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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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## AHAM (Association of Home Appliance Manufacturers)

John Park; [jpark@aham.org](mailto:jpark@aham.org) | 1111 19th Street NW, Suite 402 | Washington, DC 20036 [www.aham.org](http://www.aham.org)

### Revision

BSR/AHAM AC-1-202x, Method for Measuring Performance of Portable Household Electric Room Air Cleaners (revision of ANSI/AHAM AC-1-2020)

Stakeholders: Manufacturers of household electric room air cleaners; testing laboratories; consumers.

Project Need: General revision and incorporation of interpretations.

Interest Categories: Participants from diverse interest categories will be sought. The categories will include: (1) users, (2) producers, and (3) general interest.

Scope: This standard method establishes uniform, repeatable procedures and standard methods for measuring specified product characteristics of portable household electric room air cleaners. The standard methods provide a means to compare and evaluate different brands of portable household electric room air cleaners regarding characteristics significant to product use. The standard methods of measurement are not intended to inhibit improvement and innovation in product testing, design or performance.

## AISI (American Iron and Steel Institute)

Jay Larson; [jl Larson@steel.org](mailto:jl Larson@steel.org) | 25 Massachusetts Avenue, NW, Suite 800 | Washington, DC 20001 [www.steel.org](http://www.steel.org)

### Revision

BSR/AISI S250-202x, North American Standard for Thermal Transmittance of Building Envelopes with Cold-Formed Steel Framing (revision of ANSI/AISI S250-2021)

Stakeholders: Design professionals, code officials, building owners and managers, and general.

Project Need: This standard provides design methods for the purposes of calculating the heat transfer of roof, and wall and floor assemblies containing cold-formed steel framing; and developing prescriptive solutions for code compliance, and similar issues that impact cold-formed steel framing due to energy code requirements.

Interest Categories: Producers, Users, and General Interest.

Scope: This Standard is used to determine thermal transmittance (U-factors) for assessing the energy code compliance of building envelopes for floor assemblies, above-grade wall assemblies, and roof/ceiling assemblies.

**ARESCA (American Renewable Energy Standards and Certification Association)**

George Kelly; [secretary@aresca.us](mailto:secretary@aresca.us) | 256 Farrell Farm Road | Norwich, VT 05055 [www.aresca.us](http://www.aresca.us)

**National Adoption**

BSR/ARESCA 61400-50-202x, Wind energy generation systems - Part 50: Wind measurement - Overview (identical national adoption of IEC 61400-50:2022)

Stakeholders: U.S. wind developers and investors, Certified Verification Agents (CVAs), Bureau of Safety and Environmental Enforcement (BSEE), Bureau of Ocean Energy Management (BOEM), U.S. Department of the Interior (DOI)

Project Need: The ambitious plans for development of wind energy projects requires a consistent and comprehensive set of industry-based consensus standards. This IEC document is directly applicable as an American National Standard for such projects.

Interest Categories: End users, OEMs, Industry, General interest.

Scope: Identical adoption of IEC

**ARESCA (American Renewable Energy Standards and Certification Association)**

George Kelly; [secretary@aresca.us](mailto:secretary@aresca.us) | 256 Farrell Farm Road | Norwich, VT 05055 [www.aresca.us](http://www.aresca.us)

**National Adoption**

BSR/ARESCA 61400-50-1-202x, Wind energy generation systems - Part 50-1: Wind measurement - Application of meteorological mast, nacelle and spinner mounted instruments (identical national adoption of IEC 61400-50-1:2022)

Stakeholders: U.S. wind developers and investors, Certified Verification Agents (CVAs), Bureau of Safety and Environmental Enforcement (BSEE), Bureau of Ocean Energy Management (BOEM), U.S. Department of the Interior (DOI)

Project Need: The ambitious plans for development of wind energy projects requires a consistent and comprehensive set of industry-based consensus standards. This IEC document is directly applicable as an American National Standard for such projects.

Interest Categories: End users, OEMs, Industry, General interest.

Scope: Identical adoption of IEC

**ARESCA (American Renewable Energy Standards and Certification Association)**

George Kelly; [secretary@aresca.us](mailto:secretary@aresca.us) | 256 Farrell Farm Road | Norwich, VT 05055 [www.aresca.us](http://www.aresca.us)

**National Adoption**

BSR/ARESCA 61400-50-2-202x, Wind energy generation systems - Part 50-2: Wind measurement - Application of ground-mounted remote sensing technology (identical national adoption of IEC 61400-50-2:2022)

Stakeholders: U.S. wind developers and investors, Certified Verification Agents (CVAs), Bureau of Safety and Environmental Enforcement (BSEE), Bureau of Ocean Energy Management (BOEM), U.S. Department of the Interior (DOI)

Project Need: The ambitious plans for development of wind energy projects requires a consistent and comprehensive set of industry-based consensus standards. This IEC document is directly applicable as an American National Standard for such projects.

Interest Categories: End users, OEMs, Industry, General interest.

Scope: Identical adoption of IEC

**ARESCA (American Renewable Energy Standards and Certification Association)**

George Kelly; [secretary@aresca.us](mailto:secretary@aresca.us) | 256 Farrell Farm Road | Norwich, VT 05055 [www.aresca.us](http://www.aresca.us)

**National Adoption**

BSR/ARESCA 61400-50-4-202x, Wind energy generation systems - Part 50-4: Use of floating lidars for wind measurements (identical national adoption of IEC 61400-50-4:2023)

Stakeholders: U.S. wind developers and investors, Certified Verification Agents (CVAs), Bureau of Safety and Environmental Enforcement (BSEE), Bureau of Ocean Energy Management (BOEM), U.S. Department of the Interior (DOI)

Project Need: The ambitious plans for development of wind energy projects requires a consistent and comprehensive set of industry-based consensus standards. This IEC document is directly applicable as an American National Standard for such projects.

Interest Categories: End users, OEMs, Industry, General interest.

Scope: Identical adoption of IEC

**CTA (Consumer Technology Association)**

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

**New Standard**

BSR/CTA 2119-202x, Framework for Evaluation of a Cybersecurity Scheme (new standard)

Stakeholders: Consumers, manufacturers, and retailers.

Project Need: To create a framework for evaluation of a cybersecurity scheme against the NIST Criteria.

Interest Categories: General interest, producer. and user.

Scope: This project will develop a standard that would formalize the means to judge a cybersecurity label Scheme against the NIST Criteria (NISTIR 8425).

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

Kim Quigley; [kquigley@itic.org](mailto:kquigley@itic.org) | 700 K Street NW, Suite 600 | Washington, DC 20001 [www.incits.org](http://www.incits.org)

**National Adoption**

INCITS/ISO/IEC 38503:2022 [202x], Information technology - Governance of IT - Assessment of the governance of IT (identical national adoption of ISO/IEC 38503:2022)

Stakeholders: ICT Industry.

Project Need: Adoption of this international standard is beneficial to the ICT Industry.

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

Scope: Provides guidance on the assessment of governance of information technology (IT) based on the principles, definitions and model for the governance of IT outlined in ISO/IEC 38500 and ISO/IEC TR 38502 and the implementation considerations outlined in ISO/IEC TS 38501. Includes approaches for conducting the assessment, the criteria against which the assessment can be made, guidance on the evidence that can be used for the assessment, and a method for determining the maturity of the organization's governance of IT.

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

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

**Reaffirmation**

BSR C119.6-2018 (R202x), Standard for Electric Connectors - Non-Sealed, Multiport Connector Systems Rated 600 Volts or Less for Aluminum and Copper Conductors (reaffirmation of ANSI C119.6-2018)

Stakeholders: Electric utilities, Test agencies, Electrical Connector manufacturers.

Project Need: 5-year review.

Interest Categories: Users, Producers, and General Interest.

Scope: This standard covers non-sealed, multiport distribution connectors rated 600 volts or less used for making electrical connections between aluminum-to-aluminum, aluminum-to-copper, or copper-to-copper conductors for above grade, electric utility applications.

**NEMA (ASC C12) (National Electrical Manufacturers Association)**

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

**Reaffirmation**

BSR C12.18-2006 (R202x), Protocol Specification for ANSI Type 2 Optical Port (reaffirmation of ANSI C12.18-2006 (R2015))

Stakeholders: Meter Manufacturers, Electrical Utilities.

Project Need: Reaffirming standard.

Interest Categories: Users, Producers and General Interest members

Scope: This standard details the criteria required for communications between a C12.18 Device and a C12.18 Client via an optical port. The C12.18 Client may be a handheld reader, a portable computer, a master station system or some other electronic communications device.

**NEMA (ASC C12) (National Electrical Manufacturers Association)**

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

**Reaffirmation**

BSR C12.21-2006 (R202x), Protocol Specification for Telephone Modem Communication (reaffirmation of ANSI C12.21-2006 (R2015))

Stakeholders: Electric Utilities and Meter Manufacturers.

Project Need: Reaffirmation.

Interest Categories: Users, Producers and General Interest members.

Scope: This standard details the criteria required for communications between a C12.21 Device and a C12.21 Client via a modem connected to the switched telephone network. The C12.21 Client could be a laptop or portable computer, a master station system, or some other electronic communications device.

## **NEMA (ASC C12) (National Electrical Manufacturers Association)**

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

### ***National Adoption***

BSR C12/IEC 62056-8-8-202x, Electricity metering data exchange - The DLMS/COSEM suite - Part 8-8: Communication profile for ISO/IEC 14908 series networks (identical national adoption of IEC 62056-8-8:2020)  
Stakeholders: Meter manufacturers, Electrical utilities.

Project Need: National adoption for harmonization.

Interest Categories: Users, Producers and General Interest.

