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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.

## API (American Petroleum Institute)

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

Contact: Benjamin Coco; [cocob@api.org](mailto:cocob@api.org)

### **National Adoption**

BSR/API SPEC 5CRA-202x, Corrosion-Resistant Alloy Seamless Products for Use as Casing, Tubing, Coupling Stock, and Accessory Material (national adoption of ISO 13680:2020 with modifications and revision of ANSI API SPEC 5CRA/ISO 13680:2010 (R2020))

Stakeholders: Oil and natural gas operating companies.

Project Need: Adopt the new edition of the current ANS national adoption, which will come to supersede its previous edition, to avoid misalignment between the standards and provide users with updated information so better quality products may be procured.

Scope: This document specifies the technical delivery conditions for corrosion-resistant alloy seamless products for casing, tubing, and coupling stock and accessory material (including coupling stock and accessory material from bar) for two product specification levels: PSL-1 which is the basis of this standard, and PSL-2 which provides additional requirements for a product that is intended to be both corrosion resistant and cracking resistant for the environments and qualification method specified in Annex G and in the ISO 15156 series.

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

2950 Niles Road, Saint Joseph, MI 49085 <https://www.asabe.org/>

Contact: Carla VanGilder; [vangilder@asabe.org](mailto:vangilder@asabe.org)

### **Revision**

BSR/ASAE S354.8 MONYEAR-202x, Safety for Farmstead Equipment (revision and redesignation of ANSI/ASAE S354.7-SEP2018)

Stakeholders: Operators and manufacturers of farmstead equipment, excluding agricultural field equipment.

Project Need: Update references, aligned guarding requirements with S318 and add a definition for ensiled material.

Scope: This standard is a guide to provide a reasonable degree of personal safety for operators and other persons during normal operation and servicing of farmstead equipment. This standard applies to powered farmstead equipment as defined in paragraph 3.1. This standard does not apply to agricultural field equipment nor to self-propelled mobile equipment such as motor vehicles, all-terrain vehicles, and skid-steer loaders.

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

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

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

**Revision**

BSR/ASSP A10.24-202X, Roofing Safety Requirements for Low-Sloped Roofs (revision and redesignation of ANSI/ASSE A10.24-2014)

Stakeholders: Construction and demolition organizations and stakeholders.

Project Need: Based upon the consensus of the ANSI/ASSP A10 ASC and the leadership of ASSP.

Scope: This standard establishes safe operating practices for the installation, maintenance, and removal of all roofing systems on low-sloped roofs, which means the roof has a slope that is less than or equal to 4 in 12 (18°).

**AWS (American Welding Society)**

8669 NW 36th Street, Miami, FL 33166-6672 [www.aws.org](http://www.aws.org)

Contact: Rakesh Gupta; [gupta@aws.org](mailto:gupta@aws.org)

**New Standard**

BSR/AWS A5.3/A5.3M-202x, Specification for Aluminum and Aluminum-Alloy Electrodes for Shielded Metal Arc Welding (new standard)

Stakeholders: Welding industry dealing with aluminum filler metals.

Project Need: Updating per latest AWS practices.

Scope: This specification prescribes requirements for the classification of covered (flux-coated) E1100, E3003, and E4043 aluminum-alloy electrodes for shielded metal arc welding. Tests conducted for classification are chemical analysis of the core wire as well as tensile and bend tests from groove weld test assemblies fabricated with each of two sizes of electrode for each classification. Standard electrode sizes, electrode identification, and chemical composition limits are specified. This specification makes use of both U.S. Customary Units and the International System of Units (SI). Since these are not equivalent, each system must be used independently of the other.

**AWS (American Welding Society)**

8669 NW 36th Street, Miami, FL 33166-6672 [www.aws.org](http://www.aws.org)

Contact: Rakesh Gupta; [gupta@aws.org](mailto:gupta@aws.org)

**Revision**

BSR/AWS A5.22/A5.22M-202x, Specification for Stainless Steel Flux Cored and Metal Cored Welding Electrodes and Rods (revision of ANSI/AWS A5.22/A5.22M-2012)

Stakeholders: Welding professionals dealing with stainless-steel flux-cored and metal-cored electrodes and rods.

Project Need: Updating to current AWS practices.

Scope: Classification and other requirements are specified for numerous grades of flux-cored and metal-cored stainless steel electrodes and rods. Designations for the flux-cored electrodes and rods indicate the chemical composition of the weld metal, the position of welding, and the external shielding gas required (for those classifications for which one is required). Designations for the metal-cored electrodes indicate the chemical composition of the weld metal only. The requirements include general requirements, testing, and packaging. Annex A provides general application guidelines for individual alloys and other useful information about welding electrodes.

**AWS (American Welding Society)**

8669 NW 36th Street, Miami, FL 33166-6672 [www.aws.org](http://www.aws.org)

Contact: Stephen Borrero; [sborrero@aws.org](mailto:sborrero@aws.org)

**Revision**

BSR/AWS D.10/D10.10M-202x, Recommended Practice for Local Heating of Welds in Piping and Tubing (revision of ANSI/AWS D10.10/D10.10M-2021)

Stakeholders: Pipe and tube system manufacturers, fabricators, installers and those involved in repair activities.

Project Need: This recommended practice is intended to supply useful information to those with a need to apply heat to welds in piping and tubing under circumstances that do not permit placing the entire component in a furnace or oven.

Scope: This standard provides information on recommended practices, equipment, temperature control, insulation, and advantages and disadvantages for the methods presently available for local heat treating of welding joints in pipe and tubing.

**AWS (American Welding Society)**

8669 NW 36th Street, Miami, FL 33166-6672 [www.aws.org](http://www.aws.org)

Contact: Andrew Davis; [adavis@aws.org](mailto:adavis@aws.org)

**Revision**

BSR/AWS D10.22/D10.22M-202x, Specification for Local Heating of Welds in Creep Strength-Enhanced Ferritic Steels, in Piping and Tubing Using Electric Resistance Heating (revision of ANSI/AWS D10.22/D10.22M-2021)

Stakeholders: Welded product consumers and fabricators.

Project Need: Provide a set of standard requirements for heat treatment of specific group of steels.

Scope: This standard describes several methods of applying locally controlled heat to weld joints and a limited volume of base metal adjacent to the joints, as opposed to heating the whole weldment in a furnace or oven. This standard is written to apply to the local heating of Creep Strength Enhanced Steels (P-No. 15E) by the use of electric resistance heating pads.

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

8501 E. Pleasant Valley Road, Cleveland, OH 44131 [www.csagroup.org](http://www.csagroup.org)

Contact: David Zimmerman; [ansi.contact@csagroup.org](mailto:ansi.contact@csagroup.org)

**Revision**

BSR Z83.7-2017/CSA 2.14-202x, Gas-Fired Construction Heaters (same as CSA 2.14) (revision and redesignation of ANSI Z83.7-2017)

Stakeholders: Manufacturers/producers, consumers, regulators, installers and certification bodies.

Project Need: To update the current standard due to user experience/feedback/new technology.

Scope: This Standard applies to: (1) Newly produced, direct-fired and indirect-fired construction heaters, referred to in this standard as heaters or appliances, constructed entirely of new, unused parts and materials and primarily intended for temporary use in heating buildings or structures under construction, alteration, or repair. All the products of combustion generated by the direct-fired heater are released into the area being heated. Products of combustion for indirect-fired heaters are vented to the outdoors. The requirements of this Standard cover heaters with rated inputs up to and including 10,000,000 BTU/h (2930 kW). (2) Self-contained heaters with or without integral means for air circulation and may be intended for connection to ducts. If a heater is designed to be utilized with ductwork, the heater is to be tested with the ductwork recommended by the manufacturer or at the maximum static pressure specified by the manufacturer. (3) Direct ground thawing appliances for outdoor use where heat is directed into the ground. (4) Universal construction heaters intended for use with either natural or propane gases. (5) Heaters using (a) natural gas and (b) propane gas. This Standard does not apply to: (1) Heaters for use with liquid phase fuel gases, except where the heater is for use with liquid propane and incorporates an integral vaporizer that meets the requirements per Clause 7. Heaters for use with liquid propane shall meet the requirements for heaters for outdoor use per Clause 5.14. (2) Heaters employing a flameless catalytic combustion process or heaters for use with liquid phase fuel gases.

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

18927 Hickory Creek Drive, Mokena, IL 60448 [www.asse-plumbing.org](http://www.asse-plumbing.org)

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

**Revision**

BSR/ASSE 1044-202x, Performance Requirements for Trap Seal Primer - Drainage Types and Electric Design Types (revision of ANSI/ASSE 1044-2015 (R2020))

Stakeholders: Plumbing, construction.

Project Need: Update the standard with a focus on assembling and reconciling the requirements of ASSE 1044 and IAPMO PS 76, Trap Primers for Fill Valves and Flushometer Valves. The outcome is a single performance standard (ASSE 1044) for these types of product.

Scope: Trap seal primers are primarily designed to supply water to floor drain traps that have infrequent use and in which water evaporation would allow sewer gas to enter the premises. The trap seal primers covered by this standard are designed to supply water to a drain trap to provide and maintain its water seal by using a supply from a fixture drain line, ballcock, flushometer valve tailpiece or an electric trap seal primer. The rate of water flow to the trap shall be permitted to be fixed or adjustable.

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

445 Hoes Lane, Piscataway, NJ 08854 [www.ieee.org](http://www.ieee.org)

Contact: Jennifer Santulli; [J.Santulli@ieee.org](mailto:J.Santulli@ieee.org)

**Revision**

BSR C63.16-202x, Standard Guide for Electrostatic Discharge Test Methodologies and Criteria for Electronic Equipment (revision of ANSI C63.16-2016)

Stakeholders: Product users, manufacturers, EMC test laboratories and test technicians, EMC test equipment manufacturers, EMC laboratory accreditation bodies and assessors who may have to assess test plans that reference this guidance document.

Project Need: Modifications are needed in the Guide that are not contained in other work. It should reflect new contributions from recent experience in the field.

Scope: The document provides unique guidance on ESD test methods, test point selection, documentation, and reporting not readily available from other sources. Discussions on humidity, atmospheric pressure, simulator differences, bleed resistors, and approach speed are included.

**NEMA (ASC C18) (National Electrical Manufacturers Association)**

1300 North 17th Street, Arlington, VA 22209 [www.nema.org](http://www.nema.org)

Contact: Khaled Masri; [Khaled.Masri@nema.org](mailto:Khaled.Masri@nema.org)

**Revision**

BSR C18.3M, Part 2-202x, Portable Lithium Primary Cells and Batteries - Safety Standard (revision of ANSI C18.3M, Part 2-2021)

Stakeholders: Consumer electronics, manufacturers, testing labs.

Project Need: Update requirements for safety.

Scope: This standard specifies tests and requirements for portable primary lithium cells and batteries, both the chemical systems and the types covered in ANSI C18.3M, Part 1, to ensure their safe operation under normal use and reasonably foreseeable misuse.

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

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

Contact: Brian Marchionini; [Brian.Marchionini@nema.org](mailto:Brian.Marchionini@nema.org)

**New Standard**

BSR/NEMA ES 80008-202x, Battery Recyclability Standard (new standard)

Stakeholders: Manufacturers, utilities, end users, environmental groups.

Project Need: While many developers and users are gaining experience deploying and operating grid-connected energy storage systems (ESS), there is no standardized approach to manage end-of-life protocols. While stakeholders in the electric vehicle (EV) market are further down the path towards a solution, the sheer magnitude of EV batteries meeting their end-of-life in the next 20 years (and beyond) calls for a standardized end-of-life solution

Scope: Standard methodology to define the amount of recyclable material at the end of battery life (Recyclability Standard). Applicable to EV, residential, commercial and industrial, and utility scale batteries, the standard will establish the "recyclability" of any lithium battery in scope, resulting in threshold amounts of extractable metals from each cell and modules and plastics used throughout the module.

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

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

Contact: Kim Cooney; [kcooney@scte.org](mailto:kcooney@scte.org)

***New Standard***

BSR/SCTE IPS SP 920-202x, 1.8-GHz Broadband Radio Frequency Hardline Amplifiers for Cable Systems (new standard)

Stakeholders: Cable Telecommunications industry.

Project Need: Create new standard.

Scope: This document recommends mechanical, environmental, and electrical standards for broadband radio frequency (RF) amplifiers that support DOCSIS 4.0 FDD (Frequency Division Duplex) capabilities, with downstream operation at frequencies up to 1794 MHz and upstream operation at frequencies up to 684 MHz. Products covered by this document include the high-gain single and multiport amplifiers required to support drop-in upgrades at legacy amplifier locations, as well as the lower gain booster amplifiers that may be required between amplifier locations with very long spacings. The devices are intended for an outdoor rated environment. This document does not cover amplifiers with echo cancellation (required to support FDX), amplifiers used in nodes (commonly referred to as launch amplifiers), or other variations of low-gain amplifiers that may be required for a full Distributed Gain Amplifier (DGA) architecture.

# 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: August 22, 2021

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

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

#### Addenda

BSR/ASHRAE Addendum e to BSR/ASHRAE Standard 188-202x, Legionellosis: Risk Management for Building Water Systems (addenda to ANSI/ASHRAE Standard 188-2018)

This addendum adds a new Normative Annex B regarding minimum requirements when Legionella testing is chosen by the Program Team, and renames the current Informative Annex B, "Bibliography," to Informative Annex C, "Bibliography."

[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>

### NSF (NSF International)

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

#### Revision

BSR/NSF 14-202x (i117r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2020)

This Standard establishes minimum physical, performance, and health effects requirements for plastics piping system components and related materials. These criteria were established for the protection of public health and the environment.

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

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



## Comment Deadline: August 22, 2021

### NSF (NSF International)

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

#### Revision

BSR/NSF 49-202x (i168r1), 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](mailto:psa@ansi.org)) to: Allan Rose; [arose@nsf.org](mailto:arose@nsf.org)

### NSF (NSF International)

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

#### Revision

BSR/NSF 455-2-202x (i26r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2020)

This Standard is intended to define a standardized approach for auditing to determine the level of compliance of dietary supplement products to 21 CFR 111 Current Good Manufacturing Practices (GMPs) in Manufacturing, Packaging, Labeling, or Holding Operations for Dietary Supplements as well as incorporating additional retailer requirements. It refers to the requirements for GMP applicable to all dietary supplements. It will assist in the determination of adequate facilities and controls for dietary supplement manufacture with sufficient quality to ensure suitability for intended use.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Rachel Brooker; [rbrooker@nsf.org](mailto:rbrooker@nsf.org)

### NSF (NSF International)

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

#### Revision

BSR/NSF 455-3-202x (i33r1), Good Manufacturing Practices for Cosmetics (revision of ANSI/NSF 455-3-2019)

This Standard is intended to define a standardized approach for auditing to determine the level of compliance of cosmetic products to ISO 22716 Good Manufacturing Practices (GMPs) for cosmetics as well as incorporating additional retailer requirements. It refers to the requirements for GMPs applicable to all cosmetics. It will assist in the determination of adequate facilities and controls for cosmetic manufacture with sufficient quality to ensure suitability for intended use.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Rachel Brooker; [rbrooker@nsf.org](mailto:rbrooker@nsf.org)

## Comment Deadline: August 22, 2021

### NSF (NSF International)

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

#### Revision

BSR/NSF 455-4-202x (i39r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2020)

This Standard is intended to define a standardized approach for auditing to determine the level of compliance of over-the-counter (OTC) drug products to 21 CFR Part 210 Current Good Manufacturing Practice in Manufacturing, Processing, Packing, or Holding of Drugs; General and 21 CFR Part 211 Current Good Manufacturing Practice for Finished Pharmaceuticals, as well as incorporating additional retailer requirements. It refers to the requirements for good manufacturing practices (GMPs) applicable to all OTC drugs. It will assist in the determination of adequate facilities and controls for OTC drug manufacture with sufficient quality to ensure suitability for intended use.

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

Send comments (copy psa@ansi.org) to: Rachel Brooker; rbrooker@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 (i177r1), 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.

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

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

### NSF (NSF International)

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

#### Revision

BSR/NSF/CAN 61-202x (i159r1), Drinking Water System Components - Health Effects (revision of ANSI/NSF/CAN 61-2020)

This Standard is intended to cover specific materials or products that come into contact with: drinking water, drinking-water treatment chemicals, or both. The focus of the Standard is the evaluation of contaminants or impurities imparted indirectly to drinking water. The products and materials covered include, but are not limited to, process media (e.g., carbon, sand), protective materials (e.g., coatings, linings, liners), joining and sealing materials (e.g., solvent cements, welding materials, gaskets), pipes and related products (e.g., pipes, tanks, fittings), mechanical devices used in treatment/transmission/distribution systems (e.g., valves, chlorinators, separation membranes, point-of-entry (POE) drinking water treatment systems), and mechanical plumbing devices (e.g., faucets, endpoint control valves).

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

Send comments (copy psa@ansi.org) to: Monica Leslie; mleslie@nsf.org

## Comment Deadline: August 22, 2021

### UL (Underwriters Laboratories)

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

#### **Revision**

BSR/UL 746A-202x, Standard for Safety for Polymeric Materials - Short Term Property Evaluations (revision of ANSI/UL 746A-2021)

This proposal covers a revision of requirements for resistance of Polymeric Materials to Chemical Reagents in Section 39.

[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)

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

#### **Revision**

BSR/UL 817-202X, Standard for Safety for Cord Sets and Power-Supply Cords (revision of ANSI/UL 817-2021) Electric Vehicle (EV) Adapter Sets, New 5.13A, New Section Clause 10.17, and New Section 33.

[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 | [griff.edwards@ul.org](mailto:griff.edwards@ul.org), <https://ul.org/>

#### **Revision**

BSR/UL 2158A-202x, Standard for Clothes Dryer Transition Duct (revision of ANSI/UL 2158A-2013 (R2017)) (1) Status of test sample not clear in UL 2158A puncture test.

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

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

### UL (Underwriters Laboratories)

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

#### **Revision**

BSR/UL 8750-202x, Standard for Safety for Light Emitting Diode (LED) Equipment for Use In Lighting Products (revision of ANSI/UL 8750-2021)

(1) Add exception for transformers utilizing a thermoset varnish; (2) Revisions to Supplement SB-Type HL LED Drivers.

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

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

## Comment Deadline: September 6, 2021

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

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

#### **Addenda**

BSR/ASHRAE Addendum a to BSR/ASHRAE Standard 169-202x, Climatic Data for Building Design Standards (addenda to ANSI/ASHRAE Standard 169-2013)

This addendum adds new abbreviations and acronyms and completely revises and updates the data and tables.

