant OSP HMS transponders on the HFC plant and the controlling equipment in the headend. Any exceptions to compliance with this specification will be specifically noted in this document as necessary.

Single copy price: \$50.00

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

Order from: Kim Cooney; kcooney@scte.org

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

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

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

#### **Reaffirmation**

BSR/SCTE 25-2-2017 (R202x), Hybrid Fiber Coax Outside Plant Status Monitoring - Media Access Control (MAC) Layer Specification v1.0 (reaffirmation of ANSI/SCTE 25-2-2017)

This specification describes the PHY layer requirements that must be implemented by all Type-2- and Type-3-compliant OSP HMS transponders on the HFC plant and the controlling equipment in the headend. Any exceptions to compliance with this specification will be specifically noted in this document as necessary.

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Order from: Kim Cooney; kcooney@scte.org

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

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

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

#### **Revision**

BSR/SCTE 220-1-202x, DOCSIS 3.1 Part 1: Physical Layer Specification (revision of ANSI/SCTE 220-1 2016)

This standard is part of the DOCSIS® family of specifications. In particular, it is part of a series of standards that defines the fifth generation of high-speed data-over-cable systems, commonly referred to as the DOCSIS 3.1 standards. This standard was developed for the benefit of the cable industry, and includes contributions by operators and vendors from North and South America, Europe, and Asia.

Single copy price: \$50.00

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## Comment Deadline: April 18, 2022

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

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

#### **Revision**

BSR/SCTE 220-2-202x, DOCSIS 3.1 Part 2: Media Access Control (MAC) and Upper Layer Protocols Interface Specification (revision of ANSI/SCTE 220-2-2016)

This standard is part of the DOCSIS® family of specifications. In particular, this specification is part of a series of specifications that defines the fifth generation of high-speed data-over-cable systems, commonly referred to as the DOCSIS 3.1 specifications. This specification was developed for the benefit of the cable industry, and includes contributions by operators and vendors from North and South America, Europe, China, and other regions.

Single copy price: \$50.00

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

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

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

#### **Revision**

BSR/SCTE 220-4-202x, DOCSIS 3.1 Part 4: CCAP OSSI Specification (revision of ANSI/SCTE 220-4-2016)

This document defines the requirements necessary for the configuration, fault management, and performance management of the Cable Modem Termination System (CMTS) and the Converged Cable Access Platform (CCAP) system. The intent of this standard is to define a common, cross-vendor set of functionality for the configuration and management of CMTSs and CCAPs.

Single copy price: \$50.00

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

Order from: Kim Cooney; kcooney@scte.org

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

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

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

#### **Revision**

BSR/SCTE 220-5-202x, DOCSIS 3.1 Part 5: Security Specification (revision of ANSI/SCTE 220-5-2016)

This standard is part of the DOCSIS® family of specifications. In particular, this standard is part of a series of standards that define the fifth generation of high-speed data-over-cable systems. This standard was developed for the benefit of the cable industry, and includes contributions by operators and vendors from North America, Europe, and other regions.

Single copy price: \$50.00

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

Order from: Kim Cooney; kcooney@scte.org

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

## **Comment Deadline: April 18, 2022**

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

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

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

BSR A108.M-202x, General Requirements: Materials and Standards for the Installation of Tile (new standard)

This specification is intended to provide a list of standards and materials used for the installation of ceramic and glass tile.

Single copy price: \$15.00

Obtain an electronic copy from: ksimpson@tileusa.com

Send comments (copy psa@ansi.org) to: Katelyn Simpson, ksimpson@tileusa.com

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

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

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

BSR A108.T-202x, Standard Terminology of Tile Assemblies (new standard)

This standard is intended to define terms commonly used in the ANSI A118, A136, and A137 series of product specifications and ANSI A108 series of installation standards.

Single copy price: \$15.00

Obtain an electronic copy from: ksimpson@tileusa.com

Send comments (copy psa@ansi.org) to: Katelyn Simpson, ksimpson@tileusa.com

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

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

#### ***Reaffirmation***

BSR A108.1A-2017 (R202x), Installation of Ceramic Tile in the Wet-Set Method, with Portland Cement Mortar (reaffirmation of ANSI A108.1A-2017)

This specification covers the installation of ceramic tile in the wet-set method, with portland cement mortar.

Single copy price: \$15.00

Obtain an electronic copy from: ksimpson@tileusa.com

Send comments (copy psa@ansi.org) to: Katelyn Simpson, ksimpson@tileusa.com

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

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

#### ***Reaffirmation***

BSR A108.10-2017 (R202x), Installation of Grout in Tilework (reaffirmation of ANSI A108.10-2017)

This specification describes the minimum requirements for grouting ceramic tile with sand-portland cement grout, standard sanded cement grout, standard unsanded cement grout, polymer-modified sanded tile grout, and polymer-modified unsanded tile grout.

Single copy price: \$15.00

Obtain an electronic copy from: ksimpson@tileusa.com

Send comments (copy psa@ansi.org) to: Katelyn Simpson, ksimpson@tileusa.com

## Comment Deadline: April 18, 2022

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

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

#### ***Reaffirmation***

BSR A118.11-2017 (R202x), Standard Specifications for EGP (Exterior Glue Plywood) Modified Dry-Set Mortar (reaffirmation of ANSI A118.11-2017)

This specification describes the test methods and the minimum requirements for EGP-modified dry-set mortar.

Single copy price: \$15.00

Obtain an electronic copy from: ksimpson@tileusa.com

Send comments (copy psa@ansi.org) to: Katelyn Simpson, ksimpson@tileusa.com

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

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

#### ***Revision***

BSR A108.01-202x, General Requirements: Structures, Substrates, and Preparation for Tile (revision of ANSI A108.01-2021a)

These specifications serve as a reference standard for design professionals, general contractors, and building owners when specifying structures, substrates, and preparation where ceramic or glass tile is the finish surface.

Single copy price: \$15.00

Obtain an electronic copy from: ksimpson@tileusa.com

Send comments (copy psa@ansi.org) to: Katelyn Simpson, ksimpson@tileusa.com

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

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

#### ***Revision***

BSR A108.02-202x, General Requirements: Workmanship for Tile Installation (revision of ANSI A108.02-2019)

These specifications serve as a reference standard for design professionals, general contractors, tile contractors, and building owners where ceramic tile or glass tile is the finish surface. These specifications are also a reference standard for products used in the installation of ceramic or glass tile.

Single copy price: \$15.00

Obtain an electronic copy from: ksimpson@tileusa.com

Send comments (copy psa@ansi.org) to: Katelyn Simpson, ksimpson@tileusa.com

## Comment Deadline: April 18, 2022

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

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

#### **Revision**

BSR A137.3-202x, Standard Specifications for Gauged Porcelain Tiles and Gauged Porcelain Tile Panels/Slabs (revision of ANSI A137.3-2021)

These specifications describe the minimum physical properties of gauged porcelain tiles and gauged porcelain tile panels/slabs and back-layered gauged porcelain tiles and gauged porcelain tile panels/slabs manufactured to a specific nominal thickness.

Single copy price: \$15.00

Obtain an electronic copy from: ksimpson@tileusa.com

Send comments (copy psa@ansi.org) to: Katelyn Simpson, ksimpson@tileusa.com

### UL (Underwriters Laboratories)

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

#### **Reaffirmation**

BSR/UL 1309-2017 (R202x), Standard for Safety for Marine Shipboard Cable (reaffirmation of ANSI/UL 1309-2017)

These requirements cover distribution (power) cables, and control and signal cables for installation aboard marine vessels, fixed and floating offshore petroleum facilities, and mobile offshore drilling units (MODUs), in accordance with industry installation standards and the regulations of the authorities having jurisdiction. The cables are single or multi-conductor, with or without metal armor and/or jacket, and are rated 300 V - 35 kV.

Single copy price: Free

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

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### UL (Underwriters Laboratories)

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

#### **Reaffirmation**

BSR/UL 1602-2011 (R202x), Standard for Safety for Gasoline-Engine-Powered, Rigid-Cutting-Member Edgers and Edger-Trimblers (reaffirmation of ANSI/UL 1602-2011 (R2017))

Reaffirmation and continuance of the fourth edition of the Standard for Gasoline-Engine-Powered, Rigid-Cutting-Member Edgers and Edger Trimblers, UL 1602, as an American National Standard.

Single copy price: Free

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## Comment Deadline: April 18, 2022

### UL (Underwriters Laboratories)

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

#### **Revision**

BSR/UL 325-202x, Standard for Safety for Door, Drapery, Gate, Louver, and Window Operators and Systems (revision of ANSI/UL 325-2017)

This proposal for UL 325 covers: (1) Revision of the glossary definition of entrapment to change "object" to "person" is caught; (2) Bifold gates; (3) Reference corrections to include vehicular gate operators; (4) Relocation of additional feature requirements to new section within vehicular gate section; (5) Type B1 Test clarification; (6) Editorial interconnection cable reference correction in paragraph 54.1; (7) Puncture Resistance Test clarification to include gates; (8) CGI proposed changes to 60.8; (9) Revision of the important safety instructions in 60.8.5 to add "severe" Injury to WARNING; (10) Revision of the important safety instructions in 60.8.5 to change reference from "emergency release" to "manual release"; and (11) Editorial revision of table B.1.

Single copy price: Free

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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>

### UL (Underwriters Laboratories)

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

#### **Revision**

BSR/UL 1449-202x, Standard for Safety for Surge Protective Devices (revision of ANSI/UL 1449-2016)

The following changes in requirements are being proposed: (1) Addition of UL 969A as alternate option for marking and labeling; (2) Types 1, 2, and 3 enclosed SPDs incorporating a replaceable SPD module; (3) Clarifications and updates to table 48.1 (Test Program); (4) Revisions to capacitor testing; (5) Clarification and additional text to SA8.3 – SA8.4 covering current tests; (6) Clarification to SB7 for testing SPDs that permit follow current; (7) Clarification of clause SB8.2 regarding SCCR levels; (8) Correction to number of test samples in clause SB10.1; (9) Clearances for altitude over 2000 m; (10) Type 4 component assemblies surge testing; and (11) Temperature testing of plug blades in direct plug-in SPDs.

Single copy price: Free

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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: May 3, 2022

### ASME (American Society of Mechanical Engineers)

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

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

BSR/ASME A112.6.8/CSA B79.8-202x, Trench Drains (new standard)

This Standard specifies design and performance requirements for trench drains, utility channels, and grate systems that are used inside of, or adjacent to, building structures that are typically non-residential.

Single copy price: Free

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

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

#### ***Revision***

BSR/ASME A112.14.3/CSA B481.1-202x, Hydromechanical Grease Interceptors (revision and redesignation of ANSI/ASME A112.14.3-2018)

This Standard specifies construction and marking requirements, as well as the performance criteria for the testing and rating of hydromechanical grease interceptors, rated by flow in liters per minute and gallons per minute.

Single copy price: Free

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

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

#### ***Revision***

BSR/ASME A112.14.4/CSA B481.5-202x, Grease Removal Devices (revision and redesignation of ANSI/ASME A112.14.4-2001 (R2017))

This Standard specifies material, design, construction, and performance criteria for the testing and rating of grease interceptors equipped with automatic grease removal devices (GRD) and it applies to GRDs designed to automatically remove free-floating grease, fats, and oils (FOG) from sanitary discharges without intervention from the user except for maintenance.

Single copy price: Free

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

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

## Comment Deadline: May 3, 2022

### ASME (American Society of Mechanical Engineers)

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

#### **Revision**

BSR/ASME A112.36.2M/CSA B79.2-202x, Cleanouts (revision and redesignation of ANSI/ASME A112.36.2M-1991 (R2017))

This Standard covers cleanouts, including floor and wall types, used in concealed piping in and adjacent to residential, commercial, industrial, institutional, and other buildings open to the public.

Single copy price: Free

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

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

### ASME (American Society of Mechanical Engineers)

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

#### **Revision**

BSR/ASME A112.6.3/CSA B79.3-202x, Floor Drains (revision and redesignation of ANSI/ASME A112.6.3-2019)

This Standard specifies design and performance requirements for floor drains, adjustable floor drains, and area drains that are used inside of, or adjacent to, building structures. Drains of outlet NPS-2 and smaller, intended only for installation in shower areas, are covered in this standard and in ASME A112.18.2/CSA B125.2 as well.

Single copy price: Free

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

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

### ASME (American Society of Mechanical Engineers)

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

#### **Revision**

BSR/ASME A112.6.9/CSA B79.9-202x, Siphonic Roof Drains (revision and redesignation of ANSI/ASME A112.6.9-2005 (R2019))

This Standard specifies minimum requirements for the design, installation, examination, and testing of siphonic roof drains. It includes definitions of terms and parameters involved in the design of siphonic drainage systems.

Single copy price: Free

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

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

# Final Actions on American National Standards

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

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

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

### **Revision**

ANSI/ASME B30.23-2022, Personnel Lifting (revision of ANSI/ASME B30.23-2016) Final Action Date: 2/22/2022

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

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

### **New Standard**

ANSI/ASSP Z16.1-2022, Safety and Health Metrics and Performance Measures (new standard) Final Action Date: 2/23/2022

### **Revision**

ANSI/ASSP A1264.2-2022, Reducing Slip Missteps on Walking-Working Surfaces (revision and redesignation of ANSI/ASSE A1264.2-2012) Final Action Date: 2/24/2022

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

1919 S. Eads Street, Arlington, VA 22202 | cakkers@cta.tech, www.cta.tech

### \* **New Standard**

ANSI/CTA 2099-2022, Standard Method of Measurement for Matching In-Home Amplifiers and Loudspeakers (new standard) Final Action Date: 2/22/2022

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

1300 North 17th Street, Suite 900, Rosslyn, VA 22209 | and\_moldoveanu@nema.org, www.nema.org

### \* **Revision**

ANSI/NEMA WD6-2022, Wiring Devices - Dimensional Specifications (revision of ANSI/NEMA WD6-2016) Final Action Date: 2/22/2022

## **UL (Underwriters Laboratories)**

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

### **Revision**

ANSI/UL 1278-2022, Standard for Safety for Movable and Wall- or Ceiling-Hung Electric Room Heaters (revision of ANSI/UL 1278-2020) Final Action Date: 2/21/2022

### **Revision**

ANSI/UL 1484-2022, Standard for Safety for Residential Gas Detectors (revision of ANSI/UL 1484-2008 (R2017)) Final Action Date: 2/23/2022



# Call for Members (ANS Consensus Bodies)

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

---

## ANSI Accredited Standards Developer

### CSA - CSA America Standards Inc.

CSA Group, an ANSI-accredited SDO, is seeking additional experts to serve on the bi-national Fuel Cell Technical Committee. The Fuel Cell Technical Committee develops and maintains minimum safety standards and essential requirements for the design construction and maintenance of:

- a) stationary, portable, and micro fuel cells;
- b) hydrogen generation technologies using all fuels (e.g., electrolysis, coal, natural gas);
- c) related components and equipment for stationary, portable and micro fuel cells; and
- d) related components and equipment installed for hydrogen generation technologies using all fuels.

We are seeking interested stakeholders who will actively participate and contribute to the development and maintenance of these important standards through CSA's accredited Standards Development Process(es).

The Technical Committee is seeking members in the following categories:

**User interest** — those who predominantly represent consumer interests or end users of the subject product (s), material(s), or service(s), and who are not involved in any way in production or distribution of the subject product(s), material(s), or service(s).

**Regulatory authority** — those who are predominantly involved in regulating the use of the subject product (s), material(s), or service(s).

What is expected?

- Strong interest and knowledge of the subject matter
- Active participation and willingness to work on a Technical Committee electronically and in-person
- Ability to represent a stakeholder category outlined above
- Ability to work in a multi-stakeholder environment, following the principles of consensus

If you are interested in participating as a new member of the CSA Fuel Cell Technical Committee, please submit a brief bio along with a statement outlining your interest and ability to contribute to the work to Mark Duda at [mark.duda@csagroup.org](mailto:mark.duda@csagroup.org). If you know of a colleague who may be interested in this project, feel free to distribute this document.