Scope: IEC 62056-8-8:2020 describes how the DLMS/COSEM Application layer and the COSEM object model, as specified in IEC 62056-5-3:2017, IEC 62056-6-1:2017 and IEC 62056-6-2:2017, can be used over the lower layers specified in the IEC 14908 series, forming a DLMS/COSEM ISO/IEC 14908 communication profile. This document is part of the IEC 62056 series. Its structure follows IEC 62056-1-0 and IEC TS 62056-1-1.

## **SPRI (Single Ply Roofing Industry)**

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

### ***Revision***

BSR/SPRI RP-14-202x, Wind Design Standard for Vegetative Roofing Systems (revision of ANSI/SPRI RP-14-2022)

Stakeholders: Manufacturers of vegetative roofing assemblies and related system, designers, installers and building owners, building code officials, architects, engineers, roofing consultants.

Project Need: Revising the standard to meet the scope statement to be a design standard for vegetative roofing systems, which had previously included other design criteria that fell outside the scope.

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

Scope: This standard provides a method of designing wind uplift resistance of vegetative roofing systems utilizing adhered roofing membranes. It is intended to provide a minimum design and installation reference for those individuals who design, specify, and install vegetative roofing systems. It shall be used in conjunction with, or enhanced by, the installation specifications and requirements of the manufacturer of the specific products used in the vegetative roofing system.

## **TIA (Telecommunications Industry Association)**

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

### ***National Adoption***

BSR/TIA 621.1-202x, IEC 61755-1:Fibre optic interconnecting devices and passive components - Connector optical interfaces for single-mode fibres - Part 1: Optical interfaces for dispersion unshifted fibres - General and guidance (identical national adoption of IEC 61755-1)

Stakeholders: Telecom and Data Communications, Fiber Optics users and manufacturers.

Project Need: Adopt an identical ISO or IEC standard.

Interest Categories: User, Producer and General Interest.

Scope: Adoption of IEC 61755-1:Fibre optic interconnecting devices and passive components - Connector optical interfaces for single-mode fibres - Part 1: Optical interfaces for dispersion unshifted fibres - General and guidance as ANSI/TIA 621.1

**TIA (Telecommunications Industry Association)**

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

**National Adoption**

BSR/TIA 622.1-202x, IEC 61755-2-1:Fibre optic interconnecting devices and passive components - Connector optical interfaces for single-mode fibres - Part 2-1: Connection parameters of dispersion unshifted physically contacting fibres - Non-angled (identical national adoption of IEC 61755-2-1)

Stakeholders: Telecom and Data Communications, Fiber Optics users and manufacturers.

Project Need: Adopt an identical ISO or IEC standard.

Interest Categories: User, Producer and General Interest.

Scope: Adoption of IEC 61755-2-1:Fibre optic interconnecting devices and passive components - Connector optical interfaces for single-mode fibres - Part 2-1: Connection parameters of dispersion unshifted physically contacting fibres - Non-angled as ANSI/TIA 622.1

**TIA (Telecommunications Industry Association)**

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

**National Adoption**

BSR/TIA 622.2-202x, IEC 61755-2-2:Fibre optic interconnecting devices and passive components - Connector optical interfaces for single-mode fibres - Part 2-2: Connection parameters of dispersion unshifted physically contacting fibres - Angled (identical national adoption of IEC 61755-2-2)

Stakeholders: Telecom and Data Communications, Fiber Optics users and manufacturers.

Project Need: Adopt an identical ISO or IEC standard.

Interest Categories: User, Producer and General Interest.

Scope: Adoption of IEC 61755-2-2:Fibre optic interconnecting devices and passive components - Connector optical interfaces for single-mode fibres - Part 2-2: Connection parameters of dispersion unshifted physically contacting fibres - Angled as ANSI/TIA 622.2

# 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: January 1, 2023

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

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

### Addenda

BSR/ASHRAE Addendum 161f-202x, Air Quality within Commercial Aircraft (addenda to ANSI/ASHRAE Standard 161-2018)

The primary purpose of this proposed addendum is to remove the carbon monoxide-specific language intended to address the continuous monitoring requirement for engine oil or hydraulic fluid contamination of the bleed air. As a result, the sensor requirement language in Sections 7.2, 8.2, and 9 now focuses more broadly on suitable marker compounds intended to reliably indicate the presence of engine oil or hydraulic fluid contamination of the bleed air. This proposed addendum also adds a definition for "engine" to Section 3. Edits added since the 1st public review are minimal, as follows: Editorial changes were incorporated to clarify that a sensor can be designed to detect either particles, chemical substances, or both in order to identify oil/hydraulic fumes, and that oil/hydraulic fluid can be present in gas, liquid, solid, or a combination of phases. Also, the references to the descriptor "pyrolyzed" for engine oil was removed because, when oil is present, it is not always heated to a high enough temperature to be pyrolyzed.

[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: January 1, 2023

### **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 d to BSR/ASHRAE Standard 34-202x, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2022)

This proposed addendum adds the zeotropic refrigerant blend R-457D 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 e to BSR/ASHRAE Standard 34-202x, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2022)

This proposed addendum adds the zeotropic refrigerant blend R-478A 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 f to BSR/ASHRAE Standard 34-202x, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2022)

This proposed addendum adds the zeotropic refrigerant blend R-479A 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 | [cking@ashrae.org](mailto:cking@ashrae.org), [www.ashrae.org](http://www.ashrae.org)

#### **New Standard**

BSR/ASHRAE Standard 41.13-202x, Standard Methods for Fuel Higher Heating Value Measurement (new standard)

This proposed new standard prescribes methods for determining fuel higher heating values.

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

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

## Comment Deadline: January 1, 2023

### NSF (NSF International)

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

#### Revision

BSR/NSF 55-202x (i65r1), Ultraviolet Microbiological Water Treatment Systems (revision of ANSI/NSF 55-2021)  
This standard covers UV microbiological water treatment systems and components for point-of-use (POU) and point-of-entry (POE) applications. This standard covers systems which use UV radiation within the range of 240 nm to 300 nm inclusive.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Monica Milla; [mmilla@nsf.org](mailto:mmilla@nsf.org)

### NSF (NSF International)

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

#### Revision

BSR/NSF 455-2-202x (i44r2), 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: [rbrooker@nsf.org](mailto:rbrooker@nsf.org)

### NSF (NSF International)

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

#### Revision

BSR/NSF 455-3-202x (i37r1), Good Manufacturing Practices for Cosmetics (revision of ANSI/NSF 455-3-2021)  
This standard is intended to define a standardized approach for auditing to determine the level of compliance of cosmetic products to ISO 22716, 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: [rbrooker@nsf.org](mailto:rbrooker@nsf.org)

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 1-202x, Standard for Safety for Flexible Metal Conduit (revision of ANSI/UL 1-2020)  
Stainless Steel Flexible Metal Conduit (SS FMC) as an EGC per the 2023 NEC

[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: January 1, 2023

### ULSE (UL Standards & Engagement)

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

#### *Revision*

BSR/UL 153-202x, Standard for Safety for Portable Electric Luminaires (revision of ANSI/UL 153-2022)  
Revision of the 10-14-22 proposed changes for the topic (2) Clarification Attachment plug with “W”, “Water Resistant” or “Outdoor Use” rating for wet location luminaires.

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

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

### ULSE (UL Standards & Engagement)

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

#### *Revision*

BSR/UL 2743-202x, Standard for Portable Power Packs (revision of ANSI/UL 2743-2020)  
This recirculation proposal provides revisions to the UL 2743 proposal dated 7-8-22.

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

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

## Comment Deadline: January 16, 2023

### ACP (American Clean Power Association)

1501 M Street NW, Suite 1000, Washington, DC 22205 | [dbrown@cleanpower.org](mailto:dbrown@cleanpower.org), [www.cleanpower.org](http://www.cleanpower.org)

#### *National Adoption*

BSR/ACP 61400-6-202x, Wind Energy Generation Systems - Part 6: Tower and foundation design requirements -  
Modified Adoption of IEC 61400-6 (national adoption with modifications of IEC 61400-6)

This standard is a modified adoption of International Standard “IEC 61400-6 ED1, Wind energy generation systems – Part 6: Tower and foundation design requirements.” The national committee responsible for this standard is the Structures Subcommittee of the American Clean Power Wind Technical Standards Committee.

This standard contains requirements that are relevant under the International Building Code and codes and standards incorporated by reference therein. In this standard, certain modifications due to national legal requirements and the needs of the civil engineering community within the US wind industry have been made...

Single copy price: Free

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

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

## Comment Deadline: January 16, 2023

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

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

#### **Reaffirmation**

BSR/AHRI Standard 680-2015 (R202x) (I-P), Performance Rating of Residential Air Filter Equipment (reaffirmation of ANSI/AHRI Standard 680 (I-P)-2015)

This standard applies to factory-made Air Filter Equipment and Air Filter Media, as used in such equipment, for removing particulate matter, when used in environmental conditioning of inhabited spaces in residential facilities. The standard evaluates the “combined” performance of air filter equipment in all aspects: initial resistance, final resistance, particle-size efficiency, and dust-holding capacity. This offers both the user and specifier a complete view of the air filter equipment for comparison purposes.

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

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#### **Reaffirmation**

BSR/AHRI Standard 681-2015 (R202x) (SI), Performance Rating of Residential Air Filter Equipment (reaffirmation of ANSI/AHRI Standard 681 (SI)-2015)

This standard applies to factory-made Air Filter Equipment and Air Filter Media, as used in such equipment, for removing particulate matter, when used in environmental conditioning of inhabited spaces in residential facilities. The standard evaluates the “combined” performance of air filter equipment in all aspects: initial resistance, final resistance, particle-size efficiency, and dust-holding capacity. This offers both the user and specifier a complete view of the air filter equipment for comparison purposes.