Single copy price: \$35.00

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

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

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

#### **Revision**

BSR/ASME RTP-1-202x, Reinforced Thermoset Plastic Corrosion-Resistant Equipment (revision of ANSI/ASME RTP-1-2019)

This Standard applies to stationary vessels used for the storage, accumulation, or processing of corrosive or other substances at pressures not exceeding 15 psig external and/or 15 psig internal above any hydrostatic head.

Single copy price: Free

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Paul Stumpf; [stumpfp@asme.org](mailto:stumpfp@asme.org)

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

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

#### **Revision**

BSR/ASSP A10.38-202X, Basic Elements of an Employer's Program to Provide a Safe and Healthful Work Environment on Construction and Demolition Sites (revision and redesignation of ANSI/ASSE A10.38-2013)

This standard establishes the minimum elements of a program for protecting the safety and health of employees involved in construction and demolition activities.

Single copy price: \$100.00

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

Order from: Tim Fisher; [tfisher@assp.org](mailto:tfisher@assp.org)

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

## Comment Deadline: September 6, 2021

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

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

#### **Revision**

BSR/ASSP A10.47-202X, Work Zone Safety for Highway Construction (revision and redesignation of ANSI/ASSE A10.47-2015)

This standard covers employees engaged in construction, utility work, maintenance, or repair activities on any area of a highway.

Single copy price: \$100.00

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

Order from: Tim Fisher; [tfisher@assp.org](mailto:tfisher@assp.org)

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

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

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

#### **Revision**

BSR/ASSP A1264.2-202X, Reducing Slip Missteps on Walking-Working Surfaces (revision and redesignation of ANSI/ASSE A1264.2-2012)

This standard sets forth provisions for reducing the risk of slip missteps in workplace situations. These incidents may occur as a result of surface characteristics or conditions. This standard is intended for use. The purpose of this standard is to establish minimum provisions for reasonably safe underfoot surfaces for persons pursuing foreseeable activities.

Single copy price: \$110.00

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

Order from: Lauren Bauerschmidt; [LBauerschmidt@assp.org](mailto:LBauerschmidt@assp.org)

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

### **ASTM (ASTM International)**

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

#### **Revision**

BSR/ASTM D2624-202x, Test Methods for Electrical Conductivity of Aviation and Distillate Fuels (revision of ANSI/ASTM D2624-2015)

These test methods cover the determination of the electrical conductivity of aviation and distillate fuels with and without a static dissipator additive. The test methods normally give a measurement of the conductivity when the fuel is uncharged, that is, electrically at rest (known as the rest conductivity).

Single copy price: Free

Obtain an electronic copy from: [https://www.astm.org/ANSI\\_SA](https://www.astm.org/ANSI_SA)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [https://www.astm.org/ANSI\\_SA](https://www.astm.org/ANSI_SA)

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

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

#### **Revision**

BSR/AWS D15.2/D15.2M-202x, Specification for Joining Railroad Rail and Related Rail Components (revision of ANSI/AWS D15.2/D15.2M-2012)

This document specifies the minimum standards for the welding of rails and related rail components. Repair procedures for rails and austenitic manganese steel components are covered. Arc welding, thermitic welding, flash welding, and rail bonding variables are defined. Procedure qualification, welder performance qualification, and general welding safety procedures are addressed. Inspection methods and acceptance criteria are specified.

Single copy price: \$40.00

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

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Jennifer Rosario; [jrosario@aws.org](mailto:jrosario@aws.org)

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

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

#### **New Standard**

BSR/BHMA A156.44-202x, Standard for Hardware for Architectural Glass Openings (new standard)

This Standard establishes performance requirements for exit device hardware used on swinging architectural glass doors and includes operational, cycle, strength, and security tests. This standard serves as a supplement to related applicable BHMA standards and is meant to evaluate the product for the unique application of architectural glass openings. Acknowledging that products are commonly used in different applications, certifying to this standard may be in addition to other applicable BHMA standards.

Single copy price: \$36.00 (non-members); \$18.00 (BHMA members)

Obtain an electronic copy from: [MTierney@Kellencompany.com](mailto:MTierney@Kellencompany.com)

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

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

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

#### **Revision**

BSR/BHMA A156.6-202x, Standard for Architectural Door Trim (revision of ANSI/BHMA A156.6-2015)

This Standard contains requirements for door protection plates, door and wall edgings, push plates, door pulls, push and pull bars, and vertical rod covers and guards. Included are strength, dimensional, and material criteria plus environmental performance.

Single copy price: \$36.00 (non-members); \$18.00 (BHMA members)

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

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

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

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

#### **Revision**

BSR/BHMA A156.20-202x, Standard for Strap and Tee Hinges, and Hasps (revision of ANSI/BHMA A156.20-2017)  
This Standard establishes requirements for Strap Hinges, Tee Hinges, and Hasps, and includes performance tests covering operational and strength criteria.

Single copy price: \$36.00 (non-members); \$18.00 (BHMA members)

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

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

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

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

#### **Revision**

BSR/BHMA A156.22-202x, Standard for Door Gasketing and Edge Seal Systems (revision of ANSI/BHMA A156.22-2017)

This Standard establishes requirements for the performance and installation of gasketing systems including intumescent applied to, or mortised to, doors, frames, or both. Included are performance tests intended to evaluate resistance to smoke and air infiltration, energy performance, and the life and durability of gasketing materials.

Single copy price: \$36.00 (non-members); \$18.00 (BHMA members)

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

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

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

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

#### **Revision**

BSR/BHMA A156.26-202x, Standard for Continuous Hinges (revision of ANSI/BHMA A156.26-2017)

This Standard establishes requirements for architectural continuous hinges used in building construction. Cycle, abuse, overload, vertical wear, and strength tests are included.

Single copy price: \$36.00 (non-members); \$18.00 (BHMA members)

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

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

## Comment Deadline: September 6, 2021

### **BICSI (Building Industry Consulting Service International)**

8610 Hidden River Parkway, Tampa, FL 33637 | [jsilveira@bicsi.org](mailto:jsilveira@bicsi.org), [www.bicsi.org](http://www.bicsi.org)

#### ***Reaffirmation***

BSR/BICSI 001-2017 (R202x), Information and Communication Technology Systems Design and Implementation Best Practices for Educational Institutions and Facilities (reaffirmation of ANSI/BICSI 001-2017)

This standard provides requirements, recommendations, and best practices for the design and implementation of ICT systems and their infrastructure for educational institutions and facilities. Educational facilities include, but are not limited to, public and private educational institutions and facilities serving primary, secondary, and post-secondary levels of education, as well as preschool facilities, vocational training institutions, and specialty training facilities (e.g., teaching hospitals, broadcasting schools).

Single copy price: Free

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

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

### **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)

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

BSR/CTA 2093-202x, Health, Fitness and Wellness Data: Time, Location, and Source Reporting Format (new standard)

This standard defines the reporting format for the time, location, and source (e.g., device) to be used for health, fitness, and wellness data.

Single copy price: Free

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

Order from: Catrina Akers; [cakers@cta.tech](mailto:cakers@cta.tech)

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

### **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)

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

BSR/CTA 2098-202x, Definitions & Characteristics of Digital Therapeutics (new standard)

This document will define terms and levels of applications for digital therapeutics technologies.

Single copy price: Free

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

Order from: Catrina Akers; [cakers@cta.tech](mailto:cakers@cta.tech)

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



## Comment Deadline: September 6, 2021

### CTA (Consumer Technology Association)

1919 South Eads Street, Arlington, VA 22202 | vlancaster@cta.tech, www.cta.tech

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

BSR/CTA 2099-202x, Standard Method of Measurement for Matching In-Home Amplifiers and Loudspeakers (new standard)

This standard describes how to determine the maximum output capability of loudspeakers, subwoofers, and amplifiers intended for use in consumer/residential applications. It also describes how to determine the appropriate crossover frequency region for and between loudspeakers and subwoofers. The loudspeaker sections of this standard apply only to loudspeaker systems. This standard is not applicable to raw transducers.

Single copy price: Free

Obtain an electronic copy from: standards@cta.tech

Order from: Veronica Lancaster; vlancaster@cta.tech

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

### HL7 (Health Level Seven)

3300 Washtenaw Avenue, Ann Arbor, MI 48104 | Karenvan@HL7.org, www.hl7.org

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

BSR/HL7 CDAR2 QRDA3, R1-202x, HL7 Standard for CDA(R) Release 2: Quality Reporting Document Architecture (QRDA III), Release 1 - US Realm (new standard)

This specification will foster the development of fully automated EHR-based data submission and reporting, and support future stages of CMS' EHR Incentive Program (Meaningful Use).

Single copy price: Free to members and non-members

Obtain an electronic copy from: Karenvan@HL7.org

Order from: Karen Van Henttenryck; Karenvan@HL7.org

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

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

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

#### ***Reaffirmation***

BSR/ASSE 1063-2016 (R202x), Performance Requirements for Air Valve and Vent Inflow Preventer (reaffirmation of ANSI/ASSE 1063-2016)

The purpose of air valve and vent inflow preventer assemblies (referred to as the "assembly" in this standard) is to allow the release and admission of high volumes of air through air valves and air vents in potable water distribution systems, but prevent the entry of contaminated water when the air valve outlet becomes submerged from flooding or is the target of malicious tampering.

Single copy price: \$45.00

Obtain an electronic copy from: Terry.burger@asse-plumbing.org

Order from: Terry Burger; terry.burger@asse-plumbing.org

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

## Comment Deadline: September 6, 2021

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

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

#### **Reaffirmation**

BSR/ASSE 1016-2017/ASME A112.1016-2017/CSA B125.16-2017 (R202x), Performance Requirements for Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations (reaffirmation of ANSI/ASSE 1016-2017/ASME A112.1016-2017/CSA B125.16-2017)

This Standard applies to automatic compensating valves intended to be installed at the point of use, where the user has access to flow or final temperature controls, and where no further mixing occurs downstream of the device.

Single copy price: \$120.00

Obtain an electronic copy from: [Terry.burger@asse-plumbing.org](mailto:Terry.burger@asse-plumbing.org)

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

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

### IAPMO (WES) (International Association of Plumbing & Mechanical Officials)

4755 East Philadelphia Street, Ontario, CA 91761 | [hugo.aguilar@iapmo.org](mailto:hugo.aguilar@iapmo.org), <http://www.iapmo.org>

#### **New Standard**

BSR/IAPMO WESStand-202x, Water Efficiency and Sanitation Standard (new standard)

The purpose of this standard is to provide minimum requirements to optimize water use practices attributed to the built environment while maintaining protection of the public health, safety, and welfare.

Single copy price: Free

Obtain an electronic copy from: [hugo.aguilar@iapmo.org](mailto:hugo.aguilar@iapmo.org)

Order from: Hugo Aguilar; [hugo.aguilar@iapmo.org](mailto:hugo.aguilar@iapmo.org)

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

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

4755 East Philadelphia Street, Ontario, CA 91761 | [hugo.aguilar@iapmo.org](mailto:hugo.aguilar@iapmo.org), <https://www.iapmostandards.org>

#### **Reaffirmation**

BSR/CSA B45.11/IAPMO Z401-2017 (R202x), Glass plumbing fixtures (reaffirmation of ANSI/CSA B45.11/IAPMO Z401-2017)

This Standard covers lavatories and sinks made of glass and specifies test methods, performance requirements, and marking requirements.

Single copy price: \$100.00

Obtain an electronic copy from: <https://iapm-membership.org/store/csa-b45-11-iapmo-z401-2017-ansi-pr/1124/>

Order from: Hugo Aguilar; [hugo.aguilar@iapmo.org](mailto:hugo.aguilar@iapmo.org)

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

## Comment Deadline: September 6, 2021

### IES (Illuminating Engineering Society)

120 Wall Street, Floor 17, New York, NY 10005-4001 | pmcgillicuddy@ies.org, www.ies.org

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

BSR/IES RP-45-202x, Recommended Practice: Horticultural Lighting (new standard)

This Recommended Practice is written primarily for lighting professionals who are interested in horticultural lighting for greenhouses, indoor farms, and building atria. While farmers and horticulturalists may know the lighting needs of specific plants, the role of the lighting designer is to translate these needs into workable and affordable lighting systems.

Single copy price: \$25.00

Obtain an electronic copy from: pmcgillicuddy@ies.org

Send comments (copy psa@ansi.org) to: Patricia McGillicuddy; pmcgillicuddy@ies.org

### IES (Illuminating Engineering Society)

120 Wall Street, Floor 17, New York, NY 10005-4001 | pmcgillicuddy@ies.org, www.ies.org

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

BSR/IES TM-37-202x, Technical Memorandum: Description, Measurement, and Estimation of Sky Glow (new standard)

This TM describes the causes, characteristics, and potential impacts of human-based sky glow and provides the current state of the science for conducting estimations to facilitate its quantification and control. Virtually all lighting applications with exposure to the exterior environment fall within this purview, including street and area lighting, sports lighting, signage and advertisement lighting, industrial lighting, light escaping the interior of commercial and residential buildings via windows, and landscape lighting. Mobile sources, i.e., vehicular lighting, also contribute to sky glow and are included in the discussion, even though they are traditionally outside of IES scope.

Single copy price: \$25.00

Obtain an electronic copy from: pmcgillicuddy@ies.org

Send comments (copy psa@ansi.org) to: Patricia McGillicuddy; pmcgillicuddy@ies.org

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

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

#### ***Revision***

BSR C136.20-202x, Standard for Roadway and Area Lighting Equipment - Fiber-Reinforced Composite (FRC) Lighting Poles (revision of ANSI C136.20-2012)

This standard applies to fiber-reinforced composite (FRC) lighting poles used for roadway and area lighting. This standard includes nomenclature, dimensional data, performance criteria, and some interchangeability features for standard poles as well as those that must meet breakaway requirements for poles as described in AASHTO LTS Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals.

Single copy price: \$55.00

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

Order from: David Richmond; David.Richmond@nema.org

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

## Comment Deadline: September 6, 2021

### NSF (NSF International)

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

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

BSR/NSF 437-202x (i1r2), Glossary of Wastewater Technology Terminology (new standard)

Definitions covered by this Standard consist of terminology related to wastewater technology, including terms describing equipment, materials, design, construction, and performance testing. This Standard includes common definitions of terms used throughout NSF Wastewater Technology Standards.

Single copy price: Free

Obtain an electronic copy from: [https://standards.nsf.org/apps/group\\_public/download.php/59794/437i1r2%20-%20New%20Standard%20-%20JC%20Memo%20&%20Ballot.pdf](https://standards.nsf.org/apps/group_public/download.php/59794/437i1r2%20-%20New%20Standard%20-%20JC%20Memo%20&%20Ballot.pdf)

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

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

4867 Patina Court, Oceanside, CA 92057 | [rick.dixon@resnet.us](mailto:rick.dixon@resnet.us), [www.resnet.us.com](http://www.resnet.us.com)

#### ***Revision***

BSR/RESNET/ICC 301-202x, Standard for the Calculation and Labeling of the Energy Performance of Dwelling and Sleeping Units using an Energy Rating Index (revision of ANSI/RESNET/ICC 301-2018)

The project is the triennial update to Standard ANSI/RESNET/ICC 301-2019.

Single copy price: \$55.00

Obtain an electronic copy from: RESNET's website by following the "+ ANSI Standards & Amendments Out for Public Comment" link on webpage <https://www.resnet.us/about/standards/standards-currently-out-for-public-comment/>

Order from: Rick Dixon, Standards Manager, RESNET, P.O. Box 4561, Oceanside, CA 92052

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

### RIC (Remanufacturing Industries Council)

1335 Jefferson Rd. #20157, Rochester, NY 14602 | [mhayes@remancouncil.org](mailto:mhayes@remancouncil.org), [www.remancouncil.org](http://www.remancouncil.org)

#### ***Revision***

BSR/RIC 001.2-202x, Specifications for the Process of Remanufacturing (revision of ANSI/RIC 001.1-2016)

This standard defines and provides a benchmark for the process of remanufacturing, and establishes specifications that characterize the remanufacturing process and differentiate remanufacturing from other practices. The specifications in this standard will ensure that the products provided to customers by the remanufacturing industry are dependable and of a consistent high quality.

Single copy price: Free

Obtain an electronic copy from: <https://remanstandard.us/2022-draft-revision/>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: <https://remanstandard.us/public-comments/>

## Comment Deadline: September 6, 2021

### SCTE (Society of Cable Telecommunications Engineers)

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

#### Reaffirmation

BSR/SCTE 79-1-2016 (R202x), DOCSIS 2.0 Part 1: Radio Frequency Interface (reaffirmation of ANSI/SCTE 79-1-2016)

This document defines the second generation of radio-frequency interface specifications for high-speed data-over-cable systems. They were developed for the benefit of the cable industry, including 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](mailto:admin@standards.scte.org)

Order from: Global Engineering Documents, (800) 854-7179, [www.global.ihs.com](http://www.global.ihs.com)

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

### UL (Underwriters Laboratories)

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

#### Revision

BSR/UL 201-202x, UL Standard for Safety for Garage Equipment (revision of ANSI/UL 201-2019)

The following changes in requirements are being proposed: (1) Clarification concerning automotive lift in accordance with UL 201; (2) Revision to Loading Test parameters; (3) Editorial correction of exceptions; (4) Addition of UL 62368-1 as an option; (5) Clarification of marking requirements; and (6) Revisions to include minor and major repair garage designation within UL 201.

Single copy price: Free

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

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

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

### 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 467-202x, Standard for Safety for Grounding and Bonding Equipment (revision of ANSI/UL 467-2013 (R2017))

This Standard applies to grounding and bonding equipment for use in accordance with CSA C22.1, Canadian Electrical Code, Part I in Canada; the National Electrical Code, NFPA 70, in the United States; or the Standard for Electrical Installations, NOM-001-SEDE, in Mexico.

Single copy price: Free

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

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

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

## Comment Deadline: September 6, 2021

### UL (Underwriters Laboratories)

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

#### Revision

BSR/UL 962A-202x, Standard for Safety Furniture Power Distribution Units (revision of ANSI/UL 962A-2020)  
 (1) Standardize Spill Test procedure in UL 962A to align with UL 962; (2) New Clause SD9.3.5 and Figure SD9.2 for detachable interconnecting cords; (3) Addition of reference to UL 62368-1, Standard for Audio-Video, Information and Communication Technology Equipment - Part 1: Safety Requirements; (4) Addition of UL 969A as an alternative marking; (5) Clarification of the allowance of star and branch configurations; (6) Prevention of ring circuits; (7) Removal of "Flanged" from Clause SD9.1.3; (8) Removal of "Flush" from SD12.1 and SD12.5; (9) Clarification of FPDU length; (10) Clarification of subordinate supplementary overcurrent protection; (11) Improved integration of Class 2 power supplies; (12) Detachable power supply cord; (13) Differentiation of attachment plugs and cord connectors; (14) Standardization of terminology for movable workspace tables, FPDU and FPDU enclosures.

