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# Project Initiation Notification System (PINS)

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

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## **AAFS (American Academy of Forensic Sciences)**

Teresa Ambrosius; [tambrosius@aafs.org](mailto:tambrosius@aafs.org) | 410 North 21st Street | Colorado Springs, CO 80904 [www.aafs.org](http://www.aafs.org)

### ***New Standard***

BSR/ASB Std 184-202x, Standard for a Mentorship Program in Bloodstain Pattern Analysis (new standard)

Stakeholders: All bloodstain pattern trainees and mentors.

Project Need: ANSI/ASB Standard 032 Covers the standards for a bloodstain pattern analyst training program and references the requirement for a mentorship program. Mentorship is an integral component of a bloodstain pattern analyst training program. This proposed new standard will clearly define and elaborate on the requirements for this component of the training program.

Interest Categories: Academics and Researchers, General Interest, Jurisprudence and Criminal Justice, Organizations, User - Government, and User - Non-Government

Scope: This document establishes required components of a mentorship program for Bloodstain Pattern Analysts. Components include mentoring and evaluation of casework, mock casework, and courtroom preparation and testimony.

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

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

### ***New Standard***

BSR/ASME IAM-1-202x, Investment Analysis Guidelines for Manufacturing (new standard)

Stakeholders: Manufacturers, Consultants, Technology Integrators.

Project Need: Every manufacturer makes investment decisions and frequently manufacturers have professionals on hand for evaluating investments; however, many firms do not have these resources. Additionally, department heads or other staff may not have direct access to investment analysis professionals and often do not have the expertise for conducting an analysis when proposing new investments.

Interest Categories: Designers, Distributors, Producer/Manufacturer, Consultant, User, Owner, General Interest

Scope: To provide guidance to manufacturers to help evaluate potential investments in technologies and processing using primary investment analysis methods. This guidance is intended to aid decisions in capital investments which include, but are not limited to, investments in processes, machinery, and practices.

**ECIA (Electronic Components Industry Association)**

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

**Revision**

BSR/EIA 364-27D-202x, Mechanical Shock (Specified Pulse) Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA-364-27C-2011 (R2017))

Stakeholders: Electronics, electrical and telecommunications industries.

Project Need: Revise and redesignate the current American National Standard.

Interest Categories: User, Producer, General Interest

Scope: This test procedure establishes a test method to assess the ability of electrical components to withstand specified severities of mechanical shock.

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

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

**New Standard**

INCITS 577-202x, Information Technology - Fibre Channel - Security Protocols - 3 (FC-SP-3) (new standard)

Stakeholders: Consumers and developers of Fibre Channel devices and systems benefit from this standard through a wider variety of value propositions in products available on the open market.

Project Need: The proposed project provides a compatible evolution of Fibre Channel - Security Protocols - 2, INCITS 496- 2012, Amendment 1, and Amendment 2.

Interest Categories: Producer-Hardware, Producer-Software, Producer-General, Distributor, Service Provider, User, Consultants, Government, SDO and Consortia, Academic Institution, General Interest

Scope: Included within this scope: (a) updates to current storage security practices, (b) enhancements to the protocols, (c) corrections and clarifications, and (d) any other item as deemed necessary during development

**SIA (Security Industry Association)**

Edison Shen; EShen@securityindustry.org | 8405 Colesville Road, Suite 500 | Silver Spring, MD 20910 [www.siaonline.org](http://www.siaonline.org)

**New Standard**

BSR/SIA/IAPSC AG-01-202x, Architectural Graphics for Security Standard (new standard)

Stakeholders: Security designers, specifiers, building owners, and operators, manufacturers, installers and integrators.

Project Need: This standard is intended to provide uniformity in the design and layout of physical security systems, making CAD-generated construction drawings more easily read and understood by all in security management, design disciplines, and construction trades.

Interest Categories: Dealer/Installer, End User/Consumer, Manufacturing, Monitoring, Public Safety, SDO, SME, and Specifier

Scope: This standard details a Computer Aided Drafting (CAD) symbol library for security system layout. This set provides standardized, easily recognizable icons representing the form or function of the device and a reduced number of symbols through the development of generic icons with single-character attributes for the mount style and technology or device type.

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

Susan Malohn; Susan.P.Malohn@ul.org | 333 Pfingsten Road | Northbrook, IL 60062-2096 <https://ul.org/>

### ***National Adoption***

BSR/UL 62093-202x, Standard for Photovoltaic System Power Conversion Equipment – Design Qualification and Type Approval (national adoption of IEC 62093 with modifications and revision of ANSI/UL 62093-2017 (R2021))  
Stakeholders: PV Industry, AHJs, manufacturers of power conversion electronics, installers and authorized personnel for PV power systems, and certification bodies.

Project Need: Adoption of an International Standard that covers the design qualification requirements for power conversion electronics that are mechanically and/or electrically incorporated with photovoltaic (PV) modules or systems. This edition of the standard will be added to and used in conjunction with the suite of standards covering the safety of electronic devices combined with PV modules that perform functions such as, but not limited to, DC-DC or DC-AC power conversion, active diodes, protection, control, monitoring, or communication.

Interest Categories: AHJ, Commercial/Industrial Users, General Interest, Producers, Supply Chain, Government, and Testing & Standards

Scope: UL 62093 was published February 2017 and based on the First Edition of IEC 62093. A new second edition of IEC 62093 was published and now focusses on the design qualification of power conversion electronics (PCE), and eliminates the clauses associated with qualification testing of other balance-of-system components. The first edition established requirements for the design qualification of balance-of-system components used in terrestrial photovoltaic (PV) systems and now the new edition is limited to power conversion equipment. The title has also changed from Balance-of-System Components for Photovoltaic Systems - Design Qualification Natural Environments.

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

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

### ***New Standard***

BSR/VITA 89-202x, MT Circular Connectors - Type 2 (new standard)

Stakeholders: Manufacturers, suppliers, and users of modular embedded computers.

Project Need: Define a standard for providing optical MT through standard circular bulkhead connectors.

Interest Categories: General interest, producers, users

Scope: This standard defines a standard for circular connectors with optical MT. Circular connector shells are compliant to MIL-STD-38999. MT offer options for 24 or 48 fibers per MT and for physical contact or lensed MT.

# 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: October 30, 2022

### 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 b to BSR/ASHRAE Standard 34-2022, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2022)

This proposed addendum adds the zeotropic refrigerant blend R-477A to Tables 4-2 and D-2.

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

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

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

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

#### Addenda

BSR/ASHRAE Addendum c to BSR/ASHRAE Standard 34-2022, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2022)

This proposed addendum adds the zeotropic refrigerant blend R-477B to Tables 4-2 and D-2.

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

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

## Comment Deadline: October 30, 2022

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

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

#### **Supplement**

BSR/AWWA C205a-202x, Addendum to C205-18, Cement-Mortar Protective Lining and Coating for Steel Water Pipe - 4 In. (100 mm) and Larger - Shop Applied (supplement to ANSI/AWWA C205-2017)

The addendum will include a revision to the requirements in sections of C205-18 to include ASTM C595 type II cement as an additional allowable material for CML and CMC.

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

Send comments (copy psa@ansi.org) to: AWWA, Attn: Paul Olson; polson@awwa.org

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

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

#### **Revision**

BSR/NSF 2-202x (i43r2), Food Equipment (revision of ANSI/NSF 2021)

Equipment covered by this standard includes, but is not limited to, bakery, cafeteria, kitchen, and pantry units, and other food handling and processing equipment such as tables and components, counters, tableware, hoods, shelves, and sinks.

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

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

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

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

#### **Revision**

BSR/NSF 51-202x (i27r1), Food Equipment Materials (revision of ANSI/NSF 51-2021)

This standard is applicable to the materials and finishes used in the manufacture of food equipment (e.g., broiler, beverage dispenser, cutting board, stock pot). The standard is also applicable to components such as tubing, sealants, gaskets, valves, and other items intended for various food equipment applications.

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

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

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

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

#### **Revision**

BSR/NSF 358-1-202x (i7r2), Polyethylene Pipe and Fittings for Water-Based Ground-Source Geothermal Heat Pump Systems (revision of ANSI/NSF 358-1-2021)

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

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

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

## Comment Deadline: October 30, 2022

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

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

#### **Revision**

BSR/NSF 455-2-202x (i41r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2021)

This standard is intended to define a standardized approach for auditing to determine the level of compliance of dietary supplement products to 21 CFR Part 111, as well as incorporating additional retailer requirements.

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

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

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

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

#### **Revision**

BSR/NSF 455-2-202x (i43r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2021)

This standard is intended to define a standardized approach for auditing to determine the level of compliance of dietary supplement products to 21 CFR Part 111, as well as incorporating additional retailer requirements.

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

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

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

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

#### **Revision**

BSR/NSF 455-4-202x (i41r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2021)

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 and 21 CFR Part 211, International Council for Harmonisation of Technical Requirements for Pharmaceutical for Human Use (ICH) Quality Guidelines, 1, 7 and 10, as well as incorporating additional retailer requirements.

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

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

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

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

#### **Reaffirmation**

BSR/UL 437-2013 (R202x), Standard for Key Locks (reaffirmation of ANSI/UL 437-2013 (R2017))

This proposal covers: (1) Reaffirmation and continuance of the 8th edition of the Standard for Key Locks, UL 437, as an American National Standard.

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

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

## Comment Deadline: October 30, 2022

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 746D-202X, Standard for Safety for Polymeric Materials - Fabricated Parts (revision of ANSI/UL 746D-2022)  
This proposal covers the following topics: (1) Clarification of long-term thermal aging and UV/water immersion requirements for mechanical recycle addition in plastic materials in Sections 10.2 and 10.3; (2) Addition of references to alternate short-term thermal tests to Figure 10.1; and (3) Removal of quality management system requirement from Paragraph 10.4.

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

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

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 1323-202x, Standard for Scaffold Hoists (revision of ANSI/UL 1323-2020)

This proposal covers: (1) The state of battery charge indicator.

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

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

### ULSE (UL Standards & Engagement)

9 Burlington Crescent, Ottawa, ON K1T3L1 | [celine.eid@ul.org](mailto:celine.eid@ul.org), <https://ul.org/>

#### Revision

BSR/UL 1581-202x, Reference Standard for Electrical Wires, Cables, and Flexible Cords (revision of ANSI/UL 1581-2020)

1.1 This standard contains specific details of the conductors, of the insulation, of the jackets and other coverings, and of the methods of sample preparation, of specimen selection and conditioning, and of measurement and calculation that are required in wire and cable standards. 1.2 The requirements for the particular materials, construction, performance, and marking of an individual type of wire, cable, or flexible cord are stated in the standard covering the finished type. They are not part of this reference standard. 1.3 In each case in which an element of this standard does not apply, the standard covering the finished type so states and specifies what does apply.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Celine Eid, [celine.eid@ul.org](mailto:celine.eid@ul.org)



## Comment Deadline: October 30, 2022

### ULSE (UL Standards & Engagement)

9 Burlington Crescent, Ottawa, ON K1T3L1 | celine.eid@ul.org, <https://ul.org/>

#### Revision

BSR/UL 2438-202x, Standard for Safety for Outdoor Seasonal-Use Cord-Connected Wiring Devices (revision of ANSI/UL 2438-2014)

1.1 The requirements of this Standard cover outdoor seasonal-use cord-connected wiring devices that are intended for temporary outdoor use - not to exceed 90 days - with outdoor equipment, Christmas-tree, and other seasonal decorative-lighting outfits. Some outdoor seasonal-use cord-connected wiring devices employ additional devices such as photoelectric sensors, fuses, supplementary protectors, timers, audio, flasher control or synchronized features. Products employing additional devices shall meet the intent and testing described in this Standard. 1.2 These requirements only cover devices of the 2-pole, 3-wire, 5-15 configuration as shown in Wiring Devices - Dimensional Specifications, ANSI/NEMA WD6. 1.3 These requirements cover devices with remote control features that comply with the Standard for Solid-State Controls for Appliances, UL 244A. See Devices Employing Remote Control Features, Section 11. Compliance with the Standard for Automatic Electrical Controls for Household and Similar Use, Part 1: General Requirements, UL 60730-1, and/or the applicable Part 2 standard from the UL 60730 series fulfills these requirements. 1.4 These requirements cover devices with audio features that comply with the Standard for Audio, Video, and Similar Electronic Apparatus - Safety Requirements, UL 60065, or the Standard for Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements, UL 62368-1. See Devices Employing Audio Features, Section 12. 1.5 These requirements are intended to be used with the Standard for Cord Sets and Power-Supply Cords, UL 817.

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

Send comments (copy psa@ansi.org) to: Celine Eid, celine.eid@ul.org

### WCMA (Window Covering Manufacturers Association)

17 Faulkner Drive, Niantic, CT 06357 | mtierney@kellencompany.com, www.wcmanet.org

#### Revision

BSR/WCMA A100.1-202x, Standard for Safety of Window Covering Products (revision of ANSI/WCMA A100.1-2018)

Types of window-covering products documented in this standard include, but are not limited to, cellular shades, horizontal blinds, pleated shades, roll-up style shades, roller shades, sheer shades, Roman style shades, traverse rods (including products that are used with traverse rods), panel tracks, and vertical blinds. These products can be manufactured and distributed as either stock or custom products. (See Section 3 for definitions of these terms.)

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

Send comments (copy psa@ansi.org) to: mtierney@kellencompany.com

## Comment Deadline: November 14, 2022

### **AAFS (American Academy of Forensic Sciences)**

410 North 21st Street, Colorado Springs, CO 80904 | [tambrosius@aafs.org](mailto:tambrosius@aafs.org), [www.aafs.org](http://www.aafs.org)

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

BSR/ASB BPR 183-202x, Best Practice Recommendation for Limited Friction Ridge Examinations (new standard)  
This document provides best practice recommendations for policies and procedures regarding how to conduct limited examinations of friction ridge impression evidence, and proper documentation for these examinations. Limited exams are partial analyses, comparisons, and/or processing that do not fully utilize the capabilities of a Forensic Service Provider (FSP).

Single copy price: Free

Obtain an electronic copy from: Document and comments template can be viewed on the AAFS Standards Board website at: <https://www.aafs.org/academy-standards-board>

Order from: Document will be provided electronically on AAFS Standards Board website (<https://www.aafs.org/academy-standards-board>) free of charge.

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

### **AAFS (American Academy of Forensic Sciences)**

410 North 21st Street, Colorado Springs, CO 80904 | [tambrosius@aafs.org](mailto:tambrosius@aafs.org), [www.aafs.org](http://www.aafs.org)

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

BSR/ASB Std 172-202x, Standard for Examination of Mechanical Checkwriters and Their Impressions (new standard)  
This standard provides procedures for determining classification information and machine identification of mechanical checkwriters. These procedures include evaluation of the material. These procedures are applicable whether the examination and comparison is of questioned and known items or of exclusively questioned items.

Single copy price: Free

Obtain an electronic copy from: This is a public comment period for a recirculation. Updated document, redline version, and comments can be viewed on the AAFS Standards Board website at: <https://www.aafs.org/academy-standards-board>

Order from: Document will be provided electronically on AAFS Standards Board website (<https://www.aafs.org/academy-standards-board>) free of charge.

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

### **API (American Petroleum Institute)**

200 Massachusetts Avenue NW, Washington, DC 20001-5571 | [fusarop@api.org](mailto:fusarop@api.org), [www.api.org](http://www.api.org)

#### ***Reaffirmation***

BSR/API RP 3000-2014 (R202x), Classifying and Loading of Crude Oil into Rail Tank Cars (reaffirmation of ANSI/API RP 3000-2014)

This document provides guidance on the material characterization, transport classification, and quantity measurement of petroleum crude oil, using both laboratory and field testing techniques, for the loading of rail tank cars. This document also provides guidance on the documentation of measurement results. This document identifies the criteria for determining the frequency that the crude oil should be sampled and tested. This document applies only to petroleum crude oil classified as Hazard Class 3 flammable liquids under the U.S. Code of Federal Regulations (CFR) at the time of publication.