# Call for Members (ANS Consensus Bodies)

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## 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).

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).

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

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

BSR B65-1-2011 (R202x), Graphic technology - Safety requirements for graphic technology equipment and systems - Part 1: General requirements (reaffirm a national adoption ANSI B65-1-2011)

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

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

BSR B65-2-2011 (R202x), Graphic technology - Safety requirements for graphic technology equipment and systems - Part 2: Prepress and press equipment and systems (reaffirm a national adoption ANSI B65-2-2011)

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

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

BSR B65-3-2011 (R202x), Graphic technology - Safety requirements for graphic technology equipment and systems - Part 3: Binding and finishing equipment and systems (reaffirm a national adoption ANSI B65-3-2011)

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

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

BSR B65-5-2011 (R202x), Graphic technology - Safety requirements for graphic technology equipment and systems - Part 5: Stand-alone platen presses (reaffirm a national adoption ANSI B65-5-2011)

### CTA (Consumer Technology Association)

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

BSR/CTA 774-E-202x, TV Receiving Antenna Performance Presentation and Measurement (revision and redesignation of ANSI/CTA 774-D)

CTA is seeking new members to join the consensus body. CTA and the R4 Video Systems Intelligent Mobility Committee are particularly interested in adding new members (called "users" who acquire video products from those who create them) as well as those with a general interest.

# Call for Members (ANS Consensus Bodies)

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

1919 S. Eads Street, Arlington, VA 22202 | cakern@cta.tech, www.cta.tech

BSR/CTA 2028-C-202x, Color Codes for Outdoor TV Receiving Antennas (revision and redesignation of ANSI/CTA 2028-B R-2019)

CTA is seeking new members to join the consensus body. CTA and the R4 Video Systems Intelligent Mobility Committee are particularly interested in adding new members (called "users" who acquire video products from those who create them) as well as those with a general interest.

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

1919 S. Eads Street, Arlington, VA 22202 | cakern@cta.tech, www.cta.tech

BSR/CTA 2032-C-202x, Indoor TV Receiving Antennas - Performance Standard (revision and redesignation of ANSI/CTA 2032-B R-2019)

CTA is seeking new members to join the consensus body. CTA and the R4 Video Systems Intelligent Mobility Committee are particularly interested in adding new members (called "users" who acquire video products from those who create them) as well as those with a general interest.

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

218 W. Court Street, Rome, NY 13440 | jkirk@esda.org, www.esda.org

BSR/EOS ESD SP3.4-202X, ESD Association Standard Practice for the Protection of Electrostatic Discharge Susceptible Items - Periodic Verification of Air Ionizer Performance Using a Small Test Fixture (revision of ANSI/ESD SP3.4-2012 (R2017))

## **HI (Hydraulic Institute)**

6 Campus Drive, Suite 104, Parsippany, NJ 07054-4406 | esuarez@pumps.org, www.pumps.org

BSR/HI 9.6.4-202x, Rotodynamic Pumps for Vibration Measurements and Allowable Values (revision of ANSI/HI 9.6.4-2016)

## **NEMA (ASC C29) (National Electrical Manufacturers Association)**

13 North 17th Street, Suite 900, Rosslyn, VA 22209 | pau\_orr@nema.org, www.nema.org

BSR C29.4-202x, Wet-Process Porcelain Insulators - Strain Type (revision of ANSI/NEMA C29.4-2015)

## **NEMA (ASC C29) (National Electrical Manufacturers Association)**

13 North 17th Street, Suite 900, Rosslyn, VA 22209 | pau\_orr@nema.org, www.nema.org

BSR C29.5-202x, Wet-Process Porcelain Insulators - Low- and Medium-Voltage Types (revision of ANSI/NEMA C29.5-2015)

## **NEMA (ASC C29) (National Electrical Manufacturers Association)**

13 North 17th Street, Suite 900, Rosslyn, VA 22209 | pau\_orr@nema.org, www.nema.org

BSR C29.6-202X, Wet-Process Porcelain Insulators - High-Voltage Pin-Type (revision of ANSI/NEMA C29.6-2015)

# Call for Members (ANS Consensus Bodies)

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## **NEMA (ASC C29) (National Electrical Manufacturers Association)**

1300 17th St N #900,, Arlington, VA 22209 | Paul.Crampton@nema.org, www.nema.org

BSR/NEMA C29.3-2015 (R202x), Wet-Process Porcelain Insulators - Spool Type (reaffirmation of ANSI/NEMA C29.3-2015)

## **NSF (NSF International)**

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

ANSI/NSF 321-2010 (R2016), Goldenseal Root (*Hydrastis canadensis*) (withdrawal of ANSI/NSF 321-2010 (R2016))

## **NSF (NSF International)**

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

BSR/NSF 40-202x (i43r1), Residential Wastewater Treatment Systems (revision of ANSI/NSF 40-2020)

## **NSF (NSF International)**

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

BSR/NSF 49-202x (i135r2), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2020)

## **NSF (NSF International)**

789 N. Dixboro Road, Ann Arbor, MI 48105 | mmilla@nsf.org, www.nsf.org

BSR/NSF 53-202x (i125r2), Drinking Water Treatment Units - Health Affects (revision of ANSI/NSF 53-2021)

## **NSF (NSF International)**

789 N. Dixboro Road, Ann Arbor, MI 48105 | mmilla@nsf.org, www.nsf.org

BSR/NSF 58-202x (i90r2), Reverse-Osmosis Drinking-Water Treatment Systems (revision of ANSI/NSF 58-2021)

## **NSF (NSF International)**

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

BSR/NSF/CAN 50-202x (i186r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2020)

## Accreditation Announcements (Standards Developers)

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### Public Review of Revised ASD Operating Procedures

#### IEEE - Institute of Electrical and Electronics Engineers

**Comment Deadline: March 27, 2022**

The **IEEE - Institute of Electrical and Electronics Engineers**, an ANSI Member and Accredited Standards Developer, has submitted revisions to its currently accredited IEEE-SA Standards Board Operations Manual and IEEE-SA Standards Board Bylaws for documenting consensus on IEEE-sponsored American National Standards, under which it was last reaccredited in 2021. As the revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: David Ringle, Institute of Electrical and Electronics Engineers (IEEE) | 445 Hoes Lane, Piscataway, NJ 08854-4141 | (732) 562-3806, d.ringle@ieee.org

[Click here to view/download a copy of the revisions during the public review period.](#)

Please submit any public comments on the revised procedures to IEEE by **March 28, 2022**, with a copy to the ExSC Recording Secretary in ANSI's New York Office (jthompso@ANSI.org).

### Public Review of Revised ASD Operating Procedures

#### LES - Licensing Executives Society (U.S. and Canada)

**Comment Deadline: April 4, 2022**

The **LES - Licensing Executives Society (U.S. and Canada)**, an ANSI Member and Accredited Standards Developer, has submitted revisions to its currently accredited operating procedures for documenting consensus on LES-sponsored American National Standards, under which it was originally accredited in 2017. As the revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: Alexandra Rehmeier, Licensing Executives Society (U.S. and Canada) (LES) | 11130 Sunrise Valley Drive, Suite 350, Reston, VA 20191 | (949) 981-1562, alexandra.l.rehmeier@boeing.com

[Click here to view/download a copy of the revisions during the public review period.](#)

Please submit any public comments on the revised procedures to LES by April 4, 2022, with a copy to the ExSC Recording Secretary in ANSI's New York Office (jthompso@ANSI.org).

## Meeting Notices (Standards Developers)

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### ANSI Accredited Standards Developer

#### ASA - Acoustical Society of America

Meeting Times: May 23-27, 2022

**Acoustical Society of America (ASA Standards)** will be holding meetings in conjunction with the ASA 182nd Meeting **May 23-27, 2022**

May 23, 2022 ASC S2 Mechanical Vibration and Shock (5:00pm-6:15pm MST) Denver, CO

May 23, 2022 ASACOS Steering Meeting (7:00pm-9:30pm MST) Denver, CO

May 24, 2022 ASACOS Meeting (7:30am-9:00am MST) Denver, CO

May 24, 2022 Standards Plenary Meeting (9:15am-10:45am MST) Denver, CO

May 24, 2022 ASC S1, Acoustics Meeting (11:00am-12:15pm MST) Denver, CO

May 24, 2022 ASC S3, Bioacoustics (2:00pm-3:15pm MST) Denver, CO

May 24, 2022 ASC S3/SC1, Animal Bioacoustics (3:30pm-4:45pm MST) Denver, CO

May 24, 2022 ASC S12, Noise (5:00pm-6:15pm MST) Denver, CO

Meetings will take place at Sheraton Denver Downtown Hotel Denver, Colorado

For more information, please visit our website at <https://asastandards.org/>

or email us at [standards@acousticalsociety.org](mailto:standards@acousticalsociety.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 - PINS, BSR8|108, BSR11, Technical Report: <https://www.ansi.org/portal/psawebforms/>
- Information about standards Incorporated by Reference (IBR): <https://ibr.ansi.org/>
- ANSI - Education and Training: [www.standardslearn.org](http://www.standardslearn.org)

# American National Standards Under Continuous Maintenance

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

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

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

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

To obtain additional information with regard to these standards, including contact information at the ANSI Accredited Standards Developer, please visit ANSI Online at [www.ansi.org/asd](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).

## AARST

American Association of Radon Scientists  
and Technologists  
527 N. Justice Street  
Hendersonville, NC 28739  
[www.aarst.org](http://www.aarst.org)  
Gary Hodgden  
[StandardsAssist@gmail.com](mailto:StandardsAssist@gmail.com)

## ABYC

American Boat and Yacht Council  
613 Third Street, Suite 10  
Annapolis, MD 21403  
[www.abycinc.org](http://www.abycinc.org)  
Brian Goodwin  
[bgoodwin@abycinc.org](mailto:bgoodwin@abycinc.org)

Maciej Rynkiewicz  
[mrynkiewicz@abycinc.org](mailto:mrynkiewicz@abycinc.org)

## APTech (ASC CGATS)

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

## ASHRAE

American Society of Heating, Refrigerating  
and Air-Conditioning Engineers, Inc.  
180 Technology Parkway  
Peachtree Corners, GA 30092  
[www.ashrae.org](http://www.ashrae.org)  
Mark Weber  
[mweber@ashrae.org](mailto:mweber@ashrae.org)  
Ryan Shanley  
[rshanley@ashrae.org](mailto:rshanley@ashrae.org)  
Tanisha Meyers-Lisle  
[tmlisle@ashrae.org](mailto:tmlisle@ashrae.org)

## ASME

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

## ASME

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

## ASSP (Safety)

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

## ASTM

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

## CSA

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

## CTA

Consumer Technology Association  
1919 S. Eads Street  
Arlington, VA 22202  
[www.cta.tech](http://www.cta.tech)  
Catrina Akers  
[cakers@cta.tech](mailto:cakers@cta.tech)

## EOS/ESD

ESD Association, Inc.  
218 W. Court Street  
Rome, NY 13440  
[www.esda.org](http://www.esda.org)  
Jennifer Kirk  
[jkirk@esda.org](mailto:jkirk@esda.org)

## HI

Hydraulic Institute  
6 Campus Drive, Suite 104  
Parsippany, NJ 07054  
[www.pumps.org](http://www.pumps.org)  
Edgar Suarez  
[esuarez@pumps.org](mailto:esuarez@pumps.org)

## IAPMO (ASSE Chapter)

ASSE International Chapter of IAPMO  
18927 Hickory Creek Drive, Suite 220  
Mokena, IL 60448  
[www.asse-plumbing.org](http://www.asse-plumbing.org)  
Terry Burger  
[terry.burger@asse-plumbing.org](mailto:terry.burger@asse-plumbing.org);  
[standards@iapmostandards.org](mailto:standards@iapmostandards.org)

## IAPMO (Z)

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

## NEMA

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

## NEMA (ASC C29)

National Electrical Manufacturers  
Association  
13 North 17th Street, Suite 900  
Rosslyn, VA 22209  
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Paul Orr  
[pau\\_orr@nema.org](mailto:pau_orr@nema.org)

## ANSI-Accredited Standards Developers Contact Information

**NEMA (ASC C29)**

National Electrical Manufacturers  
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Paul Crampton  
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**NSF**

NSF International  
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arose@nsf.org

Jason Snider  
jsnider@nsf.org

Monica Milla  
mmilla@nsf.org

Rachel Brooker  
rbrooker@nsf.org

**OEOSC (ASC OP)**

Optics and Electro-Optics Standards  
Council  
75 Barrett Drive, #1190  
Webster, NY 14580  
www.OEOSC.org

Patrick Augino  
paugino@optimaxsi.com

**SCTE**

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

Kim Cooney  
kcooney@scte.org

**SPRI**

Single Ply Roofing Industry  
465 Waverley Oaks Road, Suite 421  
Waltham, MA 02452  
www.spri.org

Linda King  
info@spri.org

**TCNA (ASC A108)**

Tile Council of North America  
100 Clemson Research Blvd.  
Anderson, SC 29625  
www.tcnatile.com

Katelyn Simpson  
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**UL**

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12 Laboratory Drive  
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Doreen Stocker  
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Marcia.M.Kawate@ul.org

Paul Lloret  
Paul.E.Lloret@ul.org

# ISO & IEC Draft International Standards



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

## COMMENTS

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

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

## ORDERING INSTRUCTIONS

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

## ISO Standards

### Agricultural food products (TC 34)

ISO/DIS 8586, Sensory analysis - General guidelines for the selection, training and monitoring of selected assessors and expert sensory assessors - 5/16/2022, \$107.00

### Aircraft and space vehicles (TC 20)

ISO/DIS 1151-8, Flight dynamics - Concepts, quantities and symbols - Part 8: Concepts and quantities used in the study of the dynamic behaviour of aircraft - 12/26/2021, \$58.00

ISO/DIS 23230, Space systems - Paints and varnishes - Processes, procedures, and requirements for coating materials and coatings - 5/12/2022, \$67.00

ISO/DIS 24412, Space systems - Thermal vacuum environmental testing - 5/16/2022, \$98.00

ISO/DIS 27996, Aerospace fluid systems - Elastomer seals - Storage and shelf life - 5/16/2022, \$46.00

### Dentistry (TC 106)

ISO/DIS 13078-3, Dentistry - Dental furnace - Part 3: Test method for evaluation of high temperature sintering furnace measurement with separate thermocouple - 5/12/2022, \$46.00

ISO/DIS 23401-1, Dentistry - Chairside denture base relining materials - Part 1: Hard type materials - 5/15/2022, \$58.00

### Fasteners (TC 2)

ISO/DIS 4032.2, Fasteners - Hexagon regular nuts (style 1) - 4/16/2022, \$53.00

ISO/DIS 4033.2, Fasteners - Hexagon high nuts (style 2) - 4/16/2022, \$40.00

ISO/DIS 8673.2, Fasteners - Hexagon regular nuts (style 1), with fine pitch thread - 4/16/2022, \$53.00

ISO/DIS 8674.2, Fasteners - Hexagon high nuts (style 2), with fine pitch thread - 4/16/2022, \$40.00

### Fluid power systems (TC 131)

ISO/DIS 5352, Hydraulic fluid power - Determining discharge flow rate and thermal losses of gas loaded accumulators - 5/12/2022, \$82.00

ISO/DIS 11500, Hydraulic fluid power - Determination of the particulate contamination level of a liquid sample by automatic particle counting using the light-extinction principle - 12/25/2021, \$77.00

ISO/DIS 6953-1, Pneumatic fluid power - Compressed air pressure regulators and filter-regulators - Part 1: Main characteristics to include in suppliers literature and product-marking requirements - 5/12/2022, \$58.00

ISO/DIS 6953-2, Pneumatic fluid power - Compressed air pressure regulators and filter-regulators - Part 2: Test methods to determine the main characteristics to include in supplier's literature - 5/13/2022, \$107.00

### Gears (TC 60)

ISO/FDIS 10825-1, Gears - Wear and damage to gear teeth - Part 1: Nomenclature and characteristics - 11/22/2020, \$146.00