Single copy price: Free

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

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

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

### UL (Underwriters Laboratories)

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

#### Revision

BSR/UL 1315-202x, Standard for Safety for Safety Containers for Waste Paper (revision of ANSI/UL 1315-2003 (R2017))

The following is being proposed: (1) Merging of UL 242, Standard for Safety for Nonmetallic Containers for Waste Paper, with UL 1315, Standard for Safety for Metal Waste Paper Containers, to form a new standard, the Standard for Safety for Safety Containers for Waste Paper.

Single copy price: Free

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

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

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

### VITA (VMEbus International Trade Association (VITA))

929 W. Portobello Avenue, Mesa, AZ 85210 | [jing.kwok@vita.com](mailto:jing.kwok@vita.com), [www.vita.com](http://www.vita.com)

#### Revision

BSR/VITA 42.0-202x, XMC Standard (revision of ANSI/VITA 42.0-2016)

This document defines an open standard for supporting high-speed, switched interconnect protocols on an existing, widely deployed mezzanine-card form factor. This revision addresses standoffs to ease in unmating mezzanine cards and higher data rate protocols.

Single copy price: \$25.00

Obtain an electronic copy from: [admin@vita.com](mailto:admin@vita.com)

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

## Comment Deadline: September 21, 2021

### ASME (American Society of Mechanical Engineers)

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

#### ***Reaffirmation***

BSR/ASME B18.1.1-1972 (R202x), Small Solid Rivets (reaffirmation of ANSI/ASME B18.1.1-1972 (R2016))

This standard covers complete general and dimensional data for those types of small solid rivets.

Single copy price: \$39.00

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

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

### ASME (American Society of Mechanical Engineers)

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

#### ***Reaffirmation***

BSR/ASME B18.1.2-1972 (R202x) , Large Rivets (reaffirmation of ANSI/ASME B18.1.2-1972 (R2016))

This standard covers complete general and dimensional data for those types of large solid rivets together with dimensional data applicable to manufactured heads after driving, driven heads, and hold-on (dolly-bar) and rivet set impressions.

Single copy price: \$39.00

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

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

### ASME (American Society of Mechanical Engineers)

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

#### ***Reaffirmation***

BSR/ASME B18.1.3M-1983 (R202x) , Metric Small Solid Rivets (reaffirmation of ANSI/ASME B18.1.3M-1983 (R2016))

This Standard covers complete general and dimensional data for those types of metric small solid rivets. Included is an appendix covering formulas on which dimensional data are based.

Single copy price: \$39.00

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

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

### ASME (American Society of Mechanical Engineers)

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

#### ***Reaffirmation***

BSR/ASME B18.2.6M-2012 (R202x), Metric Fasteners for Use In Structural Applications (reaffirmation of ANSI/ASME B18.2.6M-2012)

This Standard covers the complete general and dimensional data for products in the metric series for sizes M12 through M36.

Single copy price: \$32.00

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

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

## Comment Deadline: September 21, 2021

### ASME (American Society of Mechanical Engineers)

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

#### Reaffirmation

BSR/ASME B18.15-2015 (R202x), Forged Eyebolts (reaffirmation of ANSI/ASME B18.15-2015)

This Standard is limited to dimensions and capacities for carbon steel and corrosion-resistant stainless steel, forged, threaded eyebolts intended primarily for lifting applications. For carbon steel construction, the sizes are limited to 1/4 in. through 2-1/2 in., and for corrosion-resistant stainless steel construction, the sizes are limited to 1/4 in. through 1-1/2 in.

Single copy price: \$35.00

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

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

## Project Withdrawn

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

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

2311 Wilson Boulevard, Arlington, VA 22201 | [kcarlson@ahrinet.org](mailto:kcarlson@ahrinet.org), [www.ahrinet.org](http://www.ahrinet.org)

BSR/AHRI Standard 1140-201X, Sound Quality Evaluation Procedures for Air-Conditioning and Refrigeration Equipment (revision of ANSI/AHRI Standard 1140-2012)

Inquiries may be directed to Kristin Carlson; [kcarlson@ahrinet.org](mailto:kcarlson@ahrinet.org)

### ATIS (Alliance for Telecommunications Industry Solutions)

1200 G Street NW, Washington, DC 20005 | [akarditzas@atis.org](mailto:akarditzas@atis.org), [www.atis.org](http://www.atis.org)

BSR/ATIS 1000078-202x, Signature-Based Handling of SIP RPH Assertion using Tokens (new standard)

Inquiries may be directed to Anna Karditzas; [akarditzas@atis.org](mailto:akarditzas@atis.org)

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

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

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

2311 Wilson Boulevard, Arlington, VA 22201 | [kcarlson@ahrinet.org](mailto:kcarlson@ahrinet.org), [www.ahrinet.org](http://www.ahrinet.org)

ANSI/AHRI Standard 1140-2012, Sound Quality Evaluation Procedures for Air-Conditioning and Refrigeration Equipment

Questions may be directed to: Kristin Carlson; [kcarlson@ahrinet.org](mailto:kcarlson@ahrinet.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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## **ANS (American Nuclear Society)**

555 North Kensington Avenue, La Grange Park, IL 60526 | kmurdoch@ans.org, www.ans.org

### *Reaffirmation*

ANSI/ANS 2.3-2011 (R2021), Estimating Tornado, Hurricane, and Extreme Straight Line Wind Characteristics at Nuclear Facility Sites (reaffirmation of ANSI/ANS 2.3-2011 (R2016)) Final Action Date: 7/19/2021

### *Reaffirmation*

ANSI/ANS 15.11-2016 (R2021), Radiation Protection at Research Reactors (reaffirmation of ANSI/ANS 15.11-2016) Final Action Date: 7/20/2021

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

1305 Walt Whitman Road, Melville, NY 11747 | standards@acousticalsociety.org, www.acousticalsociety.org

### *National Adoption*

ANSI/ASA S1.15, Part 3-2021/IEC 61094-3-2016, Electroacoustics - Measurement microphones - Part 3: Primary method for free-field calibration of laboratory standard microphones by the reciprocity technique (identical national adoption of IEC 61094-3:2016) Final Action Date: 7/12/2021

### *National Adoption*

ANSI/ASA S1.15, Part 4-2021/IEC 61094-4-1995, Electroacoustics - Measurement microphones - Part 4: Specifications for working standard microphones (identical national adoption of IEC 61094-4:1995) Final Action Date: 7/12/2021

### *National Adoption*

ANSI/ASA S1.15, Part 6-2021/IEC 61094-6-2004, Electroacoustics - Measurement microphones - Part 6: Electrostatic actuators for determination of frequency response (identical national adoption of IEC 61094-6:2004) Final Action Date: 7/12/2021

### *National Adoption*

ANSI/ASA S1.15, Part 7-2021/IEC TS 61094-7-2006, Electroacoustics - Measurement microphones - Part 7: Values for the difference between free field and pressure sensitivity levels of laboratory standard microphones (identical national adoption of IEC TS 61094-7:2006) Final Action Date: 7/12/2021

### *National Adoption*

ANSI/ASA S1.15, Part 8-2021/IEC 61094-8-2012, Electroacoustics - Measurement microphones - Part 8: Methods for determining the free-field sensitivity of working standard microphones by comparison (identical national adoption of IEC 61094-8:2012) Final Action Date: 7/12/2021

### *National Adoption*

ANSI/ASA S1.15 Part 5-2021/IEC 61094-5-2016, Electroacoustics - Measurement microphones - Part 5: Methods for pressure calibration of working standard microphones by comparison (identical national adoption of IEC 61094-5:2016) Final Action Date: 7/12/2021

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

Two Park Avenue, New York, NY 10016-5990 | ansibox@asme.org, www.asme.org

### *Revision*

ANSI/ASME B20.1-2021, Safety Standard for Conveyors and Related Equipment (revision of ANSI/ASME B20.1-2018) Final Action Date: 7/16/2021

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

Two Park Avenue, New York, NY 10016-5990 | ansibox@asme.org, www.asme.org

*Revision*

ANSI/ASME B31T-2021, Standard Toughness Requirements for Piping (revision of ANSI/ASME B31T-2018) Final Action Date: 7/15/2021

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

600 N Plankinton Avenue, Milwaukee, WI 53203 | standards@asq.org, www.asq.org

*National Adoption*

ANSI/ASQ/ISO/TS 54001-2019, Quality management systems - Particular requirements for the application of ISO 9001:2015 for electoral organizations at all levels of government (identical national adoption of ISO/TS 54001:2019) Final Action Date: 7/19/2021

**ASTM (ASTM International)**

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

*Reaffirmation*

ANSI/ASTM E2587-2016 (R2021), Practice for Use of Control Charts in Statistical Process Control (reaffirmation of ANSI/ASTM E2587-2016) Final Action Date: 7/15/2021

**AWWA (American Water Works Association)**

6666 W. Quincy Avenue, Denver, CO 80235 | polson@awwa.org, www.awwa.org

*Revision*

ANSI/AWWA G200-2021, Distribution Systems Operation & Management (revision of ANSI/AWWA G200-2015) Final Action Date: 7/12/2021

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

8501 E. Pleasant Valley Road, Cleveland, OH 44131 | ansi.contact@csagroup.org, www.csagroup.org

*Reaffirmation*

ANSI/CSA NGV1-2017 (R2021), Compressed natural gas vehicle (NGV) fueling connection devices (reaffirmation of ANSI/CSA NGV1-2017) Final Action Date: 7/13/2021

*Revision*

ANSI/CSA NGV 6.1-2021, Compressed natural gas (CNG) fuel storage and delivery systems for road vehicles (revision of ANSI/CSA NGV 6.1-2018) Final Action Date: 7/12/2021

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

7902 Turin Road, Rome, NY 13440-2069 | laurenradmin@esda.org, www.esda.org

*Revision*

ANSI/ESD STM11.11-2021, ESD Association Draft Standard Test Method for Protection of Electrostatic Discharge Susceptible Items - Surface Resistance Measurement of Planar Materials (revision of ANSI/ESD STM11.11-2015) Final Action Date: 7/12/2021

*Revision*

ANSI/ESD STM11.12-2021, ESD Association Standard Test Method for Protection of Electrostatic Discharge Susceptible Items - Volume Resistance Measurement of Static Dissipative Planar Materials (revision of ANSI/ESD STM11.12-2015) Final Action Date: 7/12/2021

**HI (Hydraulic Institute)**

300 Interpace Parkway, Parsippany, NJ 07054 | asisto@pumps.org, www.pumps.org

*Reaffirmation*

ANSI/HI 5.1-5.6-2016 (R2021), Sealless Rotodynamic Pumps for Nomenclature, Definitions, Design, Application, Operation, and Test (reaffirmation of ANSI/HI 5.1-5.6-2016) Final Action Date: 7/16/2021

*Revision*

ANSI/HI 10.1-10.5-2021, Air-Operated Pumps for Nomenclature, Definitions, Application, and Operation (revision of ANSI/HI 10.1-10.5-2010 (R2016)) Final Action Date: 7/19/2021

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

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

*New Standard*

ANSI/ASSE Standard 1049-2021, Performance Requirements for Individual and Branch-Type Air Admittance Valves for Chemical Waste Systems (new standard) Final Action Date: 7/13/2021

*New Standard*

ANSI/ASSE Standard 1050-2021, Performance Requirements for Stack Air Admittance Valves for Sanitary Drainage Systems (new standard) Final Action Date: 7/13/2021

*New Standard*

ANSI/ASSE Standard 1051-2021, Performance Requirements for Individual and Branch-Type Air Admittance Valves for Sanitary Drainage Systems (new standard) Final Action Date: 7/13/2021

**ICC (International Code Council)**

4051 Flossmoor Road, Country Club Hills, IL 60478 | kaittaniemi@iccsafe.org, www.iccsafe.org

*New Standard*

ANSI/ICC 1200-2021, Standard for Off-Site Construction: Planning, Design, Fabrication and Assembly (new standard) Final Action Date: 7/19/2021

*New Standard*

ANSI/ICC 1205-2021, Standard for Off-Site Construction: Inspection and Regulatory Compliance (new standard) Final Action Date: 7/19/2021

**INMM (ASC N14) (Institute of Nuclear Materials Management)**

1435 Ridgeview Road, Columbus, OH 43221 | N14secretary@gmail.com, www.inmm.org

*Revision*

ANSI N14.7-2021, Guidance for Packaging Type A Quantities of Radioactive Materials (revision of ANSI N14.7-2013) Final Action Date: 7/20/2021

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

700 K Street NW, Washington, DC 20001 | comments@standards.incits.org, www.incits.org

*Reaffirmation*

INCITS/ISO 19105:2000 [R2021], Geographic information - Conformance and testing (reaffirm a national adoption INCITS/ISO 19105:2000 [R2016]) Final Action Date: 7/12/2021

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

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

*Reaffirmation*

INCITS/ISO/IEC 29183:2010 [R2021], Information technology - Office equipment - Method for measuring digital copying productivity of a single one-sided original (reaffirm a national adoption INCITS/ISO/IEC 29183:2010 [R2016])  
Final Action Date: 7/12/2021

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

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

*Stabilized Maintenance*

ANSI C136.11-2011 (S2021), Multiple Parallel Wired Sockets (stabilized maintenance of ANSI C136.11-2011 (R2016))  
Final Action Date: 7/20/2021

**NFPA (National Fire Protection Association)**

One Batterymarch Park, Quincy, MA 02269-9101 | [PFoley@nfpa.org](mailto:PFoley@nfpa.org), [www.nfpa.org](http://www.nfpa.org)

*Revision*

ANSI/NFPA 105-2022, Standard for Smoke Door Assemblies and Other Opening Protectives (revision of ANSI/NFPA 105-2019) Final Action Date: 7/8/2021

*Revision*

ANSI/NFPA 407-2022, Standard for Aircraft Fuel Servicing (revision of ANSI/NFPA 407-2017) Final Action Date: 7/8/2021

**NISO (National Information Standards Organization)**

3600 Clipper Mill Road, Baltimore, MD 21211 | [nlagace@niso.org](mailto:nlagace@niso.org), [www.niso.org](http://www.niso.org)

*New Standard*

ANSI/NISO Z39.4-2021, Criteria for Indexes (new standard) Final Action Date: 7/12/2021

**NSF (NSF International)**

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

*Revision*

ANSI/NSF 385-2021 (i8r1), Disinfection Mechanics (revision of ANSI/NSF 385-2019) Final Action Date: 7/12/2021

*Revision*

ANSI/NSF 385-2021 (i9r1), Disinfection Mechanics (revision of ANSI/NSF 385-2019) Final Action Date: 7/13/2021

*Revision*

ANSI/NSF 455-2-2021 (i24r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2020) Final Action Date: 7/9/2021

*Revision*

ANSI/NSF 455-2-2021 (i28r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2020) Final Action Date: 7/6/2021

*Revision*

ANSI/NSF 455-3-2021 (i35r1), Good Manufacturing Practices for Cosmetics (revision of ANSI/NSF 455-3-2019) Final Action Date: 7/6/2021

*Revision*

ANSI/NSF 455-4-2021 (i40r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2020) Final Action Date: 7/6/2021

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

15 Technology Parkway South, Peachtree Corners, GA 30092 | standards@tappi.org, www.tappi.org

*New Standard*

ANSI/TAPPI T 258 om-2021, Basic density and moisture content of pulpwood (new standard) Final Action Date: 7/14/2021

*New Standard*

ANSI/TAPPI T 414 om-2021, Internal tearing resistance of paper (Elmendorf-type method) (new standard) Final Action Date: 7/14/2021

*New Standard*

ANSI/TAPPI T 537 om-2021, Dirt count in paper and paperboard (optical character recognition - OCR) (new standard) Final Action Date: 7/14/2021

*New Standard*

ANSI/TAPPI T 556 om-2021, Bending resistance of paper and paperboard by single-point bending methods (new standard) Final Action Date: 7/14/2021

*New Standard*

ANSI/TAPPI T 560 om-2021, CIE whiteness and tint of paper and paperboard (d/0 geometry, C/2 illuminant/observer) (new standard) Final Action Date: 7/14/2021

*New Standard*

ANSI/TAPPI T 562 om-2021, CIE whiteness and tint of paper and paperboard (45/0 geometry, C/2 illuminant/observer) (new standard) Final Action Date: 7/14/2021

*New Standard*

ANSI/TAPPI T 829 om-2021, Score quality test (new standard) Final Action Date: 7/14/2021

*Reaffirmation*

ANSI/TAPPI T 257 sp-2014 (R2021), Sampling and preparing wood for analysis (reaffirmation of ANSI/TAPPI T 257 sp-2014) Final Action Date: 7/14/2021

*Reaffirmation*

ANSI/TAPPI T 437 om-2012 (R2021), Dirt in paper and paperboard (reaffirmation of ANSI/TAPPI T 437 om-2012) Final Action Date: 7/14/2021

*Reaffirmation*

ANSI/TAPPI T 454 om-2015 (R2021), Turpentine test for voids in glassine and greaseproof papers (reaffirmation of ANSI/TAPPI T 454 om-2015) Final Action Date: 7/14/2021

*Reaffirmation*

ANSI/TAPPI T 512 sp-2012 (R2021), Creasing of flexible packaging material paper specimens for testing (reaffirmation of ANSI/TAPPI T 512 sp-2012) Final Action Date: 7/14/2021

*Reaffirmation*

ANSI/TAPPI T 529 om-2014 (R2021), Surface pH measurement of paper (reaffirmation of ANSI/TAPPI T 529 om-2014) Final Action Date: 7/14/2021

*Reaffirmation*

ANSI/TAPPI T 563 om-2015 (R2021), Equivalent black area (EBA) and count of visible dirt in pulp, paper and paperboard by image analysis (reaffirmation of ANSI/TAPPI T 563 om-2015) Final Action Date: 7/14/2021

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

15 Technology Parkway South, Peachtree Corners, GA 30092 | standards@tappi.org, www.tappi.org

*Revision*

ANSI/TAPPI T 272 sp-2021, Forming handsheets for reflectance testing of pulp (sheet machine procedure) (revision of ANSI/TAPPI T 272 sp-2012) Final Action Date: 7/14/2021