Single copy price: \$136.00

Obtain an electronic copy from: [fusarop@api.org](mailto:fusarop@api.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [Patty Fusaro, fusarop@api.org](mailto:Patty.Fusaro@api.org)

## Comment Deadline: November 14, 2022

### API (American Petroleum Institute)

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

#### Reaffirmation

BSR/API Standard 619-2010 (R202x), Rotary-Type Positive Displacement Compressors for Petroleum, Petrochemical and Natural Gas Industries (reaffirm a national adoption ANSI/API Standard 619-2010)

This part of ISO 10440 specifies requirements for dry and oil-flooded, helical-lobe rotary compressors (see Figure 1) used for vacuum or pressure or both in petroleum, petrochemical, and gas industry services. It is intended for compressors that are in special-purpose applications. It is not applicable to general-purpose air compressors, liquid-ring compressors, or vane-type compressors.

Single copy price: \$234.00

Obtain an electronic copy from: [godoyj@api.org](mailto:godoyj@api.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Jose Godoy; [godoyj@api.org](mailto:godoyj@api.org)

### AWWA (American Water Works Association)

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

#### Reaffirmation

BSR/AWWA C715-2018 (R202x), Cold-Water Meters - Electromagnetic and Ultrasonic Type, for Revenue Applications (reaffirmation of ANSI/AWWA C715-2018)

This standard describes the minimum requirements for two performance classes of potable cold-water meters of the electromagnetic and ultrasonic type, in sizes 1/2 in. (13 mm) through 20 in. (500 mm), for revenue applications, and the materials and workmanship employed in their fabrication.

Single copy price: Free

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

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: AWWA, Attn: Paul J. Olson

### CGA (Compressed Gas Association)

8484 Westpark Drive, Suite 220, McLean, VA 22102 | [tdeary@cganet.com](mailto:tdeary@cganet.com), [www.cganet.com](http://www.cganet.com)

#### New Standard

BSR/CGA H-3-202x, Standard for Cryogenic Hydrogen Storage (new standard)

This publication contains the suggested minimum design and performance requirements for shop-fabricated, vacuum-insulated cryogenic tanks (vertical and horizontal) intended for above ground storage of liquid hydrogen. This publication applies to liquid hydrogen storage tanks with maximum allowable working pressures (MAWP) up to and including 175 psi (1210 kPa). Tanks less than 1000 gal (3785 L) gross volume or greater than 25 000 gal (94 600 L) gross volume and all transportable containers are excluded. This standard does not include operation and installation requirements or emergency response information.

Single copy price: Free

Obtain an electronic copy from: [tdeary@cganet.com](mailto:tdeary@cganet.com)

Order from: [tdeary@cganet.com](mailto:tdeary@cganet.com)

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

## Comment Deadline: November 14, 2022

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

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

#### ***Reaffirmation***

BSR/EIA 364-13E-2011 (R202x), Mating and Unmating Force Test Procedure for Electrical Connectors and Sockets (reaffirmation of ANSI/EIA 364-13E-2011 (R2017))

This standard establishes a method to determine the forces required to mate and unmate electrical connectors or protective caps with connectors, connectors/sockets with gages or devices. Unless otherwise specified in the referencing document, method A shall be used.

Single copy price: \$78.00

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

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: [emikoski@ecianow.org](mailto:emikoski@ecianow.org)

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

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

#### ***Reaffirmation***

BSR/EIA 364-17C-2011 (R202x), Temperature Life with or without Electrical Load Test Procedure for Electrical Connectors and Sockets (reaffirmation of ANSI/EIA 364-17C-2011 (R2017))

This standard establishes a test method to determine the ability of an electrical connector and sockets to withstand elevated temperatures with or without electrical loading.

Single copy price: \$78.00

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

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: [emikoski@ecianow.org](mailto:emikoski@ecianow.org)

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

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

#### ***Reaffirmation***

BSR/EIA 364-25E-2017 (R202x), Probe Damage Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-25E-2017)

This standard establishes a test method to be followed for probe damage testing; intended primarily for round socket contacts in electrical connectors and possibly applicable to other type contacts as well. This test is to simulate a form of field abuse of contacts during test by inserting probes into socket contacts.

Single copy price: \$76.00

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

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: [emikoski@ecianow.org](mailto:emikoski@ecianow.org)

## Comment Deadline: November 14, 2022

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

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

#### ***Reaffirmation***

BSR/EIA 364-28F-2011 (R202x), Vibration Test Procedure for Electrical Connectors and Sockets (reaffirmation of ANSI/EIA 364-28F-2011 (R2017))

The standard test procedure details a method to assess the ability of electrical connector components to withstand specified severities of vibration.

Single copy price: \$92.00

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

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: [emikoski@ecianow.org](mailto:emikoski@ecianow.org)

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

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

#### ***Reaffirmation***

BSR/EIA 364-56E-2011 (R202x), Resistance to Soldering Heat Test Procedure for Electrical Connectors and Sockets (reaffirmation of ANSI/EIA 364-56E-2011 (R2017))

This standard establishes a test method for determining if connectors or sockets can withstand exposure to soldering conditions either by soldering iron, solder dip, solder wave, or reflow soldering techniques.

Single copy price: \$84.00

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

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: [emikoski@ecianow.org](mailto:emikoski@ecianow.org)

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

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

#### ***Reaffirmation***

BSR/EIA 364-1005-2011 (R202x), Environmental Test Methodology for Determining the Susceptibility of Contacts to Fretting Corrosion (reaffirmation of ANSI/EIA 364-1005-2011 (R2017))

This standard describes recommended test sequences to determine the susceptibility of contacts to fretting corrosion that is a major and significant failure mechanism that can be caused by vibration and thermal cycling.

Single copy price: \$98.00

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

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: [emikoski@ecianow.org](mailto:emikoski@ecianow.org)

## Comment Deadline: November 14, 2022

### **ESTA (Entertainment Services and Technology Association)**

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | [standards@esta.org](mailto:standards@esta.org), [www.esta.org](http://www.esta.org)

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

BSR/ESTA E1.76-202x, Wire Rope Tension Grids (new standard)

This draft standard for wire rope tension grids covers design and application criteria including the loading, self-weight considerations, transitions between levels, and suspension from the building structure. It provides deflection criteria for structural elements and the woven mesh. The standard offers guidance on openings, including trap doors and bays similar to loft-wells. It provides requirements for hand rails and step units, and considerations for other accessories.

Single copy price: Free

Obtain an electronic copy from: [https://tsp.esta.org/tsp/documents/public\\_review\\_docs.php](https://tsp.esta.org/tsp/documents/public_review_docs.php)

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

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

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

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

#### ***Reaffirmation***

BSR/HL7 V3 REG RTLTM, R1-2011 (R202x), HL7 Version 3 Standard: Registries; Real Time Location Tracking, Release 1 (reaffirmation of ANSI/HL7 V3 REG RTLTM, R1-2011 (R2016))

This is a reaffirmation of release 1. A Real-Time Location System (RLTS) tracks the location of tags associated with patients, providers and equipment within a healthcare facility. This document defines storyboards, trigger events, information models and interactions for exchanging information between RTLS and administrative systems that require real-time location information.

Single copy price: Free to members and non-members

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

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

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

### **NICA (National Infusion Center Association)**

3307 Northland Drive, Suite 160, Austin, TX 78731 | [kaitey.morgan@infusioncenter.org](mailto:kaitey.morgan@infusioncenter.org), <https://infusioncenter.org/>

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

BSR/NICA V2-202x, Standards of Excellence for Ambulatory Infusion Centers (new standard)

To promote patient safety and ensure consistency in care quality, NICA has developed the Standards of Excellence for Ambulatory Infusion Centers, specifically applicable to the administration of non-hazardous intravenous and injectable products in the outpatient setting (e.g., office-based infusion suites, freestanding infusion centers).

Single copy price: \$159.00 (Member Price); \$199.00 (Non-Member Price)

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

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

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

## Comment Deadline: November 14, 2022

### SPRI (Single Ply Roofing Industry)

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

#### Revision

BSR/SPRI/FM 4435/ES-1-202x, Test Standard for Edge Systems Used with Low Slope Roofing Systems (revision of ANSI/SPRI/FM 4435 ES-1-2017)

This Standard is a reference for those who design, specify, manufacture, test or install edge materials used with low slope roofing systems. This Standard prescribes methodology for testing roof edge assemblies excluding gutters, to evaluate their resistance to wind load.

Single copy price: Free

Obtain an electronic copy from: [info@spri.org](mailto:info@spri.org)

Order from: [info@spri.org](mailto:info@spri.org)

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

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 296-202x, Standard for Safety for Oil Burners (revision of ANSI/UL 296-2020)

The following topics are being proposed: (1) Addition of B100 biodiesel requirements for oil burners and (2) Metallic material requirements harmonization.

Single copy price: Free

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

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

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 651A-202x, Schedule 40 and 80 High Density Polyethylene (HDPE) Conduit (revision of ANSI/UL 651A-2017)

1 Scope 1.1 These requirements cover smooth-wall straight-length and coiled continuous length conduit with a circular cross section, including elbows. Included are schedule 40, Schedule 80, EPEC-A, EPEC-9, EPEC-11, and EPEC-13.5 high density PE electrical conduit. 1.2 The conduit mentioned in 1.1 are intended for use at 50°C (122°F) and lower ambient temperatures. HDPE conduit, where directly buried or encased in concrete in trenches outside of buildings, may be used with 90°C (194°F) wiring. 1.3 The conduit covered in these requirements are intended for use as rigid nonmetallic raceway for wires and cables in accordance with the National Electrical Code, NFPA 70. 1.4 HDPE conduit is for aboveground use where encased in not less than 2 inches (50 mm) of concrete and for underground use by direct burial or encasement in concrete.

Single copy price: Free

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

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

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

## Comment Deadline: November 14, 2022

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 1557-202x, Standard for Safety for Electrically Isolated Semiconductor Devices (revision of ANSI/UL 1557-2018)

These requirements apply to semiconductor devices of the isolated-mounting type - thyristors, transistors, diodes, and the like, and hybrid modules consisting of combinations of these devices. The term isolation, as used in this standard, refers to the isolation of the mounting surface, or surface if there is no dedicated mounting surface, of a device to the electronic circuits within the device. These requirements do not apply to snubber and commutation circuits associated with thyristors, transistors or other analog semiconductor devices. These requirements cover the isolation performance of thyristors, transistors, diodes, and the like, and their combination in module packages and constructional features that are pertinent to that performance. These requirements apply to isolated semiconductors for use as components in products.

Single copy price: Free

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

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

### ULSE (UL Standards & Engagement)

333 Pfingsten Road, Northbrook, IL 60062 | isabella.brodzinski@ul.org, <https://ul.org/>

#### Revision

BSR/UL 1990-202x, Nonmetallic Underground Conduit with Conductors (revision of ANSI/UL 1990-2017)

1.1 These requirements cover nonmetallic underground High Density Polyethylene (HDPE) conduit with conductors. These products consist of a factory assembly of conductors or cables inside a coilable, smooth-wall, continuous length conduit with a circular cross section. The conduit is Schedule-40, Schedule-80, EPEC-9, EPEC-11, EPEC-13.5 or EPEC-A conduit in trade sizes 1/2 (16) - 4 (103). This product is intended for installation in accordance with the National Electrical Code, NFPA 70. The values in parentheses are metric trade designators of conduit. The designations Schedule-40, Schedule-80, EPEC-9, EPEC-11, EPEC-13.5, and EPEC-A refer to conduit having specific outside diameters and wall thicknesses. 1.1.1 HDPE conduit material, dimensions and performance requirements are defined with reference to UL 651A. Requirements specific to cable-in-conduit are included in this standard. 1.2 This product is for aboveground use where encased in not less than 2 inches (51 mm) of concrete and for underground use by direct burial or encasement in concrete.

Single copy price: Free

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

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

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



## Comment Deadline: November 14, 2022

### 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)

#### Reaffirmation

BSR/VITA 49.2-2017 (R202x), VITA Radio Transport (VRT) Standard for Electromagnetic Spectrum: Signals and Applications (reaffirmation of ANSI/VITA 49.2-2017)

The ANSI/VITA 49.2 standard, which is part of the VITA Radio Transport (VRT) family of standards, defines a signal/spectrum protocol that expresses spectrum observation, spectrum operations, and capabilities of RF devices. This is done independent of manufacturer, equipment type, point of use in an architecture and application. The intent of the VRT protocol is to enable RF systems to migrate from proprietary stove-pipe architectures to interoperable multi-function architectures

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: November 29, 2022

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 180-202x, Standard for Safety for Combustible Liquid Tank Accessories (revision of ANSI/UL 180-2021)

The following is being proposed: (1) Revisions to requirements for vent caps with respect to openings; (2) Revisions to the Fill Signal test with respect to whistle vent sound/backflow; (3) Revisions to marking requirements with respect to smaller pipe size fittings

Single copy price: Free

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Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Jeff Prusko, [jeffrey.prusko@ul.org](mailto:jeffrey.prusko@ul.org)

## Notice of Withdrawal: ANS at least 10 years past approval date

The following American National Standards have not been revised or reaffirmed within ten years from the date of their approval as American National Standards and accordingly are withdrawn:

### HL7 (Health Level Seven)

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

ANSI/HL7 V3 DT, R2-2012, HL7 Version 3 Standard: Data Types - Abstract Specification, Release 2

Direct inquiries to: Karen Van Hentenryck; [Karenvan@HL7.org](mailto:Karenvan@HL7.org)

### MTS (Institute for Market Transformation to Sustainability)

1511 Wisconsin Avenue, NW, Washington, DC 20007 | [mts@sustainableproducts.com](mailto:mts@sustainableproducts.com); [mike@sustainableproducts.com](mailto:mike@sustainableproducts.com), [www.sustainableproducts.com](http://www.sustainableproducts.com)

ANSI/MTS 2.0 IP Guide-2012, Integrated Process for Sustainable Buildings & Communities

Direct inquiries to: Mark Carter; [mts@sustainableproducts.com](mailto:mts@sustainableproducts.com); [mike@sustainableproducts.com](mailto:mike@sustainableproducts.com)

## Notice of Withdrawal: ANS at least 10 years past approval date

### **SMACNA (Sheet Metal and Air-Conditioning Contractors' National Association)**

4201 Lafayette Center Drive, Chantilly, VA 20151-1219 | crathinam@smacna.org, www.smacna.org

ANSI/SMACNA 002-2011, Rectangular Industrial Duct Construction Standards

Note: SMACNA has filed a PINS form for SMACNA 002 and the consensus body intends to seek approval of the standard as a new ANS.

Direct inquiries to: Cintamani Rathinam; crathinam@smacna.org

### **SMACNA (Sheet Metal and Air-Conditioning Contractors' National Association)**

4201 Lafayette Center Drive, Chantilly, VA 20151-1219 | crathinam@smacna.org, www.smacna.org

ANSI/SMACNA 016-2012, HVAC Air Duct Leakage Test Manual

Direct inquiries to: Cintamani Rathinam; crathinam@smacna.org

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

15 Technology Parkway, Suite 115, Peachtree Corners, GA 30092 | standards@tappi.org, www.tappi.org

ANSI/TAPPI T 421 om-2012, Qualitative (including optical microscopic) analysis of mineral filler and mineral coating of paper

Note: TAPPI has filed a BSR8 form for TAPPI T 421 om and the consensus body intends to seek approval of the standard as a new ANS.

Direct inquiries to: Brittaney Lovett; standards@tappi.org

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

15 Technology Parkway, Suite 115, Peachtree Corners, GA 30092 | standards@tappi.org, www.tappi.org

ANSI/TAPPI T 525 om-2012, Diffuse brightness of paper, paperboard and pulp (d/0) -- Ultraviolet level C

Note: TAPPI has filed a BSR8 form for TAPPI T 525 om and the consensus body intends to seek approval of the standard as a new ANS.

Direct inquiries to: Brittaney Lovett; standards@tappi.org

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

15 Technology Parkway, Suite 115, Peachtree Corners, GA 30092 | standards@tappi.org, www.tappi.org

ANSI/TAPPI T 578 sp-2011, Accelerated light aging of printing and writing paper by xenon-arc exposure apparatus

Note: TAPPI has filed a BSR8 form for TAPPI T 578 sp and the consensus body intends to seek approval of the standard as a new ANS.