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#### **Reaffirmation**

BSR/AHRI Standard 850-2013 (R202x) (I-P), Performance Rating of Commercial and Industrial Air Filter Equipment (reaffirmation of ANSI/AHRI Standard 850 (I-P)-2013,)

This standard applies to factory-made Air Filter Equipment and Air Filter Media as used in such equipment, for removing particulate matter, when used in environmental conditioning of inhabited spaces in commercial and industrial facilities.

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#### **Reaffirmation**

BSR/AHRI Standard 851-2013 (R202x) (SI), Performance Rating of Commercial and Industrial Air Filter Equipment (reaffirmation of ANSI/AHRI Standard 851 (SI)-2013)

This standard applies to factory-made Air Filter Equipment and Air Filter Media as used in such equipment, for removing particulate matter, when used in environmental conditioning of inhabited spaces in commercial and industrial facilities.

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### **APA (APA - The Engineered Wood Association)**

7011 South 19th Street, Tacoma, WA 98466 | [borjen.yeh@apawood.org](mailto:borjen.yeh@apawood.org), [www.apawood.org](http://www.apawood.org)

#### **Revision**

BSR/APA 405-202x, Standard for Adhesives for Use in Structural Glued Laminated Timber (revision of ANSI 405-2018)

This standard provides minimum performance requirements for evaluating adhesives for use in structural glued laminated timber (glulam)

Single copy price: Free

Obtain an electronic copy from: [borjen.yeh@apawood.org](mailto:borjen.yeh@apawood.org)

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### **AVIXA (Audiovisual and Integrated Experience Association)**

11242 Waples Mill Road, Suite 200, Fairfax, VA 22030 | [lovercash@avixa.org](mailto:lovercash@avixa.org), [www.avixa.org](http://www.avixa.org)

#### **New Standard**

BSR/AVIXA D401.01-202X, Documentation Requirements for Audiovisual Systems (new standard)

This Standard defines a process for determining documentation requirements for professional audiovisual (AV) system projects. The Standard defines the minimum documentation required to coordinate and deliver all audiovisual communication system projects. The process aligns architectural, engineering, and construction documentation to coordinate and deliver complete audiovisual communication system projects.

Single copy price: \$30.00

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

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### CSA (CSA America Standards Inc.)

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

#### Revision

BSR LC 1-202x/CSA 6.26-202x, Fuel gas piping systems using corrugated stainless steel tubing (revision of ANSI LC 1-2019/CSA 6.26-2019)

This Standard applies to fuel gas piping systems using corrugated stainless steel tubing (CSST), intended for installation in residential, commercial, or industrial buildings, and including the following components as a minimum: a) corrugated stainless steel tubing (CSST); b) fittings for connection to the CSST; and c) striker plates to protect the installed CSST from puncture threats. Other components of piping systems covered by this Standard include gas manifolds, gas pressure regulators, manual gas valves, quick-disconnect devices, and gas convenience outlets.

Single copy price: Free

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

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### 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)

#### Reaffirmation

BSR/CTA 2060-2017 (R202x), Interoperability Standards Series for Consumer EEG Data - File Storage (reaffirmation of ANSI/CTA 2060-2017)

The purpose of this standard is to adopt a file format for storing several data streams in a single, self-describing, file, with each stream potentially sampled at a different rate, or having a different type (e.g. real numbers and strings). It will allow this data to be provided in an efficient and temporally accurate manner to analysis and visualization applications.

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

### FCI (Fluid Controls Institute)

1300 Sumner Avenue, Cleveland, OH 44115 | [fci@fluidcontrolsinstitute.org](mailto:fci@fluidcontrolsinstitute.org), [www.fluidcontrolsinstitute.org](http://www.fluidcontrolsinstitute.org)

#### New Standard

BSR/FCI 20-1-202x, Standard for Performance Testing Strainers for Liquid Service (new standard)

The purpose of the standard is to provide uniform test procedures to determine the performance of strainers used in liquid service, in particular, the flow versus pressure loss characteristics and the flow coefficient.

Single copy price: Free

Obtain an electronic copy from: [fci@fluidcontrolsinstitute.org](mailto:fci@fluidcontrolsinstitute.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Leslie Schraff, [fci@fluidcontrolsinstitute.org](mailto:fci@fluidcontrolsinstitute.org)

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

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

#### **Revision**

BSR/ASSE 1017-202x, Performance Requirements for Temperature Actuated Mixing Valves for Hot Water Distribution Systems (revision of ANSI/ASSE 1017-2020)

Temperature Actuated Mixing Valves for Hot Water Distribution Systems are used for controlling in-line water temperatures in hot water systems and are installed at the hot water source. They are not intended for end-use applications including showers and emergency eyewash stations.

Single copy price: Free

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

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

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### **ISA (International Society of Automation)**

3252 S. Miami Blvd, Suite 102, Durham, NC 27703 | [crobinson@isa.org](mailto:crobinson@isa.org), [www.isa.org](http://www.isa.org)

#### **New Standard**

BSR/ISA 75.27.01-202x, Cryogenic and Low Temperature Seat Leakage Testing of Control Valves (new standard)

This standard will provide a method of cryogenic and low temperature seat leak testing of sliding stem control valves needed within the cryogenic industries.

Single copy price: \$9.00

Obtain an electronic copy from: [crobinson@isa.org](mailto:crobinson@isa.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Charley Robinson; [crobinson@isa.org](mailto:crobinson@isa.org)

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

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

#### **Revision**

BSR C29.17-202x, Standard for Composite Insulators Transmission Line Post Type (revision of ANSI C29.17-2013)

This standard covers composite transmission line post type insulators with section lengths 41 inches (1041.4 mm) or greater made of a fiberglass-reinforced resin rod core, polymer material weather sheds and metal end fittings as defined in this standard and intended for use on overhead lines for electric power systems.

Mechanical and electrical performance levels specified herein are requirements for new insulators.

Single copy price: Free

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

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### **NEMA (ASC Z535) (National Electrical Manufacturers Association)**

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

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

BSR Z535.7-202x, Product Safety Information in Electronic Media (new standard)

This standard sets forth requirements for the use of ANSI Z535 formatting elements in the design of visual product safety messages presented in electronic media to the extent that these formatting elements are used in these media.

Single copy price: Free

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

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

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

#### ***Revision***

BSR/NSF 42-202x (i109r5), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42-2021)

The point-of-use (POU) and point-of-entry (POE) systems addressed by this Standard are designed to be used for the reduction of specific substances that may be present in drinking water (public or private) considered to be microbiologically safe and of known quality. Systems covered under this Standard are intended to address one or more of the following: reduce substances affecting the aesthetic quality of the water, add chemicals for scale control, or limit microbial growth in the system (bacteriostatic). Substances may be soluble or particulate in nature. It is recognized that a system may be effective in controlling one or more of these substances but is not required to control all. Systems with manufacturer claims that include components or functions covered under other NSF or NSF/ANSI Standards or Criteria shall conform to the applicable requirements therein. Filter systems covered by this Standard are not intended to be used with drinking water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

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Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Monica Milla; [mmilla@nsf.org](mailto:mmilla@nsf.org)



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#### Revision

BSR/NSF 42-202x (i117r2), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42-2021)  
The point-of-use (POU) and point-of-entry (POE) systems addressed by this Standard are designed to be used for the reduction of specific substances that may be present in drinking water (public or private) considered to be microbiologically safe and of known quality. Systems covered under this Standard are intended to address one or more of the following: reduce substances affecting the aesthetic quality of the water, add chemicals for scale control, or limit microbial growth in the system (bacteriostatic). Substances may be soluble or particulate in nature. It is recognized that a system may be effective in controlling one or more of these substances but is not required to control all. Systems with manufacturer claims that include components or functions covered under other NSF or NSF/ANSI Standards or Criteria shall conform to the applicable requirements therein. Filter systems covered by this Standard are not intended to be used with drinking water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

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#### Revision

BSR/NSF 42-202x (i124r2), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42-2021)  
The point-of-use (POU) and point-of-entry (POE) systems addressed by this Standard are designed to be used for the reduction of specific substances that may be present in drinking water (public or private) considered to be microbiologically safe and of known quality. Systems covered under this Standard are intended to address one or more of the following: reduce substances affecting the aesthetic quality of the water, add chemicals for scale control, or limit microbial growth in the system (bacteriostatic). Substances may be soluble or particulate in nature. It is recognized that a system may be effective in controlling one or more of these substances but is not required to control all. Systems with manufacturer claims that include components or functions covered under other NSF or NSF/ANSI Standards or Criteria shall conform to the applicable requirements therein. Filter systems covered by this Standard are not intended to be used with drinking water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

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#### Revision

BSR/NSF 44-202x (i47r2), Residential Cation Exchange Water Softeners (revision of ANSI/NSF 44-2021)  
The manual, auto-initiated, and demand-initiated regeneration (DIR) residential cation exchange water softeners addressed by this Standard are designed for the reduction of specific substances that may be present in drinking water (public or private) considered to be microbiologically safe and of known quality. Systems covered under this standard are intended to reduce hardness affecting the aesthetic quality of water. The established health hazards, barium and radium, are optional performance claims addressed by this Standard. Systems with manufacturer claims that include components or functions covered under other NSF or NSF/ANSI Standards or Criteria shall conform to the applicable requirements therein. Systems covered by this Standard are not intended to be used with drinking water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

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### NSF (NSF International)

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#### Revision

BSR/NSF 53-202x (i130r5), Drinking Water Treatment Units - Health Effects (revision of ANSI/NSF 53-2021)  
It is the purpose of this Standard to establish minimum requirements for materials, design and construction, and performance of point-of-use and point-of-entry drinking water treatment systems that are designed to reduce specific health-related contaminants in public or private water supplies. Such systems include point-of-entry drinking water treatment systems used to treat all or part of the water at the inlet to a residential facility or a bottled water production facility, and includes the material and components used in these systems. This Standard also specifies the minimum product literature and labeling information that a manufacturer shall supply to authorized representatives and system owners, as well as the minimum service-related obligations that the manufacturer shall extend to system owners.