*Revision*

ANSI/TAPPI T 402 sp-2021, Standard conditioning and testing atmospheres for paper, board, pulp handsheets, and related products (revision of ANSI/TAPPI T 402 sp-2013) Final Action Date: 7/14/2021

*Revision*

ANSI/TAPPI T 657 sp-2021, Sampling of fillers and pigments (revision of ANSI/TAPPI T 657 sp-2012) Final Action Date: 7/14/2021

*Revision*

ANSI/TAPPI T 826 om-2021, Short span compressive strength of containerboard (revision of ANSI/TAPPI T 826 om-2013) Final Action Date: 7/14/2021

*Revision*

ANSI/TAPPI T 831 om-2021, Water absorption of corrugating medium: Water drop penetration test (revision of ANSI/TAPPI T 831 om-2014) Final Action Date: 7/14/2021

*Revision*

ANSI/TAPPI T 1215 sp-2021, The determination of instrumental color differences (revision of ANSI/TAPPI T 1215 sp-2012) Final Action Date: 7/14/2021

**TIA (Telecommunications Industry Association)**

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

*Reaffirmation*

ANSI/TIA 1152-A-2016 (R2021), Requirements for Field Test Instruments and Measurements for Balanced Twisted-Pair Cabling (reaffirmation of ANSI/TIA 1152-A-2016) Final Action Date: 7/15/2021

**UL (Underwriters Laboratories)**

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

*New Standard*

ANSI/UL 62841-2-3-2021, Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 2-3: Particular Requirements for Hand-Held Grinders, Disc-Type Polishers and Disc-Type Sanders (new standard) Final Action Date: 7/12/2021

*Revision*

ANSI/UL 508A-2021, Standard for Safety for Industrial Control Panels (revision of ANSI/UL 508A-2020) Final Action Date: 7/13/2021

*Revision*

ANSI/UL 508A-2021a, Standard for Safety for Industrial Control Panels (revision of ANSI/UL 508A-2020) Final Action Date: 7/13/2021

*Revision*

ANSI/UL 859-2021, Standard for Safety for Household Electric Personal Grooming Appliances (revision of ANSI/UL 859-2016) Final Action Date: 7/14/2021

## **UL (Underwriters Laboratories)**

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

### *Revision*

ANSI/UL 1206-2021, Standard for Safety for Electric Commercial Clothes-Washing (revision of ANSI/UL 1206-2019)

Final Action Date: 6/14/2021

### *Revision*

ANSI/UL 1640-2021, Standard for Safety for Portable Power-Distribution Equipment (revision of ANSI/UL 1640-2020)

Final Action Date: 7/14/2021

# Call for Members (ANS Consensus Bodies)

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

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

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

BSR/ASSP A10.38-202X, Basic Elements of an Employer™s Program to Provide a Safe and Healthful Work Environment on Construction and Demolition Sites (revision and redesignation of ANSI/ASSE A10.38-2013)

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

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

BSR/BHMA A156.44-202x, Standard For Hardware For Architectural Glass Openings (new standard)

## **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)  
Catrina Akers; [cakers@cta.tech](mailto:cakers@cta.tech)

BSR/CTA 2093-202x, Health, Fitness and Wellness Data: Time, Location, and Source Reporting Format (new standard)

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

BSR/CTA 2098-202x, Definitions & Characteristics of Digital Therapeutics (new standard)

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

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

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

BSR/NEMA ES 80008-202x, Battery Recyclability Standard (new standard)

## **NSF (NSF International)**

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

BSR/NSF 14-202x (i117r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2020)

BSR/NSF 437-202x (i1r2), Glossary of Wastewater Technology Terminology (new standard)



**NSF (NSF International)**

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

BSR/NSF 455-2-202x (i26r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2020)

BSR/NSF 455-3-202x (i33r1), Good Manufacturing Practices for Cosmetics (revision of ANSI/NSF 455-3-2019)

BSR/NSF 455-4-202x (i39r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2020)

BSR/NSF/CAN 50-202x (i177r1), 50-20XX: Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2020)

BSR/NSF/CAN 61-202x (i159r1), 61-2021: Drinking Water System Components - Health Effects (revision of ANSI/NSF/CAN 61-2020)

**UL (Underwriters Laboratories)**

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | griff.edwards@ul.org, https://ul.org/  
Griff Edwards; griff.edwards@ul.org

BSR/UL 2158A-202x, Standard for Clothes Dryer Transition Duct (revision of ANSI/UL 2158A-2013 (R2017))

**VITA (VMEbus International Trade Association (VITA))**

929 W. Portobello Avenue, Mesa, AZ 85210 | jing.kwok@vita.com, www.vita.com  
Jing Kwok; jing.kwok@vita.com

BSR/VITA 42.0-202x, XMC Standard (revision of ANSI/VITA 42.0-2016)

# Call for Members (ANS Consensus Bodies)

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## ANSI Accredited Standards Developer

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

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

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

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

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

- Service Providers
- Users
- Standards Development Organizations and Consortia
- Academic Institutions

## 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).

# American National Standards (ANS) Announcements

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## Corrections

### ACP - American Clean Power Association

#### Postpone Public Review Period on Proposed ANS

The American Clean Power Association (ACP) needs to cancel the following public review and comment periods listed in Standards Action on July 16, 2021. The BSR 8 forms for these proposed ANS will be submitted at a later time.

BSR/ACP 1000-2.1-202x, Definitions and Nomenclatures (new standard)

BSR/ACP 1000-2.2-202x, Rescue Training Requirements (new standard)

BSR/ACP 1000-2.3-202x, Fall Protection Training Requirements (new standard)

Please direct inquiries to: [standards@cleanpower.org](mailto:standards@cleanpower.org)

## Corrections

### UL - Underwriters Laboratories

#### ANSI/UL 61215-1-2017 is a National Adoption

The July 16, 2021 Standards Action Final Action Notice for ANSI/UL 61215-1-2021 should have identified this approval as an (identical national adoption of IEC 61215-1 and revision of ANSI/UL 61215-1-2017). Please direct inquiries to: Susan Malohn; [Susan.P.Malohn@ul.org](mailto:Susan.P.Malohn@ul.org)

## Accreditation Announcements (Standards Developers)

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### Approval of Reaccreditation – ASD

#### ABMA - American Brush Manufacturers Association

Effective June 3, 2020

The reaccreditation of **ABMA - American Brush Manufacturers Association** has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on ABMA-sponsored American National Standards, effective **June 3, 2020**. For additional information, please contact: David Parr, American Brush Manufacturers Association (ABMA) | 736 Main Avenue, Suite 7, Durango, CO 81301-5479 | (720) 392-2262, dparr@abma.org

### Approval of Reaccreditation – ASD

#### IIAR - International Institute of Ammonia Refrigeration

Effective July 20, 2021

ANSI's Executive Standards Council has approved the reaccreditation of **IIAR - International Institute of Ammonia Refrigeration**, under its recently revised operating procedures for documenting consensus on IIAR-sponsored American National Standards, effective **July 20, 2021**. For additional information, please contact: Eric Smith, International Institute of Ammonia Refrigeration (IIAR); 1001 N. Fairfax Street, Alexandria, VA 22314-1797; (703) 312-4200, eric.smith@iiar.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)

If you have a question about the ANS process and cannot find the answer, please email us at: [psa@ansi.org](mailto:psa@ansi.org) . Please also visit Standards Boost Business at [www.standardsboostbusiness.org](http://www.standardsboostbusiness.org) for resources about why standards matter, testimonials, case studies, FAQs and more.

If you are interested in purchasing an American National Standard, please visit <https://webstore.ansi.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)
  - IES (Illuminating Engineering Society)
  - ITI (InterNational Committee for Information Technology Standards)
  - MHI (Material Handling Industry)
  - NAHBRC (NAHB Research Center, Inc.)
  - 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)

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).

<p><b>ANS</b> American Nuclear Society 555 North Kensington Avenue La Grange Park, IL 60526 <a href="http://www.ans.org">www.ans.org</a>  Kathryn Murdoch <a href="mailto:kmurdoch@ans.org">kmurdoch@ans.org</a></p>	<p><b>ASME</b> American Society of Mechanical Engineers Two Park Avenue New York, NY 10016 <a href="http://www.asme.org">www.asme.org</a>  Terrell Henry <a href="mailto:ansibox@asme.org">ansibox@asme.org</a></p>	<p>Stephen Borrero <a href="mailto:sborrero@aws.org">sborrero@aws.org</a></p>
<p><b>API</b> American Petroleum Institute 200 Massachusetts Avenue NW Washington, DC 20001 <a href="http://www.api.org">www.api.org</a>  Benjamin Coco <a href="mailto:cocob@api.org">cocob@api.org</a></p>	<p><b>ASQ (ASC Z1)</b> American Society for Quality 600 N Plankinton Avenue Milwaukee, WI 53203 <a href="http://www.asq.org">www.asq.org</a>  Julie Sharp <a href="mailto:standards@asq.org">standards@asq.org</a></p>	<p><b>AWWA</b> American Water Works Association 6666 W. Quincy Avenue Denver, CO 80235 <a href="http://www.awwa.org">www.awwa.org</a>  Paul Olson <a href="mailto:polson@awwa.org">polson@awwa.org</a></p>
<p><b>ASA (ASC S1)</b> Acoustical Society of America 1305 Walt Whitman Road Melville, NY 11747 <a href="http://www.acousticalsociety.org">www.acousticalsociety.org</a>  Nancy Blair-DeLeon <a href="mailto:standards@acousticalsociety.org">standards@acousticalsociety.org</a></p>	<p><b>ASSP (Safety)</b> American Society of Safety Professionals 520 N. Northwest Highway Park Ridge, IL 60068 <a href="http://www.assp.org">www.assp.org</a>  Lauren Bauerschmidt <a href="mailto:LBauerschmidt@assp.org">LBauerschmidt@assp.org</a></p>	<p><b>BHMA</b> Builders Hardware Manufacturers Association 17 Faulkner Drive Niantic, CT 06357 <a href="http://www.buildershardware.com">www.buildershardware.com</a>  Michael Tierney <a href="mailto:mtierney@kellencompany.com">mtierney@kellencompany.com</a></p>
<p><b>ASABE</b> American Society of Agricultural and Biological Engineers 2950 Niles Road Saint Joseph, MI 49085 <a href="https://www.asabe.org/">https://www.asabe.org/</a>  Carla VanGilder <a href="mailto:vangilder@asabe.org">vangilder@asabe.org</a></p>	<p><b>ASTM</b> ASTM International 100 Barr Harbor Drive West Conshohocken, PA 19428 <a href="http://www.astm.org">www.astm.org</a>  Laura Klineburger <a href="mailto:accreditation@astm.org">accreditation@astm.org</a></p>	<p><b>BHMA</b> Builders Hardware Manufacturers Association 355 Lexington Avenue, 15th Floor New York, NY 10017 <a href="http://www.buildershardware.com">www.buildershardware.com</a>  Karen Bishop <a href="mailto:Kbishop@Kellencompany.com">Kbishop@Kellencompany.com</a></p>
<p><b>ASHRAE</b> American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. 180 Technology Parkway Peachtree Corners, GA 30092 <a href="http://www.ashrae.org">www.ashrae.org</a>  Carmen King <a href="mailto:cking@ashrae.org">cking@ashrae.org</a></p>	<p><b>AWS</b> American Welding Society 8669 NW 36th Street Miami, FL 33166 <a href="http://www.aws.org">www.aws.org</a>  Andrew Davis <a href="mailto:adavis@aws.org">adavis@aws.org</a></p>	<p><b>BICSI</b> Building Industry Consulting Service International 8610 Hidden River Parkway Tampa, FL 33637 <a href="http://www.bicsi.org">www.bicsi.org</a>  Jeff Silveira <a href="mailto:jsilveira@bicsi.org">jsilveira@bicsi.org</a></p>
<p>Ryan Shanley <a href="mailto:rshanley@ashrae.org">rshanley@ashrae.org</a></p>	<p>Jennifer Rosario <a href="mailto:jrosario@aws.org">jrosario@aws.org</a>  Rakesh Gupta <a href="mailto:gupta@aws.org">gupta@aws.org</a></p>	<p><b>CSA</b> CSA America Standards Inc. 8501 E. Pleasant Valley Road Cleveland, OH 44131 <a href="http://www.csagroup.org">www.csagroup.org</a>  David Zimmerman <a href="mailto:ansi.contact@csagroup.org">ansi.contact@csagroup.org</a></p>

<p><b>CTA</b> Consumer Technology Association 1919 S. Eads Street Arlington, VA 22202 www.cta.tech Catrina Akers cakers@cta.tech</p>	<p><b>IAPMO (WES)</b> International Association of Plumbing &amp; Mechanical Officials 4755 East Philadelphia Street Ontario, CA 91761 http://www.iapmo.org Hugo Aguilar hugo.aguilar@iapmo.org</p>	<p><b>ITI (INCITS)</b> InterNational Committee for Information Technology Standards 700 K Street NW Washington, DC 20001 www.incits.org Deborah Spittle comments@standards.incits.org</p>
<p><b>CTA</b> Consumer Technology Association 1919 South Eads Street Arlington, VA 22202 www.cta.tech Veronica Lancaster vlancaster@cta.tech</p>	<p><b>IAPMO (Z)</b> International Association of Plumbing &amp; Mechanical Officials 4755 East Philadelphia Street Ontario, CA 91761 https://www.iapmostandards.org Hugo Aguilar hugo.aguilar@iapmo.org</p>	<p><b>NEMA (ASC C136)</b> National Electrical Manufacturers Association 1300 North 17th Street Rosslyn, VA 22209 www.nema.org David Richmond David.Richmond@nema.org</p>
<p><b>EOS/ESD</b> ESD Association, Inc. 7902 Turin Road Rome, NY 13440 www.esda.org Lauren Roosevelt laurenradmin@esda.org</p>	<p><b>ICC</b> International Code Council 4051 Flossmoor Road Country Club Hills, IL 60478 www.iccsafe.org Karl Aittaniemi kaittaniemi@iccsafe.org</p>	<p><b>NEMA (ASC C8)</b> National Electrical Manufacturers Association 1300 North 17th Street Arlington, VA 22209 www.nema.org Khaled Masri Khaled.Masri@nema.org</p>
<p><b>HI</b> Hydraulic Institute 300 Interpace Parkway Parsippany, NJ 07054 www.pumps.org Amy Sisto asisto@pumps.org</p>	<p><b>IEEE (ASC C63)</b> Institute of Electrical and Electronics Engineers 445 Hoes Lane Piscataway, NJ 08854 www.ieee.org Jennifer Santulli J.Santulli@ieee.org</p>	<p><b>NEMA (ASC ESS)</b> National Electrical Manufacturers Association 1300 N 17th St Rosslyn, VA 22209 www.nema.org Brian Marchionini Brian.Marchionini@nema.org</p>
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<p><b>IAPMO (ASSE Chapter)</b> ASSE International Chapter of IAPMO 18927 Hickory Creek Drive Mokena, IL 60448 www.asse-plumbing.org Terry Burger terry.burger@asse-plumbing.org</p>	<p><b>INMM (ASC N14)</b> Institute of Nuclear Materials Management 1435 Ridgeview Road Columbus, OH 43221 www.inmm.org Steve Maheras N14secretary@gmail.com</p>	<p><b>NISO</b> National Information Standards Organization 3600 Clipper Mill Road Baltimore, MD 21211 www.niso.org Nettie Lagace nlagace@niso.org</p>



## ANSI-Accredited Standards Developers Contact Information

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**VITA**

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Jing Kwok  
jing.kwok@vita.com

# 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

### Additive manufacturing (TC 261)

ISO/ASTM DIS 52931, Additive manufacturing of metals - Environment, health and safety - General principles for use of metallic materials - 10/3/2021, \$107.00

### Agricultural food products (TC 34)

ISO/FDIS 24673, Concentrated date juice - Specifications and test methods - 11/10/2014, \$33.00

### Aircraft and space vehicles (TC 20)

ISO/DIS 14222, Space environment (natural and artificial) - Earth upper atmosphere - 11/9/2015, \$112.00

### Biotechnology (TC 276)

ISO/DIS 24603, Biotechnology - Biobanking - Requirements for human and mouse pluripotent stem cells - 9/30/2021, \$93.00

ISO/DIS 24651, Biotechnology - Biobanking - Requirements for human mesenchymal stromal cells derived from bone marrow - 10/3/2021, \$88.00

### Building construction (TC 59)

ISO/FDIS 11432, Building and civil engineering sealants - Determination of resistance to compression - 11/4/2021, \$40.00

### Ceramic tile (TC 189)

ISO/DIS 10545-20, Ceramic tiles - Test methods - Part 20: Determination of deflection of ceramic tiles for calculating their radius of curvature - 11/8/2012, \$40.00

### Concrete, reinforced concrete and pre-stressed concrete (TC 71)

ISO/FDIS 21725-1, Simplified design of prestressed concrete bridges - Part 1: I-girder bridges - 11/9/2015, \$155.00

ISO/FDIS 21725-2, Simplified design of prestressed concrete bridges - Part 2: Box-girder bridges - 11/9/2015, \$155.00

### Dentistry (TC 106)

ISO/DIS 22674, Dentistry - Metallic materials for fixed and removable restorations and appliances - 11/9/2011, \$112.00

### Environmental management (TC 207)

ISO/DIS 14015, Environmental management - Guidelines for Environmental Due Diligence Assessment - 10/1/2021, \$93.00

ISO/DIS 14030-3.2, Environmental performance evaluation - Green debt instruments - Part 3: Taxonomy - 11/8/2013, \$175.00

### Industrial fans (TC 117)

ISO/DIS 13349, Fans - Vocabulary and definitions of categories - 11/9/2015, \$112.00

### Information and documentation (TC 46)

ISO/DIS 2789, Information and documentation - International library statistics - 10/3/2021, \$165.00

### Iron ores (TC 102)

ISO/DIS 7992, Iron ores for blast furnace feedstocks - Determination of reduction under load - 10/3/2021, \$58.00

ISO/DIS 11257, Iron ores for shaft direct-reduction feedstocks - Determination of the low-temperature reduction-disintegration index and degree of metallization - 11/8/2012, \$53.00

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

ISO/DIS 5154, Decorative metallic coatings for radio wave transmissive application products - Designation and characterization method - 11/9/2015, \$40.00

ISO/FDIS 24449, Metallic and other inorganic coatings - Determination of thermal conductivity of thermal barrier coatings at elevated temperature - 11/12/2012, \$53.00