Direct inquiries to: Brittaney Lovett; standards@tappi.org

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

15 Technology Parkway, Suite 115, Peachtree Corners, GA 30092 | standards@tappi.org, www.tappi.org

ANSI/TAPPI T 802 om-2012, Drop test for fiberboard shipping containers

Note: TAPPI has filed a BSR8 form for TAPPI T 802 om and the consensus body intends to seek approval of the standard as a new ANS.

Direct inquiries to: Brittaney Lovett; standards@tappi.org

## Notice of Withdrawal: ANS at least 10 years past approval date

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

15 Technology Parkway, Suite 115, Peachtree Corners, GA 30092 | [standards@tappi.org](mailto:standards@tappi.org), [www.tappi.org](http://www.tappi.org)

ANSI/TAPPI T 807 om-2011, Bursting strength of linerboard

Note: TAPPI has filed a PINS form for TAPPI T 807 om and the consensus body intends to seek approval of the standard as a new ANS.

Direct inquiries to: Brittaney Lovett; [standards@tappi.org](mailto:standards@tappi.org)

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

15 Technology Parkway, Suite 115, Peachtree Corners, GA 30092 | [standards@tappi.org](mailto:standards@tappi.org), [www.tappi.org](http://www.tappi.org)

ANSI/TAPPI T 821 om-2012, Pin adhesion of corrugated board by selective separation

Note: TAPPI has filed a BSR8 form for TAPPI T 821 om and the consensus body intends to seek approval of the standard as a new ANS.

Direct inquiries to: Brittaney Lovett; [standards@tappi.org](mailto:standards@tappi.org)

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

15 Technology Parkway, Suite 115, Peachtree Corners, GA 30092 | [standards@tappi.org](mailto:standards@tappi.org), [www.tappi.org](http://www.tappi.org)

ANSI/TAPPI T 822 om-2011, Ring crush of paperboard (rigid support method)

Note: TAPPI has filed a BSR8 form for TAPPI T 822 om and the consensus body intends to seek approval of the standard as a new ANS.

Direct inquiries to: Brittaney Lovett; [standards@tappi.org](mailto:standards@tappi.org)

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

15 Technology Parkway, Suite 115, Peachtree Corners, GA 30092 | [standards@tappi.org](mailto:standards@tappi.org), [www.tappi.org](http://www.tappi.org)

ANSI/TAPPI T 832 om-2012, Water absorption of corrugating medium: Float curl method

Note: TAPPI has filed a BSR8 form for TAPPI T 832 om and the consensus body intends to seek approval of the standard as a new ANS.

Direct inquiries to: Brittaney Lovett; [standards@tappi.org](mailto:standards@tappi.org)

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

15 Technology Parkway, Suite 115, Peachtree Corners, GA 30092 | [standards@tappi.org](mailto:standards@tappi.org), [www.tappi.org](http://www.tappi.org)

ANSI/TAPPI T 1006 sp-2010, Testing of fiber glass mats: use of modified TAPPI procedures for sampling and lot acceptance, stiffness, tear resistance, air permeability, and thickness

Note: TAPPI has filed a BSR8 form for TAPPI T 1006 sp and the consensus body intends to seek approval of the standard as a new ANS.

Direct inquiries to: Brittaney Lovett; [standards@tappi.org](mailto:standards@tappi.org)

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

15 Technology Parkway, Suite 115, Peachtree Corners, GA 30092 | [standards@tappi.org](mailto:standards@tappi.org), [www.tappi.org](http://www.tappi.org)

ANSI/TAPPI T 1013 om-2010, Loss on ignition of fiber glass mats

Note: TAPPI has filed a PINS form for TAPPI T 1013 om and the consensus body intends to seek approval of the standard as a new ANS.

Direct inquiries to: Brittaney Lovett; [standards@tappi.org](mailto:standards@tappi.org)

## **Notice of Withdrawal: ANS at least 10 years past approval date**

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

15 Technology Parkway, Suite 115, Peachtree Corners, GA 30092 | [standards@tappi.org](mailto:standards@tappi.org), [www.tappi.org](http://www.tappi.org)

ANSI/TAPPI T 1014 om-2010, Moisture sensitivity of fiber glass mats

Note: TAPPI has filed a BSR8 form for TAPPI T 1014 om 15 and the consensus body intends to seek approval of the standard as a new ANS.

Direct inquiries to: Brittaney Lovett; [standards@tappi.org](mailto:standards@tappi.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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## **AMPP (Association for Materials Protection and Performance)**

15835 Park Ten Place, Houston, TX 77084 | rick.southard@ampp.org, www.ampp.org

### ***National Adoption***

ANSI/NACE MR0175-2021/ISO 15156-2020, Petroleum and natural gas industries - Materials for use in H2S-containing environments in oil and gas production (identical national adoption of ISO 15156:2020 and revision of ANSI/NACE MR0175/ISO 15156-2015) Final Action Date: 9/21/2022

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

275 West Street, Suite 107, Annapolis, MD 21401 | admin@x9.org, www.x9.org

### ***Stabilized Maintenance***

ANSI X9.100-30-2011 (S2022), Optical Measurement Specifications for MICR Documents (stabilized maintenance of ANSI X9.100-30-2011 (R2017)) Final Action Date: 9/22/2022

### ***Stabilized Maintenance***

ANSI X9.100-150-2010 (S2022), Check Carrier Envelopes (stabilized maintenance of ANSI X9.100-150-2010 (R2017)) Final Action Date: 9/22/2022

### ***Stabilized Maintenance***

ANSI X9.100-151-2010 (S2022), Check Correction Strips (stabilized maintenance of ANSI X9.100-151-2010 (R2017)) Final Action Date: 9/23/2022

### ***Stabilized Maintenance***

ANSI X9.100-161-2010 (S2022), Creating MICR Document Specification Forms (stabilized maintenance of ANSI X9.100-161-2010 (R2017)) Final Action Date: 9/22/2022

### ***Stabilized Maintenance***

ANSI X9.100-170-2010 (S2022), Check Fraud Deterrent Icon (stabilized maintenance of ANSI X9.100-170-2010 (R2017)) Final Action Date: 9/22/2022

### ***Stabilized Maintenance***

ANSI X9.100-182-2011 (S2022), Bulk Image and Data Delivery (standard, XSD Schema, and TR 40) (stabilized maintenance of ANSI X9.100-182-2011 (R2017)) Final Action Date: 9/23/2022

### ***Stabilized Maintenance***

ANSI X9.100-183-2010 (S2022), Electronic Check Adjustments (stabilized maintenance of ANSI X9.100-183-2010 (R2017)) Final Action Date: 9/22/2022

### ***Stabilized Maintenance***

ANSI X9.100-40-1, X9.100-40-2-2008 (S2022), Specifications for Check Image Tests - Part 1: Definition of Elements and Structures - Part 2: Application and Registration Procedures) (stabilized maintenance of ANSI X9.100-40-1, X9.100-40-2-2008 (R2017)) Final Action Date: 9/22/2022

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

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

**Reaffirmation**

ANSI/ASME B18.7-2007 (R2022), General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps (reaffirmation of ANSI/ASME B18.7-2007 (R2017)) Final Action Date: 9/23/2022

**Stabilized Maintenance**

ANSI/ASME B18.7.1M-2007 (S2022), Metric General Purpose Semi-Tubular Rivets (stabilized maintenance of ANSI/ASME B18.7.1M-2007 (R2017)) Final Action Date: 9/23/2022

**Withdrawal**

ANSI/ASME B18.2.4.3M-1979 (R2017), Metric Slotted Hex Nuts (withdrawal of ANSI/ASME B18.2.4.3M-1979 (R2017)) Final Action Date: 9/23/2022

**ASTM (ASTM International)**

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

**New Standard**

ANSI/ASTM D2749-2022, Reinstatement of D2749-13 Standard Symbols for Dimensions of Plastic Pipe Fittings (new standard) Final Action Date: 9/20/2022

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

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

**Revision**

ANSI/CSA HGV 3.1-2022, Fuel system components for compressed hydrogen gas powered vehicles (revision of ANSI/CSA HGV 3.1-2014 (R2019)) Final Action Date: 9/20/2022

**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**

ANSI/CTA 2108-2022, Framework for Validation of Digital Health Technology-Derived Metrics under Naturalistic or Unconstrained Test Conditions (new standard) Final Action Date: 9/20/2022

**ECIA (Electronic Components Industry Association)**

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

**New Standard**

ANSI/EIA 364-122-2022, Safety Holes Test Procedure for Electrical Connectors (new standard) Final Action Date: 9/23/2022

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

18927 Hickory Creek Drive, Suite 220, Mokena, IL 60448 | [terry.burger@asse-plumbing.org](mailto:terry.burger@asse-plumbing.org), [\*\*Revision\*\*](http://www.asse-</a></p></div><div data-bbox=)

ANSI/ASSE 1086-2022, Performance Requirements for Reverse Osmosis Water Efficiency - Drinking Water (revision of ANSI/ASSE 1086-2020) Final Action Date: 9/22/2022

**ISA (International Society of Automation)**

3252 S. Miami Blvd, Suite 102, Durham, NC 27703 | crobinson@isa.org, www.isa.org

**Revision**

ANSI/ISA 96.06.01-2022, Guidelines for the Specification of Self-Contained Electro-Hydraulic Valve Actuators (revision of ANSI/ISA 96.06.01-2014) Final Action Date: 9/22/2022

**NEMA (National Electrical Manufacturers Association)**

1300 North 17th Street, Rosslyn, VA 22209 | Khaled.Masri@nema.org, www.nema.org

**New Standard**

ANSI/NEMA IM 60001-2022, Relative Temperature Indices of Industrial Thermosetting Laminates Standard (new standard) Final Action Date: 9/19/2022

**NENA (National Emergency Number Association)**

1700 Diagonal Road, Suite 500, Alexandria, VA 22314 | darnold@nena.org, www.nena.org

**New Standard**

ANSI/NENA STA-006.2-2022, NENA Standard for NG9-1-1 GIS Data Model (new standard) Final Action Date: 9/23/2022

**NSF (NSF International)**

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

**Revision**

ANSI/NSF 49-2022 (i167r1), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2020) Final Action Date: 9/21/2022

**Revision**

ANSI/NSF 455-2-2022 (i31r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2021) Final Action Date: 9/20/2022

**Revision**

ANSI/NSF 455-3-2022 (i30r1), Good Manufacturing Practices for Cosmetics (revision of ANSI/NSF 455-3-2021) Final Action Date: 9/20/2022

**Revision**

ANSI/NSF 455-4-2022 (i37r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2021) Final Action Date: 9/20/2022

**Revision**

ANSI/NSF/CAN 50-2022 (i191r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2022) Final Action Date: 9/19/2022

**TCATA (Textile Care Allied Trades Association)**

PO Box 690905, Houston, TX 77269-0905 | cfelinski@b11standards.org, www.tcata.org

**Reaffirmation**

ANSI Z8.1-2016 (R2022), Commercial Laundry Equipment and Operations - Safety Requirements (reaffirmation of ANSI Z8.1-2016) Final Action Date: 9/20/2022

**ULSE (UL Standards & Engagement)**

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

**Reaffirmation**

ANSI/UL 1559-2017 (R2022), Standard for Insect-Control Equipment - Electrocuting Type (reaffirmation of ANSI/UL 1559-2017) Final Action Date: 9/22/2022

**Reaffirmation**

ANSI/UL 60939-3-2017 (R2022), Standard for Passive filter units for electromagnetic interference suppression - Part 3: Passive filter units for which safety tests are appropriate (reaffirm a national adoption ANSI/UL 60939-3-2017) Final Action Date: 7/25/2022

**Revision**

ANSI/UL 199-2022a, Standard for Automatic Sprinklers for Fire-Protection Service (revision of ANSI/UL 199-2022) Final Action Date: 9/22/2022

**Revision**

ANSI/UL 343-2022, Standard for Safety for Oil-Burning Appliances (revision of ANSI/UL 343-2021) Final Action Date: 9/21/2022

**Revision**

ANSI/UL 355-2022, Standard for Safety for Cord Reels (revision of ANSI/UL 355-2021) Final Action Date: 9/21/2022

**Revision**

ANSI/UL 827-2022, Standard for Central-Station Alarm Services (August 5, 2022) (revision of ANSI/UL 827-2021) Final Action Date: 9/23/2022

**Revision**

ANSI/UL 1069-2022a, Standard for Safety for Hospital Signaling and Nurse Call Equipment (revision of ANSI/UL 1069-2022) Final Action Date: 9/21/2022

**Revision**

ANSI/UL 2200-2022, Standard for Stationary Engine Generator Assemblies (revision of ANSI/UL 2200-2020) Final Action Date: 9/23/2022



# Call for Members (ANS Consensus Bodies)

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

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## ANSI Accredited Standards Developer

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

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

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

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

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

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

## ANSI Accredited Standards Developer

### SCTE (Society of Cable Telecommunications Engineers)

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

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

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

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

# Call for Members (ANS Consensus Bodies)

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## **API (American Petroleum Institute)**

200 Massachusetts Avenue NW, Washington, DC 20001-5571 | fusarop@api.org, www.api.org

BSR/API RP 3000-2014 (R202x), Classifying and Loading of Crude Oil into Rail Tank Cars (reaffirmation of ANSI/API RP 3000-2014)

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

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

BSR/ASME IAM-1-202x, Investment Analysis Guidelines for Manufacturing (new standard)

## **CGA (Compressed Gas Association)**

8484 Westpark Drive, Suite 220, McLean, VA 22102 | tdeary@cganet.com, www.cganet.com

BSR/CGA H-3-202x, Standard for Cryogenic Hydrogen Storage (new standard)

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

13873 Park Center Road, Suite 315, Herndon, VA 20171 | Idonohoe@ecianow.org, www.ecianow.org

BSR/EIA 364-27D-202x, Mechanical Shock (Specified Pulse) Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA-364-27C-2011 (R2017))

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

13873 Park Center Road, Suite 315, Herndon, VA 20171 | Idonohoe@ecianow.org, www.ecianow.org

BSR/EIA 364-13E-2011 (R202x), Mating and Unmating Force Test Procedure for Electrical Connectors and Sockets (reaffirmation of ANSI/EIA 364-13E-2011 (R2017))

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

13873 Park Center Road, Suite 315, Herndon, VA 20171 | Idonohoe@ecianow.org, www.ecianow.org

BSR/EIA 364-17C-2011 (R202x), Temperature Life with or without Electrical Load Test Procedure for Electrical Connectors and Sockets (reaffirmation of ANSI/EIA 364-17C-2011 (R2017))

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

13873 Park Center Road, Suite 315, Herndon, VA 20171 | Idonohoe@ecianow.org, www.ecianow.org

BSR/EIA 364-25E-2017 (R202x), Probe Damage Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-25E-2017)

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

13873 Park Center Road, Suite 315, Herndon, VA 20171 | Idonohoe@ecianow.org, www.ecianow.org

BSR/EIA 364-28F-2011 (R202x), Vibration Test Procedure for Electrical Connectors and Sockets (reaffirmation of ANSI/EIA 364-28F-2011 (R2017))

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

13873 Park Center Road, Suite 315, Herndon, VA 20171 | Idonohoe@ecianow.org, www.ecianow.org

BSR/EIA 364-56E-2011 (R202x), Resistance to Soldering Heat Test Procedure for Electrical Connectors and Sockets (reaffirmation of ANSI/EIA 364-56E-2011 (R2017))

# Call for Members (ANS Consensus Bodies)

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

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

BSR/EIA 364-1005-2011 (R202x), Environmental Test Methodology for Determining the Susceptibility of Contacts to Fretting Corrosion (reaffirmation of ANSI/EIA 364-1005-2011 (R2017))

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

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

INCITS 577-202x, Information Technology - Fibre Channel - Security Protocols - 3 (FC-SP-3) (new standard)

## **NSF (NSF International)**

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

BSR/NSF 2-202x (i43r2), Food Equipment (revision of ANSI/NSF 2021)