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#### Revision

BSR/NSF 53-202x (i133r2), Drinking Water Treatment Units - Health Affects (revision of ANSI/NSF 53-2021)

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

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#### Revision

BSR/NSF 53-202x (i149r2), Drinking Water Treatment Units - Health Effects (revision of ANSI/NSF 53-2021)

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

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#### Revision

BSR/NSF 55-202x (i56r2), Ultraviolet Microbiological Water Treatment Systems (revision of ANSI/NSF 55-2021)

This standard covers UV microbiological water treatment systems and components for point-of-use (POU) and point-of-entry (POE) applications. This standard covers systems which use UV radiation within the range of 240 nm to 300 nm inclusive.

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#### Revision

BSR/NSF 58-202x (i94r2), Reverse Osmosis Drinking Water Treatment Systems (revision of ANSI/NSF 58-2021)

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

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#### Revision

BSR/NSF 62-202x (i41r2), Drinking Water Distillation Systems (revision of ANSI/NSF 62-2021)

This standard establishes minimum materials, design and construction, and performance requirements for point-of-use and point-of-entry drinking water distillation systems and the components used in these systems.

Distillation systems covered by this standard are designed to reduce specific chemical contaminants from potable drinking water supplies. Systems covered under this standard may also be designed to reduce microbiological contaminants, including bacteria, viruses, and cysts, from potable drinking water supplies. It is recognized that a system may be effective in controlling one or more of these contaminants, but systems are not required to control all.

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#### Revision

BSR/NSF 177-202x (i10r2), Shower Filtration Systems - Aesthetic Effects (revision of ANSI/NSF 177-2019)

The point-of-use shower filtration systems addressed by this standard are designed to be used for the reduction of specific substances that may be present in potable water (public or private). Systems covered under this standard are intended to reduce substances affecting the aesthetic quality of the water.

Single copy price: Free

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Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Monica Milla; [mmilla@nsf.org](mailto:mmilla@nsf.org)

## Comment Deadline: January 16, 2023

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#### Revision

BSR/NSF 401-202x (i22r5), Drinking Water Treatment Units - Emerging Compounds / Incidental Contaminants (revision of ANSI/NSF 401-2021)

It is the purpose of this Standard to establish minimum requirements for materials, design and construction, and performance of drinking water treatment systems that are designed to reduce specific emerging compounds / incidental contaminants in public or private water supplies, such as pharmaceutical, personal care products, and endocrine disrupting compounds. This Standard also specifies the minimum product literature and labeling information that a manufacturer shall supply to authorized representatives and system owners as well as the minimum service-related obligations that the manufacturer shall extend to system owners.

Single copy price: Free

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#### Revision

BSR/NSF 401-202x (i23r2), Drinking Water Treatment Units - Emerging Compounds / Incidental Contaminants (revision of ANSI/NSF 401-2021)

It is the purpose of this Standard to establish minimum requirements for materials, design and construction, and performance of drinking water treatment systems that are designed to reduce specific emerging compounds / incidental contaminants in public or private water supplies, such as pharmaceutical, personal care products, and endocrine disrupting compounds. This Standard also specifies the minimum product literature and labeling information that a manufacturer shall supply to authorized representatives and system owners as well as the minimum service-related obligations that the manufacturer shall extend to system owners.

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#### Revision

BSR/NSF 401-202x (i30r2), Drinking Water Treatment Units - Emerging Compounds / Incidental Contaminants (revision of ANSI/NSF 401-2021)

The purpose of this Standard is to establish minimum requirements for materials, design and construction, and performance of drinking water treatment systems that are designed to reduce emerging compounds in public or private water supplies, such as pharmaceutical, personal care products (PPCPs), and endocrine disrupting compounds (EDCs).

Single copy price: Free

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### TIA (Telecommunications Industry Association)

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

#### Revision

BSR/TIA 1179-B-202x, Healthcare Facility Telecommunications Infrastructure Standard (revision and redesignation of ANSI/TIA 1179-A-2017)

This Standard specifies requirements for telecommunications infrastructure for healthcare facilities (e.g. hospitals, clinics). It specifies cabling, cabling topologies, and cabling distances. Additionally, pathways and spaces (e.g. sizing and location), and ancillary requirements are addressed. Telecommunications cabling specified by this standard is intended to support a wide range of healthcare facilities and systems.

Single copy price: \$103.00

Obtain an electronic copy from: [standards-process@tiaonline.org](mailto:standards-process@tiaonline.org)

Order from: TIA ([standards-process@tiaonline.org](mailto:standards-process@tiaonline.org))

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

### ULSE (UL Standards & Engagement)

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

#### New Standard

BSR/UL 60335-2-113-202x, Standard for Safety for Household and Similar Electrical Appliances - Safety - Part 2-113: Particular Requirements for Beauty Care Appliances Incorporating Lasers and Intense Light Sources (new standard)

UL is proposing the First Edition of UL 60335-2-113 as an standard, which is harmonized with Edition 1.1 of the Standard for Safety for Household and Similar Electrical Appliances - Safety - Part 2-113: Particular Requirements for Beauty Care Appliances Incorporating Lasers and Intense Light Sources, IEC 60335-2-113. UL 60335-2-113 covers the safety of beauty care appliances incorporating lasers or intense light sources for household and similar purposes, where their operation relies on contact with the skin, their rated voltage being not more than 250 V.

Single copy price: Free

Obtain an electronic copy from: <https://www.shopulstandards.com/>

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

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 201-202x, Standard for Safety for Garage Equipment (revision of ANSI/UL 201-2022)

1. Added language to include electronic and web-based instruction manuals.

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### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 489-202x, Standard for Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures (revision of ANSI/UL 489-2019)

1. The Proposed 14th Edition of the Standard for Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures, UL 489 2. Addition of consideration of programmable component errata 3. Addition of energy reducing maintenance setting 4. Addition of requirements for generator transfer 5. Revisions to 7.1.4.3 and 9.1.4.4 to address 100 percent rated circuit breakers

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### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 1778-202x, Standard for Safety for Uninterruptible Power Systems (revision of ANSI/UL 1778-2017)

The following is proposed: Addition of reference to UL 1973 for battery requirements

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

#### Revision

BSR/UL 2518-202x, Standard for Air Dispersion Systems (revision of ANSI/UL 2518-2016 (R2021))

This proposal covers: 1. Expand the scope and testing criteria to cover products under negative pressure conditions

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

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

#### ***Reaffirmation***

BSR/API RP 1173-2015 (R202x), Pipeline Safety Management Systems (reaffirmation of ANSI/API RP 1173-2015)

Establishes a pipeline safety management systems (PSMS) framework for organizations that operate hazardous liquids and gas pipelines jurisdictional to the U.S. Department of Transportation. Operators of other pipelines may find this document applicable useful in operating to their systems. This recommended practice (RP) provides pipeline operators with safety management system requirements that when applied provide a framework to reveal and manage risk, promote a learning environment, and continuously improve pipeline safety and integrity. At the foundation of a PSMS is the operator's existing pipeline safety system, including the operator's pipeline safety processes and procedures. This RP provides a comprehensive framework and defines the elements needed to identify and address safety for a pipeline's life cycle. These safety management system requirements identify what is to be done, and leaves the details associated with implementation and maintenance of the requirements to the individual pipeline operators. The document does not explicitly address personnel safety, environmental protection, and security, but the elements herein can be applied to those aspects of an operation.

Single copy price: \$93.00

Obtain an electronic copy from: John Buflod; [buflodj@api.org](mailto:buflodj@api.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: John Buflod; [buflodj@api.org](mailto:buflodj@api.org)

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

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

#### ***Reaffirmation***

BSR/ASME SRB-1-2018 (R202x), Design, Installation, Maintenance, and Application of Ball Slewing Ring Bearings (reaffirmation of ANSI/ASME SRB-1-2018)

This Standard applies to the design, application, installation, inspection requirements, and maintenance of slewing ring bearings (SRBs) using balls that do not require dynamic capacity-life ratings. These also may be called slewing rings. This is inclusive of four-point contact single-row and double-row ball bearings. Such bearings are used in, but not limited to, equipment such as hydraulic shovels, excavators, aerial platforms (manlifts), cranes, wind-power generators, building maintenance units (BMUs), and other equipment where one part of the structure must rotate with respect to another in an oscillating or indexing manner.

Single copy price: \$54.00

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

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



## Comment Deadline: January 31, 2023

### ASME (American Society of Mechanical Engineers)

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

#### Revision

BSR/ASME PDS 1.1-202x, Default Standards for Understanding Engineering Documentation with Incomplete Reference to Applicable Dimensioning, Tolerancing, Surface Texture, and Metrology Standards (revision of ANSI/ASME PDS-1.1-2013)

This standard defines the applicable dimensioning and tolerancing standards, surface texture standards, and associated measurement standards when no reference is made to a company, regional, national, or international standard on dimensioning and tolerancing product definition data. This standard applies to product definition data created in any country.

Single copy price: Free

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Fredric Constantino; [constantinof@asme.org](mailto:constantinof@asme.org)

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

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

#### National Adoption

INCITS/ISO/IEC 19770-8:2020 [202x], Information technology - IT asset management - Part 8: Guidelines for mapping of industry practices to/from the ISO/IEC 19770 family of standards (identical national adoption of ISO/IEC 19770-8:2020)

Defines requirements, guidelines, formats and approaches for use when producing a mapping document that defines how industry practices map to/from the ISO/IEC 19770 series.

Single copy price: \$111.00

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#### National Adoption

INCITS/ISO/IEC 19770-11:2021 [202x], Information technology - IT asset management - Part 11: Requirements for bodies providing audit and certification of IT asset management systems (identical national adoption of ISO/IEC 19770-11:2021)

Specifies requirements and provides guidance for certification bodies providing audit and certification of an ITAMS in accordance with ISO/IEC 19770-1. It does not change the requirements specified in ISO/IEC 19770-1.