### Internal combustion engines (TC 70)

ISO/FDIS 8528-5, Reciprocating internal combustion engine driven alternating current generating sets - Part 5: Generating sets - 4/9/2021, \$107.00

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

ISO/FDIS 5215, Laboratory plastic ware - Volumetric flasks - 6/5/2021, \$58.00

**Light metals and their alloys (TC 79)**

ISO/FDIS 18768-1, Organic coatings on aluminium and its alloys - Methods for specifying decorative and protective organic coatings on aluminium - Part 1: Powder coatings - 2/7/2021, \$98.00

ISO/FDIS 18768-2, Organic coatings on aluminium and its alloys - Methods for specifying decorative and protective organic coatings on aluminium - Part 2: Liquid coatings - 2/6/2021, \$107.00

**Non-destructive testing (TC 135)**

ISO/DIS 24647, Non-destructive testing - Robotic ultrasonic test systems - General requirements - 5/14/2022, \$102.00

**Nuclear energy (TC 85)**

ISO 11311:2011/DAMd 1, - Amendment 1: Nuclear criticality safety - Critical values for homogeneous plutonium-uranium oxide fuel mixtures outside of reactors - Amendment 1: Corrections and clarifications - 5/16/2022, \$29.00

ISO/FDIS 23547, Measurement of radioactivity - Gamma emitting radionuclides - Reference measurement standard specifications for the calibration of gamma-ray spectrometers - 3/25/2021, \$58.00

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

ISO/FDIS 12005, Lasers and laser-related equipment - Test methods for laser beam parameters - Polarization - 2/7/2021, \$67.00

ISO/FDIS 13696, Optics and photonics - Test method for total scattering by optical components - 2/7/2021, \$98.00

ISO/DIS 8600-4, Endoscopes - Medical endoscopes and endotherapy devices - Part 4: Determination of maximum width of insertion portion - 5/14/2022, \$33.00

**Packaging (TC 122)**

ISO/FDIS 16495, Packaging - Transport packaging for dangerous goods - Test methods - 4/11/2021, \$112.00

**Plastics (TC 61)**

ISO/DIS 6603-2, Plastics - Determination of puncture impact behaviour of rigid plastics - Part 2: Instrumented impact testing - 5/12/2022, \$98.00

ISO/FDIS 7765-2, Plastics film and sheeting - Determination of impact resistance by the free-falling dart method - Part 2: Instrumented puncture test - 5/22/2021, \$67.00

ISO/DIS 22007-7, Plastics - Determination of thermal conductivity and thermal diffusivity - Part 7: Measurement of thermal effusivity using a regularly-shaped transient plane source probe - 5/14/2022, \$67.00

**Powder metallurgy (TC 119)**

ISO/DIS 3252, Powder metallurgy - Vocabulary - 5/13/2022, \$107.00

**Prosthetics and orthotics (TC 168)**

ISO/DIS 22523, External limb prostheses and external orthoses - Requirements and test methods - 5/19/2022, \$134.00

ISO/DIS 29782, Prostheses and orthoses - Factors to be considered when specifying a prosthesis for a person who has had a lower limb amputation - 5/12/2022, \$40.00

**Pulleys and belts (including veebelts) (TC 41)**

ISO/DIS 283, Textile conveyor belts - Full thickness tensile strength, elongation at break and elongation at the reference load - Test method - 5/16/2022, \$53.00

**Refrigeration (TC 86)**

ISO/DIS 6369, Ice makers for commercial use - Classification, requirements and test conditions - 5/12/2022, \$58.00

ISO/DIS 5222-1, Heat recovery ventilators and energy recovery ventilators - Testing and calculating methods for seasonal performance factor - Part 1: Sensible heating recovery seasonal performance factors of HRV - 5/15/2022, \$93.00

**Road vehicles (TC 22)**

ISO/FDIS 21234, Road vehicles - Heavy commercial vehicles and buses - Mass moment of inertia measurement - 3/1/2021, \$71.00

ISO/FDIS 21448, Road vehicles - Safety of the intended functionality - 11/21/2020, \$185.00

**Safety of machinery (TC 199)**

ISO/DIS 13855, Safety of machinery - Positioning of safeguards with respect to the approach of the human body - 12/25/2021, \$155.00

**Security (TC 292)**

ISO/DIS 22385, Security and resilience - Authenticity, integrity and trust for products and documents - Guidelines for establishing a framework for trust and interoperability - 5/9/2022, \$71.00

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

ISO/DIS 13319-2, Determination of particle size distribution - Electrical sensing zone method - Part 2: Tuneable resistive pulse sensing method - 5/12/2022, \$77.00

**Sizing systems and designations for clothes (TC 133)**

ISO/DIS 20947-3, Performance evaluation protocol for digital fitting systems - Part 3: Digital fitting performance - 5/12/2022, \$107.00

**Solid biofuels (TC 238)**

ISO/DIS 17225-8, Solid biofuels - Fuel specifications and classes - Part 8: Graded thermally treated and densified biomass fuels for commercial and industrial use - 5/15/2022, \$77.00

**Technical systems and aids for disabled or handicapped persons (TC 173)**

ISO/FDIS 20342-1, Assistive products for tissue integrity when lying down - Part 1: General requirements -, \$107.00

**Terminology (principles and coordination) (TC 37)**

ISO/FDIS 704, Terminology work - Principles and methods - 4/23/2021, \$146.00

**Thermal insulation (TC 163)**

ISO/DIS 52016-3, Energy performance of buildings - Energy needs for heating and cooling, internal temperatures and sensible and latent heat loads - Part 3: Calculation procedures regarding adaptive building envelope elements - 5/15/2022, \$134.00

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

ISO/DIS 23375, Intelligent transport systems - Collision Evasive Lateral Manoeuvre Systems (CELM) - Requirements and test procedures - 5/14/2022, \$98.00

ISO/DIS 15638-23, Intelligent transport systems - Framework for collaborative telematics applications for regulated commercial freight vehicles (TARV) - Part 23: Tyre pressure monitoring (TPM) - 5/12/2022, \$155.00

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

ISO/DIS 3581, Welding consumables - Covered electrodes for manual metal arc welding of stainless and heat-resisting steels - Classification - 5/13/2022, \$98.00

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

ISO/IEC 21122-2/DAmD 1, - Amendment 1: Information technology - JPEG XS low-latency lightweight image coding system - Part 2: Profiles and buffer models - Amendment 1: Profile and sublevel for 4:2:0 content - 5/14/2022, \$40.00

ISO/IEC 29134:2017/DAmD 1, - Amendment 1: Information technology - Security techniques - Guidelines for privacy impact assessment - Amendment 1 - 5/12/2022, \$29.00

ISO/IEC FDIS 18045, Information security, cybersecurity and privacy protection - Evaluation criteria for IT security - Methodology for IT security evaluation - 3/28/2020, \$269.00

ISO/IEC DIS 24661, Information technology - User interfaces - Full duplex speech interaction - 5/14/2022, \$82.00

ISO/IEC FDIS 27400, Cybersecurity - IoT security and privacy - Guidelines - 6/3/2021, \$112.00

ISO/IEC FDIS 15408-1, Information security, cybersecurity and privacy protection - Evaluation criteria for IT security - Part 1: Introduction and general model - 3/30/2020, \$175.00

ISO/IEC FDIS 15408-2, Information security, cybersecurity and privacy protection - Evaluation criteria for IT security - Part 2: Security functional components - 3/30/2020, \$215.00

ISO/IEC FDIS 15408-3, Information security, cybersecurity and privacy protection - Evaluation criteria for IT security - Part 3: Security assurance components - 4/26/2020, \$194.00

ISO/IEC FDIS 15408-4, Information security, cybersecurity and privacy protection - Evaluation criteria for IT security - Part 4: Framework for the specification of evaluation methods and activities - 3/30/2020, \$67.00

ISO/IEC FDIS 15408-5, Information security, cybersecurity and privacy protection - Evaluation criteria for IT security - Part 5: Pre-defined packages of security requirements - 3/30/2020, \$93.00

ISO/IEC DIS 19566-8, Information technologies - JPEG systems - Part 8: JPEG Snack - 5/16/2022, \$112.00

ISO/IEC DIS 23090-2, Information technology - Coded representation of immersive media - Part 2: Omnidirectional media format - 5/15/2022, \$245.00

ISO/IEC DIS 23001-11, Information technology - MPEG systems technologies - Part 11: Energy-efficient media consumption (green metadata) - 5/12/2022, \$155.00

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

100/3744/CD, IEC 60728-101-1 ED1: RF cabling for two-way home networks with all-digital channels load, 04/22/2022

100/3745/CD, IEC 60728-101-2 ED1: <p>Performance requirements for signals delivered at the system outlet in operation with all-digital channels load</p>, 04/22/2022

**Documentation and graphical symbols (TC 3)**

3D/376/NP, PNW 3D-376 ED1: IEC 61360-7 DB - Data dictionary of cross-domain concepts, 05/20/2022

**Electrical accessories (TC 23)**

23B/1379/CD, IEC 60669-2-2 ED4: Switches for household and similar fixed electrical installations - Part 2-2: Particular requirements - Electromagnetic remote-control switches (RCS), 05/20/2022

23B/1380/CD, IEC 60669-2-3 ED4: Switches for household and similar fixed electrical installations - Part 2-3: Particular requirements - Time-delay switches (TDS), 05/20/2022

**Electrical apparatus for explosive atmospheres (TC 31)**

31J/317/CD, IEC 60079-14 ED6: Explosive atmospheres - Part 14: Electrical installations design, selection and erection, 04/22/2022

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

48B/2945/CD, IEC 60352-9 ED1: Solderless connections - Part 9: Ultrasonic welding - General requirements, test methods and practical guidance, 05/20/2022

**Electrostatics (TC 101)**

101/649(F)/FDIS, IEC 61340-5-3 ED3: Electrostatics - Part 5-3: Protection of electronic devices from electrostatic phenomena - Properties and requirements classification for packaging intended for electrostatic discharge sensitive devices, 03/25/2022

**Fibre optics (TC 86)**

86A/2180/CDV, IEC 60794-1-301 ED1: Optical fibre cables - Part 1-301: Generic specification - Basic optical cable test procedures - Cable elements test methods - Bend test, Method G1, 05/20/2022

86A/2181/CDV, IEC 60794-1-311 ED1: Optical fibre cables - Part 1-311: Generic specification - Basic optical cable test procedures - Cable element test methods - Tensile strength and elongation test for cable elements, Method G11A, 05/20/2022

86A/2182/CDV, IEC 60794-1-312 ED1: Optical fibre cables - Part 1-312: Generic specification - Basic optical cable test procedures - Cable element test methods - Elongation test for buffer tubes at low temperature, Method G11B, 05/20/2022

86B/4596/CD, IEC 61300-2-27 ED2: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-27: Tests - Dust - Laminar flow, 05/20/2022

86B/4597/CD, IEC 61300-2-44 ED4: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-44: Tests - Flexing of the strain relief of fibre optic devices and components, 05/20/2022

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

110/1401/CDV, IEC 62715-2 ED1: Flexible display devices ? Part 2: Essential ratings and characteristics, 05/20/2022

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

65A/1036/CD, IEC TS 61508-3-2 ED1: Requirements and Guidance in the use of mathematical and logical techniques for establishing exact properties of software and its documentation, 05/20/2022

65A/1037/NP, PNW 65A-1037 ED1: Electrical equipment for measurement, control and laboratory use ? EMC requirements ? Part 2-7: Particular requirements ? Test configurations, operational conditions, test levels and performance criteria for field devices with Ethernet-APL interfaces, 05/20/2022

**Lightning protection (TC 81)**

81/687/CDV, IEC 62305-2 ED3: Protection against lightning - Part 2: Risk management, 05/20/2022

81/688/CDV, IEC 62305-3 ED3: Protection against lightning - Part 3: Physical damage to structures and life hazard, 05/20/2022

81/686/CDV, IEC 62561-3 ED3: Lightning protection system components (LPSC) - Part 3: Requirements for isolating spark gaps (ISG), 05/20/2022

**Magnetic components and ferrite materials (TC 51)**

51/1409/CD, IEC 62024-2 ED3: High frequency inductive components - Electrical characteristics and measuring methods - Part 2: Rated current of inductors for DC-to-DC converters, 05/20/2022

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

116/578/FDIS, IEC 62841-4-2/AMD1 ED1: Amendment 1 - Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-2: Particular requirements for hedge trimmers, 04/08/2022

116/579/FDIS, IEC 63370 ED1: Lithium-ion batteries and charging systems - Safety, 04/08/2022

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

61/6511/NP, PNW TS 61-6511 ED1: Household and similar electrical appliances ? repair, refurbishment, and remanufacturing of an appliance and subsequent safety testing - General safety requirements, 05/20/2022

**Semiconductor devices (TC 47)**

47/2751/CDV, IEC 63068-4 ED1: Semiconductor devices - Non-destructive recognition criteria of defects in silicon carbide homoepitaxial wafer for power devices - Part 4: Procedure for identifying and evaluating defects using a combined method of optical inspection and photoluminescence, 05/20/2022

47/2755(F)/FDIS, IEC 63275-1 ED1: Semiconductor devices - Reliability test method for silicon carbide discrete metal-oxide semiconductor field effect transistors - Part 1: Test method for bias temperature instability, 04/01/2022

**Surface mounting technology (TC 91)**

91/1779/NP, PNW TS 91-1779 ED1: Design guideline for cavity substrate, 05/20/2022

**Switchgear and controlgear (TC 17)**

17C/835(F)/FDIS, IEC 62271-203 ED3: High-voltage switchgear and controlgear - Part 203: AC gas-insulated metal-enclosed switchgear for rated voltages above 52 kV, 03/18/2022

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

121A/480/CD, IEC 60947-4-1 ED5: Low-voltage switchgear and controlgear - Part 4-1: Contactors and motor-starters - Electromechanical contactors and motor-starters, 04/22/2022

**e-Transporters (PeTs)**

125/55/CD, IEC 63281-2-1 ED1: Personal e-Transporters ? Part 2-1: Test method for total run time of e-scooter with consideration to environmental conditions of actual use, 05/20/2022

**Ultrasonics (TC 87)**

87/786/CDV, IEC 62127-3 ED2: Ultrasonics - Hydrophones - Part 3: Properties of hydrophones for ultrasonic fields, 05/20/2022



# 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

### Cycles (TC 149)

[ISO 8562:2022](#), Cycles - Stem wedge angle, \$48.00

### Hydrometric determinations (TC 113)

[ISO 772:2022](#), Hydrometry - Vocabulary and symbols, \$250.00

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

[ISO 11093-4:2022](#), Paper and board - Testing of cores - Part 4: Measurement of dimensions, \$111.00

### Plastics (TC 61)

[ISO 871:2022](#), Plastics - Determination of ignition temperature using a hot-air furnace, \$111.00

[ISO 15013:2022](#), Plastics - Extruded sheets of polypropylene (PP) - Requirements and test methods, \$73.00

[ISO 6721-12:2022](#), Plastics - Determination of dynamic mechanical properties - Part 12: Compressive vibration - Non-resonance method, \$73.00

### Road vehicles (TC 22)

[ISO 17840-1:2022](#), Road vehicles - Information for first and second responders - Part 1: Rescue sheet for passenger cars and light commercial vehicles, \$111.00

## ISO/IEC JTC 1, Information Technology

[ISO/IEC 21558-1:2022](#), Telecommunications and information exchange between systems - Future network architecture - Part 1: Switching and routing, \$73.00

[ISO/IEC 21558-3:2022](#), Telecommunications and information exchange between systems - Future network architecture - Part 3: Networking of everything, \$149.00

[ISO/IEC 21559-1:2022](#), Telecommunications and information exchange between systems - Future network protocols and mechanisms - Part 1: Switching and routing, \$149.00

[ISO/IEC 21559-3:2022](#), Telecommunications and information exchange between systems - Future network protocols and mechanisms - Part 3: Networking of everything, \$200.00

## IEC Standards

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

[IEC 63295 Ed. 1.0 b:2022](#), Specification for WB series glass beads with 50  $\Omega$  impedance for RF connectors, \$133.00

### Terminology (TC 1)

[IEC 60050-417 Ed. 1.0 b:2022](#), International Electrotechnical Vocabulary (IEV) - Part 417: Marine energy - Wave, tidal and other water current converters, \$183.00



# Accreditation Announcements (U.S. TAGs to ISO)

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## Public Review of Application for Accreditation of a U.S. TAG to ISO

### TC 330, Surfaces with biocidal and antimicrobial properties

Submit comments by April 4, 2022

The Electronic Components Industry Association (ECIA), an ANSI Member and Accredited Standards Developer (ASD), has submitted an Application for Accreditation for a new proposed U.S. Technical Advisory Group (TAG) to ISO TC 330, Surfaces with biocidal and antimicrobial properties, and a request for approval as TAG Administrator. The proposed TAG intends to operate using the Model Operating Procedures for U.S. Technical Advisory Groups to ANSI for ISO Activities as contained in Annex A of the ANSI International Procedures <http://www.ansi.org/internationalprocedures>.