## **NSF (NSF International)**

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

BSR/NSF 51-202x (i27r1), Food Equipment Materials (revision of ANSI/NSF 51-2021)

## **NSF (NSF International)**

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

BSR/NSF 358-1-202x (i7r2), Polyethylene Pipe and Fittings for Water-Based Ground-Source Geothermal Heat Pump Systems (revision of ANSI/NSF 358-1-2021)

## **NSF (NSF International)**

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

BSR/NSF 455-2-202x (i41r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2021)

## **NSF (NSF International)**

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

BSR/NSF 455-2-202x (i43r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2021)

## **NSF (NSF International)**

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

BSR/NSF 455-4-202x (i41r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2021)

## **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)

BSR/VITA 49.2-2017 (R202x), VITA Radio Transport (VRT) Standard for Electromagnetic Spectrum: Signals and Applications (reaffirmation of ANSI/VITA 49.2-2017)

# Call for Members (ANS Consensus Bodies)

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## **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)

BSR/VITA 89-202x, MT Circular Connectors - Type 2 (new standard)

# American National Standards (ANS) Announcements

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## Corrections

### SCTE - Society of Cable Telecommunications Engineers

#### Second Call for Comment Dates a publishing error

The 9/23/2022, Call for Comment section mistakenly listed the following SCTE proposals for a second public review. The first public review announcement published **August 19, 2022** in Standards Action will stand as the official call for comment period with a closing comment date of **October 3, 2022**:

BSR/SCTE 185-202x, Test Method for Cantilever Force, Female F Port

BSR/SCTE 85-2-2017 (R202x), HMS HE Optics Management Information Base (MIB) Part 2: SCTE-HMS-HE-OPTICAL-RECEIVER-MIB

BSR/SCTE 85-1-2017 (R202x), HMS HE Optics Management Information Base (MIB) Part 1: SCTE-HMS-HE-OPTICAL-TRANSMITTER-MIB

BSR/SCTE 85-3-2017 (R202x), HMS Inside Plant Management Information Base SCTE-HMS-HE-OPTICAL-AMPLIFIER-MIB

BSR/SCTE 85-4-2017 (R202x), HMS Common Inside Plant Management Information Base (MIB) SCTE-HMS-HE-OPTICAL-SWITCH-MIB

BSR/SCTE 94-1-2017 (R202x), HMS Common Inside Plant Management Information Base SCTE-HMS-HE-RF-AMP-MIB

BSR/SCTE 94-2-2017 (R202x), HMS Common Inside Plant Management Information Base SCTE-HMS-HE-RF-SWITCH-MIB

BSR/SCTE 112-2017 (R202x), HMS/DOCSIS Transponder for Outside Plant Power Supply

BSR/SCTE 113-2017 (R202x), HMS Digital Transport Management Information Base SCTE-HMS-HE-DIG-TRANSPORT-MIB

Please direct inquiries to: Kim Cooney; [kcooney@scte.org](mailto:kcooney@scte.org)

## Meeting Notices (Standards Developers)

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### ANSI Accredited Standards Developer

#### ASSP (ASC A10) - American Society of Safety Professionals, Safety Requirements for Construction and Demolition Operations

##### Meeting (In Person) January 24, 2023

The **American Society of Safety Professionals (ASSP)** serves as the secretariat of the **A10 Committee for Construction and Demolition Operations**. The next meeting of the A10 Committee will be held face-to-face on **January 24, 2023** at the International Brotherhood of Electrical Workers in Washington, DC. The meeting will start at approximately 12:30 p. m. and go to conclusion. Earlier that morning we also plan to have meetings for the Membership Subgroup, Definitions/Nomenclature Subgroup, Admin/Tech Review Subgroup, and a meeting of the liaisons and subgroup leadership teams. If you should have any questions, please contact Tim Fisher via the contact information below. Interested parties may contact: Tim Fisher, ASSP (ASC A10) p: (847) 768-3411 e: [tfisher@assp.org](mailto:tfisher@assp.org)

## American National Standards (ANS) Process

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

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

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

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

## American National Standards Under Continuous Maintenance

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

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

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

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

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



# ANSI-Accredited Standards Developers (ASD) Contacts

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

## AAFS

American Academy of Forensic Sciences  
410 North 21st Street  
Colorado Springs, CO 80904  
[www.aafs.org](http://www.aafs.org)  
Teresa Ambrosius  
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## AMPP

Association for Materials Protection and Performance  
15835 Park Ten Place  
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## API

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[godoyj@api.org](mailto:godoyj@api.org)  
Patty Fusaro  
[fusarop@api.org](mailto:fusarop@api.org)

## ASC X9

Accredited Standards Committee X9, Incorporated  
275 West Street, Suite 107  
Annapolis, MD 21401  
[www.x9.org](http://www.x9.org)  
Ambria Frazier  
[admin@x9.org](mailto:admin@x9.org)

## ASHRAE

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

## ASME

American Society of Mechanical Engineers  
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# ISO & IEC Draft International Standards



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

## COMMENTS

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

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

## ORDERING INSTRUCTIONS

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

## ISO Standards

### Additive manufacturing (TC 261)

ISO/ASTM DIS 52928, Additive manufacturing of metals- Feedstock materials - Powder life cycle management - 12/11/2022, \$82.00

### Agricultural food products (TC 34)

ISO/DIS 1442, Meat and meat products - Determination of moisture content - Reference method - 7/24/2022, \$46.00

ISO/DIS 8024, Concentrated black mulberry juice - Specifications - 12/10/2022, \$46.00

### Aircraft and space vehicles (TC 20)

ISO/DIS 5332, Test methods for civil lightweight and small UAS under low pressure conditions - 12/15/2022, \$46.00

ISO/DIS 27852, Space systems - Estimation of orbit lifetime - 7/22/2022, \$107.00

### Anaesthetic and respiratory equipment (TC 121)

IEC 80601-2-49:2018/DAMd 1., \$33.00

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

ISO/FDIS 5158, Mobile financial services - Customer identification guidelines - 12/23/2021, \$88.00

### Chemistry (TC 47)

ISO/DIS 7382, Ethylene for industrial use - Sampling in the liquid and the gaseous phase - 7/28/2022, \$53.00

ISO/DIS 8563, Propylene and butadiene for industrial use - Sampling in the liquid phase - 7/25/2022, \$58.00

### Document imaging applications (TC 171)

ISO/DIS 4669-1.2, Document management - Information classification, marking and handling - Part 1: Requirements - 10/3/2022, \$107.00

### Energy management and energy savings (TC 301)

ISO/DPAS FDIS 50010, Energy management and energy savings - Guidance for net zero energy in operations using an ISO 50001 energy management system -, \$88.00

### Fire safety (TC 92)

ISO/DIS 6021, Firebrand generator - 12/11/2022, \$46.00

### Fluid power systems (TC 131)

ISO/DIS 5119, Low Temperature Sealing Capability of Elastomeric Seals - Test Methods - 12/9/2022, \$58.00

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

### Freight containers (TC 104)

ISO/DIS 1496-4, Series 1 freight containers - Specification and testing - Part 4: Non-pressurized containers for dry bulk - 12/10/2022, \$82.00

### Gas cylinders (TC 58)

ISO/DIS 11623.2, Gas cylinders - Composite cylinders and tubes - Periodic inspection and testing - 7/28/2022, \$107.00

### Governance of organizations (TC 309)

ISO/DIS 37004, Governance of organizations - Governance maturity model - 7/28/2022, \$88.00

**Health Informatics (TC 215)**

ISO/DIS 11239, Health informatics - Identification of medicinal products - Data elements and structures for the unique identification and exchange of regulated information on pharmaceutical dose forms, units of presentation, routes of administration and packaging - 7/28/2022, \$93.00

ISO/DIS 29585, Health informatics - Framework for healthcare and related data reporting - 7/23/2022, \$112.00

**Hydrometric determinations (TC 113)**

ISO/FDIS 4359, Flow measurement structures - Rectangular, trapezoidal and U-shaped flumes - 9/18/2021, \$146.00

**Implants for surgery (TC 150)**

ISO/DIS 23500-1, Preparation and quality management of fluids for haemodialysis and related therapies - Part 1: General requirements - 12/11/2022, \$165.00

ISO/DIS 23500-2, Preparation and quality management of fluids for haemodialysis and related therapies - Part 2: Water treatment equipment for haemodialysis applications and related therapies - 12/12/2022, \$102.00

ISO/DIS 23500-3, Preparation and quality management of fluids for haemodialysis and related therapies - Part 3: Water for haemodialysis and related therapies - 12/12/2022, \$77.00

ISO/DIS 23500-4, Preparation and quality management of fluids for haemodialysis and related therapies - Part 4: Concentrates for haemodialysis and related therapies - 12/11/2022, \$82.00

ISO/DIS 23500-5, Preparation and quality management of fluids for haemodialysis and related therapies - Part 5: Quality of dialysis fluid for haemodialysis and related therapies - 12/12/2022, \$62.00

**Nuclear energy (TC 85)**

ISO/FDIS 20044, Measurement of radioactivity in the environment - Air: aerosol particles - Test method using sampling by filter media - 7/30/2021, \$112.00

ISO/DIS 24434-1, Radiological protection - Radiological monitoring for emergency workers and population following nuclear/radiological incidents - Part 1: General principles - 12/8/2022, \$146.00

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

ISO/FDIS 17411, Optics and photonics - Optical materials and components - Test method for homogeneity of optical glasses by laser interferometry - 12/19/2021, \$93.00

**Paints and varnishes (TC 35)**

ISO/DIS 4626, Volatile organic liquids - Determination of boiling range of organic solvents used as raw materials - 12/12/2022, \$77.00

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

ISO 11007-1:2021/DAmD 1, - Amendment 1: Petroleum products and lubricants - Determination of rust-prevention characteristics of lubricating greases - Part 1: Dynamic wet conditions - Amendment 1: Test bearings - 12/11/2022, \$29.00

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

ISO/DIS 3262-2, Extenders for paints - Specifications and methods of test - Part 2: Barytes (natural barium sulfate) - 7/22/2022, \$46.00

ISO/DIS 3262-3, Extenders for paints - Specifications and methods of test - Part 3: Blanc fixe - 7/22/2022, \$53.00

**Plastics (TC 61)**

ISO/DIS 10364, Structural adhesives - Determination of the pot life (working life) of multi-component adhesives - 12/11/2022, \$53.00

ISO/DIS 34256, Adhesives for non-structural wood applications - Test method and requirements for resistance to static load - 12/10/2022, \$40.00

ISO/DIS 34257, Adhesives - Wood adhesives - Determination of tensile strength of lap joints at elevated temperature (WATT 91) - 12/10/2022, \$33.00

**Rare earth (TC 298)**

ISO/DIS 23597, Rare earth - Determination of rare earth content in individual rare earth metal and their oxides - Titration method - 7/25/2022, \$53.00

**Road vehicles (TC 22)**

ISO/DIS 19612, Road vehicles - Diesel engine fuel filters - Single pass method of evaluating filtration performance of a fuel filter under cyclic flow conditions in combination with mechanical vibration - 12/8/2022, \$88.00

ISO/DIS 28741, Road vehicles - Spark-plugs and their cylinder head housings - Basic characteristics and dimensions - 12/15/2022, \$82.00

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

ISO/DIS 3136, Rubber latex - Styrene-butadiene - Determination of bound styrene content - 12/10/2022, \$33.00

ISO/DIS 3900, Rubber - Nitrile latex - Determination of bound acrylonitrile content - 12/10/2022, \$40.00

**Security (TC 292)**

ISO/FDIS 22322, Security and resilience - Emergency management - Guidelines for public warning -, \$58.00

ISO/FDIS 22324, Security and resilience - Emergency management - Guidelines for colour-coded alert -, \$58.00

ISO/FDIS 22328-3, Security and resilience - Emergency management - Part 3: Guidelines for the implementation of a community-based tsunami early warning system - 8/21/2021, \$67.00

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

ISO/DIS 24595, Drinking water, wastewater and stormwater systems and services - Guidelines for the provision of alternative water service for essential facilities during a crisis - 12/15/2022, \$93.00

ISO/DIS 24596, Drinking water, wastewater and stormwater systems and services - Guidelines for the planning and implementation of water and wastewater systems infrastructure hardening - 12/11/2022, \$98.00

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

ISO/DIS 24146-1, Ships and marine technology - Marine environment protection - Part 1: Management and handling of shipboard waste on inland vessels - 7/29/2022, \$98.00

### **Solid biofuels (TC 238)**

ISO/FDIS 5370, Solid biofuels - Determination of fines content in pellets - 12/5/2021, \$71.00

### **(TC 321)**

ISO/DIS 32111, Transaction assurance in E-commerce - Principles and Framework - 7/28/2022, \$77.00

### **Thermal insulation (TC 163)**

ISO/FDIS 24285, Thermal insulation for building equipment and industrial installations - Cellular glass products - Specification - 8/26/2021, \$62.00

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

ISO/DIS 24072.2, Aerosol bacterial retention test method for air-inlet on administration devices - 7/28/2022, \$46.00

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

ISO/DIS 17573-3, Electronic fee collection - System architecture for vehicle related tolling - Part 3: Data dictionary - 7/29/2022, \$119.00

ISO/DIS 24533-1, Intelligent transport systems - Electronic information exchange to facilitate the movement of freight and its intermodal transfer - Part 1: Road transport information exchange methodology - 12/11/2022, \$125.00

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

ISO/DIS 1089, Resistance welding equipment - Electrode taper fits for spot welding equipment - Dimensions - 7/29/2022, \$46.00

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

ISO/IEC 39794-4:2019/DAmD 1, Information technology - Extensible biometric data interchange formats - Part 4: Finger image data - Amendment 1: Extension towards improved interoperability with ANSI/NIST-ITL - 12/11/2022, \$53.00

ISO/IEC DIS 25002, Systems and software engineering - Systems and software Quality Requirements and Evaluation (SQuaRE) - Quality models overview and usage - 12/12/2022, \$71.00

ISO/IEC DIS 25010, Systems and software engineering - Systems and software Quality Requirements and Evaluation (SQuaRE) - Product quality model - 12/9/2022, \$82.00

ISO/IEC DIS 25019, Systems and software engineering - Systems and software Quality Requirements and Evaluation (SQuaRE) - Quality-in-use model - 12/9/2022, \$98.00

ISO/IEC FDIS 26563, Software and systems engineering - Methods and tools for product line configuration management - 10/25/2021, \$102.00

ISO/IEC FDIS 26564, Software and systems engineering - Methods and tools for product line measurement - 10/10/2021, \$107.00

ISO/IEC DIS 29102, Information technology - Office equipment - Method for the determination of ink cartridge photo yield for colour printing with inkjet printers and multi-function devices that contain inkjet printer components - 12/11/2022, \$93.00

ISO/IEC DIS 15426-2, Information technology - Automatic identification and data capture techniques - Bar code verifier conformance specification - Part 2: Two-dimensional symbols - 7/29/2022, \$67.00

ISO/IEC DIS 19770-6, Information technology - IT asset management - Part 6: Hardware identification tag - 12/10/2022, \$125.00

ISO/IEC DIS 15944-17, Information technology - Business operational view - Part 17: Fundamental principles and rules governing Privacy-by-Design (PbD) requirements in an EDI and collaboration space context - 12/10/2022, \$155.00

## IEC Standards

### Alarm systems (TC 79)

79/670/CDV, IEC 62676-5-1 ED1: Video surveillance systems for use in security applications - Part 5-1: Data specifications and image quality performance for camera devices - Environmental test methods for image quality performance, 12/16/2022

### Capacitors and resistors for electronic equipment (TC 40)

40/2975/FDIS, IEC 60539-1 ED4: Directly heated negative temperature coefficient thermistors - Part 1: Generic specification, 11/04/2022

### Electric road vehicles and electric industrial trucks (TC 69)

69/857(F)/FDIS, IEC 61980-3 ED1: Electric vehicle wireless power transfer (WPT) systems - Part 3: Specific requirements for magnetic field wireless power transfer systems, 10/14/2022