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#### ***National Adoption***

INCITS/ISO/IEC 20085-2:2020 [202x], IT Security techniques - Test tool requirements and test tool calibration methods for use in testing non-invasive attack mitigation techniques in cryptographic modules - Part 2: Test calibration methods and apparatus (identical national adoption of ISO/IEC 20085-2:2020)

Specifies the test calibration methods and apparatus used when calibrating test tools for cryptographic modules under ISO/IEC 19790 and ISO/IEC 24759 against the test metrics defined in ISO/IEC 17825 for mitigation of non-invasive attack classes.

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#### ***National Adoption***

INCITS/ISO/IEC 24773-1:2019 [202x], Software and systems engineering - Certification of software and systems engineering professionals - Part 1: General requirements (identical national adoption of ISO/IEC 24773-1:2019)

This document is part one of the ISO/IEC 24773 series. It contains the requirements which will be common to all other parts of the ISO/IEC 24773 series, for certifications (schemes and bodies) in the domain of software and systems engineering.

Single copy price: \$73.00

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#### ***National Adoption***

INCITS/ISO/IEC 24773-3:2021 [202x], Software and systems engineering - Certification of software and systems engineering professionals - Part 3: Systems engineering (identical national adoption of ISO/IEC 24773-3:2021)

Elaborates requirements and recommendations for certifications schemes based on ISO/IEC 24773-1, which are specific to the domain of systems engineering.

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#### ***National Adoption***

INCITS/ISO/IEC 27036-2:2022 [202x], Cybersecurity - Supplier relationships - Part 2: Requirements (identical national adoption of ISO/IEC 27036-2:2022)

Specifies fundamental information security requirements for defining, implementing, operating, monitoring, reviewing, maintaining and improving supplier and acquirer relationships. These requirements cover any procurement and supply of products and services, such as manufacturing or assembly, business process procurement, software and hardware components, knowledge process procurement, build-operate-transfer and cloud computing services.

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#### ***National Adoption***

INCITS/ISO/IEC 27050-3:2020 [202x], Information technology - Electronic discovery - Part 3: Code of practice for electronic discovery (identical national adoption of ISO/IEC 27050-3:2020)

Provides requirements and recommendations on activities in electronic discovery, including, but not limited to, identification, preservation, collection, processing, review, analysis and production of electronically stored information (ESI). In addition, this document specifies relevant measures that span the lifecycle of the ESI from its initial creation through to final disposition.

Single copy price: \$175.00

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#### ***National Adoption***

INCITS/ISO/IEC 27050-4:2021 [202x], Information technology - Electronic discovery - Part 4: Technical readiness (identical national adoption of ISO/IEC 27050-4:2021)

Provides guidance on the ways an organization can plan and prepare for, and implement, electronic discovery from the perspective of both technology and processes. This document provides guidance on proactive measures that can help enable effective and appropriate electronic discovery and processes.

Single copy price: \$175.00

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#### ***National Adoption***

INCITS/ISO/IEC 23396:2020 [202x], Systems and software engineering - Capabilities of review tools (identical national adoption of ISO/IEC 23396:2020)

Specifies the capabilities of a tool to support review work. The evaluation and selection of the review tools are performed in accordance with ISO/IEC 20741 which defines the general evaluation selection process and evaluation characteristics. This document defines capabilities specific to review tools in the process. By using these two standards together, it is possible to derive objective and reasonable results of the evaluation and selection of review tools.

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#### ***National Adoption***

INCITS/ISO/IEC 23531:2020 [202x], Systems and software engineering - Capabilities of issue management tools (identical national adoption of ISO/IEC 23531:2020)

Defines the capabilities of issue management tools and is used to select the most appropriate one from many issue management tools. The evaluation and selection of the issue management tools is performed in accordance with ISO/IEC 20741 which defines the general evaluation selection process and evaluation characteristics. Issue management is based on the tasks described in several activities in their processes (e.g. project assessment and control, decision management, and system/software requirements definition) of ISO/IEC/IEEE 12207.

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#### ***National Adoption***

INCITS/ISO/IEC 25020:2019 [202x], Systems and software engineering - Systems and software quality requirements and evaluation (SQuaRE) - Quality measurement framework (identical national adoption of ISO/IEC 25020:2019)

Provides a framework for developing quality measurement. The contents of this document are as follows: quality measurement reference model; relationships among different types of quality measures; guidelines for selecting quality measures; guidelines for constructing quality measures; guidelines for planning and performing measurements; guidelines for the application of measurement results.

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#### ***National Adoption***

INCITS/ISO/IEC 25030:2019 [202x], Systems and software engineering - Systems and software quality requirements and evaluation (SQuaRE) - Quality requirements framework (identical national adoption of ISO/IEC 25030:2019)

Provides the framework for quality requirements for systems, software products and data, which includes concept of the quality requirements, and requirements and recommendations for the processes and methods to elicit, define, use and govern them

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#### ***National Adoption***

INCITS/ISO/IEC 26552:2019 [202x], Software and systems engineering - Tools and methods for product line architecture design (identical national adoption of ISO/IEC 26552:2019)

This document, within the context of methods and tools for architecture design for software and systems product lines: defines processes and their subprocesses performed during domain and application architecture design. Those processes are described in terms of purpose, inputs, tasks and outcomes; defines method capabilities to support the defined tasks of each process; defines tool capabilities to automate/semi-automate tasks or defined method capabilities.

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### **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)

#### ***National Adoption***

INCITS/ISO/IEC 26560:2019 [202x], Software and systems engineering - Tools and methods for product line product management (identical national adoption of ISO/IEC 26560:2019)

This document, within the context of methods and tools for product line product management: defines product line-specific processes and their subprocesses for product management of software and systems product lines. Those processes are described in terms of purpose, inputs, tasks and outcomes; defines method capabilities to support the defined tasks of each process; defines tool capabilities to automate/semi-automate tasks or defined method capabilities.

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#### ***National Adoption***

INCITS/ISO/IEC 26561:2019 [202x], Software and systems engineering - Methods and tools for product line technical probe (identical national adoption of ISO/IEC 26561:2019)

This document, within the context of methods and tools for supporting the diagnosis of the organization's capability to adopt or improve software and systems product line engineering; defines processes for product line technical probe; those processes are described in terms of purpose, inputs, tasks and outcomes; defines method capabilities to support the defined tasks of each process; and defines tool capabilities that automate or semi-automate tasks and methods.

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#### ***National Adoption***

INCITS/ISO/IEC 26562:2019 [202x], Software and systems engineering - Methods and tools for product line transition management (identical national adoption of ISO/IEC 26562:2019)

This document, within the context of methods and tools for supporting the transitioning the organization's current development approach to software and systems product line engineering; defines processes for product line transition management. Those processes are described in terms of purpose, inputs, tasks and outcomes; defines method capabilities to support the defined tasks of each process; defines tool capabilities that automate or semi-automate tasks and methods.

Single copy price: \$175.00

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#### ***National Adoption***

INCITS/ISO/IEC 26580:2021 [202x], Software and systems engineering - Methods and tools for the feature-based approach to software and systems product line engineering (identical national adoption of ISO/IEC 26580:2021)

This document is a specialization of the more general reference model for software and systems product line engineering and management described in ISO/IEC 26550. The specialization defined herein addresses a class of methods and tools referred to as feature-based software and systems product line engineering, or feature-based PLE, which has emerged as a proven and repeatable product line engineering and management (PLE) practice supported by commercial tool providers.

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#### ***National Adoption***

INCITS/ISO/IEC 27014:2020 [202x], Information security, cybersecurity and privacy protection - Governance of information security (identical national adoption of ISO/IEC 27014:2020)

Provides guidance on concepts, objectives and processes for the governance of information security, by which organizations can evaluate, direct, monitor and communicate the information security-related processes within the organization.

Single copy price: \$111.00

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#### ***National Adoption***

INCITS/ISO/IEC 27017:2015 [202x], Information technology - Security techniques - Code of practice for information security controls based on ISO/IEC 27002 for cloud services (identical national adoption of ISO/IEC 27017:2015)

Guidelines for information security controls applicable to the provision and use of cloud services by providing: additional implementation guidance for relevant controls specified in ISO/IEC 27002; additional controls with implementation guidance that specifically relate to cloud services. This Recommendation | International Standard provides controls and implementation guidance for both cloud service providers and cloud service customers.

Single copy price: \$175.00

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#### ***National Adoption***

INCITS/ISO/IEC 27099:2022 [202x], Information technology - Public key infrastructure - Practices and policy framework (identical national adoption of ISO/IEC 27099:2022)

Sets out a framework of requirements to manage information security for Public key infrastructure (PKI) trust service providers through certificate policies, certificate practice statements, and, where applicable, their internal underpinning by an information security management system (ISMS). The framework of requirements includes the assessment and treatment of information security risks, tailored to meet the agreed service requirements of its users as specified through the certificate policy.