**Mining (TC 82)**

ISO/FDIS 21795-1, Mine closure and reclamation planning - Part 1: Requirements - 11/9/2009, \$67.00

ISO/FDIS 21795-2, Mine closure and reclamation planning - Part 2: Guidance - 11/9/2009, \$146.00

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

ISO/FDIS 14881, Integrated optics - Interfaces - Parameters relevant to coupling properties - 11/4/2029, \$53.00

ISO/FDIS 11807-1, Integrated optics - Vocabulary - Part 1: Optical waveguide basic terms and symbols - 11/4/2029, \$62.00

ISO/FDIS 11807-2, Integrated optics - Vocabulary - Part 2: Terms used in classification - 11/4/2029, \$53.00

**Paints and varnishes (TC 35)**

ISO/DIS 8504-4, Preparation of steel substrates before application of paints and related products - Surface preparation methods - Part 4: Acid pickling - 9/30/2021, \$46.00

ISO/DIS 22553-10, Paints and varnishes - Electro-deposition coatings - Part 10: Edge protection - 11/9/2015, \$40.00

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

ISO/DIS 5263-3, Pulps - Laboratory wet disintegration - Part 3: Disintegration of mechanical pulps at > 85°C - 10/4/2021, \$53.00

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

ISO/FDIS 20344, Personal protective equipment - Test methods for footwear - 11/5/2012, \$155.00

**Plastics (TC 61)**

ISO/DIS 5412, Biodegradable plastic shopping bags for industrial composting - 10/3/2021, \$62.00

ISO/DIS 5424, Industrial compostable drinking straws - 10/3/2021, \$53.00

**Railway applications (TC 269)**

ISO/DIS 4975, Railway Applications - Braking system - Quality of compressed air for pneumatic apparatuses and circuits use - 11/8/2013, \$62.00

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

ISO/FDIS 3934, Rubber, vulcanized and thermoplastic - Preformed gaskets used in buildings - Classification, specifications and test methods - 11/6/2024, \$77.00

ISO/DIS 1431-1, Rubber, vulcanized or thermoplastic - Resistance to ozone cracking - Part 1: Static and dynamic strain testing - 11/8/2012, \$82.00

ISO/DIS 24329, Low-protein natural rubber latex concentrate - Specification - 10/1/2021, \$40.00

ISO/FDIS 25518, Single-use rubber gloves for general applications - Specification - 11/6/2024, \$40.00

**Service activities relating to drinking water supply systems and wastewater systems - Quality criteria of the service and performance indicators (TC 224)**

ISO/DIS 24525, Activities relating to drinking water and wastewater services - Guidelines for the management of basic on-site domestic wastewater services - Operation and maintenance activities - 10/1/2021, \$146.00

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

ISO/DIS 26824, Particle characterization of particulate systems - Vocabulary - 11/9/2015, \$93.00

ISO/DIS 20998-2, Measurement and characterization of particles by acoustic methods - Part 2: Guidelines for linear theory - 11/8/2012, \$98.00

**Solid mineral fuels (TC 27)**

ISO/DIS 23380, Coal - Selection of methods for the determination of trace elements - 10/4/2021, \$46.00

**Surface chemical analysis (TC 201)**

ISO/DIS 24465, Surface chemical analysis - Determination of the minimum detectability of Surface Plasmon Resonance device - 11/9/2011, \$58.00

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

ISO/FDIS 11680-1, Machinery for forestry - Safety requirements and testing for pole-mounted powered pruners - Part 1: Machines fitted with an integral combustion engine - 11/3/2017, \$98.00

ISO/FDIS 11680-2, Machinery for forestry - Safety requirements and testing for pole-mounted powered pruners - Part 2: Machines for use with back-pack power source - 11/3/2017, \$46.00

**Traditional Chinese medicine (TC 249)**

ISO/DIS 24571, Traditional Chinese medicine - General requirements for the basic safety and essential performance of electro-acupuncture stimulator - 11/9/2015, \$62.00

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

ISO/DIS 17572-1, Intelligent transport systems (ITS) - Location referencing for geographic databases - Part 1: General requirements and conceptual model - 11/8/2013, \$88.00

**Water efficient products - Rating (TC 316)**

ISO/DIS 31600, Water efficiency labelling programmes - Requirements with guidance for implementation - 11/8/2012, \$134.00

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

ISO/DIS 15614-4, Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 4: Finishing welding of aluminium castings - 10/1/2021, \$71.00

ISO/DIS 15614-6, Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 6: Arc welding of copper and its alloys - 11/11/2012, \$88.00

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

ISO/IEC DIS 20248, Information technology - Automatic identification and data capture techniques - Digital signature data structure schema - 11/9/2015, \$165.00

ISO/IEC DIS 4396-1, Telecommunications and information exchange between systems - Future network recursive inter-network architecture and protocols - Part 1: Reference model - 11/9/2011, \$112.00

ISO/IEC DIS 4396-2, Telecommunications and information exchange between systems - Future network recursive inter-network architecture and protocols - Part 2: Common application connection establishment protocol - 11/9/2011, \$58.00

ISO/IEC DIS 4396-3, Telecommunications and information exchange between systems - Future network recursive inter-network architecture and protocols - Part 3: Common distributed application protocol - 11/9/2011, \$112.00

ISO/IEC DIS 4396-4, Telecommunications and information exchange between systems - Future network recursive inter-network architecture and protocols - Part 4: Flow allocator protocol - 11/9/2011, \$62.00

ISO/IEC DIS 4396-5, Telecommunications and information exchange between systems - Future network recursive inter-network architecture and protocols - Part 5: Error and flow control protocol - 11/9/2011, \$112.00

ISO/IEC DIS 23003-6, Information technology - MPEG audio technologies - Part 6: Unified speech and audio coding reference software - 11/8/2013, \$40.00

ISO/IEC DIS 23090-7, Information technology - Coded representation of immersive media - Part 7: Immersive media metadata - 11/9/2015, \$112.00

ISO/IEC DIS 23092-3, Information technology - Genomic information representation - Part 3: Metadata and application programming interfaces (APIs) - 11/8/2012, \$155.00

ISO/IEC DIS 23092-6, Information technology - Genomic information representation - Part 6: Coding of genomic annotations - 11/9/2015, \$175.00

ISO/IEC DIS 27036-2, Cybersecurity - Supplier relationships - Part 2: Requirements - 10/3/2021, \$107.00

**IEC Standards**

31M/162/CD, ISO/IEC 80079-49 ED1: Flame arresters - Performance requirements, test methods and limits for use, 10/08/2021

65A/1006/CD, IEC TS 61508-3-3 ED1: Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 3-3: Requirements for object-oriented software in safety-related systems, 10/08/2021

99/322/CD, IEC 60071-11 ED1: Insulation co-ordination - Part 11 - Definitions, principles and rules for HVDC system, 09/10/2021

110/1329/CDV, IEC 62977-3-5 ED1: Electronic displays - Part 3-5: Evaluation of optical performance - Colour capabilities, 10/08/2021

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

46F/574(F)/FDIS, IEC 61169-54 ED2: Radio frequency connectors - Part 54: Sectional specification for coaxial connectors with 10 mm inner diameter of outer conductor, nominal characteristic impedance 50 Ohms, Series 4,3-10, 08/06/2021

**Degrees of protection by enclosures (TC 70)**

70/157(F)/FDIS, IEC 62262/AMD1 ED1: Amendment 1 - Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code), 08/13/2021

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

62B/1247/CDV, IEC 60601-2-33 ED4: Medical electrical equipment - Part 2-33: Particular requirements for the basic safety and essential performance of magnetic resonance equipment for medical diagnosis, 10/08/2021

62B/1249/FDIS, IEC 61223-3-7 ED1: Evaluation and routine testing in medical imaging departments - Part 3-7: Acceptance and constancy tests - Imaging performance of X-ray equipment for dental cone beam computed tomography, 08/27/2021

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

48B/2897/CD, IEC 61076-2-115 ED1: Connectors for electrical and electronic equipment - Product requirements - Part 2-115: Circular connectors - Detail specification for 12-pole connectors with 2 A rated current and push-pull locking IP65/IP67 metal housing, 10/08/2021

48B/2898/CD, IEC 61076-8-103 ED1: Connectors for electrical and electronic equipment - Product requirements - Part 8-103: Power connectors - Detail specification for 2P+PE circular connectors with 20 A rated current and push-pull locking IP65/IP67 metal housing, 10/08/2021

48B/2899/CD, IEC 61076-8-104 ED1: Connectors for electrical and electronic equipment - Product requirements - Part 8-104: Power connectors - Detail specification for 2-pole circular connectors with 40 A rated current and push-pull locking IP65/IP67 metal housing, 10/08/2021

48B/2900/CD, IEC 61076-8-105 ED1: Connectors for electrical and electronic equipment - Product requirements - Part 8-105: Power connectors - Detail specification for 2-pole snap locking rectangular power connectors with plastic housing for rated current of 63 A and rated voltage 400V, 10/08/2021

48B/2902/CD, IEC 61076-8-107 ED1: Connectors for electrical and electronic equipment - Product requirements - Part 8-107: Power connectors - Detail specification for 2P 200 A, 1 000 V plus 2P 5 A 50 V rectangular housing shielded connectors with IP65/IP68 degree of protection when mated and locked, and IPXXB when unmated, 10/08/2021

48B/2903/CD, IEC 61076-8-108 ED1: Connectors for electrical and electronic equipment - Product requirements - Part 8-108: Power connectors - Detail specification for 2P 250 A, 1 000 V plus 2P 5 A 50 V rectangular housing shielded connectors with IP65/IP68 degree of protection when mated and locked, and IPXXB when unmated, 10/08/2021

48B/2904/CD, IEC 61076-8-109 ED1: Connectors for electrical and electronic equipment - Product requirements - Part 8-109: Power connectors - Detail specification for 2P 130 A, 1 000 V plus 2P 5 A 50 V rectangular housing shielded connectors with IP65/IP68 degree of protection when mated and locked, and IPXXB when unmated, 10/08/2021

48B/2906/CD, IEC 61076-8-106 ED1: Connectors for electrical and electronic equipment - Product requirements - Part 8-106: Power connectors - Detail specification for 2-poles push-pull coupling rectangular connectors with fuses, for rated voltage of 400 V DC and rated current of 16 A, 10/08/2021

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

86B/4472/CDV, IEC 61300-3-33 ED3: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-33: Examinations and measurements - Withdrawal force from a resilient alignment sleeve using pin gauges, 10/08/2021

86B/4497/FDIS, IEC 61753-101-03 ED1: Fibre optic interconnecting devices and passive components performance standard - Part 101-03: Fibre management systems for category OP - Outdoor protected environment, 08/27/2021

86B/4498/CD, IEC 61753-021-02 ED3: Fibre optic interconnecting devices and passive components - Performance standard - Part 021-02: Single-mode fibre optic connectors terminated as pigtailed and patchcords for category C - Controlled environment, 09/10/2021

86B/4499/CD, IEC 61753-021-06 ED2: Fibre optic interconnecting devices and passive components - Performance standard - Part 021-06: Single-mode fibre optic connectors terminated as pigtailed and patchcords for category OP+ - Extended outdoor protected environment, 09/10/2021

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

105/865/CD, IEC 62282-4-102 ED2: Fuel cell technologies - Part 4 -102: Fuel cell power systems for propulsion other than road vehicles and auxiliary power units (APU) - Fuel cell power systems for electrically powered industrial trucks - Performance test methods, 10/08/2021

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

65B/1200/CD, IEC TR 63153 ED1: Sampling and Conditioning LNG for Continuous Analysis, 10/08/2021

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

36/530/NP, PNW TS 36-530 ED1: Artificial pollution tests on high-voltage insulators made of hydrophobicity transfer materials to be used on a.c. and d.c. systems, 09/10/2021

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

34A/2241(F)/FDIS, IEC 62922/AMD1 ED1: Amendment 1 - Organic light emitting diode (OLED) panels for general lighting - Performance requirements, 07/30/2021

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

59/772/CD, IEC 62849 ED2: Performance evaluation methods of robots for household and similar use, 10/08/2021

59/773/CD, IEC 63086-2-1 ED1: Household and similar electrical air cleaning appliances - Methods for measuring the performance - Part 2-1: Particular requirements for determination of reduction of particles, 10/08/2021

### **Power capacitors (TC 33)**

33/660(F)/FDIS, IEC 60143-2/AMD1 ED2: Amendment 1 - Series capacitors for power systems - Part 2: Protective equipment for series capacitor banks, 08/06/2021

### **Power electronics (TC 22)**

22F/640/CD, IEC 60700-3 ED1: Thyristor valves for high voltage direct current (HVDC) power transmission - Part 3: Essential ratings (limiting values) and characteristics, 09/10/2021

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

116/516/CDV, IEC 60335-2-107/AMD2 ED2: Amendment 2 - Household and similar electrical appliances - Safety - Part 2-107: Particular requirements for robotic battery powered electrical lawnmowers, 10/08/2021

116/519(F)/FDIS, IEC 62841-2-1/AMD1 ED1: Amendment 1 - Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-1: Particular requirements for hand-held drills and impact drills, 08/13/2021

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

82/1928/NP, PNW 82-1928 ED1: Photovoltaic power generating systems connection with grid - Conformity assessment for power conversion equipment - Part 1: Overall description of conformity assessment for grid connection, 08/13/2021

82/1929/NP, PNW 82-1929 ED1: Photovoltaic power generating systems connection with grid - Conformity assessment for power conversion equipment - Part 4: Interface protection and fault ride through, 08/13/2021

82/1930/NP, PNW 82-1930 ED1: Photovoltaic power generating systems connection with grid - Conformity assessment for power conversion equipment - Part 6: Power control functions and grid support, 08/13/2021

**Standard voltages, current ratings and frequencies (TC 8)**

8A/88/CD, IEC TR 63401-2 ED1: Sub- and Super-synchronous Control Interactions, 09/10/2021

8A/89/CD, IEC TR 63401-4 ED1: Behaviour of Inverter-Based Resources in Response to Bulk Grid Faults, 09/10/2021

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

121B/142/CD, IEC 61439-4 ED2: Low-voltage switchgear and controlgear assemblies - Part 4: Particular requirements for assemblies for construction sites (ACS), 10/08/2021

121B/143/CD, IEC 61439-5 ED3: Low-voltage switchgear and controlgear assemblies - Part 5: Assemblies for power distribution in public networks, 10/08/2021

**Transmitting equipment for radio communication (TC 103)**

103/220/CD, IEC 63098-4 ED1: Transmitting equipment for radiocommunication - Radio-over-fibre technologies and their performance standard - Part 4: Radio-over- fibre based indoor DAS (distributed antenna system) for 5G, 10/08/2021



# Newly Published ISO & IEC Standards

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

## ISO Standards

### Aircraft and space vehicles (TC 20)

[ISO 24568:2021](#), Aerospace - Metric series pipe coupling 8°30 up to 28 000 kPa dynamic beam seal - Technical specification, \$149.00

### Anaesthetic and respiratory equipment (TC 121)

[ISO 80601-2-74:2021](#), Medical electrical equipment - Part 2-74: Particular requirements for basic safety and essential performance of respiratory humidifying equipment, \$250.00

### Building construction (TC 59)

[ISO 10845-3:2021](#), Construction procurement - Part 3: Standard conditions of tender, \$225.00

### Building construction machinery and equipment (TC 195)

[ISO 15878:2021](#), Road construction and maintenance equipment - Paver-finishers - Commercial specifications, \$175.00

### Environmental management (TC 207)

[ISO 14021/Amd1:2021](#), Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) - Amendment 1: Carbon footprint, carbon neutral, \$20.00

### Industrial trucks (TC 110)

[ISO 3691-6:2021](#), Industrial trucks - Safety requirements and verification - Part 6: Burden and personnel carriers, \$149.00

### Mechanical testing of metals (TC 164)

[ISO 16842:2021](#), Metallic materials - Sheet and strip - Biaxial tensile testing method using a cruciform test piece, \$149.00

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

[ISO 23157:2021](#), Determination of the silanol group content on the surface of fumed silica - Reaction gas chromatographic method, \$73.00

### Rubber and rubber products (TC 45)

[ISO 3011:2021](#), Rubber- or plastics-coated fabrics - Determination of resistance to ozone cracking under static conditions, \$48.00

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

[ISO 20947-1:2021](#), Performance evaluation protocol for digital fitting systems - Part 1: Accuracy of virtual human body representation, \$200.00

### Steel (TC 17)

[ISO 15349-2:2021](#), Unalloyed steel - Determination of low carbon content - Part 2: Infrared absorption method after combustion in an induction furnace (with preheating), \$111.00

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

[ISO 4254-1/Amd1:2021](#), Agricultural machinery - Safety - Part 1: General requirements - Amendment 1, \$20.00

[ISO 8210:2021](#), Equipment for harvesting - Combine harvesters - Test procedure and performance assessment, \$149.00

[ISO 10448:2021](#), Agricultural tractors - Hydraulic pressure for implements, \$48.00

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

[ISO 3739-2:2021](#), Industrial tyres and rims - Part 2: Pneumatic tyres (metric series) on 5 degrees tapered or flat base rims - Load ratings, \$48.00

### Water quality (TC 147)

[ISO 13160:2021](#), Water quality - Strontium 90 and strontium 89 - Test methods using liquid scintillation counting or proportional counting, \$200.00

## ISO Technical Reports

### Agricultural food products (TC 34)

[ISO/TR 29263:2021](#), Cereals and cereal products - Sampling studies, \$250.00

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

[ISO/TR 21582:2021](#), Pyrogenicity - Principles and methods for pyrogen testing of medical devices, \$111.00

## **Nanotechnologies (TC 229)**

[ISO/TR 22293:2021](#), Evaluation of methods for assessing the release of nanomaterials from commercial, nanomaterial-containing polymer composites, \$225.00

## **ISO Technical Specifications**

### **Earth-moving machinery (TC 127)**

[ISO/TS 21815-2:2021](#), Earth-moving machinery - Collision warning and avoidance - Part 2: On-board J1939 communication interface, \$250.00

### **Road vehicles (TC 22)**

[ISO/TS 21002:2021](#), Road vehicles - Multidimensional measurement and coordinate systems definition, \$225.00

## **ISO/IEC JTC 1 Technical Reports**

[ISO/IEC TR 29119-6:2021](#), Software and systems engineering - Software testing - Part 6: Guidelines for the use of ISO/IEC/IEEE 29119 (all parts) in agile projects, \$200.00

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

[ISO/IEC 23008-2/Amd1:2021](#), Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 2: High efficiency video coding - Amendment 1: Shutter interval information SEI message, \$20.00

## **IEC Standards**

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

[IEC 61724-1 Ed. 2.0 b:2021](#), Photovoltaic system performance - Part 1: Monitoring, \$392.00

[S+ IEC 61724-1 Ed. 2.0 en:2021 \(Redline version\)](#), Photovoltaic system performance - Part 1: Monitoring, \$510.00



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

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### Approval of Accreditation – U.S. TAG to ISO

#### TC 153, Valves

Effective July 16, 2021

ANSI's Executive Standards Council (ExSC) has formally approved the accreditation of the U.S. Technical Advisory Group to **ISO TC 153, Valves** and the appointment of the Manufacturers Standardization Society of the Valves and Fittings Industry, Inc. (MSS) as TAG Administrator, effective **July 16, 2021**. The TAG will operate under 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. For additional information, please contact: Ms. Kaley Garubba, Manufacturers Standardization Society of the Valves and Fittings Industry, Inc., 127 Park Street, NE, Vienna, VA 22180; phone: (703) 281.6613; email: standards@msshq.org.