### Electromagnetic compatibility (TC 77)

77/586/DTR, IEC TR 61000-1-1 ED2: Electromagnetic compatibility (EMC) - Part 1-1: General - Application and interpretation of fundamental definitions and terms, 11/18/2022

77/585/DTR, IEC TR 61000-5-1 ED2: Electromagnetic compatibility (EMC) - Part 5-1: Installation and mitigation guidelines - General considerations, 11/18/2022

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

48B/3001/FDIS, IEC 60352-6 ED2: Solderless connections - Part 6: Insulation piercing connections - General requirements, test methods and practical guidance, 11/04/2022

48B/3000/FDIS, IEC 61076-2-116 ED1: Connectors for electrical and electronic equipment - Product requirements - Part 2 -116: Detail specification for circular connectors size 15 with up to 3 +PE power contacts and auxiliary contacts, with bayonet-locking., 11/04/2022

### Fibre optics (TC 86)

86/605/FDIS, IEC 62496-2-5 ED1: Optical circuit boards - Basic test and measurement procedures - Part 2-5: Flexibility test for flexible opto-electric circuits, 11/04/2022

### High Voltage Direct Current (HVDC) transmission for DC voltages above 100 kV (TC 115)

115/311/CD, IEC TS 63336 ED1: Commissioning of VSC HVDC systems, 12/16/2022

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

65E/937/NP, PNW 65E-937 ED1: Industrial-process measurement and control - Data structures and elements, 12/16/2022

### Lamps and related equipment (TC 34)

34/948(F)/FDIS, IEC 62386-102 ED3: Digital addressable lighting interface - Part 102: General requirements - Control gear, 10/14/2022

34/946(F)/FDIS, IEC 62386-103 ED2: Digital addressable lighting interface - Part 103: General requirements - Control devices, 10/14/2022

### Laser equipment (TC 76)

76/717/FDIS, IEC 60825-12 ED3: Safety of laser products - Part 12: Safety of free space optical communication systems used for transmission of information, 11/04/2022

### Measuring relays and protection equipment (TC 95)

95/513/FDIS, IEC 60255-1 ED2: Measuring relays and protection equipment - Part 1: Common requirements, 11/04/2022

### Printed Electronics (TC 119)

119/402/CD, IEC 62899-301-3 ED1: Printed Electronics - Part 301-3: Equipment - Contact printing - Rigid master - Method to measure the shape errors of printing plate rollers, 12/16/2022

### Process Management for Avionics (TC 107)

107/395/CD, IEC TR 62500 ED1: Process management for avionics - Highly severe stress tests for operating margins identification and robustness improvement of avionics equipment - Application guide, 12/16/2022

### Safety of machinery - Electrotechnical aspects (TC 44)

44/981/DTS, IEC TS 62998-3 ED1: Safety of Machinery &ndash; Safety-related sensors used for the protection of persons Part 3: Sensor technologies and algorithms, 12/16/2022

44/980/DTS, IEC TS 63394 ED1: Safety of machinery &ndash; Guidelines on functional safety of safety-related control system, 12/16/2022

### Safety of measuring, control, and laboratory equipment (TC 66)

66/769/CD, IEC 61010-1/AMD2 ED3: Amendment 2 - Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements, 12/16/2022

**Semiconductor devices (TC 47)**

47E/794/FDIS, IEC 60747-16-7 ED1: Semiconductor devices - Part 16-7: Microwave integrated circuits - Attenuators, 11/04/2022

47E/793/FDIS, IEC 60747-16-8 ED1: Semiconductor devices - Part 16-8: Microwave integrated circuits - Limiters, 11/04/2022

47A/1145(F)/FDIS, IEC 62228-6 ED1: Integrated circuit - EMC evaluation of transceivers - Part 6: PSIS transceivers, 10/14/2022

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

96/556/FDIS, IEC 61558-2-20 ED3: Safety of transformers, reactors, power supply units and combinations thereof - Part 2 -20: Particular requirements and tests for small reactors, 11/04/2022

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

82/2089/CD, IEC 62920 ED2: Photovoltaic power generating systems - EMC requirements and test methods for power conversion equipment, 11/18/2022

**Solar thermal electric plants (TC 117)**

117/170/CD, IEC 62862-1-5 ED1: Solar thermal electric plants - Part 1-5: Performance code test for solar thermal electric plants, 12/16/2022

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

8/1638A/CD, IEC TS 62786-3 ED1: Distributed energy resources connection with the grid - Part 3 Additional requirements for Stationary Battery Energy Storage System, 12/02/2022

**Surface mounting technology (TC 91)**

91/1811/DTR, IEC TR 61191-5 ED1: Printed board assemblies - Part 9: Electrochemical reliability and ionic contamination on printed-circuit board assemblies for use in automotive applications - Best practices, 11/18/2022

**(TC )**

CIS/A/1381/CD, CISPR 16-1-1/AMD1/FRAG1 ED5: Amendment 1 - Fragment 1: 18-40 GHz Instrumentation, 11/18/2022

SyCAAL/281/CD, IEC SRD 63416 ED1: Ethical considerations of Artificial Intelligence (AI) when applied in the Active Assisted Living (AAL) context, 12/16/2022

JTC1-SC41/311/CD, ISO/IEC 30149 ED1: Internet of Things (IoT) - Trustworthiness Principles, 11/18/2022

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

103/244/FDIS, IEC 63098-2 ED1: Transmitting and receiving equipment for radiocommunication - Radio-over-fibre technologies and their performance standard - Part 2: Radio-over-fibre-based fronthaul network for railway communication systems, 11/04/2022

103/245/FDIS, IEC 63098-3 ED1: Transmitting and receiving equipment for radiocommunication - Radio-over-fibre technologies and their performance standard - Part 3: Radio-over-fibre-based remote radar for foreign object debris (FOD) detection systems, 11/04/2022

**Wind turbine generator systems (TC 88)**

88/908/NP, PNW 88-908 ED1: Standard file format for sharing power curve information, 12/16/2022



# Newly Published ISO & IEC Standards

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

## ISO Standards

### Air quality (TC 146)

[ISO 16000-3:2022](#), Indoor air - Part 3: Determination of formaldehyde and other carbonyl compounds in indoor and test chamber air - Active sampling method, \$175.00

### Aircraft and space vehicles (TC 20)

[ISO 16378:2022](#), Space systems - Measurements of thermo-optical properties of thermal control materials, \$200.00

### Applications of statistical methods (TC 69)

[ISO 28596:2022](#), Sampling procedures for inspection by attributes - Two-stage sampling plans for auditing and for inspection under prior information, \$200.00

### Earth-moving machinery (TC 127)

[ISO 6165:2022](#), Earth-moving machinery - Basic types - Identification and vocabulary, \$48.00

### Floor coverings (TC 219)

[ISO 26986:2010/Amd 1:2022](#), Resilient floor coverings - Expanded (cushioned) poly(vinyl chloride) floor covering - Specification - Amendment 1, \$20.00

### Geographic information/Geomatics (TC 211)

[ISO 6709:2022](#), Standard representation of geographic point location by coordinates, \$175.00

### Industrial automation systems and integration (TC 184)

[ISO 8000-2:2022](#), Data quality - Part 2: Vocabulary, \$48.00

[ISO 23218-2:2022](#), Industrial automation systems and integration - Numerical control systems for machine tools - Part 2: Requirements for numerical control system integration, \$73.00

[ISO 10303-238:2022](#), Industrial automation systems and integration - Product data representation and exchange - Part 238: Application protocol: Model based integrated manufacturing, \$250.00

### Industrial fans (TC 117)

[ISO 13349-1:2022](#), Fans - Vocabulary and definitions of categories - Part 1: Vocabulary, \$48.00

[ISO 13349-2:2022](#), Fans - Vocabulary and definitions of categories - Part 2: Categories, \$149.00

### Light and Lighting (TC 274)

[ISO/CIE TR 21783:2022](#), Light and lighting - Integrative lighting - Non-visual effects, \$111.00

### Machine tools (TC 39)

[ISO 10791-10:2022](#), Test conditions for machining centres - Part 10: Evaluation of thermal distortions, \$200.00

### Plastics (TC 61)

[ISO 5412:2022](#), Plastics - Industrial compostable plastic shopping bags, \$111.00

[ISO 22841:2021/Amd 1:2022](#), Composites and reinforcements fibres - Carbon fibre reinforced plastics(CFRPs) and metal assemblies - Determination of the tensile lap-shear strength - Amendment 1: Precision data, \$20.00

[ISO 16396-1:2022](#), Plastics - Polyamide (PA) moulding and extrusion materials - Part 1: Designation system and basis for specifications, \$111.00

### Ships and marine technology (TC 8)

[ISO 11711-2:2022](#), Ships and marine technology - Aquatic nuisance species - Part 2: Ballast water sample collection and handling, \$200.00

### Small tools (TC 29)

[ISO 603-14:2022](#), Bonded abrasive products - Dimensions - Part 14: Grinding wheels for deburring and fettling/snagging on an angle grinder, \$73.00

[ISO 603-15:2022](#), Bonded abrasive products - Dimensions - Part 15: Cutting-off wheels on stationary or mobile cutting-off machines, \$48.00

[ISO 603-16:2022](#), Bonded abrasive products - Dimensions - Part 16: Cutting-off wheels on hand held power tools, \$48.00

### Surface chemical analysis (TC 201)

[ISO 17862:2022](#), Surface chemical analysis - Secondary ion mass spectrometry - Linearity of intensity scale in single ion counting time-of-flight mass analysers, \$111.00



## ISO Technical Reports

### Earth-moving machinery (TC 127)

[ISO/TR 6750-2:2022](#), Earth-moving machinery - Operators manual - Part 2: List of references, \$48.00

## ISO Technical Specifications

### Natural gas (TC 193)

[ISO/TS 16922:2022](#), Natural gas - Odorization, \$73.00

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

[ISO/TS 16486-8:2022](#), Plastics piping systems for the supply of gaseous fuels - Unplasticized polyamide (PA-U) piping systems with fusion jointing and mechanical jointing - Part 8: Training and assessment of fusion operators, \$73.00

## ISO/IEC JTC 1, Information Technology

[ISO/IEC 14763-4:2021/Cor 1:2022](#), Corrigendum, FREE

[ISO/IEC 21122-5:2022](#), Information technology - JPEG XS low-latency lightweight image coding system - Part 5: Reference software, \$111.00

[ISO/IEC 23090-3:2022](#), Information technology - Coded representation of immersive media - Part 3: Versatile video coding, \$250.00

[ISO/IEC 21000-22:2022](#), Information technology - Multimedia framework (MPEG-21) - Part 22: User description, \$250.00

## IEC Standards

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

[IEC 60601-2-54 Ed. 2.0 b:2022](#), Medical electrical equipment - Part 2-54: Particular requirements for the basic safety and essential performance of X-ray equipment for radiography and radioscopy, \$392.00

[S+ IEC 60601-2-54 Ed. 2.0 en:2022 \(Redline version\)](#), Medical electrical equipment - Part 2-54: Particular requirements for the basic safety and essential performance of X-ray equipment for radiography and radioscopy, \$510.00

### Fibre optics (TC 86)

[IEC 62007-1 Amd.1 Ed. 3.0 b:2022](#), Amendment 1 - Semiconductor optoelectronic devices for fibre optic system applications - Part 1: Specification template for essential ratings and characteristics, \$13.00

[IEC 62007-1 Ed. 3.1 b:2022](#), Semiconductor optoelectronic devices for fibre optic system applications - Part 1: Specification template for essential ratings and characteristics, \$354.00

[IEC 62148-12 Amd.1 Ed. 1.0 b:2022](#), Amendment 1 - Fibre optic active components and devices - Package and interface standards - Part 12: Laser transmitters with a coaxial RF connector, \$13.00

[IEC 62148-12 Ed. 1.1 b:2022](#), Fibre optic active components and devices - Package and interface standards - Part 12: Laser transmitters with a coaxial RF connector, \$82.00

## IEC Technical Reports

### Laser equipment (TC 76)

[IEC/TR 62471-4 Ed. 1.0 en:2022](#), Photobiological safety of lamps and lamp systems - Part 4: Measuring methods, \$392.00

## IEC Technical Specifications

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

[IEC/TS 62607-6-21 Ed. 1.0 en:2022](#), Nanomanufacturing - Key control characteristics - Part 6-21: Graphene-based material - Elemental composition, C/O ratio: X-ray photoelectron spectroscopy, \$221.00

# International Electrotechnical Commission (IEC)

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## U.S. Participants Needed

### Standardization Evaluation Group (SEG) 14: Quantum technologies

During the February 2022 SMB meeting, SMB set up SEG 14 *Quantum technologies* to explore standardization opportunities in the area of quantum technologies.

As this SEG is an open group, each National Committee is able to submit an unlimited number of experts to participate. Individuals interested in serving as a US participant on SEG 14 are invited to register directly on the [IEC site](#).

Please see the scope for SEG 14 below.

#### Scope:

- *Investigate needs for standardization in the area of quantum technologies.*
- *Evaluate technical capabilities and applications in this field.*
- *Investigate current research and technology activities.*
- *Propose a roadmap for standardization in the area of quantum technologies.*
- *Engage with TC/SC/SyCs, including JTC 1, as well as with ISO and other market and policy relevant organizations.*
- *Make recommendations to SMB as appropriate.*

# International Organization for Standardization (ISO)

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## Call for International (ISO) Secretariat

### ISO/TC 92/SC 2 – Fire containment

Reply Deadline: October 28, 2022

Currently, the U.S. holds a leadership position as Secretariat of ISO/TC 92/SC 2 – *Fire containment*. ANSI has delegated the responsibility for the administration of the Secretariat for ISO/TC 92/SC 2 to ASTM International. ASTM has advised ANSI of its intent to relinquish its role as delegated Secretariat for this committee.

ISO/TC 92/SC 2 operates under the following scope:

*Development of standards in the field of Fire containment within the scope of ISO/TC 92 Fire safety:*

*Standardization of the methods of assessing*

- o *fire hazards and fire risk to life and to property;*
- o *the contribution of design, materials, building materials, products and components to fire safety*

*and methods of mitigating the fire hazards and fire risks by determining the performance and behaviour of these materials, products and components, as well as of buildings and structures.*

*Excluded:*

- o *materials and equipments already covered by other technical committees;*
- o *fields covered by other ISO and IEC committees.*

ANSI is seeking organizations in the U.S. that may be interested in assuming the role of delegated Secretariat for ISO/TC 92/SC 2. Alternatively, ANSI may be assigned the responsibility for administering an ISO Secretariat. Any request that ANSI accept the direct administration of an ISO Secretariat shall demonstrate that:

1. The affected interests have made a financial commitment for not less than three years covering all defined costs incurred by ANSI associated with holding the Secretariat;
2. the affected technical sector, organizations or companies desiring that the U.S. hold the Secretariat request that ANSI perform this function;
3. the relevant U.S. TAG has been consulted with regard to ANSI's potential role as Secretariat; and
4. ANSI is able to fulfill the requirements of a Secretariat.

If no U.S. organization steps forward to assume the ISO/TC 92/SC 2 Secretariat, or if there is insufficient support for ANSI to assume direct administration of this activity by October 28, 2022, then ANSI will inform the ISO Central Secretariat that the U.S. will relinquish its leadership of the committee. This will allow ISO to solicit offers from other countries interested in assuming the Secretariat role.

Information concerning the United States retaining the role of international Secretariat may be obtained by contacting ANSI's ISO Team ([isot@ansi.org](mailto:isot@ansi.org)).