To obtain a copy of the TAG application or to offer comments, please contact: Mr. Ed Mikoski, Jr., Vice President, Standards and Technology, Electronic Components Industry Association, 13873 Park Center Road, Suite 315, Herndon, VA 20271; phone: 571.323.0253; email: <mailto:emikoski@ecianow.org>. Please submit any comments to ECIA by April 4, 2022 (please copy <mailto:jthompso@ansi.org>).

# International Electrotechnical Commission (IEC)

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## Call for Members (USNC)

### USNC TAGs to IEC/TC 1 and IEC/TC 3, SC 3C, SC 3D

The USNC Technical Advisory Group (TAG) Secretary for the USNC TAGs to **IEC/TC 1 and IEC/TC 3, SC 3C, SC 3D** would like to grow the membership of the TAGs. Individuals who are interested in joining the USNC TAGs to IEC/TC1 and IEC/TC 3, SC 3C, SC 3D are invited to contact Betty Barro at [bbarro@ansi.org](mailto:bbarro@ansi.org) as soon as possible.

Please see the scopes for **IEC/TC 1** and **IEC/TC 3, SC 3C, SC 3D** below (and on the next page):

#### Scope TC 1 - Terminology

*To sanction the terms and definitions used in the different electrotechnical fields and to determine the equivalence of the terms used in the different languages. As a consequence, to prepare an International Electrotechnical Vocabulary aiming at the standardization and coordination of the terms relating to electrical sciences and techniques for use in the technical language and literature, in teaching, in technical specifications and in commercial exchanges, and at giving their equivalents in the different languages.*

#### Scope TC 3 - Documentation, graphical symbols and representations of technical information

*Standardization in the field of documentation, graphical symbols and representations of technical information, covering*

*1) Rules, principles and methods focusing on machine sensible representation of information. This includes but is not limited to:*

- *Definition and identification of classes and properties (e.g. sematic data),*
- *ontologies and data dictionaries (e.g. CDD),*
- *Information models for structuring of technical data and document management,*
- *information exchange based on existing communication means.*

*It includes definition, co-ordination and management of the information required during the whole life cycle of a device, system, or plant, also covering aspects of documentation.*

*2) Rules, principles and methods focusing on human sensible representation of the information. This includes but is not limited to:*

- *presentation of information in documentation,*
- *graphical symbols for use in documentation,*
- *graphical symbols for the human interaction with equipment.*

*The standards deal with the presentations and graphical symbols as shown in documents or on equipment, independently of their forms of representation, analogue or digital, but may also include requirements for the development of documentation.*

## International Electrotechnical Commission (IEC)

### Call for Members (USNC)

#### USNC TAGs to IEC/TC 1 and IEC/TC 3, SC 3C, SC 3D (Continued)

3) *Rules, principles and methods for general and safety related marking, identification and arrangement of information in electrical installations, equipment and man-machine interfaces. This includes but is not limited to:*

- *the meanings of colours and alternative means, when used for marking and identification,*
- *the arrangement of indicating devices and actuators,*
- *coding principles for indicating and actuating devices,*
- *terminal designation of electrical and electronic components, apparatus and equipment,*
- *designation of certain designated conductors,*
- *marking of electrical and electronic equipment with ratings related to supply and to its properties,*
- *marking of bare and insulated conductors.*

#### Scope SC 3C - Graphical symbols for use on equipment

*Standardization in the field of graphical symbols for the human interaction with equipment regarding methods and rules.*

*Included:*

- *Basic design rules for graphical symbols.*
- *The design of graphical symbols for particular applications.*

*Graphical symbols for use on equipment are primarily intended to:*

- *identify the equipment or a part of the equipment (e.g. a control or display);*
- *indicate a functional state (e.g. on, off, alarm);*
- *designate connections (e.g. terminals, filling points for materials);*
- *provide information on packaging (e.g. identification of contents, instructions for handling);*
- *provide instruction for the operation of the equipment (e.g. limitations of use).*

#### Scope SC 3D - Classes, Properties and Identification of products - Common Data Dictionary (CDD)

*Standardization for representation of technical information along the life cycle of a product including service, device, system or plant, covering rules, principles and methods associated with the machine sensible representation of the technical information. This refers to:*

- *definition, structuring and identification of classes and properties*
- *structural design of product data dictionaries and ontologies*
- *consistent methodology for the purpose of structuring technical information and its exchange*
- *support for the design of classes and properties in all domains/industries and their publication in IEC Common Data Dictionary (IEC CDD)*
- *maintenance and quality control of the IEC Common Data Dictionary (IEC CDD)*
- *Supporting semantic interoperability*

# International Organization for Standardization (ISO)

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## Establishment of ISO Technical Committee

### ISO/TC 338 – Menstrual products

A new ISO Technical Committee, ISO/TC 338 – *Menstrual products*, has been formed. The Secretariat has been assigned to Sweden (SIS).

ISO/TC 338 operates under the following scope:

*Standardization in the field of menstrual products, covering all products intended for both single and multiple use, regardless of material.*

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

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

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

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

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



**BSR/ASHRAE Addendum i  
to ANSI/ASHRAE Standard 62.2-2019**

**Public Review Draft**

**Proposed Addendum i to  
Standard 62.2-2019, Ventilation and  
Acceptable Indoor Air Quality in  
Residential Buildings**

**Second Public Review (February 2022)  
(Draft shows Proposed Changes to Current Standard)**

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

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

The appearance of any technical data or editorial material in this public review document does not constitute endorsement, warranty, or guaranty by 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 i to ANSI/ASHRAE Standard 62.2-2019, *Ventilation and Acceptable Indoor Air Quality in Residential Buildings*  
 Second 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

*Ozone and similar reactive oxygen species are hazardous both directly and through the indoor chemistry they promote. Some air-cleaning systems may produce ozone intentionally or incidentally. By reference to 62.1, this proposed addendum establishes minimum requirements for ozone emissions of air-cleaning systems that incorporate ultraviolet light or the creation of charged particles, ions, or free radicals.*

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

## Addendum i to 62.2-2019

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**Add a new definition in Section 3 as shown below.**

***air-cleaning system:*** see ANSI/ASHRAE Standard 62.1, *Ventilation for Acceptable Indoor Air Quality*.

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

***7.6 Ozone.*** *Air-cleaning systems shall comply with Section 5.7 of ASHRAE 62.1-2019.*

***Exception to 7.6:*** *Air-cleaning systems that do not incorporate ultraviolet light or the creation of charged particles, ions, or free radicals.*

***Informative Note:*** A free, read-only version of Standard 62.1 can be accessed online at <https://www.ashrae.org/technical-resources/standards-and-guidelines/read-only-versions-of-ashrae-standards>.

**Add the following reference in Section 9 as shown below. The remainder of Section 9 is unchanged.**

## 9. REFERENCES

ASHRAE  
 1791 Tullie Circle, N.E.  
 Atlanta, GA 30329  
 180 Technology Parkway NW  
 Peachtree Corners, GA 30092  
 (800) 527-4723; [www.ashrae.org](http://www.ashrae.org)

ANSI/ASHRAE Standard 62.1-2019 Ventilation for Acceptable Indoor Air Quality  
 Section 3, 7.6





**BSR/ASHRAE Addendum L  
to ANSI/ASHRAE Standard 62.2-2019**

**Public Review Draft**

**Proposed Addendum L to  
Standard 62.2-2019, Ventilation and  
Acceptable Indoor Air Quality in  
Residential Buildings**

**First Public Review (February 2022)  
(Draft shows Proposed Changes to Current Standard)**

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

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

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

BSR/ASHRAE Addendum L to ANSI/ASHRAE Standard 62.2-2019, *Ventilation and Acceptable Indoor Air Quality in Residential Buildings*  
 First Public Review Draft

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## FOREWORD

*This proposed addendum consolidates the operation requirements of the standard into one section, adds a requirement for systems to be maintained, and clarifies that operations and maintenance instructions must be provided via a manual meeting minimum requirements.*

*[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 L to 62.2-2019

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**Revise Section 4.4 as shown below.**

### **4.4 Control and Operation.**

**4.4.1 Control.** An ON-OFF control, readily accessible to the dwelling-unit occupant, including but not limited to a fan switch or a dedicated branch-circuit overcurrent device, shall be provided.

**Exception to 4.4.1:** For multifamily dwelling units, the ON-OFF control shall not be required to be readily accessible to the dwelling-unit occupant.

**4.4.2 Operation.** ~~The system shall be operated as designed.~~

**Delete Sections 5.2.3 and 5.3.3 as shown below.**

**5.2.3 Operation.** ~~Demand-controlled local mechanical exhaust systems shall be designed to be operated as needed.~~

**5.3.3 Operation.** ~~The continuous local mechanical exhaust system shall be operated as designed.~~

**Revise Section 6.2 as shown below.**

**6.2 Instructions and Labeling.** ~~Information on the ventilation design and/or ventilation systems installed, instructions on their proper operation to meet the requirements of this standard, and instructions detailing any required maintenance (similar to that provided for HVAC systems) shall be provided to the owner and the occupant of the dwelling unit. Controls shall be labeled as to their function (unless that function is obvious, such as toilet exhaust fan switches).~~

**Add new Section 8 as shown below.**

## **8 Operations and Maintenance**

BSR/ASHRAE Addendum L to ANSI/ASHRAE Standard 62.2-2019, *Ventilation and Acceptable Indoor Air Quality in Residential Buildings*  
First Public Review Draft

## **8.1 Operations**

**8.1.1 Ventilation Systems.** All systems shall be operated as designed.

**8.1.2 Operation Instructions.** Instructions to operate the ventilation system equipment and other components as designed shall be provided to the building owner or operator and dwelling unit occupants as part of an Operations & Maintenance (O&M) manual. The O&M manual shall include ventilation system user manuals, design airflows, filter specifications, operating schedules, and, where applicable, other information required to comply with the standard.

## **8.2 Maintenance**

**8.2.1 Ventilation System.** The dwelling unit ventilation system, including its equipment and other components, shall be maintained in accordance with an O&M manual.

**8.2.2 Maintenance Instructions.** Detailed instructions for required maintenance of the dwelling unit ventilation system and associated filters shall be provided to the building owner or operator and dwelling unit occupants as part of an O&M manual.



**BSR/ASHRAE Addendum g  
to ANSI/ASHRAE Standard 15-2019**

**Second Public Review Draft**

**Proposed Addendum g to  
Standard 15-2019, Safety Standard  
for Refrigeration Systems**

**Second Public Review (March 2022)  
(Draft shows Proposed Independent Substantive  
Changes to Previous Public Review Draft)**

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

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

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

BSR/ASHRAE Addendum g to ANSI/ASHRAE Standard 15-2019, *Safety Standard for Refrigeration Systems*  
Second Public Review Draft (Independent Substantive Change)

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## FOREWORD

*Draft addendum g to ANSI/ASHRAE Standard 15-2019 proposes a complete rewrite of Section 7.2, “Concentration Limits,” and Section 7.3, “Volume Calculations.” This proposal reverses the existing sections, first addressing the volume of spaces for consideration (proposed Section 7.2), then determines acceptable refrigerant charge quantity (proposed Section 7.3). Additionally, the draft addendum adds several definitions for connected spaces, effective dispersal volume, effective dispersal volume charge (EDVC), independent circuit, releasable refrigerant charge ( $m_{rel}$ ), and system refrigerant charge ( $m_s$ ).*

*Draft addendum g previously underwent two Advisory Public Reviews (APRs) and a 1<sup>st</sup> Publication Public Review (PPR). The 1<sup>st</sup> PPR received 33 comments from 6 commenters. This second PPR proposes modifications based upon submitted comments. Refer to the 1<sup>st</sup> and 2<sup>nd</sup> APRs and 1<sup>st</sup> PPR drafts, including the forewords, for more information.*

**Note:** This public review draft of addendum g makes proposed independent substantive changes to the previous public review draft. These substantive changes to the previous public review draft and related changes to Standard 15-2019 are indicated by blue-colored text with underlining (for additions) and red-colored text with ~~strike-through~~ (for deletions), except where the reviewer instructions specifically describe some other means of showing the changes. Only those changes to the current standard shown in blue or red text 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.

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### Addendum g to Standard 15-2019

***Modify Section 3 as follows. The remainder of Section 3 remains unchanged.***

## 3. DEFINITIONS

### 3.1 Defined Terms

[ ... ]

***effective dispersal volume charge (EDVC):*** the maximum *refrigerant* charge permitted for an *effective dispersal volume*.

[ ... ]

***\*refrigerant detection system:*** a system or portion of a combination system that utilizes one or more devices to detect the presence of a *specified refrigerant at a specified concentration and initiates one or more mitigation actions required by this standard*.

***\*refrigerant detector:*** a device that is capable of sensing the presence of *refrigerant* vapor.

[ ... ]

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

## 7. RESTRICTIONS ON REFRIGERANT USE

[ ... ]

### 7.2\* Volume Calculations

**7.2.1 General.** The *effective dispersal volume* identified in Section 7.3, “*Refrigerant System Charge Limits*,”

BSR/ASHRAE Addendum g to ANSI/ASHRAE Standard 15-2019, *Safety Standard for Refrigeration Systems*  
Second Public Review Draft (Independent Substantive Change)

into which refrigerant will disperse in the event of a release shall be calculated in accordance with this section. Volume calculations shall evaluate each space or connected space relevant to each refrigeration system. The smallest volume into which refrigerant disperses shall be used to determine the refrigerant quantity limit in the system.

## **7.2.2 Refrigerant Groups**

**7.2.2.1 Flammability Class 1.** For Group A1 and B1 refrigerants, the effective dispersal volume shall be based on the occupied space served by a refrigeration system. Outdoor spaces shall not be included.

[ ... ]

**7.2.3.1.1 Exempted Spaces.** The areas that contain only continuous refrigerant piping ~~without joints and connections, valves, valve assemblies, or~~ connections that have been tested in accordance with ~~per~~ Section 10.1 ~~9.14, "Factory Tests,"~~ are exempt from the EDV calculation, unless these areas are part of connected spaces per Section 7.2.3.2.

**Note to Reviewers:** Section 10.1, "Field Tests" of ANSI/ASHRAE Standard 15-2019, *Safety Standard for Refrigeration Systems* mentioned above has been modified to Section 9.13, "Refrigerant System Testing" by Addendum e to ANSI/ASHRAE Standard 15-2019, published January 27<sup>th</sup>, 2022.