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## Comment Deadline: January 31, 2023

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 2127-202x, Standard for Inert Gas Clean Agent Extinguishing System Units (revision of ANSI/UL 2127-2021)

This proposal covers: 1. Allow alternative options to identify the use of the pressure gauges

Single copy price: Free

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

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 2166-202x, Standard for Halocarbon Clean Agent Extinguishing System Units (revision of ANSI/UL 2166-2021)

This proposal covers: 1. Allow alternative options to identify the use of the pressure gauges

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

## Project Withdrawn

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

### ADA (American Dental Association)

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

BSR/ADA Standard No. 1101-202x, Orthodontic Electronic Dental Record System Standard - Functional Requirements (new standard)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Questions may be directed to: Paul Bralower; [bralowerp@ada.org](mailto:bralowerp@ada.org)

### FCI (Fluid Controls Institute)

1300 Sumner Avenue, Cleveland, OH 44115 | [fci@fluidcontrolsinstitute.org](mailto:fci@fluidcontrolsinstitute.org), [www.fluidcontrolsinstitute.org](http://www.fluidcontrolsinstitute.org)

BSR/FCI 87-2-202x, Power Signal Standard for Spring-Diaphragm Actuated Control Valves (new standard)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Questions may be directed to: Leslie Schraff; [fci@fluidcontrolsinstitute.org](mailto:fci@fluidcontrolsinstitute.org)



## **Project Withdrawn**

### **FCI (Fluid Controls Institute)**

1300 Sumner Avenue, Cleveland, OH 44115 | [fci@fluidcontrolsinstitute.org](mailto:fci@fluidcontrolsinstitute.org), [www.fluidcontrolsinstitute.org](http://www.fluidcontrolsinstitute.org)

BSR/FCI 87-2-1990, Power Signal Standard for Spring-Diaphragm Actuated Control Valves (new standard)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Questions may be directed to: Jillian Scott; [fci@fluidcontrolsinstitute.org](mailto:fci@fluidcontrolsinstitute.org)

### **TIA (Telecommunications Industry Association)**

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

BSR/TIA 492AAAF-A-202x, A detailed specification for class 1a graded-index multimode optical fibers (national adoption of IEC 60793-2-10:2019 with modifications and revision of ANSI/TIA 492AAAF-2020)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Questions may be directed to: Teesha Jenkins; [standards-process@tiaonline.org](mailto:standards-process@tiaonline.org)

# Final Actions on American National Standards

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

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## **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)

### **Reaffirmation**

ANSI E1.37-1-2012 (R2022), Additional Message Sets for ANSI E1.20 (RDM) - Part 1, Dimmer Message Sets (reaffirmation of ANSI E1.37-1-2012 (R2017)) Final Action Date: 11/21/2022

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

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

### **Revision**

ANSI/SCTE 250-2022, Real-time Event Signaling and Management API (revision of ANSI/SCTE 250-2020) Final Action Date: 11/21/2022

## **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**

ANSI/SPRI/FM 4435/ES-1-2022, Test Standard for Edge Systems Used with Low Slope Roofing Systems (revision of ANSI/SPRI/FM 4435 ES-1-2017) Final Action Date: 11/21/2022

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

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

### **Revision**

ANSI/UL 1581-2022, Standard for Reference Standard for Electrical Wires, Cables, and Flexible Cords (July 8, 2022) (revision of ANSI/UL 1581-2020) Final Action Date: 11/15/2022

### **Revision**

ANSI/UL 1998-2022, Standard for Safety for Software in Programmable Components (revision of ANSI/UL 1998-2018) Final Action Date: 11/16/2022

### **Revision**

ANSI/UL 60745-2-3-2022, UL Standard for Safety for Hand-Held Motor-Operated Electric Tools - Safety - Part 2-3: Particular Requirements for Grinders, Polishers, and Disk-Type Sanders, (revision of ANSI/UL 60745-2-3-2013 (R2018)) Final Action Date: 11/18/2022

# Call for Members (ANS Consensus Bodies)

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

---

## ANSI Accredited Standards Developer

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

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

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- Service Provider
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- 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).

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

1111 19th Street NW, Suite 402, Washington, DC 20036 | [jpark@aham.org](mailto:jpark@aham.org), [www.aham.org](http://www.aham.org)

BSR/AHAM AC-1-202x, Method for Measuring Performance of Portable Household Electric Room Air Cleaners (revision of ANSI/AHAM AC-1-2020)

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

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

BSR/AHRI Standard 680-2015 (R202x) (I-P), Performance Rating of Residential Air Filter Equipment (reaffirmation of ANSI/AHRI Standard 680 (I-P)-2015)

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BSR/AHRI Standard 681-2015 (R202x) (SI), Performance Rating of Residential Air Filter Equipment (reaffirmation of ANSI/AHRI Standard 681 (SI)-2015)

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

BSR/AHRI Standard 850-2013 (R202x) (I-P), Performance Rating of Commercial and Industrial Air Filter Equipment (reaffirmation of ANSI/AHRI Standard 850 (I-P)-2013,)

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

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

BSR/AHRI Standard 851-2013 (R202x) (SI), Performance Rating of Commercial and Industrial Air Filter Equipment (reaffirmation of ANSI/AHRI Standard 851 (SI)-2013)

**ARESCA (American Renewable Energy Standards and Certification Association)**

256 Farrell Farm Road, Norwich, VT 05055 | [secretary@aresca.us](mailto:secretary@aresca.us), [www.aresca.us](http://www.aresca.us)

BSR/ARESCA 61400-50-202x, Wind energy generation systems - Part 50: Wind measurement - Overview (identical national adoption of IEC 61400-50:2022)

**ARESCA (American Renewable Energy Standards and Certification Association)**

256 Farrell Farm Road, Norwich, VT 05055 | [secretary@aresca.us](mailto:secretary@aresca.us), [www.aresca.us](http://www.aresca.us)

BSR/ARESCA 61400-50-1-202x, Wind energy generation systems - Part 50-1: Wind measurement - Application of meteorological mast, nacelle and spinner mounted instruments (identical national adoption of IEC 61400-50-1:2022)

**ARESCA (American Renewable Energy Standards and Certification Association)**

256 Farrell Farm Road, Norwich, VT 05055 | [secretary@aresca.us](mailto:secretary@aresca.us), [www.aresca.us](http://www.aresca.us)

BSR/ARESCA 61400-50-2-202x, Wind energy generation systems - Part 50-2: Wind measurement - Application of ground-mounted remote sensing technology (identical national adoption of IEC 61400-50-2:2022)

**ARESCA (American Renewable Energy Standards and Certification Association)**

256 Farrell Farm Road, Norwich, VT 05055 | [secretary@aresca.us](mailto:secretary@aresca.us), [www.aresca.us](http://www.aresca.us)

BSR/ARESCA 61400-50-4-202x, Wind energy generation systems - Part 50-4: Use of floating lidars for wind measurements (identical national adoption of IEC 61400-50-4:2023)

**CTA (Consumer Technology Association)**

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

BSR/CTA 2060-2017 (R202x), Interoperability Standards Series for Consumer EEG Data - File Storage (reaffirmation of ANSI/CTA 2060-2017)

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

**CTA (Consumer Technology Association)**

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

BSR/CTA 2119-202x, Framework for Evaluation of a Cybersecurity Scheme (new standard)

Interest Categories: CTA and The R14 Cybersecurity and Privacy Management Committee are particularly interested in adding new members (called "users") who develops standards, recommended practices, and technical reports in the area of cybersecurity and privacy management, for developers of connected devices.

**FCI (Fluid Controls Institute)**

1300 Sumner Avenue, Cleveland, OH 44115 | [fcifluidcontrols@fluidcontrols.org](mailto:fcifluidcontrols@fluidcontrols.org), [www.fluidcontrols.org](http://www.fluidcontrols.org)

BSR/FCI 20-1-202x, Standard for Performance Testing Strainers for Liquid Service (new standard)

**ISA (International Society of Automation)**

3252 S. Miami Blvd, Suite 102, Durham, NC 27703 | [crobinson@isa.org](mailto:crobinson@isa.org), [www.isa.org](http://www.isa.org)

BSR/ISA 75.27.01-202x, Cryogenic and Low Temperature Seat Leakage Testing of Control Valves (new standard)

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INCITS/ISO/IEC 19770-8:2020 [202x], Information technology - IT asset management - Part 8: Guidelines for mapping of industry practices to/from the ISO/IEC 19770 family of standards (identical national adoption of ISO/IEC 19770-8:2020)

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INCITS/ISO/IEC 19770-11:2021 [202x], Information technology - IT asset management - Part 11: Requirements for bodies providing audit and certification of IT asset management systems (identical national adoption of ISO/IEC 19770-11:2021)

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INCITS/ISO/IEC 20085-2:2020 [202x], IT Security techniques - Test tool requirements and test tool calibration methods for use in testing non-invasive attack mitigation techniques in cryptographic modules - Part 2: Test calibration methods and apparatus (identical national adoption of ISO/IEC 20085-2:2020)

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INCITS/ISO/IEC 24773-1:2019 [202x], Software and systems engineering - Certification of software and systems engineering professionals - Part 1: General requirements (identical national adoption of ISO/IEC 24773-1:2019)

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INCITS/ISO/IEC 24773-3:2021 [202x], Software and systems engineering - Certification of software and systems engineering professionals - Part 3: Systems engineering (identical national adoption of ISO/IEC 24773-3:2021)

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INCITS/ISO/IEC 27036-2:2022 [202x], Cybersecurity - Supplier relationships - Part 2: Requirements (identical national adoption of ISO/IEC 27036-2:2022)

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INCITS/ISO/IEC 27050-3:2020 [202x], Information technology - Electronic discovery - Part 3: Code of practice for electronic discovery (identical national adoption of ISO/IEC 27050-3:2020)

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

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

INCITS/ISO/IEC 27050-4:2021 [202x], Information technology - Electronic discovery - Part 4: Technical readiness (identical national adoption of ISO/IEC 27050-4:2021)

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

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

INCITS/ISO/IEC 23396:2020 [202x], Systems and software engineering - Capabilities of review tools (identical national adoption of ISO/IEC 23396:2020)

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INCITS/ISO/IEC 23531:2020 [202x], Systems and software engineering - Capabilities of issue management tools (identical national adoption of ISO/IEC 23531:2020)

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INCITS/ISO/IEC 25020:2019 [202x], Systems and software engineering - Systems and software quality requirements and evaluation (SQuaRE) - Quality measurement framework (identical national adoption of ISO/IEC 25020:2019)