# International Electrotechnical Commission (IEC)

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## USNC Participants and USNC TAG Administrator Needed

### IEC Subcommittee (SC) 59N: Electrical Air Cleaners for Household and Similar Purposes

Response Deadline: August 6, 2021

**IEC approved one (1) new Committee:** *IEC Subcommittee (SC) 59N: Electrical air cleaners for household and similar purposes*

Individuals who are interested in becoming a USNC Technical Advisory Group (TAG) participant or the USNC TAG Administrator for the USNC TAG to IEC/SC 59N: Electrical air cleaners for household and similar purposes are invited to contact Ade Gladstein at [agladstein@ansi.org](mailto:agladstein@ansi.org) by **COB on Friday, August 6**.

Please see the scope for IEC/SC 59N below:

#### Scope

- *To prepare international standards on performance measurement methods for electrical air cleaners for household and similar purposes.*
- *NOTE 1: Cooking fume extractors are covered by SC 59K.*
- *NOTE 2: Health care equipment is under the scope of IEC TC 62 (Electrical equipment in medical practice).*

# International Organization for Standardization (ISO)

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## International (ISO) Secretariat Transfer

### ISO TC 104 - Freight Containers

**Reply Deadline: August 6, 2021**

Currently, the U.S. holds a leadership position as Secretariat of ISO/TC 104–*Freight Containers*. ANSI directly administers the Secretariat for ISO/TC 104 with the support of MHI. MHI has advised ANSI to relinquish its role as Secretariat for this committee beginning in 2022. Outreach was conducted within the current US/TAG membership and Emerson, a US/TAG member, has indicated its commitment to continue to fund ANSI for its role in directly administering the Secretariat. The US/TAG has approved this transfer from MHI to Emerson.

ISO/TC 104 operates under the following scope:

*Standardization of freight containers, having an external volume of one cubic meter (35.3 cubic feet) and greater, as regards terminology, classification, dimensions, specifications, handling, test methods and marking.*

Organizations wishing to comment on the delegation of the responsibilities should contact ANSI's ISO Team ([isot@ansi.org](mailto:isot@ansi.org)).

## Transfer of TAG Administrator – U.S. TAG to ISO

### ISO/TC 104 - Freight Containers, ISO/TC 104/SC 1 - General Purpose Containers, ISO/TC 104/SC 4 - Identification and Communication

**Reply Deadline: August 6, 2021**

ANSI has been informed that MHI, the ANSI-accredited U.S. TAG Administrator for ISO/TC 104, ISO/TC 104/SC 1, ISO/TC 104/SC 2, and ISO/TC 104/SC4, wishes to relinquish their role as U.S. TAG Administrator effective December 31, 2021. Emerson, current US/TAG member, has committed to taking on the role as US/TAG Administrator beginning on January 1, 2022. The US/TAG has approved this transfer.

ISO/TC 104 and its SCs operate under the following scope:

*Standardization of freight containers, having an external volume of one cubic meter (35.3 cubic feet) and greater, as regards terminology, classification, dimensions, specifications, handling, test methods and marking.*

Organizations wishing to comment on the transfer of US/TAG Administrators from MHI to Emerson 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

### FiRa

**Public Review: June 25 through September 27, 2021**

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 e  
to ANSI/ASHRAE Standard 188-2021**

**Public Review Draft**

**Proposed Addendum e to  
Standard 188-2021, Legionellosis:  
Risk Management for Building  
Water Systems**

**Second Public Review (August 2021)  
(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 e to ANSI/ASHRAE Standard 188-2021, *Legionellosis: Risk Management for Building Water Systems*  
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

*This addendum adds a new Normative Annex B regarding minimum requirements when Legionella testing is chosen by the Program Team, and renames the current Informative Annex B, "Bibliography," to Informative Annex C, "Bibliography."*

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

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***Modify Informative Annex B as shown. The remainder of the annex remains unchanged.***

### INFORMATIVE ANNEX ~~BC~~—BIBLIOGRAPHY

***Rename current Informative Annex C to new Normative Annex B. Modify new Normative Annex B as shown.***

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

### ~~INFORMATIVE NORMATIVE ANNEX ~~CB~~—GUIDANCE IF *LEGIONELLA* TESTING IS UTILIZED IN THE ABSENCE OF SUSPECTED OR CONFIRMED FACILITY-ASSOCIATED DISEASE~~

~~When testing of environmental water samples is utilized, it should be performed by a laboratory with demonstrated proficiency in the subject method, such as may be evidenced by certification by a national, regional, or local government agency or by an accredited nongovernmental organization (NGO).~~

~~Laboratories performing routine microbiological testing of environmental water samples should be accredited by a regional, national, or international accrediting body according to a nationally or internationally recognized standard, for example ISO/IEC 17025:2017, *General Requirements for the Competence of Testing and Calibration Laboratories*, or similar. *Legionella* testing should be included in the laboratory's scope of accreditation.~~

~~In the case of suspected or confirmed facility-associated disease, consult the AHI.~~

**Laboratory Testing Used to Validate the Program.** ~~If the Program Team determines that laboratory testing for *Legionella* will be used to validate the Program, laboratories performing the testing must be accredited by a regional, national, or international accrediting body according to ISO/IEC 17025, *General Requirements for the Competence of Testing and Calibration Laboratories*, or another nationally or internationally recognized laboratory accreditation standard, and:~~

- ~~a. the laboratory must demonstrate competence to an accreditation body,~~
- ~~b. the *Legionella* test method used must be included in the laboratory's scope of accreditation, and~~
- ~~c. must include at least an annual *Legionella* Proficiency Test sample acceptable to the accreditation body.~~

BSR/ASHRAE Addendum e to ANSI/ASHRAE Standard 188-2021, *Legionellosis: Risk Management for Building Water Systems*  
Second Public Review Draft

**Informative Note:** It is important to understand the characteristics of the *Legionella* test method utilized, such as, but not limited to, sensitivity, limit of detection, and specificity. In the case of suspected or confirmed facility-associated disease, consult the *AHJ* for response and testing requirements. For additional guidance about *Legionella* testing, refer to ASHRAE Guideline 12, *Managing the Risk of Legionellosis Associated with Building Water Systems*.

If a choice is made to test for *Legionella*:

1. **Laboratory Testing:**
  - a. the laboratory shall have the capability to meet the testing requirements established by the user, and
  - b. the laboratory shall be accredited by a regional, national, or international accrediting body to a nationally or internationally recognized standard that, at a minimum, requires the use of revision controlled standard operating procedures for testing, documentation of the performance of the characteristics of tests, periodic proficiency testing, and periodic independent audits verifying compliance, such as to ISO/IEC 17025, and *Legionella* testing shall be included in the laboratory's scope of accreditation.
2. **Non-Laboratory Testing.** The provider shall supply the user with documentation or evidence that the performance characteristics of the method of testing for *Legionella* has been validated to a recognized consensus standard, such as those available from ISO, ASTM, and Standard Methods for *Legionella*, by a qualified, independent third party.



Tracking number 14i117r1  
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Revision to NSF/ANSI 14-2020  
Issue 117 Revision 1 (July 2021)

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NSF/ANSI Standard  
for Plastics —

## Plastics piping system components and related materials

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### 9 Quality Assurance

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**Table 9.12**  
**Fittings for PE and PEX tubing test frequency**

Test	Insert fittings PE pipe	Electro- fusion PE fittings	Butt heat fusion PE fittings	Fittings for PEX tubing	Socket-type PE fittings
burst pressure	weekly	weekly	—	weekly <sup>1</sup>	—
Dimensions					
barb length	weekly	—	—	—	—
insert OD	weekly	—	—	weekly	—
body wall thickness	—	—	—	weekly	—
insert length	weekly	—	—	weekly	—
inside diameter	—	24 h	24 h	24 h	24 h
outside diameter	—	—	24 h	—	—
socket bottom <sup>2</sup>	—	—	—	—	24 h
socket depth <sup>2,7</sup>	—	—	—	—	24 h
socket entrance <sup>2</sup>	—	—	—	—	24 h
socket wall thickness	—	—	—	—	—
thread gauge	24 h	—	—	24 h	—
thread length <sup>6,7</sup>	(see footnotes 6, 7)	—	—	(see footnotes 6, 7)	—
wall thickness (insert)	24 h	24 h	24 h	24 h	—
all other required insert dimensions	—	—	—	weekly	—

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Revision to NSF/ANSI 14-2020  
Issue 117 Revision 1 (July 2021)

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**Table 9.12**  
**Fittings for PE and PEX tubing test frequency**

Test	Insert fittings PE pipe	Electro- fusion PE fittings	Butt heat fusion PE fittings	Fittings for PEX tubing	Socket-type PE fittings
excessive temperature and pressure capability	—	—	—	annually	—
impact <sup>3</sup>	—	weekly <sup>3</sup>	—	—	—
joint crush	—	weekly	—	—	—
pull-out strength	—	—	—	annually <sup>8</sup>	—
short term rupture strength <sup>4</sup>	—	—	weekly	—	weekly
short term strength <sup>5</sup>	—	—	weekly	—	—
sustained pressure	—	annually	annually	annually	annually
tensile	—	weekly qualification	—	—	—
thermocycling	—	—	—	annually	—
product standard(s)	ASTM D2609	ASTM F1055	ASTM D3261	ASTM F877, ASTM F1807, ASTM F1960, CSA B137.5, ASTM F2080, ASTM F2098, ASTM 2159, ASTM F3253, ASTM F3347, ASTM F3348	ASTM D2683

<sup>1</sup> Metal fittings, polysulfone, polyphenylsulfone or polysulfone / polyphenylsulfone blends need only be tested annually for burst pressure.

<sup>2</sup> Plug gauges are permitted, provided that the mold has been qualified by complete dimensioning and performance of appropriate testing on all products from all mold cavities to verify compliance with the referenced Standard.

<sup>3</sup> Applies only to tapping saddles.

<sup>4</sup> Applies to fittings 2 to 12 in and 90 mm to 315 mm nominal diameter.

<sup>5</sup> Applies to form fittings 14 to 48 in and 355 mm to 1,600 mm nominal diameter.

<sup>6</sup> Applies only to molded fittings.

<sup>7</sup> Socket depth and thread length are only required to be verified at the time a new tool is “qualified” or when new or repaired cores are made.

<sup>8</sup> This requirement applies only to products produced under ASTM F3253.

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## NSF/ANSI International Standard for Biosafety Cabinetry —

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

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#### Informative Annex 2 (formerly Annex G)

*The information contained in this Annex is not part of this American National Standard (ANS) and has not been processed in accordance with ANSI's requirements for an ANS. Therefore, this Annex may contain material that has not been subjected to public review or a consensus process. In addition, it does not contain requirements necessary for conformance to this Standard.*

Generation of any gas or vapor used to decontaminate a BSC should be done in a safe manner to limit exposure to personnel and to the environment. A safe manner should include instructions and equipment necessary to safely stop the generation of gas or vapor, and neutralize or remove the gas or vapor to limit exposure.

#### I-2.1 Recommended biosafety cabinet decontamination procedure

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##### I-2.1.4 Decontamination methodologies

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##### I-2.1.4.1 Paraformaldehyde

CAUTION — All sources of hydrogen chloride must be removed from the cabinet before decontamination. Hydrogen chloride in the presence of formaldehyde, at ambient air conditions, will form the carcinogen Bis(chloromethyl)ether (BCME).<sup>1</sup>

- a) Calculate the total volume of the cabinet by multiplying the height, width, and depth.
- b) Multiply the total volume of the cabinet by 0.30 g/ft<sup>3</sup> (11 g/m<sup>3</sup>) of space to determine the gram weight of paraformaldehyde required [CHECK CONCENTRATION]. Determine the stoichiometric amount of  $\text{NH}_4\text{HCO}_3$  Ammonium Carbonate  $[(\text{NH}_4)_2\text{CO}_3]$  or alternative to neutralize the resulting formaldehyde gas with ammonia gas. The ammonium carbonate should be weighed out so that it is

<sup>1</sup>NIOSH, Department of Health and Human Services (DHHS), *Hazard Review of Bis(chloromethyl)ether (BCME)*.

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10% greater than the weight of paraformaldehyde used for the decontamination to ensure completion of the reaction.

- c) Follow Section I-2.1.3.3.1 to seal the cabinet exhaust opening.
- d) Place a heating device, such as a commercially available electric frying pan or a remote formaldehyde generator / neutralizer, with the thermostat set at 450 to 475 °F (232 to 246 °C), on the work tray. The paraformaldehyde is spread evenly over the heating surface of the heating device.

NOTE — The auto-ignition temperature of paraformaldehyde is 572 °F (300 °C).

- e) Place an additional heating device on the work tray for the neutralizing agent. The neutralizing agent ( $\text{NH}_4\text{HCO}_3$  Ammonium Carbonate  $[(\text{NH}_4)_2\text{CO}_3]$  or equivalent) should be separated from the air in the cabinet until needed. Below are two examples of how this separation could be achieved.

— example 1: The  $\text{NH}_4\text{HCO}_3$  Ammonium Carbonate  $[(\text{NH}_4)_2\text{CO}_3]$  or equivalent alternative is spread evenly over the heating surface of the heating device. The top of the device is covered with aluminum foil in such a way as to prevent the  $\text{NH}_4\text{HCO}_3$  Ammonium Carbonate  $[(\text{NH}_4)_2\text{CO}_3]$  or alternative from reacting with the formaldehyde during the decontamination. The aluminum foil can be placed to allow the escape of ammonia gas when heated, or provision can be made to remove the aluminum foil remotely at the start of the neutralization phase. The removal technique must not allow unsafe levels of formaldehyde to escape the cabinet.

— example 2: The cabinet is sealed using plastic with gloves as an integral part of the sheet of plastic. The  $\text{NH}_4\text{HCO}_3$  Ammonium Carbonate  $[(\text{NH}_4)_2\text{CO}_3]$  or equivalent alternative is placed in a sealed container inside the cabinet. At the neutralization phase, the person performing the decontamination reaches into the cabinet without breaking the seal by using the gloves. The  $\text{NH}_4\text{HCO}_3$  Ammonium Carbonate  $[(\text{NH}_4)_2\text{CO}_3]$  or equivalent alternative is removed from the sealed container and spread evenly over the heating surface of the heating device. The heating device is energized and the  $\text{NH}_4\text{HCO}_3$  Ammonium Carbonate  $[(\text{NH}_4)_2\text{CO}_3]$  or equivalent alternative is heated and releases ammonia.

- f) Place a hot plate, a beaker of water, and temperature and humidity indicators on the cabinet work tray. Do not connect electrical cords to the internal cabinet electric supply.
- g) Close the opening to the total work area with heavy gauge plastic film and tape. Close all possible leak areas, such as the exit of electrical cords, around the sash and the junction of the plastic film and cabinet.
- h) Determine the temperature and humidity inside the cabinet.
- i) The temperature should be 70 °F (21 °C) or higher, and humidity should be 60 to 85%. Use the hot plate to heat the beaker of water until the desired temperature and humidity are achieved.
- j) Prior to depolymerizing the formaldehyde, access to the area or room around the cabinet must be restricted in accordance with applicable federal and state regulation and prudent safety practice. OSHA's Standard on Occupational Exposure to Formaldehyde requires that areas where the airborne concentration of formaldehyde exceeds the Permissible Exposure Limits be established as a regulated area with signs and labels marking the area and access restricted to properly trained personnel. Applicable regulations must be reviewed and complied with.
- k) Plug the cord of the heating device into an outlet not installed on the cabinet.

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- l) After 25% of the paraformaldehyde has depolymerized, turn on the cabinet blower(s) for 10 to 15 seconds. Repeat after 50%, 75%, and 100% of the paraformaldehyde has depolymerized.<sup>2</sup> In cases where the cabinet blower is inoperative, circulation of air within the cabinet should be promoted with additional blowers or fans, or the time of decontamination should be extended beyond the times suggested in step p below.
- m) Disconnect the hot plate and heating device used for the paraformaldehyde from the electrical outlets.
- n) Allow the cabinet to stand for a minimum of 6 hours, preferably overnight (12 hours).
- o) Prepare the neutralizing agent as previously established in step g) and energize the heating device containing the  $\text{NH}_4\text{HCO}_3$  Ammonium Carbonate  $[(\text{NH}_4)_2\text{CO}_3]$  and the cabinet blower until the  $\text{NH}_4\text{HCO}_3$  Ammonium Carbonate  $[(\text{NH}_4)_2\text{CO}_3]$  has dissipated. As with the paraformaldehyde, after 25% of the  $\text{NH}_4\text{HCO}_3$  Ammonium Carbonate  $[(\text{NH}_4)_2\text{CO}_3]$  has depolymerized, turn on the cabinet blower(s) for 10 to 15 seconds. In cases where the cabinet blower is inoperative, circulation of air within the cabinet should be promoted with additional blowers or fans or the time of neutralization should be extended to a minimum of 6 hours.
- p) Let the cabinet stand for at least 1 hour before opening seals.
- q) If a flexible hose has been provided for the evacuation of the neutralized formaldehyde, slit the plastic covering the exhaust opening of the cabinet and seal the flexible hose to the opening. If the hose is working properly, the plastic covering the front opening of the cabinet should be sucked in. One or two small openings (approximately 6 × 6 in [15 × 15 cm]) are cut into the plastic covering the front opening of the cabinet to allow fresh air to enter the cabinet while the neutralized formaldehyde is being drawn out of the hose at the exhaust opening of the cabinet.