## International Organization for Standardization (ISO)

### ISO New Work Item Proposal

#### Management System for UN Sustainable Development Goals – Requirements for Any Organization

**Comment Deadline: October 28, 2022**

DS, the ISO member body for Denmark, has submitted to ISO a proposal for a new field of ISO technical activity on Management System for UN Sustainable development goals – Requirements for any organization, with the following scope statement:

*This International Standard specifies requirements for a Sustainable Development Goals Management System when an organization:*

- a) Needs to demonstrate and enhance its work and performance towards the UN SDGs.*
- b) Seeks to manage its responsibilities in a systematic manner that contributes to the pillars of sustainability.*

*Consistent with the SDG policy of the organization, the intended outcome of an SDG management system is to:*

- c) Enhance the organization's performance.*
- d) Fulfill compliance obligations.*
- e) Achieve selected SDG objectives.*
- f) Increase success.*
- g) Create trust and confidence to relevant existing and future stakeholders.*

*This proposal employs the process approach, PDCA and risk-based thinking.*

*PLEASE NOTE that Danish Standards propose to make an initial scope- and title clarification period where scope, title and other unresolved issues can be discussed before starting the drafting process.*

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team ([isot@ansi.org](mailto:isot@ansi.org)), with a submission of comments to Steve Cornish ([scornish@ansi.org](mailto:scornish@ansi.org)) by close of business on **Friday, October 28, 2022**.

### ISO Proposal for a New Field of ISO Technical Activity

#### Ayush Systems

**Comment Deadline: October 14, 2022**

BIS, the ISO member body for India, has submitted to ISO a proposal for a new field of ISO technical activity on Ayush Systems, with the following scope statement:

*Standardization in the field of Ayush systems including Ayurveda, Yoga, Naturopathy, Unani, Siddha, Sowa rigpa and Homoeopathy. Both traditional and modern aspects of products and services of these systems are covered.*

*Excluded from its scope are products and services covered by ISO/TC 54 Essential oils, ISO/TC 215 Health Informatics, and ISO/TC 249 Traditional Chinese Medicine.*

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team ([isot@ansi.org](mailto:isot@ansi.org)), with a submission of comments to Steve Cornish ([scornish@ansi.org](mailto:scornish@ansi.org)) by close of business on Friday, October 14, 2022.

# Registration of Organization Names in the United States

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

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

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

## Public Review

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

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

# Proposed Foreign Government Regulations

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## Call for Comment

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

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

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

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



**BSR/ASHRAE Addendum b  
to ANSI/ASHRAE Standard 34-2022**

**Public Review Draft**

**Proposed Addendum b to  
Standard 34-2022, Designation and  
Safety Classification of  
Refrigerants**

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

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

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

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

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180 Technology Parkway NW, Peachtree Corners, GA 30092

BSR/ASHRAE Addendum b to ANSI/ASHRAE Standard 34-2022, *Designation and Safety Classification of Refrigerants*  
First Public Review Draft

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

## FOREWORD

*This proposed addendum adds the zeotropic refrigerant blend R-477A to Tables 4-2 and D-2.*

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

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### **Addendum b to Standard 34-2022**

***Modify Tables 4-2 and D-2 as shown.***

#### **Table 4-2 Data and Safety Classifications for Refrigerant Blends**

Refrigerant Number = 477A

Composition (Mass %) = R-1270/600a (84.0/16.0)

Composition tolerances = ±2.0/±2.0

OEL = 530 ppm v/v

Safety Group = A3

RCL = 1,100 ppm v/v; 0.13 lb/1000 ft<sup>3</sup>; 2.0 g/m<sup>3</sup>

LFL = 21,000 ppm v/v; 2.4 lb/1000 ft<sup>3</sup>; 38 g/m<sup>3</sup>

Highly Toxic or Toxic Under Code Classification = Neither

#### **Table D-2 Data Classifications for Refrigerant Blends**

Refrigerant Number = 477A

Composition (Mass %) = R-1270/600a (84.0/16.0)

Average Relative Molar Mass = 44.0 g/mol

Bubble Point (°F) = -48.3

Dew Point (°F) = -35.0

Bubble Point (°C) = -44.6

Dew Point (°C) = -37.2





**BSR/ASHRAE Addendum c  
to ANSI/ASHRAE Standard 34-2022**

**Public Review Draft**

**Proposed Addendum c to  
Standard 34-2022, Designation and  
Safety Classification of  
Refrigerants**

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

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

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

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180 Technology Parkway NW, Peachtree Corners, GA 30092

BSR/ASHRAE Addendum c to ANSI/ASHRAE Standard 34-2022, *Designation and Safety Classification of Refrigerants*  
First Public Review Draft

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

## FOREWORD

*This proposed addendum adds the zeotropic refrigerant blend R-477B to Tables 4-2 and D-2.*

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

### **Addendum c to Standard 34-2022**

***Modify Tables 4-2 and D-2 as shown.***

#### **Table 4-2 Data and Safety Classifications for Refrigerant Blends**

Refrigerant Number = 477B

Composition (Mass %) = R-1270/600a (38.0/62.0)

Composition tolerances = +1.0,-2.0/+2.0,-1.0

OEL = 690 ppm v/v

Safety Group = A3

RCL = 2,100 ppm v/v; 0.27 lb/1000 ft<sup>3</sup>; 4.3 g/m<sup>3</sup>

LFL = 18,000 ppm v/v; 2.3 lb/1000 ft<sup>3</sup>; 37 g/m<sup>3</sup>

Highly Toxic or Toxic Under Code Classification = Neither

#### **Table D-2 Data Classifications for Refrigerant Blends**

Refrigerant Number = 477B

Composition (Mass %) = R-1270/600a (38.0/62.0)

Average Relative Molar Mass = 50.8 g/mol

Bubble Point (°F) = -24.7

Dew Point (°F) = -9.6

Bubble Point (°C) = -31.5

Dew Point (°C) = -23.1



**American Water Works  
Association**

*Dedicated to the World's Most Important Resource™*

Addendum to  
ANSI/AWWA C205-18

## **Cement-Mortar Protective Lining and Coating for Steel Water Pipe – 4 In. (100mm) and Larger – Shop Applied**

July 2022

Revise Sec. 4.2.2.1 *Type* under Sec. 4.2.2 *Portland cement* as follows:

4.2.2 *Portland eCement.*

4.2.2.1 *Type.* Cement for mortar shall conform to: ASTM C150/C150M: Type I, Type II, or Type V; or ASTM C595/C595M Type IL, IL(MS), or IL(HS). ~~may be used unless the purchaser specifies a particular type.~~ Sampling and testing shall conform to the individual ASTM specifications designated in that standard. The maximum alkali content shall be 0.60 percent when experience indicates the aggregate sources are reactive to alkalis.

Add the following to Sec. 2 References

[ASTM C595/C595M - Standard Specification for Blended Hydraulic Cements](#)

### **Reason for Change**

The US Cement manufacturers have initiated a switch from C150 cements to C595 IL limestone blended cement with 5% to 15% limestone. C150 allows up to 5%. Areas of the country have already converted and C150 is no longer available. C595 IL is considered a 1 to 1 replacement with comparable characteristics to C150 while being more environmentally friendly.

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## NSF International Standard / American National Standard –

# Food Equipment

## 5 Design and construction

This section contains design and construction requirements for equipment covered within the scope of this standard.

- 

### 5.20 Equipment mounting

5.20.1 Floor-mounted equipment shall be designed and manufactured to be:

- portable; or
- mobile; or
- sealed to the floor; or
- elevated on legs that provide a minimum unobstructed clearance beneath the unit of 6.0 in (152 mm); or
- elevated on legs that provide a minimum unobstructed clearance beneath the unit of 4.0 in (102 mm), provided that no part of the floor under the equipment is more than 6.0 in (152 mm) from the point of cleaning access.

5.20.2 Counter-mounted equipment shall be designed and manufactured to be:

- portable; or
- sealed to the counter; or
- elevated on legs that provide a minimum unobstructed clearance beneath the unit of 4.0 in (102 mm); or
- elevated on legs that provide a minimum unobstructed clearance beneath the unit of 3.0 in (76 mm), provided that no part of the countertop under the footprint of the equipment is more than 16 in (41 cm) from the point of cleaning access; or
- elevated on legs that provide a minimum unobstructed clearance beneath the unit of 2.0 in (51 mm), provided that no part of the countertop under the footprint of the equipment is more than 3.0 in (76 mm) from the point of cleaning access.

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**5.20.3** Portable equipment shall not weigh more than 80 lb (36 kg) and shall not exceed 36 in (91 cm) in any plane.

**5.20.4** Utility connections on portable equipment and mobile equipment shall be designed to be disconnected without the use of tools or shall be of sufficient length to permit the equipment to be moved for cleaning.

**5.20.5** Kick plates on floor-mounted equipment shall be removable.

**5.20.6** Equipment having plumbing connections or liquid reservoirs that is intended to be sealed to the floor or counter shall be designed and manufactured to prevent entrapment of liquids beneath the equipment if internal leakage were to occur.

**5.20.7** Equipment designed and manufactured to be sealed to the floor or counter shall be provided with written installation instructions that include the following:

- A statement indicating the equipment is required to be sealed to the floor or counter to establish proper sanitary operation; and
- Procedures for how the equipment is intended to be sealed to the floor or counter, indicating any recommended sealing materials and mounting surface characteristics; and
- A statement indicating that once sealed in accordance with these procedures, the result is intended to prevent liquid spillage on adjacent surfaces of the floor or countertop from passing under inaccessible portions of the equipment.

***Rationale:** Current NSF Food Equipment Standards offer sealing equipment to the floor or countertop as one acceptable option for equipment mounting. The current standards do not contain requirements for manufacturers to designate the intent to seal equipment to the mounting surface in installation instructions. Equipment improperly sealed to the mounting service can generate sanitary risks. Adding instructional requirements can be helpful in communicating the need to properly seal the equipment to the mounting surface, provide recommended sealing procedures, and provide guidance on inspection and maintenance for ongoing compliance.*

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## NSF/ANSI Standard for Food Equipment –

# Food Equipment Materials

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## 4 Material formulation

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**4.1.2** Food zone materials shall not contain lead, arsenic, cadmium, or mercury as intentional ingredients. Brass and bronze materials may contain lead as permitted under Section 4.2.3.2.

**4.1.3** Equipment having materials in contact with water, coffee, or tea which is intended for human consumption shall be evaluated for weighted average lead content in accordance with NSF/ANSI/CAN 372, *Drinking Water System Components – Lead Content*. The weighted average lead content of the contact materials and coated substrates shall be  $\leq 0.25\%$ .

**4.1.3.1** The requirements of 4.1.3 shall apply to water contact materials in water heater heaters.

**4.1.3.2** Equipment such as, but not limited to, proofers, steamers, combination ovens and other systems with similar humidification and vaporization pathways shall be exempt from 4.1.3.

**4.1.34** Coatings containing lead as an intentional ingredient shall not be used on food equipment surfaces, including splash zones and nonfood zones. Coatings with an unintentional lead content (lead impurity) greater than 0.06% shall not be used.

## 4.2.3 Copper and copper alloys

**4.2.3.1** Copper and copper alloys shall not be used in a food zone or splash zone except where rendered corrosion-resistant or where exposure to food is limited to potable, noncarbonated water under constant service pressure. Exceptions to this requirement are specified in Section 4.2.3.2 for brass and bronze and in Section 4.2.3.4 for copper-nickel alloys.

**4.2.3.2** Brass and bronze may be used in a food zone or splash zone only where rendered corrosion resistant or where exposure to food is clearly and specifically limited to ~~tea, coffee, or water~~, coffee, or tea.

~~**4.2.3.3** Equipment having brass or bronze components in contact with tea, coffee, or water (as permitted in Section 4.2.3.2), which is intended for human consumption, shall be evaluated for weighted average lead content in accordance with NSF/ANSI 372, *Drinking Water System Components – Lead Content*. The weighted average lead content of the water contact portion of the equipment shall be  $\leq 0.25\%$ .~~

~~NOTE 1 — If a coating (organic or metallic) is applied to the brass or bronze components, evaluation to NSF/ANSI 372 is still applicable.~~

Tracking number 51i27r1  
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Revision to NSF/ANSI 51 – 2021  
Issue 27, Revision 1 (September 2022)

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~~NOTE 2 — Equipment such as, but not limited to, proofers, steamers, combination ovens and other systems with similar humidification and vaporization pathways shall be exempt from Section 4.2.3.3.~~

**4.2.3.4** Copper-nickel alloys may be used in a food zone or splash zone only where rendered corrosion resistant or where exposure to food is clearly and specifically limited to nonacidic foods and beverages (i.e. food and beverages with a pH of 6.0 or greater).

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*Rationale: Currently NSF/ANSI 51 only requires evaluation to NSF/ANSI/CAN 372 when brass or bronze materials are present. This proposal brings NSF/ANSI 51 into alignment with the most recent updates to the Safe Drinking Water Act. Links to the Federal Register and CFR below*

[Federal Register :: Use of Lead Free Pipes, Fittings, Fixtures, Solder, and Flux for Drinking Water eCFR :: 40 CFR 143.19 -- Required certification of products.](#)

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NSF/ANSI Standard  
for Plastics —

## Polyethylene Pipe and Fittings for Water-Based Ground-Source “Geothermal” Heat Pump Systems

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- 
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### 4.4 Hydrostatic design

The maximum hydrostatic design basis stress (HDB HDS) of polyethylene material shall be determined in accordance with PPI Technical Report Number 3 (TR-3)<sup>Error! Bookmark not defined.</sup> for the temperature and HDB HDS values in Table 4.1.

**Table 4.1**  
**Minimum Maximum hydrostatic design stress per**  
**PPI TR-4 at 73°F (23 °C)**

Plastic material	HDS at 73 °F (23 °C)	HDS at 140 °F (60 °C)
PE3608	800	400
PE3710	1000	630
PE4608	800	400
PE4710	1000	630

The minimum hydrostatic values (HDB) of polyethylene material shall be determined in accordance with PPI Technical Report Number 3 (TR-3)<sup>7</sup> for the temperature and HDB values listed in Table 4.2.

**Table 4.2**  
**Minimum hydrostatic values per**  
**PPI TR-4 at 140 °F (60°C)**

Plastic material	HDB
PE3608	800
PE3710	1000
PE4608	800
PE4710	1000

*Rationale: The HDS and HDB is calculated per PPI TR-3 but the listings of the HDS and HDB reside in PPI TR-4.*



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NSF/ANSI Standard  
for GMP for Dietary Supplements –

## Good Manufacturing Practices for Dietary Supplements

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### 4 Audit Requirements

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#### 4.4 Support

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~~4.4.38 QC operations shall prepare and maintain all records required by Subpart F – Production and Process Control System: Requirements for Quality Control. When there are requirements for review, approval or rejection, they shall be documented by QC personnel via signature and date of performance. [21 CFR § 111.140(b2)]~~

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~~4.4.41 Procedures shall be established that describe the requirements for record retention under Subpart P – Records and Recordkeeping. [21 CFR § 111.605(a)(b)]~~

~~4.4.42 Records required by 21 CFR § 111 shall be maintained for at least one year after the shelf life date or at least two years beyond the date of distribution of the last batch associated with those records. [21 CFR § 111.605(a)]~~

~~4.4.43 All records shall be maintained as original record, as true copies or as electronic records. [21 CFR § 111.605(b)]~~

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~~4.4.45 Electronic GMP inventory records that are created, modified, maintained, archived, retrieved, or distributed by a computer system, shall be 21 CFR Part 11 compliant. [21 CFR Part 111.605(c)]~~

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### 4.5 Operation

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**4.5.73** Product distribution records shall be retained. ~~Records shall be maintained for at least one year after the shelf life date, if shelf life dating is being used, or at least two years beyond the date of distribution of the last batch associated with those records. [21 CFR § 111.475(b2)]~~

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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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### 5.7 Nonconformances and corrective action

#### 5.7.1 Company provides a corrective action plan for all findings

The company ~~is responsible for generating~~ shall submit a corrective action plan ~~to address any~~ that includes implementation dates for each nonconformances within ten (10) business days of receipt the final audit report. If the Company requires additional time to ~~complete~~ submit the plan, the company shall request additional time ~~of~~ with the CB. ~~For each nonconformance, the applicant / auditee shall submit a corrective action plan together with timing for completion. The company is to document the plan using the online corrective action reporting system in the format of the template presented in Appendix D. Depending on the grade received, a company may be required to submit objective evidence of completion for approved corrective action plans per section 5.7.3.~~

#### 5.7.2 CB reviews the corrective action plan to ensure planned corrective actions are sufficient.

The CB reviews the corrective action plan within ~~ten~~ (10) business days of receipt to ensure planned corrective actions are sufficient. The proposed plan is reviewed by the technical reviewer and auditor, as applicable, for appropriateness. Each ~~line item~~ plan is independently reviewed and either approved, rejected, or additional information is requested. The submission of a corrective action plan does not change the grade assigned by the CB during this audit cycle. ~~Feedback on the corrective action plan shall be provided to the company.~~

#### 5.7.3 CB determines next steps

CB determines next steps based on the grade as described below:

— a site with a grade of A and zero nonconformances is eligible for certification;

— a site with a grade of A with only minor nonconformances ~~shall submit a corrective action plan for all nonconformances. Once the plan is approved by the CB, the site is eligible for certification once all corrective action plans are approved. The site shall correct the minor nonconformances prior to the next certification audit.~~ The effectiveness of the corrective actions is reviewed at the next certification audit;

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— a site with a grade of B with only minor nonconformances is eligible for certification once all corrective action plans are approved. ~~shall submit a corrective action plan for all nonconformances. Corrective action against major nonconformances shall be closed with objective evidence to demonstrate the corrective action is in place and effective, before consideration for certification. A site with only minor nonconformances shall be considered for certification upon acceptance of the corrective action plan by the CB~~ The effectiveness of the corrective actions is reviewed at the next certification audit;

— a site with a grade of B with major nonconformance is eligible for certification once corrective action plans for all nonconformances are approved and objective evidence demonstrating corrective actions for major nonconformances are implemented and have been approved. The effectiveness of the corrective actions is reviewed at the next certification audit;

— a site with a grade of C ~~submit a corrective action plan for all nonconformances. A monitoring audit is required for grade of C. For a company who receives a grade of C in their initial certification audit for an initial certification audit is eligible for certification once corrective action plans for all nonconformances are approved and corrective action against major nonconformances shall be closed at the monitoring audit with objective evidence to demonstrate the corrective action is demonstrated to be in place and effective at the monitoring audit. , before consideration for certification. A company who has already received certification from a previous certification audit who receives a grade of C, does not lose their certification but shall have a monitoring audit prior to their next certification audit to verify that they have closed their major nonconformances. In both cases, the site is to close the minor conformances prior to the next certification audit.~~ A site with a recurring certification audit is eligible for recertification once corrective action plans for all nonconformances from the certification audit are approved. The completion and effectiveness of corrective actions against major nonconformances is reviewed at the monitoring audit. In both cases, the effectiveness of the corrective actions against minor nonconformances is reviewed at the monitoring audit or the next certification audit.