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INCITS/ISO/IEC 25030:2019 [202x], Systems and software engineering - Systems and software quality requirements and evaluation (SQuaRE) - Quality requirements framework (identical national adoption of ISO/IEC 25030:2019)

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

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

INCITS/ISO/IEC 26552:2019 [202x], Software and systems engineering - Tools and methods for product line architecture design (identical national adoption of ISO/IEC 26552:2019)

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

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

INCITS/ISO/IEC 26560:2019 [202x], Software and systems engineering - Tools and methods for product line product management (identical national adoption of ISO/IEC 26560:2019)

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

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

INCITS/ISO/IEC 26561:2019 [202x], Software and systems engineering - Methods and tools for product line technical probe (identical national adoption of ISO/IEC 26561:2019)

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

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

INCITS/ISO/IEC 26562:2019 [202x], Software and systems engineering - Methods and tools for product line transition management (identical national adoption of ISO/IEC 26562:2019)

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

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

INCITS/ISO/IEC 26580:2021 [202x], Software and systems engineering - Methods and tools for the feature-based approach to software and systems product line engineering (identical national adoption of ISO/IEC 26580:2021)

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

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

INCITS/ISO/IEC 27014:2020 [202x], Information security, cybersecurity and privacy protection - Governance of information security (identical national adoption of ISO/IEC 27014:2020)

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

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

INCITS/ISO/IEC 27017:2015 [202x], Information technology - Security techniques - Code of practice for information security controls based on ISO/IEC 27002 for cloud services (identical national adoption of ISO/IEC 27017:2015)

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

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

INCITS/ISO/IEC 27099:2022 [202x], Information technology - Public key infrastructure - Practices and policy framework (identical national adoption of ISO/IEC 27099:2022)

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

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

INCITS/ISO/IEC 38503:2022 [202x], Information technology - Governance of IT - Assessment of the governance of IT (identical national adoption of ISO/IEC 38503:2022)

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

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

BSR C29.17-202x, Standard for Composite Insulators Transmission Line Post Type (revision of ANSI C29.17-2013)

**NEMA (ASC Z535) (National Electrical Manufacturers Association)**

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

BSR Z535.7-202x, Product Safety Information in Electronic Media (new standard)

**NSF (NSF International)**

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

BSR/NSF 42-202x (i109r5), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42-2021)

**NSF (NSF International)**

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

BSR/NSF 42-202x (i117r2), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42-2021)

**NSF (NSF International)**

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

BSR/NSF 42-202x (i124r2), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42-2021)

**NSF (NSF International)**

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

BSR/NSF 44-202x (i47r2), Residential Cation Exchange Water Softeners (revision of ANSI/NSF 44-2021)

**NSF (NSF International)**

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

BSR/NSF 53-202x (i130r5), Drinking Water Treatment Units - Health Effects (revision of ANSI/NSF 53-2021)



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

BSR/NSF 53-202x (i133r2), Drinking Water Treatment Units - Health Affects (revision of ANSI/NSF 53-2021)

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BSR/NSF 53-202x (i149r2), Drinking Water Treatment Units - Health Effects (revision of ANSI/NSF 53-2021)

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

BSR/NSF 55-202x (i56r2), Ultraviolet Microbiological Water Treatment Systems (revision of ANSI/NSF 55-2021)

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BSR/NSF 55-202x (i65r1), Ultraviolet Microbiological Water Treatment Systems (revision of ANSI/NSF 55-2021)

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BSR/NSF 58-202x (i94r2), Reverse Osmosis Drinking Water Treatment Systems (revision of ANSI/NSF 58-2021)

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BSR/NSF 62-202x (i41r2), Drinking Water Distillation Systems (revision of ANSI/NSF 62-2021)

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BSR/NSF 177-202x (i10r2), Shower Filtration Systems - Aesthetic Effects (revision of ANSI/NSF 177-2019)

**NSF (NSF International)**

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

BSR/NSF 401-202x (i22r5), Drinking Water Treatment Units - Emerging Compounds / Incidental Contaminants (revision of ANSI/NSF 401-2021)

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BSR/NSF 401-202x (i23r2), Drinking Water Treatment Units - Emerging Compounds / Incidental Contaminants (revision of ANSI/NSF 401-2021)

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BSR/NSF 401-202x (i30r2), Drinking Water Treatment Units - Emerging Compounds / Incidental Contaminants (revision of ANSI/NSF 401-2021)

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

BSR/NSF 455-2-202x (i44r2), 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 | [rbrooker@nsf.org](mailto:rbrooker@nsf.org), [www.nsf.org](http://www.nsf.org)

BSR/NSF 455-3-202x (i37r1), Good Manufacturing Practices for Cosmetics (revision of ANSI/NSF 455-3-2021)

**TIA (Telecommunications Industry Association)**

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

BSR/TIA 621.1-202x, IEC 61755-1:Fibre optic interconnecting devices and passive components - Connector optical interfaces for single-mode fibres - Part 1: Optical interfaces for dispersion unshifted fibres - General and guidance (identical national adoption of IEC 61755-1)

**TIA (Telecommunications Industry Association)**

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BSR/TIA 622.1-202x, IEC 61755-2-1:Fibre optic interconnecting devices and passive components - Connector optical interfaces for single-mode fibres - Part 2-1: Connection parameters of dispersion unshifted physically contacting fibres - Non-angled (identical national adoption of IEC 61755-2-1)

**TIA (Telecommunications Industry Association)**

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BSR/TIA 622.2-202x, IEC 61755-2-2:Fibre optic interconnecting devices and passive components - Connector optical interfaces for single-mode fibres - Part 2-2: Connection parameters of dispersion unshifted physically contacting fibres - Angled (identical national adoption of IEC 61755-2-2)

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BSR/TIA 1179-B-202x, Healthcare Facility Telecommunications Infrastructure Standard (revision and redesignation of ANSI/TIA 1179-A-2017)

# Call for Comment of ANS Limited Substantive Changes

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## ANSI Accredited Standards Developers

### NETA - InterNational Electrical Testing Association

#### ANSI/NETA MTS-2019 - 30-Day Comment Deadline By January 2, 2023

This Call for Comment of Limited Substantive Changes to the Approved American National Standard is available for review & comment until **January 2, 2023**

### ANSI/NETA MTS-2019

#### *NETA Standard for Maintenance Testing Specifications for Electrical Power Equipment and Systems*

(revision of ANSI/NETA MTS-2015)

These specifications incorporate comprehensive field tests and inspections to assess the suitability for continued service, condition of maintenance, and reliability of electrical power distribution equipment and systems. The purpose of these specifications is to assure tested electrical equipment and systems are operational, are within applicable standards and manufacturer's tolerances, and are suitable for continued service.

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Tania Brammer; [tbrammer@netaworld.org](mailto:tbrammer@netaworld.org)

Single copy price: \$500.00

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

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# 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)

# Accreditation Announcements (Standards Developers)

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## Public Review of Application for ASD Accreditation

### I-DIEM - Institute for Diversity and Inclusion in Emergency Management

Comment Deadline: 1/2/2023

The **Institute for Diversity and Inclusion in Emergency Management (I-DIEM)**, a new ANSI member in November 2022, has submitted an application for accreditation as an ANSI Accredited Standards Developer (ASD) and proposed operating procedures for documenting consensus on I-DIEM-sponsored American National Standards. I-DIEM's proposed scope of standards activity is as follows:

Comprehensive Diversity, Equity, and Inclusion (DEI) standards for public, private, non-profit, academic and international emergency management organizations.

As the proposed procedures are available electronically, the public review period is 30 days. You may view or download a copy of I-DIEM's proposed operating procedures from ANSI Online during the public review period at this [URL](#).

To obtain a copy of I-DIEM's application and proposed operating procedures or to offer comments, please contact: Sheri Bailey, **Institute for Diversity and Inclusion in Emergency Management (I-DIEM)** | 4827 Old National Hwy #1284, College Park, GA 30337 | (813) 372-1700, [baileysvs@gmail.com](mailto:baileysvs@gmail.com). Please submit any public comments to I-DIEM by **January 2, 2023**. ([please copy jthomps@ansi.org](mailto:jthomps@ansi.org))

# American National Standards Under Continuous Maintenance

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

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

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

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

# ANSI-Accredited Standards Developers (ASD) Contacts

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

<p><b>ACP</b> American Clean Power Association 1501 M Street NW, Suite 1000 Washington, DC 22205 <a href="http://www.cleanpower.org">www.cleanpower.org</a>  Duane Brown <a href="mailto:dbrown@cleanpower.org">dbrown@cleanpower.org</a></p>	<p><b>ARESCA</b> American Renewable Energy Standards and Certification Association 256 Farrell Farm Road Norwich, VT 05055 <a href="http://www.aresca.us">www.aresca.us</a>  George Kelly <a href="mailto:secretary@aresca.us">secretary@aresca.us</a></p>	<p>Debbie Chesnik <a href="mailto:ansi.contact@csagroup.org">ansi.contact@csagroup.org</a></p>
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<p><b>AISI</b> American Iron and Steel Institute 25 Massachusetts Avenue, NW, Suite 800 Washington, DC 20001 <a href="http://www.steel.org">www.steel.org</a>  Jay Larson <a href="mailto:jl Larson@steel.org">jl Larson@steel.org</a></p>	<p><b>ASME</b> American Society of Mechanical Engineers Two Park Avenue, 6th Floor New York, NY 10016 <a href="http://www.asme.org">www.asme.org</a>  Maria Acevedo <a href="mailto:ansibox@asme.org">ansibox@asme.org</a></p>	<p><b>FCI</b> Fluid Controls Institute 1300 Sumner Avenue Cleveland, OH 44115 <a href="http://www.fluidcontrolsinstitute.org">www.fluidcontrolsinstitute.org</a>  Leslie Schraff <a href="mailto:fci@fluidcontrolsinstitute.org">fci@fluidcontrolsinstitute.org</a></p>
<p><b>APA</b> APA - The Engineered Wood Association 7011 South 19th Street Tacoma, WA 98466 <a href="http://www.apawood.org">www.apawood.org</a>  Borjen Yeh <a href="mailto:borjen.yeh@apawood.org">borjen.yeh@apawood.org</a></p>	<p><b>ASME</b> American Society of Mechanical Engineers Two Park Avenue, M/S 6-2B New York, NY 10016 <a href="http://www.asme.org">www.asme.org</a>  Terrell Henry <a href="mailto:ansibox@asme.org">ansibox@asme.org</a></p>	<p><b>IAPMO (ASSE Chapter)</b> ASSE International Chapter of IAPMO 18927 Hickory Creek Drive, Suite 220 Mokena, IL 60448 <a href="http://www.asse-plumbing.org">www.asse-plumbing.org</a>  Terry Burger <a href="mailto:terry.burger@asse-plumbing.org">terry.burger@asse-plumbing.org</a></p>
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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