[ ... ]

**7.2.3.2.1 Natural Ventilation Opening for Group A1 Refrigerants. ...**

[ ... ]

$m_{room}$   $\equiv$  allowable refrigerant ~~room~~ charge of an individual room, lb (kg), ~~without allowances for connected spaces~~  $V_{eff}$  used to calculate EDVC is the volume of the individual room

[ ... ]

**7.2.3.2.2 Natural Ventilation Opening for Group A2L, A2, or A3 Refrigerants. ...**

[ ... ]

$m_{room}$   $\equiv$  allowable refrigerant ~~room~~ charge of an individual room, lb (kg), ~~without allowances for connected spaces~~  $V_{eff}$  used to calculate EDVC is the volume of the individual room

[ ... ]

**7.3 Refrigerant System Charge Limits.** ~~The effective dispersal volume charge (EDVC) shall be calculated in accordance with this section. All refrigeration systems shall follow the compliance path in Figure 7-1 and Figure 7-2, and the limitation of Section 7.3.2.~~

[ ... ]

**7.3.4 Releasable Refrigerant Charge ( $m_{rel}$ ) Determination.** The releasable refrigerant charge ( $m_{rel}$ ) shall comply with the requirements of Section 7.3.1. The releasable refrigerant charge shall be determined in accordance with Section 7.3.4.1 through Section 7.3.4.4. Releasable refrigerant charge determination in accordance with Sections 7.3.4.3 and 7.3.4.4 shall not be permitted for institutional occupancies.

[ ... ]

**7.3.4.2 Multiple Independent Circuits.** For systems with multiple independent circuits, the releasable refrigerant charges shall be the refrigerant charges in each independent circuit, ~~unless release mitigation controls are provided~~ in accordance with Section 7.3.4.4.

**7.3.4.3 Calculating Releasable Refrigerant Charge. ...**

[ ... ]

where

$V_{\text{pipe}}$   $\equiv$  the internal volume of each section of the ~~pipe~~-piping and heat exchanger coil downstream of the safety shutoff valve,  $\text{ft}^3$  ( $\text{m}^3$ )

$\rho_{\text{ref}}$   $\equiv$  the density of the refrigerant in each section of pipe downstream of the safety shutoff valve,  $\text{lb}_m/\text{ft}^3$  ( $\text{kg}/\text{m}^3$ )

**7.3.4.4 Release Mitigation Controls.** Release mitigation controls used to limit the *releasable refrigerant charge* ( $m_{\text{rel}}$ ) shall comply with the following:

- a. Release mitigation systems shall be ~~listed~~ components of a refrigeration system that is listed per ANSI/UL 60335-2-40<sup>17</sup> and CAN/C22.2 No. 60335-2-40<sup>20</sup>, or ANSI/UL 60335-2-89<sup>18</sup> and CAN/C22.2 No. 60335-2-89<sup>19</sup>, and evaluated by the nationally recognized testing laboratory as part of the ~~product~~ listing.
- b. Release mitigation controls shall only be permitted for reducing the *releasable refrigerant charge* ( $m_{\text{rel}}$ ) on a refrigeration system where ~~the~~ each individual indoor unit has a cooling capacity of 5 tons (17.5 kW) or less.

[ ... ]

- e. Refrigerant ~~detection systems~~ detectors shall comply with Section 7.6.5 and shall activate the ~~refrigerant~~ mitigation controls per Section 7.6.2.4.7.6.5: For Group A1 refrigerants, 100% of RCL shall be substituted in place of 25% of LFL.

[ ... ]

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

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## INFORMATIVE APPENDIX A—EXPLANATORY MATERIAL

Sections of the standard with associated explanatory information in this appendix are marked with an asterisk “\*” after the section number, and the associated appendix information is located in a corresponding section number preceded by “A”.

[ ... ]

### A3.1 Defined Terms

**refrigerant detection system:** The product safety standard addresses both *refrigerant detection systems* and *leak detection systems*. In the product safety standard, a leak detection system is defined as “a sensing system which responds to refrigerant leaking from a refrigerating system.” A leak detection system may include gas sensing, ultrasonic, or other such methods that meet the standards ANSI/UL 60335-2-40 and CAN/C22.2 No. 60335-2-40, or ANSI/UL 60335-2-89 and CAN/C22.2 No. 60335-2-89.

**refrigerant detector:** A refrigerant sensor can be used as a refrigerant detector. A refrigerant sensor is a sensing element combined with electronic circuitry that provides a digital output or an analog signal output that corresponds to the sensed refrigerant gas concentration.

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NSF/ANSI Standard  
For Wastewater Technology –

# Residential Wastewater Treatment Systems

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## 6 Product literature

### 6.1 Owner's manual

Each system shall be accompanied by a manufacturer-prepared owner's manual. The authorized representative shall provide the manual to the owner at the time of system installation. The manual shall be written so as to be easily understood by the intended reader and shall include, at a minimum:

- the system's model designation;
- a statement designating the classification of the system (Class I or II), as well as a confirming statement that the system meets the requirements in ~~NSF/ANSI 40~~ **this standard** corresponding to the designated classification;
- a functional description of system operation, preferably including diagrams illustrating basic system design and flow path;
- a clear statement of examples of the types of waste that can be effectively treated by the system;
- a list of household substances that, if discharged to the system, may adversely affect the system, the process, or the environment;
- comprehensive operating instructions that clearly delineate proper function of the system, operating and maintenance responsibilities of the owner and authorized service personnel, and service-related obligations of the manufacturer;
- requirements for the periodic removal of residuals from the system;
- a course of action to be taken if the system is to be used intermittently, or if extended periods of nonuse are anticipated;
- detailed methods and criteria to be used to identify system malfunction or problems;
- a statement instructing the owner to reference the system data plate in the event that a problem arises, or service is required;



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- the name and telephone number of an appropriate service representative to be contacted in the event that a problem with the system occurs; and
- a description of the initial and extended service policies.

If not appearing on the system, electrical schematics for the system shall be included in the owner's manual.

*Rationale: brings language in line with NSF formatting policies*

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### 6.2.2 Operation and maintenance manual

Manufacturers shall provide comprehensive and detailed operation and maintenance instructions to authorized representatives. The manual shall be written so as to be easily understood by the intended reader and shall include, at a minimum:

- a maintenance schedule for all components;
- requirements and recommended procedures for the periodic removal of residuals from the system;
- a detailed procedure for visual evaluation of system component functions;
- a description of olfactory and visual techniques for the evaluation of system effluent and mixed liquor;
- recommended methods for collecting effluent samples; and
- the expected effluent produced by the operational system as established through analytical methods described or referenced in NSF/ANSI 40 this standard.

*Rationale: brings language in line with NSF formatting policies*

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**8.5.1.2** In the event that a catastrophic site problem not described in this Standard including, but not limited to, influent characteristics, malfunctions of test apparatus, and acts of God, jeopardizes the validity of the performance testing and evaluation, manufacturers shall be given the choice to:

- perform maintenance on the system, reinitiate system start-up procedures, and restart the performance testing and evaluation; or
- with no routine maintenance performed, have the system brought back to pre-existing conditions and resume testing within 3 weeks after the site problem has been identified and corrected. Data collected during the system recovery period shall be excluded from the 7- and 30-d averages of effluent measurements.

**NOTE**— Preexisting conditions shall be defined as the point when the results of three consecutive data days are within 15% of the previous 30-d average(s).

*Rationale: NOTES are informative and cannot contain requirements (shall).*

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## Informative Annex 2

### Key elements of a certification program for residential wastewater treatment systems

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A certification program for residential wastewater treatment systems should contain the following program elements.

#### I-2.1 Marking the product

- certified systems should bear a registered certification mark;
- certified components intended to be used with other components to make a complete functional system, as defined by NSF/ANSI 40 this standard, should bear a certification mark indicating device is a component; and
- each system should have a model designation.

#### I-2.2 Listing certified companies

A listing of all certified systems and components should be published. The listing format should include at least the following information:

- company name and address;
- product description;
- trademark / model designation;
- class rating;
- rated capacity; and
- listing of each state in which the certified company has an authorized distributor.

#### I-2.3 Annual audits

- annual audits of all facilities and production locations of the certified company; and
- annual audits of a subset of the company's authorized distributors of certified systems, including field inspections of operational systems.

#### I-2.4 Testing

- testing in accordance with NSF/ANSI 40 this standard's, requirements prior to certification; and
- a retest program that includes reevaluation and retesting at least once every 7 y.

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## **I-2.5 Corrective action**

Corrective action for all items of noncompliance found during audits and reevaluation.

## **I-2.6 Enforcement**

Enforcement action by the certifier for the following:

- use of a mark on a noncertified product;
- general noncompliance;
- unauthorized change to a certified product;
- unauthorized shipment or disposal of product placed on hold;
- bribes; and
- recall of products.

***Rationale: brings language in line with NSF formatting policies***

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## NSF/ANSI Standard for Biosafety Cabinetry —

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

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- 

## 5 Design and construction

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### 5.25.3 Type B cabinet exhaust alarm

Type B cabinets shall be exhausted by a remote fan. Once the cabinet is set or certified in its acceptable airflow range, audible and visual alarms shall activate within 15 seconds of exhaust volume loss exceeding 20%. The internal cabinet fan(s) shall be interlocked to shut off within 15 seconds of exhaust volume loss exceeding 20%. Type B cabinets shall not initiate cabinet blower startup until sensors determine appropriate exhaust flow.

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## Normative Annex 1 (formerly Annex A)

### Performance tests

#### N-1.13.4.3 Power failure stability

The difference between the initial inflow velocity and the final inflow velocity shall not exceed 3 ft/min (0.015 m/s). The difference between the initial downflow velocity and the final downflow velocity shall not exceed 3 ft/min (0.015 m/s). The cabinet ~~blower and~~ lights shall come back on automatically when power is restored. The cabinet blower shall come back on automatically when power is restored, except in the cases of all Type B or those C1 cabinets connected to an exhaust system in which sensors determine when there is insufficient exhaust flow. Alarm parameters (if so equipped) shall remain unchanged from the set points prior to power loss. The cabinet shall provide the user with a visual indication that there was a loss of power.

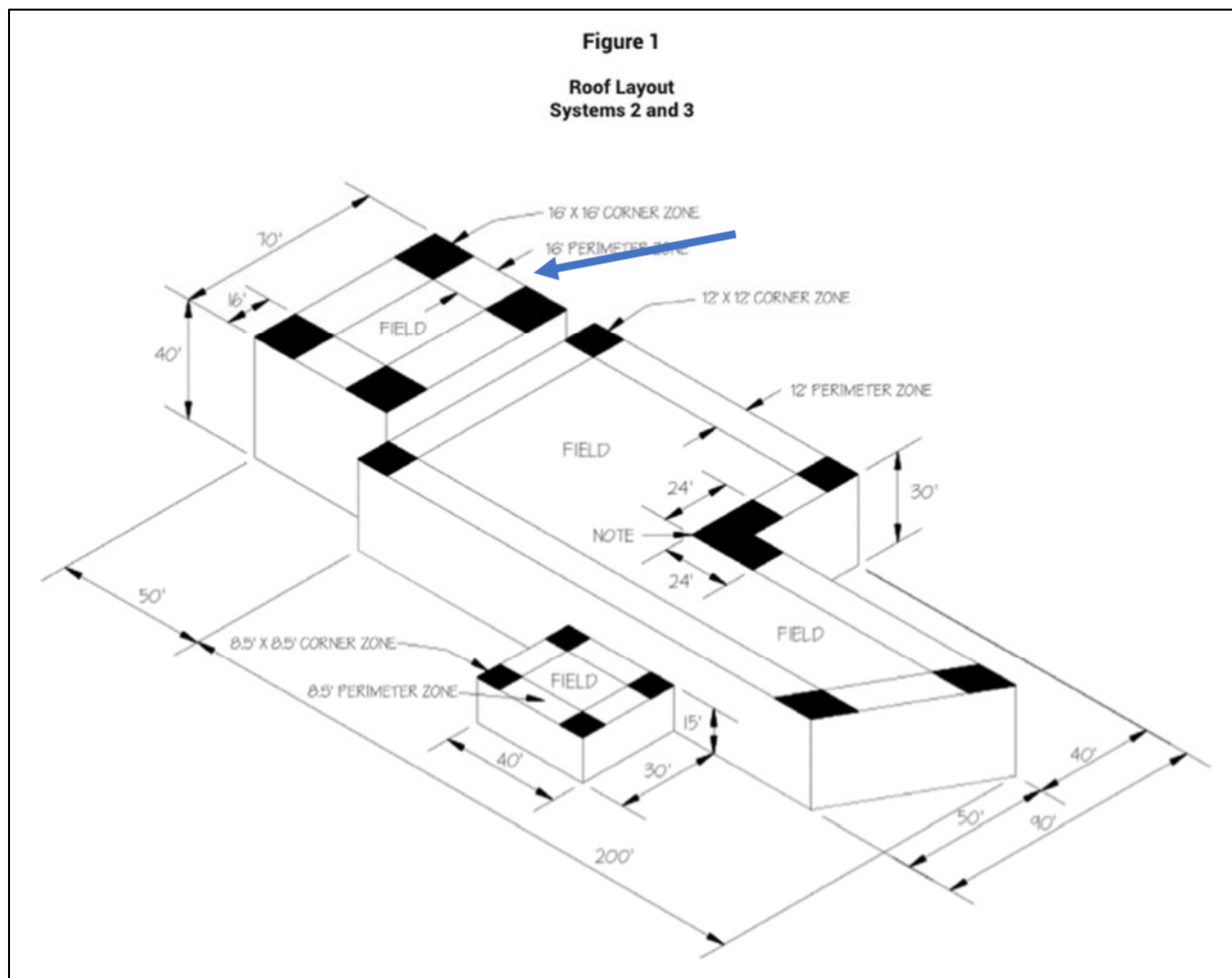
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*Rationale: This revised language clarifies the cabinet function priorities, reducing the possibility of inference that Type B blower initiation requirements come before the power loss requirements with Type B cabinets.*

Wind Design Standard for Ballasted Single-ply Roofing Systems  
SPRI RP-4 2019 Proposed Revision

On page 15 of the current ANSI/SPRI RP-4 standard, Figure 1 shows the Roof Layout for Systems 2 and 3 ("Field", "Perimeter", and "Corner" areas are depicted). Included in this image is one area identified as a "Perimeter" area that is not correct (as indicated by the blue arrow). In order to correct this situation, the SPRI Task Force has corrected the drawing to reflect the correct Perimeter area.

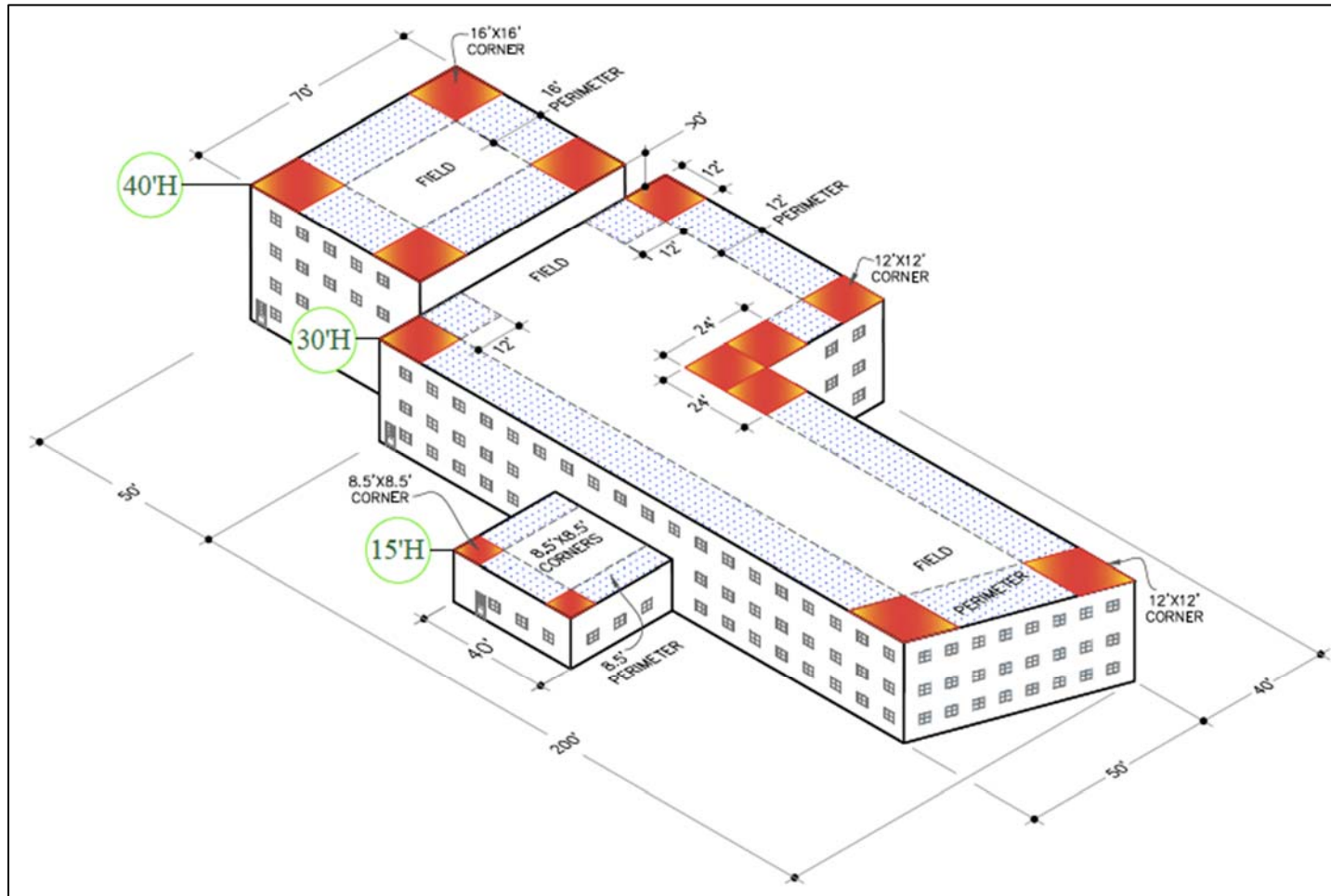
**The change to Figure 1 is considered substantive because it changes how the ballast is installed per Section 4. Design Options.**



Current Figure 1 in ANSI/SPRI RP-4 2019 Wind Design Standard for Ballasted Single-Ply Roofing Systems

The drawing below shows the correct “Figure 1” “Perimeter” area into conformance with ASCE 7-16 Figure 30.3-3 ASCE7 (see reference document).