~~The CB shall determine and communicate any additional fees associated with a monitoring audit and related activities; and~~

— a site with a grade of D is not eligible for certification. A new certification audit is required. ~~but before that can take place, the site shall submit a corrective action plan and show completion of the corrective actions.~~

Corrective action for nonconformances identified from the previous audit that are not in place and effective at the next certification audit are deemed as repeat nonconformances. The classification of repeat nonconformances ~~identified from the previous audit will be reviewed, evaluated, reported, and~~ may be escalated based on the risk and severity. Technical reviewer shall review client's submitted objective evidence to ensure the classification recommended will remain as initially issued during the audit or elevate the nonconformance. ~~The CB shall require a monitoring audit for a grade of a C and may require a monitoring audit for a grade of an A or B.~~

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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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### 5.7 Nonconformances and corrective action

#### 5.7.1 Company provides a corrective action plan for all findings

The company ~~is responsible for generating~~ shall submit a corrective action plan to address any that includes implementation dates for each nonconformances within ten (10) business days of receipt the final audit report. If the Company requires additional time to ~~complete~~ submit the plan, the company shall request additional time of with the CB. ~~For each nonconformance, the applicant / auditee shall submit a corrective action plan together with timing for completion. The company is to document the plan using the online corrective action reporting system in the format of the template presented in Appendix D. Depending on the grade received, a company may be required to submit objective evidence of completion for approved corrective action plans per section 5.7.3.~~

#### 5.7.2 CB reviews the corrective action plan to ensure planned corrective actions are sufficient.

The CB reviews the corrective action plan within ~~ten~~ (10) business days of receipt to ensure planned corrective actions are sufficient. The proposed plan is reviewed by the technical reviewer and auditor, as applicable, for appropriateness. Each ~~line item~~ plan is independently reviewed and either approved, rejected, or additional information is requested. The submission of a corrective action plan does not change the grade assigned by the CB during this audit cycle. ~~Feedback on the corrective action plan shall be provided to the company.~~

#### 5.7.3 CB determines next steps

CB determines next steps based on the grade as described below:

— a site with a grade of A and zero nonconformances is eligible for certification;

— a site with a grade of A with only minor nonconformances ~~shall submit a corrective action plan for all nonconformances. Once the plan is approved by the CB, the site is eligible for certification once all corrective action plans are approved. The site shall correct the minor nonconformances prior to the next certification audit.~~ The effectiveness of the corrective actions is reviewed at the next certification audit;

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— a site with a grade of B with only minor nonconformances is eligible for certification once all corrective action plans are approved. ~~shall submit a corrective action plan for all nonconformances. Corrective action against major nonconformances shall be closed with objective evidence to demonstrate the corrective action is in place and effective, before consideration for certification. A site with only minor nonconformances shall be considered for certification upon acceptance of the corrective action plan by the CB~~ The effectiveness of the corrective actions is reviewed at the next certification audit;

— a site with a grade of B with major nonconformance is eligible for certification once corrective action plans for all nonconformances are approved and objective evidence demonstrating corrective actions for major nonconformances are implemented and have been approved. The effectiveness of the corrective actions is reviewed at the next certification audit;

— a site with a grade of C ~~submit a corrective action plan for all nonconformances. A monitoring audit is required for grade of C. For a company who receives a grade of C in their initial certification audit for an initial certification audit is eligible for certification once corrective action plans for all nonconformances are approved and corrective action against major nonconformances shall be closed at the monitoring audit with objective evidence to demonstrate the corrective action is demonstrated to be in place and effective at the monitoring audit. , before consideration for certification. A company who has already received certification from a previous certification audit who receives a grade of C, does not lose their certification but shall have a monitoring audit prior to their next certification audit to verify that they have closed their major nonconformances. In both cases, the site is to close the minor conformances prior to the next certification audit.~~ A site with a recurring certification audit is eligible for recertification once corrective action plans for all nonconformances from the certification audit are approved. The completion and effectiveness of corrective actions against major nonconformances is reviewed at the monitoring audit. In both cases, the effectiveness of the corrective actions against minor nonconformances is reviewed at the monitoring audit or the next certification audit.

~~The CB shall determine and communicate any additional fees associated with a monitoring audit and related activities; and~~

— a site with a grade of D is not eligible for certification. A new certification audit is required. ~~but before that can take place, the site shall submit a corrective action plan and show completion of the corrective actions.~~

Corrective action for nonconformances identified from the previous audit that are not in place and effective at the next certification audit are deemed as repeat nonconformances. The classification of repeat nonconformances ~~identified from the previous audit will be reviewed, evaluated, reported, and~~ may be escalated based on the risk and severity. Technical reviewer shall review client's submitted objective evidence to ensure the classification recommended will remain as initially issued during the audit or elevate the nonconformance. ~~The CB shall require a monitoring audit for a grade of a C and may require a monitoring audit for a grade of an A or B.~~

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**Standard:** UL 437

**Standard Title:** Standard for Key Locks

**Date of Proposal:** Click or tap to enter a date.

**Ballots & Comments Due:** Click or tap to enter a date.

## SUMMARY OF TOPICS

The following is being proposed for your review:

### 1. Reaffirmation and continuance of the 8<sup>th</sup> Edition of the Standard for Key Locks UL 437, as an American National Standard.

Need access to the full standard or a standard this proposal references? [Click here](#) to learn more about accessing UL and ULC Standards. STP and TC Members can find the latest copy of the standard under their My STPs or My Committees tab in CSDS.

### 1. Reaffirmation and continuance of the 8<sup>th</sup> Edition of the Standard for Key Locks UL 437, as an American National Standard.

## RATIONALE

Proposal submitted by: Diane Haithcock - STP Chair, UL Standards & Engagement

UL is proposing to reaffirm the ANSI approval of UL 437. The status of ANSI approval is required to be updated by a positive, consensus reaffirmation of the standard by the STP if the standard has not been otherwise updated in the consensus process in the preceding five years.

UL is seeking only to maintain the currently published requirements in UL 437 as an American National Standard. There are no new revisions being proposed at this time. A reaffirmation is a Yes / No vote provided by the STP on whether or not to reaffirm the standard "as is." Any specific comment on the standard or proposed change to the standard should be submitted as a new Proposal Request in CSDS for future consideration.

## PROPOSAL

UL is proposing to reaffirm the ANSI approval of the 8<sup>th</sup> Edition of the \*Standard for Key Locks, UL 437. To view the current standard, click on the Standard under the "Quick View" menu on the right hand side of the work area in CSDS.



**BSR/UL 746D, Standard for Safety for Polymeric Materials - Fabricated Parts****1. Clarification of Long Term Thermal Aging and UV/Water Immersion Requirements for Mechanical Recycle Addition in Plastic Materials in Sections 10.2 and 10.3****PROPOSAL**

2.10A RELATED VIRGIN RESIN- Existing virgin material from which the recycle material composition is derived.

10.2.6 An elevated relative thermal index (RTI) shall be assigned through a Long Term Thermal Aging program per UL 746B:

a) If the identification test results of the recycled plastic favorably compares to a related virgin resin with an elevated RTI, the elevated RTI equal to the virgin resin is to be assigned to the recycled plastic through a 2-point Long Term Thermal Aging program that results in the same RTI, using the virgin resin as the control and the recycled plastic as the candidate.

b) If the identification test results of the recycled plastic do not compare favorably to a related virgin resin with an elevated RTI, an elevated RTI is to be assigned to the recycled plastic through a 4-point Long Term Thermal Aging program.

Table 10.2 indicates the criteria for assigning Relative Thermal Index (RTI) to an existing plastic material with elevated RTIs for cases pertaining to addition, deletion and change-in-level of recycled resin with consistent identification. If the identification test results of the recycled plastics do not compare favorably to a related virgin resin with an elevated RTI, the recycled plastic shall obtain an elevated RTI through a 4-point Long Term Thermal Aging program described in the Standard for Polymeric Materials – Long Term Property Evaluations, UL 746B. In that case the recycle material evaluated shall be a new designation.

10.2.7 Table 10.2 indicate the criteria for assigning UV/water resistance rating to an existing plastic material having UV/water resistance rating for cases pertaining to addition, deletion and change-in-level of recycled resin with consistent identification. UV/Water resistance properties described in the Standard for Polymeric Materials – Use in Electrical Equipment Evaluations, UL 746C are to be evaluated on one batch for each representative color. If the identification test results of the recycled plastic do not compare favorably to a related virgin resin with UV/Water resistance rating, the recycled material evaluated shall be a new designation.

**Table 10.2**  
**Long-term Property Assessment for Mechanically Recycled Plastics**

<b>Component</b>	<b>Addition to virgin material (virgin resin is replaced with recycle material of same generic)</b>		<b>Deletion (recycle material is replaced with virgin material of same generic)</b>		<b>Change in level of the recycle material (substitute with virgin material of same generic)</b>	
	<b>Absolute (%)</b>	<b>Program code<sup>a</sup></b>	<b>Absolute (%)</b>	<b>Program code<sup>a</sup></b>	<b>Normalized (%)</b>	<b>Program code<sup>a</sup></b>
<u>Post-consumer and/or Post-industrial Recycle with consistent identification</u>	Any	1A, 1E, 1F	Any	1A	Decrease (Any)	1A
					Increase (≤30)	1B
					Increase (>30)	1E, 1F
<u>Post-consumer and/or Post-industrial Recycle</u>	Any	1D, 1E, 1F	Any	1C	Decrease (Any)	1C
					Increase (≤30)	1D

<u>with-out consistent identification</u>					<u>Increase (&gt;30)</u>	<u>1E, 1F</u>
<u>Program Codes<sup>a</sup></u>						
<u>1A: Flammability and Identification tests on 3 production batches compares favorably with existing related material.</u>						
<u>1B: Flammability, Tensile Strength (TS) or Flexural Strength (FS), Tensile Impact (TI) or Izod Impact (II) or Charpy Impact (CI) and Identification tests on 3 production batches compares favorably with existing related material.</u>						
<u>1C: Short-term properties - Tensile Strength (TS) or Flexural Strength (FS), Tensile Impact (TI) or Izod Impact (II) or Charpy Impact (CI), Heat Deflection Temp. (HDT) or Vicat Temp.(VT) or Ball Pressure Temp. (BP), Dielectric Strength (DS), Flammability, Hot Wire Ignition (HWI) or Glow-Wire Ignition Temperature (GWIT) of 3 production batches compares favorably with the existing related material.</u>						
<u>1D: Short-term properties - Tensile Strength (TS) or Flexural Strength (FS), Tensile Impact (TI) or Izod Impact (II) or Charpy Impact (CI), Heat Deflection Temp. (HDT) or Vicat Temp.(VT) or Ball Pressure Temp. (BP), Dielectric Strength (DS), Flammability, Hot Wire Ignition (HWI) or Glow-Wire Ignition Temperature (GWIT) of 5 production batches compares favorably with the existing related material.</u>						
<u>1E: Two temperature RTI program or 2000 hours one temperature single point RTI program as described in Thermoplastics materials, Section 20.2 of the Standard for Polymeric Materials – Long Term Property Evaluations, UL 746B on one production batch with existing related resin as control.</u>						
<u>1F: UV/Water immersion test in representative colors as described in Ultraviolet Light Exposure, Section 25 and Water Exposure and Immersion, Section 26 of the Standard for Polymeric Materials – Use in Electrical Equipment Evaluations on one production batch.</u>						

10.3.6 Long term properties evaluated through heat aging per UL 746B, such as Tensile Strength, Electrical Strength or Impact Strength are to be evaluated on one batch through a 4 point Long Term Thermal Aging program per UL 746B to assign a relative thermal index (RTI). Table 10.2 indicates the criteria for assigning Relative Thermal Index (RTI) to an existing plastic material with elevated RTIs for cases pertaining to addition, deletion and change-in-level of recycled resin without consistent identification. If the complete series of tests of the recycled plastic per 10.3.2 do not compare favorably to a related virgin resin with an elevated RTI, the recycled plastic is assigned an elevated RTI through a 4-point Long Term Thermal Aging program described in the Standard for Polymeric Materials – Long Term Property Evaluations, UL 746B. In that case the recycle material evaluated shall be a new designation.