NOTE — Alternate removal procedures are acceptable if they allow for safe and effective removal of the formaldehyde gas.<sup>3</sup>

*Rationale: the chemical formula  $\text{NH}_4\text{HCO}_3$  is for Ammonium Bicarbonate, and the product which should be referenced is Ammonium Carbonate, which has a chemical formula of  $[(\text{NH}_4)_2\text{CO}_3]$ .*

<sup>2</sup> Modification by Kruse, R. H., Puckett, W. H. and Richardson, J. H., 1991 "Biological Safety Cabinetry" Clinical Microbiological Review 4:207-241.

<sup>3</sup> Fink, D., Israeli, E., Liberman, D., Lupo, D., Murphy, K., 1988. "Biological Safety Cabinets, Decontamination or Sterilization with Paraformaldehyde" Am. Ind. Hyg. Assoc. J. 49 (6): 277-279.

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NSF/ANSI Standard  
for GMP for Dietary Supplements –

# Good Manufacturing Practices for Dietary Supplements

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## 5 Audit process

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### 5.4 Audit planning

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#### 5.4.2 Dietary supplement cGMP audit – Guidelines for determining audit duration

A dietary supplement cGMP audit shall consist of administrative activities and audit time at the facility.

— administrative activities include preparing the audit plan, generating audit forms, and finalizing the audit documents; and

— the audit time at the facility consists of (fairly) standard audit times for reviewing support systems such as personnel, training, maintenance, laboratories, internal audit process, and recall, and a variable portion of time auditing the plant / facility operation. The variable portion depends upon the number and complexity of the product technologies employed in the plant / facility and the number of product categories produced. However, a product technology may be used to manufacture a number of different types of product categories. For example, if a manufacturing technology is utilized for more than one type of product the audit of that technology for one type of product may be sufficient for certification purposes.

The CB determines the audit duration and number of auditors. The audit plan typically calls for a single auditor. Additional auditors may participate in the case of (1) very large facilities (2) shadowing / training purposes, or (3) a re-audit of antagonistic, challenging, or recalcitrant auditee.

~~Two types of audits are conducted: certification audits and monitoring audits.~~

**Audit duration is dependent** ~~A certification audit is generally completed in two days, but may be more or less depending upon the size of the facility and the complexity of the product categories and technologies. The two day audit is based on a dietary supplement manufacturer with up to five product categories, and up to three technologies conducted in a single facility. The base case assumes that water is a raw material ingredient, and that one or more materials or products require micro quality testing.~~

Larger facilities with multiple buildings, more than five product categories, and more than three technologies may require additional audit time, or multiple auditors, or both.

Tracking number 455-2i26r1  
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Revision to NSF/ANSI 455-2-2020  
Issue 26 Revision 1 (July 2021)

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Facilities with a specialized, limited product may be audited in one day. Examples of this type of facility include ~~raw material ingredient supplier, packaging component supplier,~~ and a manufacturer of a nonaqueous, nonmicrobially sensitive dietary supplement product.

Table 5.1 below presents guidelines for the minimum length of the certification audit and number of auditors for various plant / facility types:

**Table 5.1  
Guidelines for audit duration**

<b>Facility size:</b>	<b>Raw / packaging material</b>	<b>Specialized</b>	<b>Standard</b>	<b>Large</b>
product categories	single	single, multiple flavors	up to five	more than five
technologies	single	single	up to three	four or more
Facility buildings	single	single	single	one to three
shifts	up to three	single or part time	up to three	up to three
days of operation	five or less	five or less	up to seven	up to seven
water as an ingredient	yes or no	no	yes	yes
microquality testing	yes or no	no	yes	yes
number of auditors	one	one	one	two
audit days	one	one	two	two to three

The audit duration and resource requirement may be adjusted based on knowledge of the manufacturer and its operation, regulatory history, and focus of the audit.

A monitoring audit may be conducted to assess progress against corrective actions and to verify completion of corrective actions. The duration of the audit is determined by the CB, based on the number and severity of the nonconformances and the related corrective actions.

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NSF/ANSI Standard  
for GMP for Cosmetics –

## Good Manufacturing Practices for Cosmetics

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### 5 Audit process

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#### 5.4 Audit planning

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##### 5.4.2 Cosmetic cGMP audit – guidelines for determining audit duration

A cosmetics cGMP audit consists of administrative activities and audit time at the facility:

- administrative activities include preparing the audit plan, generating audit forms, and finalizing the audit documents; and
- the audit time at the facility consists of (fairly) standard audit times for reviewing support systems such as personnel, training, maintenance, laboratories, internal audit process, and recall, and a variable portion of time auditing the plant/facility operation. The variable portion depends upon the number and complexity of the product technologies employed in the plant / facility and the number of product categories produced. However, a product technology may be used to manufacture a number of different types of product categories. For example, if a manufacturing technology is utilized for more than one type of product the audit of that technology for one type of product may be sufficient for certification purposes.

The CB determines the audit duration and number of auditors. The audit plan typically calls for a single auditor. Additional auditors may participate in the case of (1) very large facilities, (2) shadowing / training purposes, or (3) a re-audit of an antagonistic, challenging, or recalcitrant auditee.

~~Two types of audits are conducted: certification audits and monitoring audits.~~

**Audit duration is dependent** ~~A certification audit is generally completed in two days, but may be more or less depending~~ upon the size of the facility and the complexity of the product categories and technologies. The two day audit is based on a cosmetics manufacturer with up to five product categories, and up to three technologies conducted in a single facility. The base case assumes that water is a raw material ingredient, and that one or more materials or products require micro quality testing.



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Larger facilities with multiple buildings, more than five product categories, and more than three technologies may require additional audit time, or multiple auditors, or both.

Facilities with a specialized, limited product may be audited in one day. Examples of this type of facility include ~~raw material ingredient supplier, packaging component supplier,~~ and a manufacturer of a nonaqueous, nonmicrobially sensitive cosmetic product.

Table 5.1 below presents guidelines for the minimum length of the certification audit and number of auditors for various plant / facility types:

**Table 5.1  
Guidelines for audit duration**

<b>Facility size:</b>	<b>Raw / packaging material</b>	<b>Specialized</b>	<b>Standard</b>	<b>Large</b>
product categories	single	single, multiple flavors	up to five	more than five
technologies	single	single	up to three	four or more
facility buildings	single	single	single	one to three
shifts	up to three	single or part time	up to three	upto three
days of operation	five or less	five or less	up to seven	up to seven
water as an ingredient	yes or no	no	yes	yes
microquality testing	yes or no	no	yes	yes
number of auditors	one	one	one	two
audit days	one	one	two	two to three

The audit duration and resource requirement may be adjusted based on knowledge of the manufacturer and its operation, regulatory history, and focus of the audit.

A monitoring audit may be conducted to assess progress against corrective actions and to verify completion of corrective actions. The duration of the audit is determined by the CB, based on the number and severity of the nonconformances and the related corrective actions.

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NSF/ANSI Standard  
for GMP for Over-the-Counter Drugs –

# Good Manufacturing Practices for Over-the-Counter Drugs

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## 5 Audit process

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### 5.4 Audit planning

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#### 5.4.2 OTC drug cGMP audit – guidelines for determining audit duration

An OTC drug cGMP audit consists of administrative activities and audit time at the facility:

- administrative activities include preparing the audit plan, generating audit forms, and finalizing the audit documents; and
- the audit time at the facility consists of (fairly) standard audit times for reviewing support systems such as personnel, training, maintenance, laboratories, internal audit process, and recall, and a variable portion of time auditing the plant / facility operation. The variable portion depends upon the number and complexity of the product technologies employed in the plant / facility and the number of product categories produced. However, a product technology may be used to manufacture a number of different types of product categories. For example, if a manufacturing technology is utilized for more than one type of product the audit of that technology for one type of product may be sufficient for certification purposes.

The CB determines the audit duration and number of auditors. The audit plan typically calls for a single auditor. Additional auditors may participate in the case of (1) very large facilities, (2) shadowing / training purposes, or (3) a re-audit of an antagonistic, challenging, or recalcitrant auditee.

~~Two types of audits are conducted: certification audits and monitoring audits.~~

Audit duration is dependent ~~A certification audit is generally completed in three days but may be more or less depending~~ upon the size of the facility and the complexity of the product categories and technologies. The three-day audit is based on an OTC drug manufacturer with up to five product categories, and up to three technologies conducted in a single facility. The base case assumes that water is a raw material ingredient, and that one or more materials or products require micro quality testing.

Larger facilities with multiple buildings, more than five product categories, and more than three technologies may require additional audit time, or multiple auditors, or both.

Tracking number 455-4i39r1  
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Revision to NSF/ANSI 455-4-2020  
Issue 39 Revision 1 (July 2021)

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Facilities with a specialized, limited product may be audited in one day. Examples of this type of facility include ~~raw material ingredient supplier, packaging component supplier,~~ and a manufacturer of a nonaqueous, nonmicrobially sensitive OTC drug product.

Table 5.1 below presents guidelines for the minimum length of the certification audit and number of auditors for various plant / facility types:

**Table 5.1  
Guidelines for audit duration**

<b>Audit type</b>	<b>Elements covered</b>	<b>Manufacturing w/ packaging</b>	<b>Packaging</b>	<b>Distribution</b>
certification audit	all applicable elements of 21 CFR Parts 210 & 211, US FDA Guidance, and ICH 10	NLT 3 person days	NLT 2 person days	NLT 1 person day
monitoring audit	as appropriate	as needed	as needed	as needed

The audit duration and resource requirement may be adjusted based on knowledge of the manufacturer and its operation, regulatory history, and focus of the audit.

A monitoring audit may be conducted to assess progress against corrective actions and to verify completion of corrective actions. The duration of the audit is determined by the CB based on the number and severity of the nonconformances and the related corrective actions.

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

## NSF/ANSI Standard

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

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

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## 26 Interactive waterplay venue surfacing systems

### 26.1 Scope

The purpose of this section is to specify the evaluation and testing criteria of surfacing systems **other than concrete or asphalt, when used in recreational water facilities**. These evaluation and testing requirements will enable the appropriate assessment of a safety surfacing system for interactive waterplay venues. These evaluation and testing requirements pertain only to the surface on grade / ground level.

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NSF/ANSI Standard  
 for Drinking Water Additives –

Drinking Water System Components –  
 Health Effects

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**4 Pipes and related products**

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**Table 4.2**  
**Single time point exposure schedule**

Exposure time	Elapsed time <sup>1</sup>	Comment
24 ± 1 h (optional)	15 d (optional)	Extraction water is decanted and discarded; the exposure vessel or product is refilled with exposure water and exposure is continued.
24 ± 1 h (optional)	16 d (optional)	Extraction water is decanted and discarded; the exposure vessel or product is refilled with exposure water and exposure is continued.
16 h	17 d (15 d if the two optional exposure periods are not elected)	Extraction water is collected for analysis; the exposure is terminated.

<sup>1</sup> Elapsed time indicated includes the 14 d of conditioning preceding the exposure.

**Rationale:** *Added guidance on to be consistent with other exposure sequence tables in the standard.*

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**8 Mechanical devices**

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**8.7 Other mechanical devices, components, and materials**

Samples for the testing of all other mechanical devices, components, and materials shall be selected according to the requirements of Sections N-1.2.3 and N-1.4.1. Extraction waters shall be selected according to Section N-1.2.5. Other mechanical product samples shall be conditioned as indicated in

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 Issue 159 Revision 1 (July 2021)

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Section N-1.4.3. Following conditioning, the samples shall be exposed as indicated in Section ~~N-1.4.4.2~~ N-1.4.4.4 and Table N-1.9. Normalization shall be as specified in Sections N-1.8.3, N-1.8.4, and N-1.8.6, as applicable.

**Rationale: Corrected reference to exposure protocol from N-1.4.4.2 to N-1.4.4.4 for other mechanical devices. N-1.4.4.2 is for POE systems and system components requiring exposure under pressure for a 16-hr exposure time. N-1.4.4.4 redirects to Table N-1.9 which specifies an exposure time of 24 hrs for other mechanical devices, aligning with guidance in section 8.3.2.**

## Normative Annex 1

### Product / material evaluation

#### N-1.9 Extraction water preparation

Table N-1.7  
 Product exposure<sup>1</sup>

Product	In the product	In a vessel	Other
aeration equipment	X	—	material exposed in a vessel
chemical feeders	X	—	material exposed in a vessel
clarifiers	—	—	material exposed in a vessel
disinfection equipment	—	—	material exposed in a vessel
electrical wire	—	X	—
in-line devices	X	—	—
membranes/cartridges	X	—	—
mixers	—	—	materials exposed in a vessel
pumps	X	—	—
reverse osmosis	— X	—	—
screens	—	X	—
strainers	X	—	—
switches/sensors	X	—	—
valves	X	—	—

<sup>1</sup> For the purposes of this table, product may represent either the entire device or a component. These are the typical exposure conditions. However, products may be exposed in any fashion provided that the exposure is consistent with requirements in Section N-1.2.

**Rationale: Added guidance for reverse osmosis systems to indicate that typical exposure conditions occur within the product itself.**

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**Table N-1.8**  
**In-line device exposure sequence**

Temperature	In-line device exposure time	Elapsed time <sup>1</sup> in-line devices	Comments
23 ± 2 °C (73 ± 4 °F)	24 h	24 h	Extraction water is decanted and discarded; the exposure vessel or product is refilled with exposure water and exposure is continued.
23 ± 2 °C (73 ± 4 °F)	24 h	48 h	Extraction water is decanted and discarded; the exposure vessel or product is refilled with exposure water and exposure is continued.
23 ± 2 °C (73 ± 4 °F)	12 to 16 h	60 to 64 h	Extraction water is collected for analysis; the exposure is terminated.
<sup>1</sup> Elapsed time does not include the initial 14 d conditioning period.			

**Table N-1.9**  
**Other mechanical device exposure sequence**

Temperature	Exposure time other mechanical devices	Elapsed time <sup>1</sup> other mechanical devices	Comments
23 ± 2 °C (73 ± 4 °F)	24 h	24 h	Extraction water is decanted and discarded; the exposure vessel or product is refilled with exposure water and exposure is continued.
23 ± 2 °C (73 ± 4 °F)	24 h	48 h	Extraction water is decanted and discarded; the exposure vessel or product is refilled with exposure water and exposure is continued.
23 ± 2 °C (73 ± 4 °F)	24 h	72 h	Extraction water is collected for analysis; the exposure is terminated.
<sup>1</sup> Elapsed time does not include the initial 14 d conditioning period.			

**Rationale:** Added additional guidance on decanting and refilling of samples for in-line and other mechanical devices that was previously included in section N-1.4.4.1 (B.4.4.1) and is consistent with other exposure sequence tables in the standard.

## BSR/UL 746A, Standard for Safety for Polymeric Materials – Short Term Property Evaluations

### 1. Revision of Requirements for Resistance of Polymeric Materials to Chemical Reagents in Section 39

#### **39 Test for Standard Practices for Evaluating Resistance of Polymeric Materials to Chemical Reagents**

39.1 This ~~method~~ section covers the standard practices for evaluating resistance to chemical reagents of all polymeric materials – including cast, hot-molded, cold-molded, laminated, resinous products and sheet material – and is described in the Standard Test Method for Practices for Evaluating the Resistance of Plastics to Chemical Reagents, ASTM D 543.

39.4 ~~Test procedure I in Procedure in Practice A of Standard Practices for Evaluating the Resistance of Plastics to Chemical Reagents, ASTM D 543~~ covers physical changes to specimens on a before-and-after format. After exposure to the reagent, the test samples are to be reweighed and remeasured to determine any physical changes from before immersion. General appearance is also to be noted.

39.5 ~~Test procedure II in Procedure in Practice B of Standard Practices for Evaluating the Resistance of Plastics to Chemical Reagents, ASTM D 543~~ is comparative in format. The mechanical properties of identical immersed and nonimmersed specimens are to be determined in accordance with the standard method for tests prescribed in the specifications for the material being tested. Specimens used in this procedure are to be prepared from the same sample or lot of the material in the same manner and run under identical conditions. Test results can be used as parameters of changes in mechanical properties due to exposure to the chemical reagent.

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## BSR/UL 817, Standard for Safety for Cord Sets and Power-Supply Cords

### PROPOSALS

5.13A ELECTRIC VEHICLE ADAPTER SET - A cord set having a single NEMA attachment plug and either a single NEMA or a single non-standard load fitting. Electric vehicle adapter sets are intended for use with electric vehicle supply equipment.

#### 10.17 Electric Vehicle Adapter Sets

##### 10.17.1 General

10.17.1.1 Electric vehicle adapter sets are intended for connection between the branch circuit and off-board electric vehicle supply equipment in accordance with the Standard for Electric Vehicle Supply Equipment, [UL 2594](#), that is designed in accordance with SAE J1772, Society of Automotive Engineers Recommended Practice for Electric Vehicle Conductive Charge Couplers.

10.17.1.2 In addition to, and unless otherwise indicated in, the requirements in 10.17.1 – 10.17.7, an electric vehicle adapter set shall comply with the requirements in [10.7.4.3](#).

10.17.1.3 An electric vehicle adapter set shall be designed:

- a) To provide power from a NEMA attachment plug to a NEMA or non-NEMA cord connector of the same voltage and current rating; or
- b) To provide power from a 250V or 125/250V NEMA attachment plug to a 250V NEMA or non-standard cord connector of the same current rating; or
- c) To provide power from a 125/250V NEMA attachment plug to a 250V or 125/250V NEMA or non-standard cord connector of the same current rating.

10.17.1.4 With regard to 10.17.1.3 (b) and (c), it shall be permitted for the cord to be provided with one grounding conductor in accordance with [6.5.4](#) and two unidentified (hot) circuit conductors. See [10.17.3](#).

10.17.1.5 An electric vehicle adapter set shall not employ fittings or components other than an attachment plug and a cord connector.

10.17.1.6 An electric vehicle adapter set shall comply with the tests in Tests for Attachment Plugs, Section [12](#), and Tests for Cord Connectors, Section [14](#), except that:

- a) For attachment plugs, Section [12](#), Temperature test, shall be conducted with a test current of 110 percent of the cord set rating; and
- b) For NEMA cord connectors, Section [14](#), shall be conducted with a test current of 165 percent of the cord set rating for [14.4](#), Overload test, and [14.7](#), Resistance to arcing test, and a test current of 110 percent of the cord set rating for [14.5](#), Temperature test; and
- c) For non-standard connectors, with regard to [14.4](#), Overload test, and [14.7](#), Resistance to arcing test, the connector fitting shall be caused to make under no load and break at 165 percent of the cord set rating. The test current for [14.5](#), Temperature test shall be 110 percent of the cord set rating.