The SPRI Task Force asks for your approval in replacing the incorrect “Figure 1” with the corrected “Figure 1” image.



Corrected Figure 1  
For ANSI/SPRI RP-4 2019 Wind Design Standard for  
Ballasted Single-Ply Roofing Systems

## BSR/UL 60079-13, Standard for Explosive Atmospheres – Part 13: Equipment Protection by Pressurized Room “p” and Artificially Ventilated Room “v”

### 1. Mechanical ventilation versus Artificial ventilation and Addition of Normative References.

#### PROPOSAL

1DV.1 *Modification of Clause 1, second, third and fourth paragraphs to replace with the following:*

1DV.1.1 DR The use of Type of Protection “v” is not permitted to be used as the type of protection for a room containing an internal source of release if this same room has already been classified using mechanical or artificial ventilation in accordance with API RP 505, NFPA 497 or ISA 60079-10-1 as applicable. This is because such a use would rely upon the same concept for two independent safety functions. However, for a larger room containing an internal source of release that has been classified using mechanical or artificial ventilation in accordance with API 505, NFPA 497 or ISA 60079-10-1 as applicable, another smaller room containing its own internal source of release may be included within the larger room that does utilize Type of Protection “v” (referred to as “a room within a room”).

1DV.1.3 DR Protection of rooms by using an inert gas or a flammable gas is outside of the scope of this document. It is recognized that such applications are special cases, which in part may be addressed using the principles from IEC UL 60079-2, but in all probability will also be the subject of additional, stringent engineering standards, procedures and practices. Pressurized enclosures for equipment that are not intended to facilitate the entry of personnel are addressed in IEC UL 60079-2, and are not in the scope of this document.

NOTE Maintenance recommendations are contained in [Annex A Error! Reference source not found](#) until they can be included in IEC 60079-17.

1DV.1.4 DR This document supplements and modifies the general requirements of IEC UL 60079-0, except exclusions as indicated in Table [1DV.1 Error! Not a valid bookmark self reference](#). Where a requirement of this document conflicts with a requirement of IEC UL 60079-0, the requirement of this document takes precedence.

### 2. New table clarifying the required minimum types of protection to permit the use of unprotected equipment.

#### PROPOSAL

**Table 5ADV**  
***Minimum Level of Protection to Permit Unprotected Equipment Within Rooms***

<u>Scope Permission</u>	<u>Exterior Area Classification†</u>	<u>Min. Interior EPL w/o Protection*</u>	<u>Internal Source of Release</u>	<u>Min. Level of Protection</u>	<u>Clean Air Source (see 5.2)**</u>	<u>Ventilation Test Options (see 7.5.7.2)</u>
<u>1a)</u>	<u>Zone 1</u>	<u>Gb</u>	<u>No</u>	<u>“Ex pb”</u>	<u>Zone 2 or Unclassified</u>	<u>N/A</u>

<u>Scope Permission</u>	<u>Exterior Area Classification†</u>	<u>Min. Interior EPL w/o Protection*</u>	<u>Internal Source of Release</u>	<u>Min. Level of Protection</u>	<u>Clean Air Source (see 5.2)**</u>	<u>Ventilation Test Options (see 7.5.7.2)</u>
<u>1a), 1b)</u>	<u>Zone 2</u>	<u>Gc</u>	<u>No</u>	<u>“Ex pc” or “Ex vc”</u>	<u>Zone 2 or Unclassified</u>	<u>N/A</u>
<u>1a)</u>	<u>Zone 21</u>	<u>Db</u>	<u>No</u>	<u>“Ex pb”</u>	<u>Unclassified</u>	<u>N/A</u>
<u>1a)</u>	<u>Zone 22</u>	<u>Dc</u>	<u>No</u>	<u>“Ex pc”</u>	<u>Unclassified</u>	<u>N/A</u>
<u>1d)</u>	<u>Zone 1</u>	<u>Gb</u>	<u>Yes</u>	<u>“Ex pb vc”</u>	<u>Zone 2 or Unclassified</u>	<u>Testing option only</u>
<u>1d)</u>	<u>Zone 1</u>	<u>Gc</u>	<u>Yes</u>	<u>“Ex pb vc”</u>	<u>Zone 2 or Unclassified</u>	<u>May use calculation or modelling</u>
<u>1b)</u>	<u>Zone 2</u>	<u>Gb</u>	<u>Yes</u>	<u>“Ex vc” or “Ex pc vc”</u>	<u>Zone 2 or Unclassified</u>	<u>Testing option only</u>
<u>1b)</u>	<u>Zone 2</u>	<u>Gc</u>	<u>Yes</u>	<u>“Ex vc” or “Ex pc vc”</u>	<u>Zone 2 or Unclassified</u>	<u>May use calculation or modelling</u>
<u>1d)</u>	<u>Zone 21</u>	<u>Db &amp; Gb</u>	<u>Yes</u>	<u>“Ex pb vc”</u>	<u>Unclassified</u>	<u>Testing option only</u>
<u>1d)</u>	<u>Zone 21</u>	<u>Db &amp; Gc</u>	<u>Yes</u>	<u>“Ex pb vc”</u>	<u>Unclassified</u>	<u>May use calculation or modelling</u>
<u>1d)</u>	<u>Zone 22</u>	<u>Dc &amp; Gb</u>	<u>Yes</u>	<u>“Ex pc vc”</u>	<u>Unclassified</u>	<u>Testing option only</u>
<u>1d)</u>	<u>Zone 22</u>	<u>Dc &amp; Gc</u>	<u>Yes</u>	<u>“Ex pc vc”</u>	<u>Unclassified</u>	<u>May use calculation or modelling</u>
<u>1c)</u>	<u>Unclassified</u>	<u>Gb</u>	<u>Yes</u>	<u>“[Ex vc]”</u>	<u>Unclassified</u>	<u>Testing option only</u>
<u>1c)</u>	<u>Unclassified</u>	<u>Gc</u>	<u>Yes</u>	<u>“[Ex vc]”</u>	<u>Unclassified</u>	<u>May use calculation or modelling</u>

† The term “Exterior Area Classification” applies to the area classification in which the room is located, as to differentiate from the area classification inside the room.

\* Determination of the minimum EPL without a UL 60079-13 Level of Protection is dependent upon the grade of the internal source of release. See ANSI/ISA-60079-10-1 (12.24.01).

\*\* The clean air source can only be from a Zone 2 or an unclassified area, as indicated. Clean air sources from Zone 0, 1, 20, 21 and 22 areas are not permitted, (see 5.2).

3. Clarifying the requirements for Type of Protection “v” with the text of the Scope permissions.

## PROPOSAL

### 3.14

**3.14DV DR Modification of Clause 3.14 references to replace with the following:**  
artificially ventilated room

**room volume protected by artificial ventilation and of sufficient size to permit the entry of a person who may occupy the room**



~~Note 1 to entry: The room volume can be an entire room (general) or part of a room (local ventilation).~~  
**8.3DV.1 DR Modification for Clause 8.3 to delete 3<sup>rd</sup> paragraph as follows:**

~~If not a complete room, then similar markings may be applied close to the ventilated area, for example on the ventilation hood.~~

## 5. Clarifying the permitted source for clean air.

### PROPOSAL

**5.2DV DR Modification of Clause 5.2 to replace with the following:**

The source of clean air shall be determined from the nature of the process and the physical layout and should be from a non-hazardous area. Under certain conditions as prescribed below and in 6.1.2 and in 7.1.2, the source may be from a Zone 2 ~~or unclassified~~ area, but shall not be from Zone 1, 20, 21 and 22 areas.

## 7. Clarifying the rules of dilution regarding minimum flow rate.

### PROPOSAL

#### 7.1.3.1 General

**7.1.3.1DV DR Modification of Clause 7.1.3.1 to replace with the following:**

The required artificial ventilation flow rate and arrangement shall be determined such that it is sufficient to control the internal source of release or achieve the required dilution for the anticipated release conditions. ~~This~~ The requirements for dilution shall be determined in accordance with applicable national standard such as API RP 505, ISA 60079-10-1, or NFPA 497 IEC 60079-10-4.

If conformity assessment (third party) is sought, it is not a requirement of this document that the conformity body confirm the conformance of the area classification of the enclosed space to API RP 505, ISA 60079-10-1, or NFPA 497 to IEC 60079-10-4. The manufacturer, or end user as relevant, includes the basis of compliance in the documentation, see 9.3. ~~However, the conformity body shall verify that the dilution methodology is appropriate for the anticipated release conditions.~~

If artificial ventilation is used for dilution, The area to be protected shall be managed to reduce the concentration of the gas or vapour to ~~less than~~ not exceed 25 % of the lower flammable limit.

### **9.3 Technical documentation for artificially ventilated rooms**

**9.3DV DR Modification of Clause 9.3, first dashed item to replace with the following:**

For ventilated rooms, the documentation shall also include the following as a minimum:

- all information relating to the use of API RP 505, ISA 60079-10-1, or NFPA 497 IEC 60079-10-4;

## 8. Markings for ventilated rooms in unclassified areas.

### PROPOSAL

#### 8.1 General

8.1DV DR Modification of Clause 8.1 to replace with the following:

In addition to the requirements of IEC UL 60079-0, the marking shall include the symbol for each tType (or lLevel) of pProtection used:

- "pb": pressurization (for EPL Gb or Db);
- "pc": pressurization (for EPL Gc or Dc); or
- "vc": artificial ventilation (for EPL Gc); and
- "[vc]": artificial ventilation (for EPL [Gc], unclassified areas with internal source of release)

When artificial ventilation with a separate certificate is marked for installation only in a non-hazardous area, the "AEx marking" shall be "[AEx vc]".

NOTE 1 Marking "[AEx vc]" does not appear in UL 60079-0, Ed. 7 or prior editions.

NOTE 2 Marking "[AEx vc]" does not appear in the 2020 National Electrical Code (NEC)®, NFPA 70, or prior editions.

#### Examples of AEx marking

- Rooms located in an area requiring EPL Gb without an internal source of release:  
Zone 1 AEx pb IIC T4 Gb
- Rooms located in an area requiring EPL Gb with an internal source of release:  
Zone 1 AEx pb vc IIC T6 Gb
- Rooms located in an area requiring EPL Gc with an internal source of release:  
Zone 2 AEx pc vc IIA T3 Gc or AEx vc IIA T3 Gc
- Rooms located in an unclassified area with an internal source of release:  
[AEx vc IIC]

Where tTypes (or lLevels) of pProtection are used together, marking shall be as given in IEC UL 60079-0.

### 8.3 Marking for artificially ventilated rooms

8.3DV.1 DR Modification of Clause 8.3, fourth paragraph to replace with the following:

Where the position of a door is significant with respect to the ventilation performance, it shall be clearly marked on the inside and the outside with the position that is to be maintained, for example:

- For rooms located in a classified area

"WARNING – Ventilated room – Keep door closed."

- For rooms located in an unclassified area

"WARNING – Ventilated room due to flammable internal source of release – Keep door closed."

## UL 61800-5-1, Standard for Safety for Adjustable Speed Electrical Power Drive Systems – Part 5-1: Safety Requirements – Electrical, Thermal and Energy

### 4. VFD Output Conductor Protection

#### PROPOSAL

DVI.3.6.3 The high fault current values for which a CDM/BDM is able to be tested ~~are not required to be one of the same values detailed in Table 5.2.3.6.2.1DV.1~~ shall be the same value according to the marking of 6.3.7DV.2.1.1.

DVI.3.7.3 The high fault current values for which a CDM/BDM is able to be tested ~~are not required to be one of the same values detailed in Table 5.2.3.6.2.1DV.1~~ shall be the same value according to the marking of 6.3.7DV.2.1.1.

DVI.3.8.3 The high fault current values for which a CDM/BDM is able to be tested ~~are not required to be one of the same values detailed in Table 5.2.3.6.2.1DV.1~~ shall be the same value according to the marking of 6.3.7DV.2.1.1.

DVI.3.9.3 The high fault current values for which a CDM/BDM is able to be tested ~~are not required to be one of the same values detailed in Table 5.2.3.6.2.1DV.1~~ shall be the same value according to the marking of 6.3.7DV.2.1.1.

DVJ.1.1.1 Motor conductor protection circuitry that utilizes firmware or software that has been evaluated to any of the following Standards shall be considered to meet the requirements of this section.

- a) The Standard for Functional Safety Requirements in Adjustable Speed Electrical Power Drive Systems, UL 61800-5-2, SIL 2; or
- b) The Standard for Software in Programmable Components, UL 1998.

DVK.1.1.1 Motor conductor protection circuitry that has been evaluated to any of the following Standards shall be considered to meet the requirements of this section.

- a) The Standard for Functional Safety Requirements in Adjustable Speed Electrical Power Drive Systems, UL 61800-5-2, SIL 2; or
- b) The Standard for Adjustable speed electrical power drive systems – Part 3: EMC requirements and specific test methods, IEC 61800-3.

## BSR/UL 2800-1, Standard for Medical Device Interoperability

### 1. The proposed second edition of the Standard for Medical Device Interoperability, AAMI/UL 2800-1

#### PROPOSAL

1.3 Each stakeholder will need to determine the manner in which interoperability will be specified and assured for its INTEROPERABLE MEDICAL PRODUCTS. However, a specific system may be developed, assembled, deployed, and operated through a range of processes undertaken by multiple stakeholders. Specific activities in these processes assure interoperability. In order for stakeholders to collectively accomplish this, the processes need to be linked effectively.

4.85 POTENTIALLY HAZARDOUS CONDITION – Conditions on the state of an INTEROPERABLE ITEM that may lead to a violation of the INTEROPERABLE ITEMS INTEROPERABILITY SPECIFICATION and/or indirectly to PATIENT harm.

NOTE 1: The term POTENTIALLY HAZARDOUS CONDITION generalizes the notion of fault or root cause to address the fact that an INTEROPERABLE ITEM may not know the potential PATIENT harms associated with INTEROPERABLE MEDICAL SYSTEMS into which it is integrated. In such cases, the OBJECTIVES of INTEROPERABLE ITEM development center around (a) developing technical specifications (captured in the INTEROPERABLE ITEM INTEROPERABILITY SPECIFICATION) that are appropriate for the INTENDED USE of the INTEROPERABLE ITEM and (b) mitigating POTENTIALLY HAZARDOUS CONDITIONS that could lead to violations of the technical specification.