*Exception: A generic relative thermal index (RTI), per UL 746B, is to be assigned according to the generic identity of the recycled plastic ascertained through Infrared Analysis per UL 746A.*

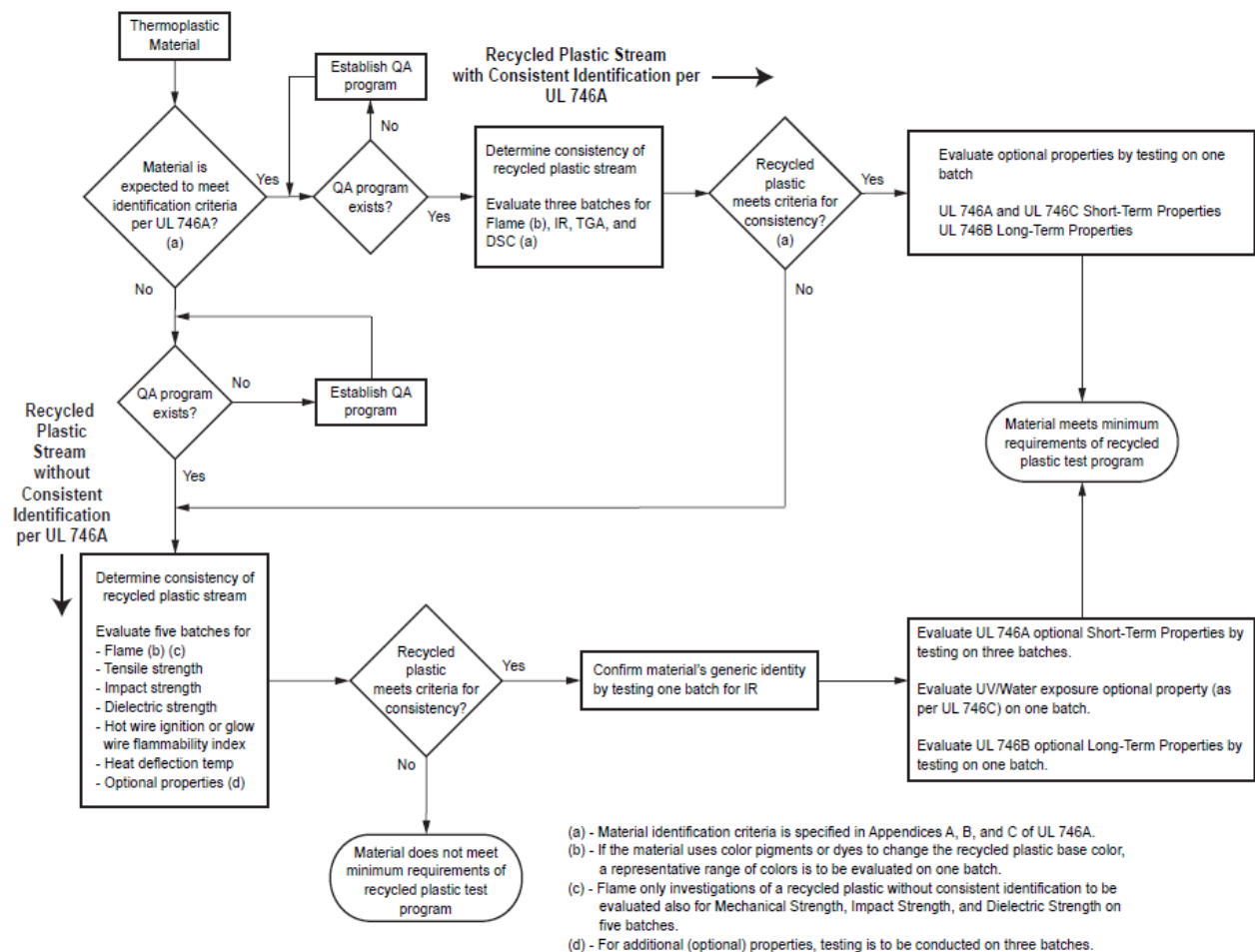
10.3.7 Long term UV/Water resistance properties evaluated in accordance with the Standard for Polymeric Materials – Use in Electrical Equipment Evaluations, UL 746C, are to be evaluated on one batch for each representative color. Table 10.2 indicate the criteria for assigning UV/water resistance rating to an existing plastic material having UV/water resistance rating for addition, deletion and change in level of recycled resin without consistent identification. UV/Water resistance properties per UL 746C are to be evaluated on one batch for each representative color. If the complete series of tests of the recycled plastic per 10.3.2 do not compare favorably to a related virgin resin with UV/Water exposure data, the recycled material evaluated shall be a new designation.

## 2. Addition of References to Alternate Short-Term Thermal Tests to Figure 10.1

### PROPOSAL

Note from the STP Project Manager: This proposal includes a revision of the graphic for Figure 10.1. The proposed revision of the graphic for Figure 10.1 can be accessed in the Supporting Documentation section of the CSDS UL 746D Proposal Review Work Area dated September 30, 2022.

**Figure 10.1**  
**Mechanically recycled thermoplastic material test program**



su1293b

### 10.3.3 Results of tests for the five production batches are expected to meet the following requirements:

a) The same flammability rating shall be maintained for all tested production batches in the mechanically recycled plastic base color or if base color is not part of the evaluation, a commonly produced color that is part of the evaluation can be considered for complete series of UL 94 flammability tests on five production batches.

b) For additional colors, only one production batch is required for flammability testing in compliance with 7.3.4, 8.3.4 or 9.3.4 in UL 94, as applicable, and the rating of this one batch is to be the same as the rating of the recycled plastic color that was evaluated for five production batches.

c) A minimum impact strength value, as defined by the manufacturer or applicable end-product standard, is to be met by all tested production batches.

d) The tensile strength values are to be  $\pm 15\%$  from the mean of all the tested production batches.

e) The heat deflection temperatures or Vicat Temperature (VT) or Ball Pressure Temp (BP) (thermoplastics only as per Fire hazard testing – Part 10-2: Abnormal heat – Ball pressure test method, IEC 60695-10-2, Method B – Material performance test method) are to be  $\pm 10\%$  the mean of all the tested production batches.

f) The dielectric strength values are to meet a minimum of 5kV/mm for all tested production batches.

g) The manufacturer can choose to test either the hot wire ignition (HWI) or the glow wire ignition temperature (GWIT) to evaluate the recycled plastic's response to ignition as a result of the application of a hot wire. The test results for either test in the five production batches are to meet the minimum values as defined by the manufacturer or by the applicable end-product standard.

### 3. Removal of Quality Management System Requirement from Paragraph 10.4

#### PROPOSAL

10.4.2 The Quality Management System is to be compliant with ISO 9001 or an equivalent internationally recognized standard. Deleted

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## UL 1323, Standard for Scaffold Hoists

### 1. State of Battery Charge Indicator

#### PROPOSAL

#### 3.5 CIRCUITS, ELECTRICAL:

- a) High-Voltage – A circuit with a potential of not more than 1000 volts having circuit characteristics greater than those of a low-voltage power-limited circuit.
- b) Low-Voltage – A circuit with a potential of not more than 30 volts AC rms, 42.4 volts DC or AC peak, and supplied by:
  - 1) A ~~primary~~ battery;
  - 2) An NEC Class 2 transformer; or
  - 3) A combination of transformer and fixed impedance that, as a unit, complies with all of the performance requirements for a Class 2 transformer.

5.4 When a battery is used as the primary power supply, the battery shall comply with one of the following:

- a) Standard for Batteries for Use in Stationary and Motive Auxiliary Power Applications, ~~Vehicle Auxiliary Power and Light Electric Rail (LER) Applications~~, UL 1973<sub>1</sub>, when the battery is stationary; or
- b) Standard for Batteries for Use In Light Electric Vehicle (LEV) Applications, UL 2271<sub>1</sub>, when the battery is mobile.

15.2 When a battery is used as the primary power supply, a battery charge indicator shall be provided on the hoist.

## BSR/UL 1581, Reference Standard for Electrical Wires, Cables, and Flexible Cords

### 1. Editorial Change to 11.1 and Addition of Copper-Clad Aluminum, New Section 12

## PROPOSAL

### 11 Requirements for Copper-Clad Aluminum Conductors

11.1 The requirements in this section (11.1) cover copper-clad aluminum conductors. Copper-clad aluminum conductors shall be drawn from copper-clad aluminum rod. The copper shall be metallurgically bonded to the aluminum core, shall occupy 10 percent or more of the cross section of a solid conductor and of each wire (strand) of a stranded conductor, and shall be concentric with the aluminum. The thickness of the copper shall not be less than 2.56 percent of the diameter of the solid conductor or wire (strand) as determined by microscopic examination of a polished right cross section of the round strand or round solid conductor. The tensile strength of a finished copper-clad aluminum conductor tested as a unit or of the wires (strands) from a finished stranded copper-clad aluminum conductor and of a finished solid copper-clad aluminum conductor shall not exceed 20,000 lbf/in<sup>2</sup> or 138 MPa when specimens are tested at the speed and using the equipment and procedure indicated in ASTM B566. The elongation of the same specimens shall not be less than 15 percent in 10 inches or 250 mm.

### 12 Requirements for Copper-Clad Aluminum Conductors Used in Building Wire

12.1 The requirements in this section cover finished, copper-clad aluminum conductors and the individual strands of a finished copper-clad aluminum conductor. Copper-clad aluminum conductors shall be drawn from copper-clad aluminum rod. Copper-clad aluminum strands shall be limited to sizes 0.02257 - 0.2043 in diameter (23 – 4 AWG).

12.2 The aluminum core shall be an AA8000 series alloy as described in Section 10. The elemental analysis of the aluminum core shall be determined in accordance with ASTM E227. The results of the elemental analysis on the aluminum core used shall meet the requirements for an AA 8000 series alloy as described in UL 44, Chemical composition of ACM, AA 8000 series aluminum alloy conductor materials.

12.3 The copper shall be high-conductivity, oxygen-free copper with an oxygen content not to exceed 0.001% meeting the requirements of ASTM B 152. The copper shall be metallurgically bonded to the aluminum core as determined by the methods in 12.12 and 12.14. The copper shall occupy 10 percent or more by volume of the cross section of a solid conductor and of each wire (strand) of a stranded conductor as determined by the methods in 12.17. The thickness of the copper shall not be less than 4.0 percent of the radius of the solid conductor or wire (strand).

#### 12.4 Tensile strength and elongation test

12.4.1 The tensile strength of a finished copper-clad aluminum conductor or of the wires (strands) from a finished stranded copper-clad aluminum conductor and of a finished solid copper-clad aluminum conductor shall not exceed 20,000 lbf/in<sup>2</sup> or 138 MPa. The elongation of the same specimens shall not be less than 15 percent. The tensile and elongation of a finished conductor or an individual strand shall be tested in accordance with the test, Physical properties of conductors (tensile strength, elongation at break, and ultimate strength) as described in UL 2556. The test shall be conducted at a speed of 12 in/min (305 mm/min), with 10 inches (254 mm) between the benchmarks.

#### 12.5 DC resistance test

12.5.1 The DC resistance of the finished copper-clad aluminum conductor shall not exceed ~~0.2743~~ 0.026813  $\Omega \cdot \text{mm}^2/\text{m}$  when tested in accordance with the method, DC Resistance as described in UL 2556.

#### 12.6 Density test

12.6.1 The density of the copper-clad aluminum shall be 3.32 g/cm<sup>3</sup> (0.1200 lb/in<sup>3</sup>) nominal when the conductor material is tested using the method described in Annex B of UL 2556.

## 12.7 Diameter Measurement

12.7.1 The diameter of the solid conductor or any individual strands from a stranded conductor shall meet the requirements in Table 20.1 when measured in accordance with the test Conductor Diameter as described in UL 2556.

## 12.8 Adhesion test

12.8.1 A specimen of a single strand of finished copper-clad aluminum conductor shall be fixed in a vice or other securement means. The free end of the conductor shall be flexed back and forth thru 180 degrees using any suitable means until the conductor breaks. The fractured area (not including the clamped area) shall be examined for delamination using magnification of 10X. There shall be no delamination between the copper and the aluminum.

## 12.9 Cohesion Test

12.9.1 A specimen of a single strand of finished copper-clad aluminum conductor shall be ~~selected fixed in a clamp or other securement means. The conductor shall be twisted three complete turns in one direction, untwisted to the original position, twisted three turns in the opposite direction and finally returned to the original position.~~ The minimum length of the specimen length over which the twisting occurs shall be 15 times the diameter of the wire under test, plus the length required to secure both ends of the specimen. A longer length specimen may be used to facilitate the test. For example, a 12 AWG solid conductor has a diameter of 0.0808 inches. This would require a length of 1.212 inches (15 X 0.080) between the securement means. The specimen shall be fixed in a clamp or other securement means twisted three complete turns in one direction, untwisted to the original position, twisted three turns in the opposite direction and finally returned to the original position.

If a longer length is ~~used~~ needed to facilitate the testing, the number of twists for a given length of wire shall be ~~increased accordingly.~~ calculated from the formula:

(New Formula)

$$\text{Number of twists} = \frac{\text{Length of wire between securement means, in inches}}{5 \times \text{OD of wire, in inches}}$$

In no case shall the number of twists be less than three.

12.9.2 After completion of the twists, the specimen shall be examined for seams or splits in the copper using 10X magnification in the area between the securement means. There shall be no seams or splits in the copper.

## 12.10 Copper Construction

12.10.1 The surface of wire shall be free from pits, slivers, exposed aluminum, or other imperfections when examined under normal vision.

12.10.2 Three specimens of copper-clad aluminum, each specimen located at least 10 feet from the previous specimen, shall be mounted (in a suitable material if needed) so that a polished, right cross section of the conductor can be obtained. The minimum thickness at any point (MinAAP) shall be located and measured. The diameter of the overall conductor (Dc) and the diameter of the aluminum core (Da) shall be each be measured at three locations and averaged. The three measurement locations shall be at the maximum diameter, the minimum diameter and at a location bisecting the maximum and minimum diameters. The measurements shall be made using a micrometer microscope with a resolution and accuracy of 0.001 mm (0.0001 in)

12.10.3 The ratio of copper with respect to the overall radius, Rca, shall not be less than 4% of the radius of the overall conductor, where

$$Rca = 100 \times \left( \frac{\text{MinAAP}}{Dc/2} \right)$$

Where: MinAAP is the minimum thickness of copper at any point when measured as described in 12.10.2  
Dc is the average diameter of the overall conductor

12.10.4 The percent copper volume, %Cv shall be calculated using

$$\%Cv = 100 \times \left( \frac{Dc^2 - Da^2}{Dc^2} \right)$$

Where: Dc is the average diameter of the overall conductor  
Da is the average diameter of the aluminum core

The copper shall be 10 percent or more by volume of the cross section

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**BSR/UL 2438, Standard for Safety for Outdoor Seasonal-Use Cord-Connected Wiring Devices****1. Inclusion of a Reference to the Standard for Marking and Labeling Systems – Flag Labels, Flag Tags, Wrap-Around Labels and Related Products, UL 969A, for a Consistent Approach for Permanence of Marking Requirements for Flag Labels, Flag Tags, and Wrap-Around Labels****PROPOSAL**

45.1 An outdoor seasonal-use cord-connected wiring device shall be marked on a flag tag, flag label, or wrap-around label in accordance with 45.3 (a) or (b), with the following:

- a) The device electrical ratings in amps, volts, and watts.
- b) The following or equivalent wording, "For temporary outdoor installation and use - Not to exceed 90 days." This marking shall be in letters having a minimum height of 1/16 inch (1.6 mm).

45.3 An outdoor seasonal-use cord-connected wiring device shall be provided with a single tear-resistant, permanently attached ~~cord tag~~ flag label or flag tag, the text of which shall be as indicated in that complies with the requirements of the Standard for Cord Sets and Power Supply Cords, UL 817, except that the text of the tag shall be in accordance with Figure 45.1. The tag shall also incorporate the applicable outdoor-use extension cord set markings of UL 817 marked on the same or a separate flag label or flag tag. The flag label or flag tag shall comply with one of the following:

- a) The Standard for Cord Sets and Power-Supply Cords, UL 817, Test for Permanence of Warning Tag, and be suitable for the intended cord type, and be rated for the intended environmental conditions, such as indoor use or outdoor use or exposure to oil; or
- b) The Standard for Marking and Labeling Systems - Flag Labels, Flag Tags, Wrap-Around Labels and Related Products, UL 969A, and be suitable for the intended cord type, and be rated for limited slippage and the intended environmental conditions, such as indoor-dry use or outdoor use or exposure to oil.

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**WCMA A100.1 for the Safety of Window Covering Products**  
**September 2022**

To satisfy Canvass comments, the text reverts to the 2018 ANSI/WCMA standard's order for testing to require the UV test before the operational cycle. This revision was requested in a comment received from the test laboratories during the standard development process but WCMA has no issue reverting to the previous order of testing.

And the draft was revised to recognize compliance with recently enacted laws regarding button and coin cell batteries and any subsequent CPSC regulations. The UL standard that was referenced in the draft was the result of a comment submitted by CPSC prior to the original ballot. The resulting paragraph is below:

**4.1 Remote Control Battery Accessibility:** Applicable battery powered remote control devices shall meet the requirements of 15 USC 2056e and any subsequent standard developed by the CPSC to ensure that the button cell or coin battery compartments are secured in a manner that would eliminate or adequately reduce the risk of injury from button or coin cell battery ingestion by children that are 6 years of age or younger during reasonably foreseeable use or misuse and the warning label requirements in 15 USC 2056e.

No other changes were made as a result of the Canvass comments. These are the only changes available for public comment.