10.17.1.7 An electric vehicle adapter set shall comply with [11.3.2](#), Strain relief test, General-use fittings, with a pull force of 156 N (35 lbf).

10.17.1.8 An electric vehicle adapter set shall comply with [11.4](#), Dielectric voltage-withstand test, with a test potential of 1000 V plus twice the maximum rated voltage.

### **10.17.2 Outdoor Use and Cold-Usage**

10.17.2.1 In addition to the requirements in [10.17](#), each fitting of an electric vehicle adapter set rated for outdoor use, regardless of the fitting configuration, shall comply with [6.7, Outdoor-use fittings](#). Connectors shall additionally comply with [14.9, Low-temperature insertion test](#), at a temperature of  $\text{minus } 30.0 \pm 1^\circ\text{C}$  ( $\text{minus } 22.0 \pm 1.8^\circ\text{F}$ ).

10.17.2.2 An outdoor use electric vehicle adapter set is permitted to be marked for cold-usage in accordance with [33.8](#) when:

- a) Provided with a flexible cord rated for minus 50°C or colder; and
- b) The connector complies with [14.9, Low-temperature insertion test](#), at a temperature of  $\text{minus } 40.0 \pm 1^\circ\text{C}$  ( $\text{minus } 40.0 \pm 1.8^\circ\text{F}$ ).

### **10.17.3 Fittings**

10.17.3.1 An electric vehicle adapter set shall employ a NEMA configuration attachment plug and either a NEMA or non-standard configuration cord connector, each either assembled or molded to flexible cord in accordance with [10.17.4](#).

10.17.3.2 The cord connector of an electric vehicle adapter set shall be of the same current rating as the attachment plug. It is permitted for the cord connector to be of a different voltage rating in accordance with [10.17.3.3](#).

10.17.3.3 It shall be permitted for the grounded (identified) terminal of a fitting not to be connected to a cord conductor when:

- a) The attachment plug is of a NEMA configuration rated 250 V, 2-pole, 3-wire grounding, and the cord connector is of a NEMA configuration rated 125/250 V, 3-pole, 4-wire grounding or non-standard configuration; or
- b) The attachment plug is of a NEMA configuration rated 125/250 V, 3-pole, 4-wire grounding, and the cord connector is of a NEMA configuration rated 250 V, 2-pole, 3-wire, grounding or non-standard configuration. In all cases, the current rating of the attachment plug and cord connector shall be equal. See Electric Vehicle Adapter Sets, Section [33](#) for required markings.

### **10.17.4 Flexible Cord**

10.17.4.1 The cord employed in an electric vehicle adapter set shall be:

- a) Sunlight-resistant portable power cable, Type G or W, in accordance with Standard for Portable Power Cable, [UL 1650](#); or
- b) Oil- and sunlight-resistant ("OW" or "OOW") flexible cord employing a grounding conductor, Type S, SE, ST, SJ, SJE, SJT; or electric vehicle cable Type EV, EVE, EVT, EVJ, EVJE, or EVJT; or a cord that is equally serviceable, in accordance with Standard for Flexible Cords and Cables, [UL 62](#).

10.17.4.2 The conductor sizes shall comply with Table [10.18](#).

**Table 10.18**  
**Conductor sizes for electric vehicle adapter sets**

<b><u>Attachment plug rating: V, A</u></b>	<b><u>Cord connector rating: V, A</u></b>	<b><u>Minimum Conductor Size,</u></b>	<b><u>Cord Set Rating: V, A</u></b>

		<b>AWG</b>	<b>(mm<sup>2</sup>)</b>	
<u>125V, 15A</u>	<u>125V, 15A</u>	<u>14</u>	<u>(2.08)</u>	<u>125V, 15A</u>
<u>125V, 20A</u>	<u>125V, 20A</u>	<u>12</u>	<u>(3.31)</u>	<u>125V, 20A</u>
<u>250V, 15A</u>	<u>250V, 15A</u>	<u>14</u>	<u>(2.08)</u>	<u>250V, 15A</u>
<u>250V, 20A</u>	<u>250V or 125/250V, 20A</u>	<u>12</u>	<u>(3.31)</u>	<u>250V, 20A</u>
<u>250V, 30A</u>	<u>250V or 125/250V, 30A</u>	<u>10</u>	<u>(5.26)</u>	<u>250V, 30A</u>
<u>250V, 50A</u>	<u>250V or 125/250V, 50A</u>	<u>8<sup>a</sup></u>	<u>(8.36)</u>	<u>250V, 40A</u>
<u>250V, 50A</u>	<u>250V or 125/250V, 50A</u>	<u>6<sup>b</sup></u>	<u>(13.3)</u>	<u>250V, 50A</u>
<u>250V or 125/250V, 20A</u>	<u>250V, 20A</u>	<u>12</u>	<u>(3.31)</u>	<u>250V, 20A</u>
<u>250V or 125/250V, 30A</u>	<u>250V, 30A</u>	<u>10</u>	<u>(5.26)</u>	<u>250V, 30A</u>
<u>250V or 125/250V, 50A</u>	<u>250V, 50A</u>	<u>8<sup>a</sup></u>	<u>(8.36)</u>	<u>250V, 40A</u>
<u>250V or 125/250V, 50A</u>	<u>250V, 50A</u>	<u>6<sup>b</sup></u>	<u>(13.3)</u>	<u>250V, 50A</u>
<u>125/250V, 20A</u>	<u>125/250V, 20A</u>	<u>12</u>	<u>(3.31)</u>	<u>125/250V, 20A</u>
<u>125/250V, 30A</u>	<u>125/250V, 30A</u>	<u>10</u>	<u>(5.26)</u>	<u>125/250V, 30A</u>
<u>125/250V, 50A</u>	<u>125/250V, 50A</u>	<u>8<sup>a</sup></u>	<u>(8.36)</u>	<u>125/250V, 40A</u>
<u>125/250V, 50A</u>	<u>125/250V, 50A</u>	<u>6<sup>b</sup></u>	<u>(13.3)</u>	<u>125/250V, 50A</u>

<sup>a</sup> Applicable to EV adapter sets employing a non-standard connector.  
<sup>b</sup> Applicable to EV adapter sets employing a NEMA cord connector.

### **10.17.5 Length**

The length of an electric vehicle adapter set when measured in accordance with Figure 9.1 shall not exceed:

- a) 0.3 m (12 inches) for products employing a non-standard connector.
- b) 1.2 m (4 ft) for products employing a NEMA connector. This product shall be marked in accordance with 33.7, when marked "not for use with portable EV supply equipment or with EV supply equipment with a power supply cord with a length exceeding 1 ft."

### **10.17.6 Ratings**

10.17.6.1 The electrical ratings for an electric vehicle adapter set shall comply with Table 10.18.

10.17.6.2 An electric vehicle adapter set shall be rated in maximum volts, maximum amperes, and maximum watts.

### **10.17.7 Markings**

10.1.7.1 An electric vehicle adapter set shall be marked in accordance with Electric Vehicle Adapter Sets, Section 33.

#### 33 Electric Vehicle Adapter Sets

33.1 The marking of an electric vehicle adapter set in accordance with 10.17 shall comply with the markings of an indoor-use extension cord set, 21.4, or an outdoor use cord set, 22, as appropriate, in addition to the requirements of 33.3 and 33.4.

33.2 In addition to 33.1, an electric vehicle adapter set shall be marked on the combination label with the following: "For use only with Electric Vehicle Supply Equipment."

33.3 Each fitting of an electric vehicle adapter set constructed in accordance with 10.17.3.3 shall be marked with the following: "CAUTION: The neutral terminal(s) of this adapter set is not utilized. Do not connect products other than Listed Electric Vehicle Supply Equipment to this product."

33.4 The marking described in 33.3 shall be provided on a permanent tag attached to flexible cord within 152 mm (6 in) of each fitting as applicable. If the total length does not exceed 305 mm (12 in), the electric vehicle adapter set shall be permitted to be provided with one marking as appropriate.

33.5 An electric vehicle adapter set in accordance with 10.17.3.3 and provided with a non-standard connector shall be marked with the following or equivalent: "for use only with EV supply equipment, Model \_\_\_\_\_, by \_\_\_\_\_." The first blank shall be filled in with the model number. The word "Model" may be replaced by "Series". The second blank shall be filled in with the electric vehicle supply equipment manufacturer company name.

33.6 An electric vehicle adapter set in accordance with 10.17.3.3 and provided with a NEMA connector shall be permitted to be marked as indicated in 33.5.

33.7 An electric vehicle adapter set in accordance with 10.17.5(b) shall be marked "not for use with portable EV supply equipment or with EV supply equipment with a power supply cord with a length exceeding 1 ft."

33.8 A cold usage cord set in accordance with 10.17.2.2 shall be marked with the following or equivalent: "THIS IS A COLD USAGE CORD SET SUITABLE FOR USE AT - 40°C." The marking shall be printed on a tear-resistant tag or flat bracelet type label or the equivalent (of any color) affixed within 152 mm (6 in) of the cord connector body. The marking may also appear on the packaging or stuffer sheet.

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## BSR/UL 2158A-202x, Standard for Clothes Dryer Transition Duct

### 1. Status of test sample not clear in UL 2158A puncture test

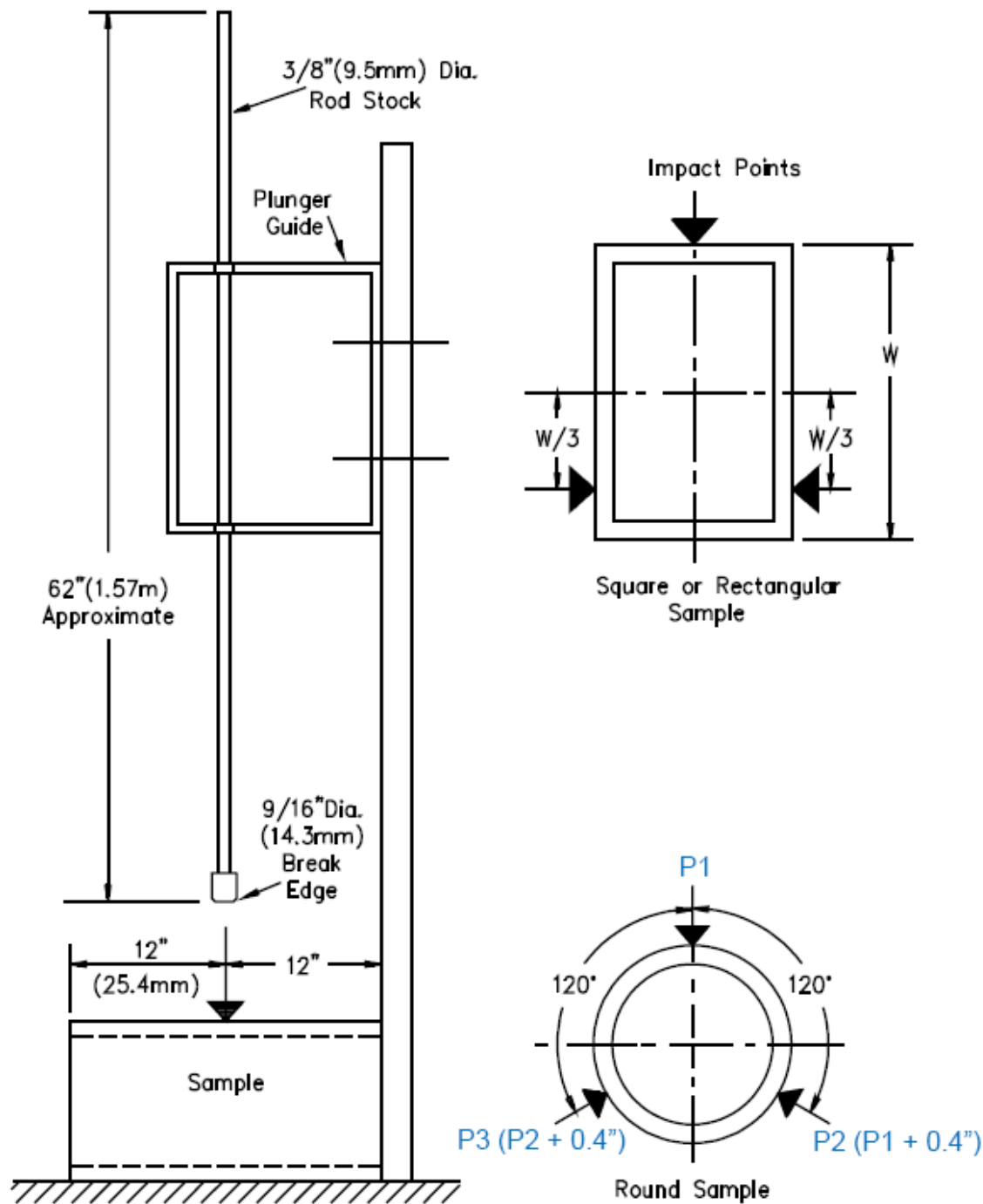
#### PROPOSAL

13.1 A duct shall not be punctured when tested in accordance with 13.2 - 13.5. Following the test, the inner and outer surfaces of the samples shall not have ruptured, broken, torn, ripped, collapsed, or separated. The wall of a duct shall not be completely penetrated by the plunger head described in 13.3 when subjected to the test specified in 13.4.

13.5 Duct samples 2 feet (0.60 m) long are to be subjected to this test. The samples are to be provided with a firm support. Two compacted samples, each measuring 8 feet (2.43 m) in length, of the finished duct construction are to be used. Each sample is to be extended to its full length. One two-foot length is to be randomly selected and cut from each sample and supported firmly below and throughout their length and width. At least three areas of each sample are to receive the impact of the plunger at the approximate center of the test sample along its length and at the impact points (P1, P2, P3) around its perimeter with each test being offset by approximately 0.4 of an inch in succession as around its perimeter shown in Figure 13.1.

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Figure 13.1  
Puncture test



S2456

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## BSR/UL 8750, Standard for Safety for Light Emitting Diode (LED) Equipment For Use In Lighting Products

### 1. Add Exception for Transformers Utilizing a Thermoset Varnish

#### PROPOSAL

6.7.3 Polymeric potting compound that can touch any part of the insulation system of a transformer shall be tested in accordance with Supplement SA – Substitutions or Modification to an Electrical Insulation System in the Standard for Systems of Insulating Materials – General, UL 1446.

*Exception No. 1: This test does not apply if the transformer is not used for the mitigation of the risk of electric shock or is not used to separate Class 2 circuits or LVLE circuits from hazardous circuits.*

*Exception No. 2: This test does not apply if the transformer insulation system already includes the potting.*

*Exception No. 3: This test does not apply if the insulation system is used up to the temperature permitted for class 105 (A) according to Table 8.1 of this standard.*

*Exception No. 4: This test does not apply for thermosetting potting compounds where the insulation system of a transformer utilizes a thermoset varnish which completely encloses the coil windings- preventing the potting compound from making contact with the winding wire insulation.*

### 2. Revisions to Supplement SB- Type HL LED Drivers

#### PROPOSAL

1.4 The requirements in this standard do not anticipate additional construction, performance and marking considerations for the following end-applications: LED equipment subject to weather (outdoor use), LED equipment installed in air handling spaces or in other environmental air spaces (plenums), LED equipment intended for Emergency Lighting and Power Equipment, LED equipment with integral batteries (and battery packs), and LED equipment used in fire rated installations. LED equipment with such end-applications is subject to additional evaluation per applicable standards.

#### SUPPLEMENT SB – REQUIREMENTS FOR TYPE HL LED DRIVERS

##### SB1 Scope

SB1.1 This Supplement has explosion protection by encapsulation requirements for LED drivers that are intended for use in a Class I, Division 2 hazardous (classified) location luminaires. LED drivers which meet the requirements in this supplement are identified as Type HL.

Note: These requirements provide only one option for evaluation of LED drivers that are intended for use in a Class I, Division 2 hazardous (Classified) location luminaires. LED drivers that do not comply with the requirements of this Supplement can be evaluated for hazardous (classified) location applications per alternate requirements in the ~~The~~ Standard for Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations, ANSI/ISA-12.12.01, has the full spectrum of requirements for electrical equipment for use in hazardous (Classified) locations. These alternate requirements provide options for compliance that cannot be addressed by this Supplement.

## **SB2 Construction**

SB2.1 A Type HL LED driver shall comply with all applicable construction requirements of this standard.

SB2.2 A Type HL LED driver shall have all internal parts fully submerged in potting compound so that all components other than input and output leads/terminals are sealed.

### **SB2A Explosion protection by encapsulation construction**

SB2A.1 A Type HL LED driver provides a Class I, Division 2 means for explosion protection when all parts are fully encapsulated by being fully submerged in potting compound, unless otherwise permitted by this Supplement. Such fully potted constructions provide a seal for the potential sources of ignition from the flammable atmosphere.

SB2A.2 Parts that shall be fully submerged in potting compound include the body and leads of all capacitors, potentiometers, relays/switches, transformers, inductors, coils, resistors, diodes, and printed wiring boards. Such parts shall not be visible or accessible external to the potting compound for any reason, including adjustments. Potentiometers shall not be permitted to be accessible external to the potting compound. Exposed integral functioning antennae shall not be permitted to be marked Type HL, as such an antennae presents a risk of explosion and requires an evaluation in accordance with the Standard for Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations, UL 121201, for Class I, Division 2.

SB2A.3 Parts that may be visible and accessible external to the potting compound are limited to the following:

- a) Cords, cables, leads and their terminals for input or output power,
- b) Terminals for wired control and antenna interconnection, and
- c) The portion of a printed wiring board on which the parts detailed in (a) and (b) may be terminated.



For cords, cables and leads for input or output power that enter directly into the potting compound, it is not necessary to remove any outer jacket from around the cords, cables or leads at the point of entry into the potting compound.

SB2A.4 Batteries and battery packs are not permitted in this Supplement. LED drivers with batteries and battery packs for Class I, Division 2 applications are covered under the Standard for Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations, UL 121201.

SB2A.5 Compliance with this Supplement is determined by visual examination, in particular that all parts in accordance with SB2A.2 are fully submerged in potting compound, with no visible gaps or breaks.

### **SB3 Performance**

SB3.1 A Type HL LED driver shall comply with all applicable performance requirements of this standard.

### **SB4 Marking**

SB4.1 A Type HL LED driver shall comply with all applicable marking requirements of this standard.

SB4.2 An LED driver may be marked "Type HL" if it complies with the requirements of this supplement. The marking may be provided on the LED driver, the smallest shipping container, or on materials shipped with the LED driver.

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