NOTE 2: A POTENTIALLY HAZARDOUS CONDITION may represent a precondition for a RISK CONCERN.

6.3.2.1 Information disclosed to stakeholders in the INTEROPERABILITY ECOSYSTEM shall include, as appropriate, information about the PRODUCT required by the stakeholder for:

- a) Correct use of the INTEROPERABLE MEDICAL PRODUCT for a specified application within the INTEROPERABILITY ECOSYSTEM (see 13.2.1);
- b) Technical integration of the INTEROPERABLE MEDICAL PRODUCT into other products or systems within the INTEROPERABILITY ECOSYSTEM;
- c) Performance of integration testing of the INTEROPERABLE MEDICAL PRODUCT when integrated into other products or systems within the INTEROPERABILITY ECOSYSTEM;
- d) Performance of provisioning and installation of the INTEROPERABLE MEDICAL PRODUCT when integrated into other products or systems within the INTEROPERABILITY ECOSYSTEM;
- e) Operating and maintenance activities related to the INTEROPERABLE MEDICAL PRODUCT when integrated into other products or systems within the INTEROPERABILITY ECOSYSTEM; and
- f) Decommissioning and disposal activities, including deprovisioning and removing from service, related to the INTEROPERABLE MEDICAL PRODUCT within the INTEROPERABILITY ECOSYSTEM.

6.3.2.2 Information disclosed to a provider of EXTERNALLY SOURCED PRODUCT (see Section 10, Interoperability of Externally Sourced Products) shall include applicable information required by the ORGANIZATION for:

- a) Determining INTEROPERABLE USE SPECIFICATIONS (see 9.2) relevant to the correct use of the EXTERNALLY SOURCED PRODUCT when integrated into the INTEROPERABLE MEDICAL PRODUCT or used with the INTEROPERABLE MEDICAL PRODUCT;
- b) Technical integration of the EXTERNALLY SOURCED PRODUCT into the INTEROPERABLE MEDICAL PRODUCT;

- c) Integration testing of the EXTERNALLY SOURCED PRODUCT when integrated into the INTEROPERABLE MEDICAL PRODUCT;
- d) Provisioning and installation of the EXTERNALLY SOURCED PRODUCT when integrated into the INTEROPERABLE MEDICAL PRODUCT;
- e) Operating and maintenance activities related to the EXTERNALLY SOURCED PRODUCT when integrated into the INTEROPERABLE MEDICAL PRODUCT or used with the INTEROPERABLE MEDICAL PRODUCT; and
- f) Decommissioning and disposal activities, including deprovisioning and removing from service related to the EXTERNALLY SOURCED PRODUCT when integrated into the INTEROPERABLE MEDICAL PRODUCT or used with the INTEROPERABLE MEDICAL PRODUCT.

NOTE: See the Annex for Guidance on Disclosure of AAMI/UL 2800-1-2 for more information.

8.1.1 The ORGANIZATION shall plan the realization of interoperability for the INTEROPERABLE MEDICAL PRODUCT, including:

- a) Design, development, and implementation of interoperability for the INTEROPERABLE MEDICAL PRODUCT (see Section 9, Design, Development and Implementation of Interoperability);
- b) Control of EXTERNALLY SOURCED PRODUCTS (see Section 10, Interoperability of EXTERNALLY SOURCED PRODUCTS);
- c) Provisioning and deployment of the INTEROPERABLE MEDICAL PRODUCT within the INTEROPERABLE ENVIRONMENT (see Section 11, Provisioning, Deployment, and Operation);
- d) Testing for interoperability (see Section 12, Testing and Review);
- e) Release of interoperability for specified application (see Section 13, Traceability and Release);
- f) Monitoring and incident response during use of its INTEROPERABLE MEDICAL PRODUCT within the INTEROPERABLE ENVIRONMENT (see Section 14, Interoperability Performance Monitoring and Control of Changes);
- g) Improvement of INTEROPERABLE MEDICAL PRODUCT (see Section 15, Improvement of Processes);
- h) RISK MANAGEMENT (see 8.2); and
- i) Communication with stakeholders in the INTEROPERABILITY ECOSYSTEM, including DISCLOSURE (see 6.3).

NOTE: AAMI/UL 2800-1-2 and AAMI/UL 2800-1-3 contain more detailed descriptions of the steps in the interoperability realization process.

A2.2.1 INTEROPERABLE ITEM technical administration focuses on the technical administration of INTEROPERABLE ITEMS (possibly conforming to INTEROPERABILITY FRAMEWORKS) in their DEPLOYMENT CONTEXT OF USE. This includes the activities of:

- a) Incorporating INTEROPERABLE ITEMS into the DEPLOYMENT CONTEXT OF USE inventory management and carrying out activities related to device IDENTITY management;
- b) Configuring OPERATOR access policies, establishing an appropriate time base, etc. as indicated by the INTEROPERABLE ITEM MANUFACTURER's documentation of assumed EXTERNAL MEASURES;
- c) Performing MANUFACTURER supplied confirmation tests to ensure that INTEROPERABLE ITEM interoperability functions are performing to specification – this includes INTEROPERABLE ITEM assembly which is a sub-activity of INTEROPERABLE ITEM technical administration;

- d) Integrating INTEROPERABLE ITEMS with entities outside the scope of this Standard, including medical IT systems and the broader medical IT network;
- e) Monitoring and tracking of technical anomalies of deployed items, including providing and receiving quality management information from INTEROPERABLE ITEMS;
- f) Performing maintenance on INTEROPERABLE ITEMS including apply software updates; and
- g) Decommissioning, including deprovisioning and removing from service, of INTEROPERABLE ITEMS.

C2.3 Common processes within an HDO shall include the following:

a) Determination of Need/Clinical Analysis

- 1) What clinical application is needed?
- 2) What resources are needed to satisfy that clinical application?
- 3) What training is needed to setup and operate the system?

b) Acquisition and Inventory Control

- 1) What procedures must an HDO have in place to ensure that only components that are appropriate for supporting SAFETY/SECURITY are acquired and used to form INTEROPERABLE MEDICAL SYSTEMS?
- 2) Is there a difference between the acquisition of an INTEROPERABLE MEDICAL PRODUCT and any other device?
- 3) What artifacts would be used as predicates?
- 4) Device Inventory (exists);
- 5) User Inventory;
- 6) External Interface Policy;
  - i) External Interface Systems Lists;
  - ii) External Interface Configuration Specification; and
  - iii) External Interface Mapping Policy.
- 7) System Downtime Procedure Policy;
- 8) SECURITY Policy Worksheet;
- 9) Adding Users Policy;
- 10) Adding Devices Policy;
- 11) Data Management Policy;
- 12) Key Personnel Policy;
- 13) Installation Schedule;
- 14) Hardware Inventory Policy;
- 15) Network Configuration Policy;
- 16) Training Policy;
- 17) Project Plan/Timeline Policy;
- 18) Application Configuration Policy;

- 19) Platform Configuration Policy;
- 20) Platform Software Update Policy;
- 21) System Downtime Procedure Worksheet;
- 22) Security Policy;
- 23) Adding Users Policy;
- 24) Adding Devices Policy;
- 25) Data Management Policy;
- 26) Post Installation Process Policy;
- 27) System Change Requests;
- 28) Preventative Maintenance; and
- 29) Key is changes to any piece of system impacts other parts of system.

c) Provisioning of the Integrated Clinical System / Components (pertains to configuration of the components and systems for the care-giving ORGANIZATION)

- 1) Are there unique steps related to interoperability (or use of platform components) regarding provisioning of components and systems (configuring them for use within the specific caregiving ORGANIZATION) that need to be constrained by requirements (e.g., This standard would include requirements for MANUFACTURERS to document specific aspects related to the provisioning of their interoperable components/systems)?
- 2) What steps are required to ensure proper interfacing between the integrated clinical system and IT systems external to the integrated clinical system?
- 3) What steps are required to ensure the SECURITY of PROTECTED HEALTH INFORMATION (PHI)?

d) Patient Care Definition Phase (pertains to the configuration of the components and systems for a particular PATIENT / treatment)

- 1) Calling out concepts related to physician order authoring, transfer of related order information to inputs to the integrated system, execution of orders, etc. "Go live" gating conditions for care-giving for a PATIENT.
- 2) Methods to ensure that all components are in communication with the system controller?
- 3) When determining interoperability requirements, the following shall the considered:
  - i) The intended use of the system (clinical scenario);
  - ii) The physiologic monitoring capabilities needed;
  - iii) The therapy delivery device capability that are needed;
  - iv) The necessity for and the means to verify PATIENT orders;
  - v) The necessity for and the means for PATIENT IDENTITY VERIFICATION;
  - vi) The necessity for and the means to make a record of any orders received;
  - vii) The necessity for and the means to determine whether the resources are AVAILABLE to fulfil the PATIENT orders.

e) Operation of the System (pertains to the operation of the system for a particular PATIENT or order)

Requirements on how MANUFACTURERS document instructions for use and how they call out RISK CONTROLS that need to be enforced during the operation of the system The following two phases should be addressed.

1) Clinical modality setup phase – When determining interoperability requirements, the following shall be considered:

- i) Clinical modality self-test requirements; and
- ii) Clinical modality administration.

2) Clinical operation phase – When determining interoperability requirements, the following shall be considered:

- i) The theory of operation of the decision and control algorithms;
- ii) The structure/topology of the control loop; and
- iii) Safety and performance aspects of any interlock mechanisms.

f) "Take Down" of system for a particular PATIENT / order

- 1) Was there errors, adverse events or unsuccessful use of the system?
- 2) Was the PATIENT discharged from the platform?

g) Maintenance/Decommissioning (including deprovisioning and removing from service)

- 1) What steps are required to ensure the SECURITY of PROTECTED HEALTH INFORMATION (PHI)?
- 2) What steps are required to ensure that information from the discharged PATIENT is purged from the system?

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## **BSR/UL 2800-1-1, Standard for Risk Concerns for Interoperable Medical Products**

### **1. The proposed first edition of the Standard for Risk Concerns for Interoperable Medical Products, AAMI/UL 2800-1-1**

#### **PROPOSAL**

1.3 Each stakeholder will need to determine the manner in which interoperability will be specified and assured for its INTEROPERABLE MEDICAL PRODUCTS. However, a specific system may be developed, assembled, deployed, and operated through a range of processes undertaken by multiple stakeholders. Specific activities in these processes assure interoperability. In order for stakeholders to collectively accomplish this, the processes need to be linked effectively.

#### **5.2 Clinical data properties**

NOTE: See Annex C for candidate item requirements that support these objectives.

##### **5.2.1 Semantic interoperability**

5.2.1.1 The following INTEROPERABLE MEDICAL SYSTEM-level RISK CONCERNS shall be considered in INTEROPERABLE ITEM RISK MANAGEMENT:

- a) Data presented to the operator for use in care-giving has an unclear interpretation (with respect medical / caregiving needs of the patient) leading to potentially harming actions or instructions by the operator.
- b) Mechanisms (such as nomenclatures) used to provide a semantic interpretation of data are inappropriate for the intended use of the product, leading the operator to have unwarranted trust in the data or to find the information insufficient for care-giving objectives while in the middle of patient care activities.
- c) The semantic interpretation of data is ambiguous due to uses of inconsistent or conflicting nomenclature.

#### **Annex C (Informative) – Clinical Data Properties of Interoperable Medical Systems**

A2.2 In addition to the interoperability-related issues addressed here, OPERATOR interfaces provided by the INTEROPERABLE MEDICAL SYSTEM should consider the usability design principles described in IEC TR 62366-2:2016 and recommended or best clinical practices.

**BSR/UL 2800-1-2, Standard for Interoperable Item Development Life Cycle****1. The proposed first edition of the Standard for Interoperable Item Development Life Cycle, AAMI/UL 2800-1-2****PROPOSAL**

1.3 Each stakeholder will need to determine the manner in which interoperability will be specified and assured for its INTEROPERABLE MEDICAL PRODUCTS. However, a specific system may be developed, assembled, deployed, and operated through a range of processes undertaken by multiple stakeholders. Specific activities in these processes assure interoperability. In order for stakeholders to collectively accomplish this, the processes need to be linked effectively.

5.2.2.2 The INTEROPERABLE ITEM requirements shall be specified in accordance with the INTEROPERABLE ITEM'S use specification. The guidance in the Annex for Clinical Data Properties of Interoperable Medical Systems of AAMI/UL 2800-1-1 relevant to the INTEROPERABLE ITEM SSOs should be considered.

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**BSR/UL 2800-1-3, Standard for Interoperable Item Integration Life Cycle****1. The proposed first edition of the Standard for Interoperable Item Integration Life Cycle, AAMI/UL 2800-1-3****PROPOSAL**

1.3 Each stakeholder will need to determine the manner in which interoperability will be specified and assured for its INTEROPERABLE MEDICAL PRODUCTS. However, a specific system may be developed, assembled, deployed, and operated through a range of processes undertaken by multiple stakeholders. Specific activities in these processes assure interoperability. In order for stakeholders to collectively accomplish this, the processes need to be linked effectively.

5.2.2.1 The interoperability requirements in the ITEM INTEROPERABILITY SPECIFICATION shall be decomposed into integration requirements on the CONSTITUENT INTEROPERABLE ITEMS within the internal INTEROPERABILITY ARCHITECTURE. The resulting requirements shall be phrased as constraints on the anticipated specifications and INTEROPERABILITY INTERFACES of the CONSTITUENT INTEROPERABLE ITEMS as appropriate.

NOTE: For CONSTITUENT INTEROPERABLE ITEM integration requirements, see:

1) Guidance from the Annex for Clinical Data Properties of Interoperable Medical Systems of AAMI/UL 2800-1-1 and 2) Technical and functional safety guidance in the Annex for Engineering Properties of Interoperable Medical Systems of AAMI/UL 2800-1-1.

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## UL 96, Standard for Safety for Lightning Protection Components

### PROPOSAL

5.8 LIGHTNING COMPONENT ACCESSORY – Fittings such as an air terminal base, bushing, post, cable support, cable clip, clamps, anchors, flanges, mounting hardware or mounting hardware assemblies intended to be used with lightning conductors, air terminals or connector fittings.

### ACCESSORIES (FITTINGS)

#### 28A Lightning Component Accessories (Fittings)

28A.1 Nonmetal lightning component accessories, e.g. EPDM, plastic or other non-metallic components, shall be UV resistant.

28A.2 A ferrous metal lightning component accessory shall be protected by a zinc coating at least 0.025 mm (0.001 in) thick.

*Exception: This requirement does not apply if the metal is inherently resistant to corrosion such as nonferrous or stainless steel.*

28A.3 An air terminal accessory intended to carry the lightning discharge shall be:

- a) Aluminum alloys; minimum aluminum content of 90%;
- b) Brass alloys; minimum copper content of 60%;
- c) Copper alloys other than brass; minimum copper content of 80%;
- d) Stainless Steel of minimum 18-8 grade (Chromium & Nickel content) with acceptable alloys being 302, 303, 304, and 316.

28A.4 An air terminal accessory intended to carry the lightning discharge shall maintain thickness:

- a) Not less than the applicable value specified in Table 8.1, or
- b) If the device is constructed of stainless steel:
  - 1) The minimum thickness shall not be less than 3.2 mm (0.126 in); and
  - 2) A threaded hub provided for the attachment of the air terminal shall have at least five full threads and, if internally threaded, shall have a wall thickness of not less than 3.2 mm (0.126 in) measured at the base of the threads; and
  - 3) The thickness shall not be less than 7.9 mm (5/16 in.) for bosses for screw threads.

28A.5 Threaded or unthreaded rod/s used in accessory/fitting assemblies shall have a minimum cross-sectional area of:

a) 71 mm<sup>2</sup> (0.110 in<sup>2</sup>) for copper or copper alloys, or

b) 126 mm<sup>2</sup> (0.196 in<sup>2</sup>) for aluminum.

The minimum cross-sectional area is to be determined by measurements taken at various points along the axis of the rod for a distance not to exceed 50 percent of the total length of the rod measured from the threaded or base end and exclusive of the threaded portion or adapter if tubular.

28A.6 Stainless steel threaded or unthreaded rod/s used in accessory/fitting assemblies shall be of a minimum diameter of 12.7 mm (0.5 in).

The minimum diameter is to be determined by measurements taken at various points along the axis of the rod for a distance not to exceed 50 percent of the total length of the rod measured from the threaded or base end and exclusive of the threaded portion or adapter if tubular.

### **29A Stability Test of Air Terminal Accessories**

29A.1 An air terminal accessory (fitting) used for mounting an air terminal to a structure (e.g. post, flange, clamp, etc.) shall withstand a force of 890 N (200 lbf) applied for 5 min as described in 29A.2 without damage to the mounting surface. Damage is considered to be breakage and/or visible damage to the mounting surface when examined under normal or corrected to normal vision.

29A.2 An air terminal accessory with an air terminal installed shall be secured to the intended mounting surface per the manufacturer's installation instructions. The force shall be applied in a normal direction to the air terminal at the tip of the air terminal farthest from the point of securement to the mounting surface, in a manner intended that would result in the most severe stresses being placed upon the assembly (air terminal and mounting surface).

### **29B Coating Thickness for Air Terminal Accessories**

29B.1 The thickness of a protective coating on a ferrous accessory shall be determined by a reliable nondestructive method e.g. electronic or magnetic method.

## **30 Installation Instructions**

30.1 Installation Instructions shall be provided for lightning protection components that require assembly.

Exception: Installation instructions may be provided via a manufacturer's web site. The web address shall be marked on the device, packaging and/or information sheet. The web address may be in the form of a Uniform Resource Locator (URL - <http://www. .com/ />), or as a Quick Response Code (QRcode). The web address link shall take the user to an internet page containing the required information or a direct link to the required information. The file shall be a file format that is commonly used and may be downloadable. This does not apply to markings that are specified to be located on the device or the packaging/container only (not a stuffer sheet) but this information may be repeated on the web site.

30.2 Installation instructions shall be provided for lightning protection component accessories.

Exception: Installation instructions may be provided via a manufacturer's web site. The web address shall be marked on the device, packaging and/or information sheet. The web address may be in the form of a Uniform Resource Locator (URL - <http://www. .com/ />), or as a

Quick Response Code (QRcode). The web address link shall take the user to an internet page containing the required information or a direct link to the required information. The file shall be a file format that is commonly used and may be downloadable. This does not apply to markings that are specified to be located on the device or the packaging/container only (not a stuffer sheet) but this information may be repeated on the web site.

## MARKINGS

### 31 General

31.1 Lightning protection components and accessories shall be marked, where it will be plainly visible after installation, with the manufacturer's name, trademark, or other descriptive marking by which the organization responsible for the product is identified.

*Exception No. 1: Clips, ~~and~~ fasteners, and accessories may be provided with markings on the smallest unit packaging.*

*Exception No. 2: Markings may be provided via a manufacturer's web site. The web address shall be marked on the device, packaging and/or information sheet. The web address may be in the form of a Uniform Resource Locator (URL - http://www. .com/ /), or as a Quick Response Code (QRcode). The web address link shall take the user to an internet page containing the required information or a direct link to the required information. The file shall be a file format that is commonly used and may be downloadable. This does not apply to markings that are specified to be located on the device or the packaging/container only (not a stuffer sheet) but this information may be repeated on the web site.*

31.4 Lightning protection component accessories intended only for use with a specific Class of component shall be marked, where it will be plainly visible after installation, "For Use Only With CLASS " " " ("I", "II" or "III" as appropriate) Components" or equivalent.

*Exception: Markings may be provided via a manufacturer's web site. The web address shall be marked on the device, packaging and/or information sheet. The web address may be in the form of a Uniform Resource Locator (URL - http://www. .com/ /), or as a Quick Response Code (QRcode). The web address link shall take the user to an internet page containing the required information or a direct link to the required information. The file shall be a file format that is commonly used and may be downloadable. This does not apply to markings that are specified to be located on the device or the packaging/container only (not a stuffer sheet) but this information may be repeated on the web site.*

31.5 Air Terminal Accessories intended to secure an air terminal to a structure shall be marked, where it will be plainly visible after installation, "For Use Only With Air Terminals " " "mm" (" in.") in diameter having a total length of " " "mm" (" in.") or equivalent.

*Exception: Markings may be provided via a manufacturer's web site. The web address shall be marked on the device, packaging and/or information sheet. The web address may be in the form of a Uniform Resource Locator (URL - http://www. .com/ /), or as a Quick Response Code (QRcode). The web address link shall take the user to an internet page containing the required information or a direct link to the required information. The file shall be a file format that is commonly used and may be downloadable. This does not apply to markings that are specified to be located on the device or the packaging/container only (not a stuffer sheet) but this information may be repeated on the web site.*

## UL 347A, Standard for Safety for Medium Voltage Power Conversion Equipment

### PROPOSAL

35.2.2 When tested in accordance with 35.2.3 – 35.2.15, a controller shall comply with the following:

- a) The equipment shall successfully open the circuit. This may be by operation of a solid state short circuit protection circuitry that is subjected to the requirements in 53.1, or by an overcurrent protective device such as a motor circuit fuse or the like;
- b) The controller shall be in substantially the same mechanical condition as at the beginning of the test, other than the opening of medium-voltage motor circuit fuses;
- c) The cotton indicator described in 35.2.16 shall not ignite;
- d) ~~If a fuse is used~~ The ground conductor as described in 39.1.2, ~~the fuse~~ shall not have opened;
- ~~e) If as fuse as specified in 39.1.2 is not used, the ground current measured in accordance with 39.1.3 shall not have exceeded 30 A;~~
- f) Components containing oil shall not rupture so as to permit loss of oil;
- g) The door or cover shall not be blown open during the test, and it shall be possible to open the door or cover in the intended manner at the conclusion of the test;
- h) The isolating means of a controller shall be capable of being opened in its intended manner at the conclusion of the test;
- i) There shall be no breakage of insulating bases to the extent that the integrity of the mounting of live parts is impaired;
- j) Neither end of a motor circuit fuse shall be completely ejected from the mounting means, and no line end of a motor circuit fuse shall bridge from its mounting means to dead metal; and
- k) If after a visual examination, there is any doubt as to the ability of the controller to carry rated current continuously, the controller shall comply with the requirements of the Temperature Test, Section 32, except that the total allowable temperature rise may be increased 10°C. For the purposes of this test, thermocouple need only be placed on current carrying parts in the vicinity of the contact structure.

35.2.14 The equipment structure shall be grounded in accordance with 39.1.2 ~~and 39.1.3~~.

41.7 The outer enclosure and any grounded or exposed dead metal parts are to be grounded in accordance with 39.1.2 ~~and 39.1.3~~.

41.9 In lieu of conducting the breakdown of component test on a complete controller system, the testing may be conducted on a portion of the system, when all of the following conditions are met:

- a) The portion of the system under test is supplied from a source that provides the same voltage, current, and available short circuit power as that portion would be connected to in the complete assembly. A circuit with less available short circuit power may be used when an engineering analysis demonstrates that use of a circuit having lower available fault currents will not affect the results of the test. See 41.5 for requirements of this analysis;
- b) The portion of the system under test is surrounded by a wire mesh that is grounded in accordance with 39.1.2 ~~and 39.1.3~~. The distance between the wire mesh and the circuit under test shall be no greater than the distance between the circuit and grounded metal parts in the complete assembly;
- c) There is no indication during the test that the fault could have cascaded into another portion of the complete controller system that was not part of the test; and
- d) Cotton indicators in accordance with 41.6 are to be loosely draped over the wire mesh. At the manufacturer's option, the cotton indicators may be omitted under the conditions described in 41.6.

41.10 At the conclusion of the tests in 41.2 through 41.9, the equipment shall comply with all of the following:

- a) ~~If a fuse is used as specified~~ The ground conductor as described in 39.1.2, ~~the fuse~~ shall not have opened;
- b) ~~If a fuse as specified in 39.1.2 is not used, the ground current measured in accordance with 39.1.3 shall not have exceeded 30 A.~~
- c) If used, the cotton specified in 41.6 or 41.9 shall not glow or flame; and
- d) If cotton is not used, there shall be no visible flame, smoke, or arc emitted during the test, and visual examination of the controller shall reveal no evidence of any arcing byproducts within the controller;
- e) The door or cover shall not have blown open when tested in an enclosure. When tested in accordance with 41.9, there shall be no evidence of component rupturing that is indicative of a possible pressure wave.



## BSR/UL 414, Standard for Meter Sockets

### 1. Meter Socket Adapters for use with Distributed Generation Equipment

#### PROPOSAL

SB5.5 Other than as noted in SB 5.7, if the meter socket adapter includes fuses, they shall be provided with extraction type fuseholders that allow replacement of the fuses without removing the electric meter from the meter socket adapter or removing the meter socket adapter from the meter socket. The fuseholder shall be of a design that captivates all parts of the fuseholder during and after fuse replacement. No energized portions of a fuse or of the meter socket adapter shall be accessible while replacing a fuse, including with the fuseholder in the open position with no fuse installed.

SB5.7 Under the following conditions, extraction type fuseholders are not required:

- a) The fuses are not part of the main supply circuit;
- b) The fuse(s) are located in a circuit that does not involve a fire or shock hazard as described in SB5.8;
- c) Opening of the fuse(s) does not cause any safety circuitry to become ineffective; and
- d) Replacement of the fuse does not expose the user to any energized portions of the meter socket adapter other than those that do not involve a fire or shock hazard as described in SB5.8.

SB5.8 With respect to SB5.7, a circuit does not involve a fire or shock when it involves a potential of no more than 42.4 peak, and is supplied by one of the following:

- a) An energy limiting Class 2 transformer complying with the requirements of the Standard for Low Voltage Transformers - Part 3: Class 2 and Class 3 Transformers, UL 5085-3;
- b) A Class 2 power supply complying with the Standard for Class 2 Power Units, UL 1310;
- c) A combination of an isolated transformer secondary winding and a fixed impedance complying with the requirements of UL 1310; or
- d) A dry cell battery having output characteristics not greater than those of a Class 2 power unit.

SB13.6.4 At the conclusion of the test, the meter socket adapter shall be subjected to the Dielectric Voltage-Withstand Test, Section 20, except the test voltage shall be twice the rated voltage of the assembly but not less than 900 V. The overcurrent protective device shall be in the closed position during the dielectric withstand test. Components connected between phases or from phase to ground, such as filter capacitors, surge

protection devices, and transformer windings may be disconnected at one end during the Dielectric Voltage-Withstand Test.

SB13.7.1 All meter socket adapters having connections for external circuits (other than circuits supplied through the load terminals of the associated meter socket adapter (circuits which are located on the load side of the associated meter socket), and having no overcurrent protection within the adapter for those circuits, shall be subjected to a short circuit withstand test in accordance with SB13.7.2 through SB13.7.4, and shall comply with SB13.9, Compliance, at the conclusion of the testing.

SB13.7.4 At the conclusion of the test, the meter socket adapter shall be subjected to the Dielectric Voltage-Withstand Test, Section 20, except the test voltage shall be twice the rated voltage of the assembly but not less than 900 V. The overcurrent protective device shall be in the closed position during the dielectric withstand test. Components connected between phases or from phase to ground, such as filter capacitors, surge protection devices, and transformer windings may be disconnected at one end during the Dielectric Voltage-Withstand Test.

SB13.8.5 At the conclusion of each test, the meter socket adapter shall be subjected to the Dielectric Voltage-Withstand Test, Section 20, except the test voltage shall be twice the rated voltage of the assembly but not less than 900 V. Any overcurrent protective device within the meter socket adapter shall be in the closed position for this test. Components connected between phases or from phase to ground, such as filter capacitors, surge protection devices, and transformer windings may be disconnected at one end during the Dielectric Voltage-Withstand Test.

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## BSR/UL 998, Standard for Standard for Safety for Humidifiers

### 1. Proposed Revision To Replace UL 60950-1 and CSA C22.2 No. 60950-1 with UL 62368-1 and CSA C22.2 No. 62368-1.

#### PROPOSAL

*Note from the STP Project Manager: Only the proposed changes to the referenced publication list have been included for ease of review. The remainder of the referenced publication list is unchanged.*

3.2.1 Where reference is made to any Standards, such reference shall be considered to refer to the latest editions and revisions thereto available at the time of printing, unless otherwise specified.

#### CSA Group

CSA C22.2 No. 62368-1: 19

Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements

#### UL (Underwriters Laboratories Inc.)

UL 62368-1

Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements

SA2.1.4 With respect to SA2.1.1, a communication device that is not integral with the appliance control (e. g., on a separate printed wiring board) and complying with UL 60950-1, ~~or~~ CAN/CSA-C22.2 No. 60950-1, UL 62368-1, or CSA C22.2 No. 62368-1 is considered to fulfill this requirement.

SA2.3.1 An external communication or display device, such as a router or monitor, provided as an accessory for use with the appliance, shall comply with UL 60950-1, ~~or~~ CAN/CSA-C22.2 No. 60950-1, UL 62368-1, or CSA C22.2 No. 62368-1.

SA2.3.2 The power supply cord of an external communication or display device shall comply with this Standard or UL 60950-1, ~~or~~ CAN/CSA-C22.2 No. 60950-1, UL 62368-1, or CSA C22.2 No. 62368-1, except that Types NISP-2, NISPE-2, and NISPT-2 are not permitted.

SA2.4.1 External communication conductors and cables shall comply with UL 60950-1, ~~or~~ CAN/CSA-C22.2 No. 60950-1, UL 62368-1, or CSA C22.2 No. 62368-1.

SA2.5.1 Communication connectors and data ports accessible to the user and service personnel shall comply with UL 60950-1, ~~or~~ CAN/CSA-C22.2 No. 60950-1, UL 62368-1, or CSA C22.2 No. 62368-1. Otherwise, communication connectors and data ports shall be evaluated in accordance with this Standard.

SA5.1 Accessory devices shall be marked with the manufacturer's name (or symbol), a part or catalog number, and electrical ratings. Literature packaged with the accessory shall identify the appliance(s) for which it is intended to be used. Additional literature or markings shall be required, as applicable, when applying requirements from the following standards:

- a) UL 60730-1 and CAN/CSA-E60730-1; and/or
- b) UL 60950-1 or CAN/CSA-C22.2 No. 60950-1; or
- c) UL 62368-1 or CSA C22.2 No. 62368-1.

## BSR/UL 1242, Standard for Electrical Intermediate Metal Conduit - Steel

### 1. Reference to Table of Minimum acceptable dimensions of elbows

#### PROPOSAL

14.1.1 The protective coating used on the interior or exterior of the conduit shall not crack or flake, as visible using normal or corrected to normal vision, when a finished specimen of the smallest available trade size produced by the manufacturer is tested, at any time up to one year after the time of manufacture. The specimen shall be bent into a semicircle, the center line of which has a radius as described in the Standard for Electrical Rigid Metal Conduit – Steel UL 6, CSA C22.2 No. 45.1, or NMX-J-534-ANCE, Table 5.5 [Table 11.1](#).

14.2.1 One specimen of the smallest available trade size of finished conduit shall be capable of being bent into a quarter of a circle around a mandrel after being conditioned at a temperature of 0°C (32°F) for 60 minutes. The tube shall not develop a crack and a weld shall not open. The coating shall not be damaged to the extent that bare metal is exposed or the coating separates from the metal. The radius of the conduit shall be as specified in the Standard for Electrical Rigid Metal Conduit – Steel UL 6, CSA C22.2 No. 45.1, or NMX-J-534-ANCE, Table 5.5. [Table 11.1](#). The test is to be conducted inside the cold chamber or started within 15 seconds after removal from the cold chamber.

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