### Acoustics (TC 43)

ISO/DIS 9612, Acoustics - Determination of occupational noise exposure - Methodology - 2/10/2023, \$119.00

### Agricultural food products (TC 34)

ISO/DIS 3657, Animal and vegetable fats and oils - Determination of saponification value - 2/10/2023, \$53.00

### Air quality (TC 146)

ISO/DIS 7935, Stationary source emissions - Determination of the mass concentration of sulfur dioxide in flue gases - Performance characteristics of automated measuring systems - 2/10/2023, \$119.00

### Aircraft and space vehicles (TC 20)

ISO/DIS 3186, Aerospace - Bolts, large bihexagonal head, normal shank, short or medium length MJ threads, metallic material, coated or uncoated, strength classes 1 250 MPa to 1 800 MPa - Dimensions - 2/10/2023, \$33.00

ISO/DIS 5305, Noise measurements for UAS (Unmanned aircraft systems) - 2/11/2023, \$112.00

ISO/DIS 5309, Vibration test methods for lightweight and small civil UAS - 2/10/2023, \$62.00

ISO/DIS 15389, Space systems - Flight-to-ground umbilicals - 2/10/2023, \$67.00

ISO/DIS 23629-9, UAS traffic management (UTM) - Part 9: Interface between UTM service providers and users - 2/11/2023, \$77.00

### Building environment design (TC 205)

ISO 11855-2:2021/DAMd 1, Building environment design - Embedded radiant heating and cooling systems - Part 2: Determination of the design heating and cooling capacity - Amendment 1 - 2/12/2023, \$77.00

ISO 11855-3:2021/DAMd 1, Building environment design - Embedded radiant heating and cooling systems - Part 3: Design and dimensioning - Amendment 1 - 2/11/2023, \$58.00

ISO 11855-4:2021/DAMd 1, Building environment design - Embedded radiant heating and cooling systems - Part 4: Dimensioning and calculation of the dynamic heating and cooling capacity of Thermo Active Building Systems (TABS) - Amendment 1 - 2/12/2023, \$40.00

ISO 11855-5:2021/DAMd 1, Building environment design - Embedded radiant heating and cooling systems - Part 5: Installation - Amendment 1 - 2/12/2023, \$29.00

### Cleaning equipment for air and other gases (TC 142)

ISO/DIS 23137-1, Requirements for aerosol filters used in nuclear facilities against specified severe conditions - Part 1: General requirements - 2/9/2023, \$67.00

### Document imaging applications (TC 171)

ISO/DIS 14289-2, Document management applications - Electronic document file format enhancement for accessibility - Part 2: Use of ISO 32000-2 (PDF/UA-2) - 2/10/2023, \$112.00

### Fine ceramics (TC 206)

ISO/DIS 13915, Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for optical properties of ceramic phosphors for white light-emitting diodes with reference materials - 2/10/2023, \$67.00

**Graphical symbols (TC 145)**

ISO 7010:2019/DAMd 134, Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 134: Safety sign W080: Warning; Hot steam - 2/9/2023, \$29.00

ISO 7010:2019/DAMd 133, Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 133: Safety sign W079: Warning; Hot content - 2/9/2023, \$29.00

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

ISO/DIS 14919, Thermal spraying - Wires, rods and cords for flame and arc spraying - Classification - Technical supply conditions - 2/10/2023, \$62.00

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

ISO/DIS 24489, Non-destructive testing - Acoustic emission testing - Detection of corrosion at atmospheric and low-pressure metallic storage tank floors - 2/10/2023, \$77.00

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

ISO/DIS 3549, Zinc dust pigments for paints - Specifications and test methods - 2/11/2023, \$77.00

**Plastics (TC 61)**

ISO/DIS 8605, Fibre-reinforced plastics - Sheet moulding compound (SMC) - Basis for a specification - 2/11/2023, \$53.00

**Steel (TC 17)**

ISO/DIS 4993, Steel and iron castings - Radiographic testing - 2/11/2023, \$62.00

ISO/DIS 9477, High strength cast steels for general engineering and structural purposes - 2/9/2023, \$33.00

**Valves (TC 153)**

ISO/DIS 5640.2, Industrial valves - Mounting kits for part-turn valve actuator attachment - 12/2/2022, \$67.00

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

ISO/IEC 23003-4:2020/DAMd 2, Information technology - MPEG audio technologies - Part 4: Dynamic range control - Amendment 2: Loudness leveling - 2/10/2023, \$67.00

ISO/IEC DIS 6523-1, Information technology - Structure for the identification of organizations and organization parts - Part 1: Identification of organization identification schemes - 2/10/2023, \$53.00

ISO/IEC DIS 24760-2, IT Security and Privacy - A framework for identity management - Part 2: Reference architecture and requirements - 2/9/2023, \$119.00

ISO/IEC DIS 23000-19/DAMd 1, Information technology - Multimedia application format (MPEG-A) - Part 19: Common media application format (CMAF) for segmented media - Amendment 1: Low complexity enhancement video Coding (LCEVC) and other technologies - 2/10/2023, \$40.00

**IEC Standards**

46F/631/CDV, IEC 61169-70 Ed 1.0: Radio-frequency connectors - Part 70: Sectional specification for series HD-BNC radio-frequency coaxial connectors - Characteristic Impedance 75 ohms, 02/17/2023

94/778/CD, IEC 61810-7-27 ED1: All-or-Nothing Electrical Relays - Testing and Measurement - Part 7-27: Electrical contact noise, 01/20/2023

94/779/CD, IEC 61810-7-28 ED1: All-or-Nothing Electrical Relays - Tests and Measurement - Part 7-28: Thermoelectric electromotive force (e.m.f.), 01/20/2023

94/780/CD, IEC 61810-7-38 ED1: All-or-Nothing Electrical Relays - Testing and Measurement - Part 7-38: Mechanical interlock, 01/20/2023

100/3850/NP, PNW TS 100-3850 ED1: Encoding guidelines for interoperable master format - Application #6, 02/17/2023

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

94/775/CD, IEC 61810-7-44 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-44: Corrosive atmosphere - Salt mist, 01/20/2023

94/774/CD, IEC 61810-7-46 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-46: Impulse voltage test, 01/20/2023

94/773/CD, IEC 61810-7-49 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-49: Long term stability of sealing, 01/20/2023

94/776/CD, IEC 61810-7-5 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-5: Insulation resistance, 01/20/2023

94/772/CD, IEC 61810-7-50 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-50: Momentary drop in supply voltage, 01/20/2023

94/771/CD, IEC 61810-7-51 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-51: Reset behavior at coil voltage drop, 01/20/2023

94/770/CD, IEC 61810-7-52 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-52: Coil overvoltage, 01/20/2023

94/769/CD, IEC 61810-7-53 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-53: Slow decrease and increase of supply voltage, 01/20/2023

94/768/CD, IEC 61810-7-54 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-54: Critical DC load current test, 01/20/2023

94/777/CD, IEC 61810-7-6 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-6: Contact-circuit resistance (or voltage drop), 01/20/2023

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

100/3836/CDV, IEC 63474 ED1: Electrical and electronic household and office equipment - Measurement of networked standby power consumption of edge equipment (Fast track - Origin CENELEC), 02/17/2023

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

46C/1243/FDIS, IEC 62807-3 ED1: Hybrid telecommunication cables - Part 3: Outdoor hybrid cables - Sectional specification, 01/06/2023

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

3/1597/CDV, IEC 81355-1 ED1: Classification and designation of documents for plants, systems and equipment - Part 1: Rules and classification tables, 02/17/2023

### **Electric cables (TC 20)**

20/2078/CD, IEC 60287-2-3 ED2: Electric cables - Calculation of the current rating - Part 2-3: Thermal resistance - Cables installed in ventilated tunnels, 02/17/2023

### **Electrical accessories (TC 23)**

23B/1430/CDV, IEC 60669-2-2 ED4: Switches for household and similar fixed electrical installations - Part 2-2: Particular requirements - Electromagnetic remote-control switches (RCS), 02/17/2023

23B/1431/CDV, IEC 60669-2-3 ED4: Switches for household and similar fixed electrical installations - Part 2-3: Particular requirements - Time-delay switches (TDS), 02/17/2023

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

62A/1496/NP, PNW TS 62A-1496 ED1: Medical devices - Guidance on the evaluation and acceptance of patient provided medical equipment within the clinical environment, 02/17/2023

62A/1497/NP, PNW TS 62A-1497 ED1: Guidance and interpretation - Electromagnetic immunity: Performance of medical electrical equipment and medical electrical systems, 02/17/2023

62A/1498/NP, PNW TS 62A-1498 ED1: Guidance and interpretation - Voluntary guidance to help achieve basic safety and essential performance with regard to the possible effects of electromagnetic disturbances, 02/17/2023

### **Electrical installations of buildings (TC 64)**

64/2573/CDV, IEC 60364-4-44/AMD3 ED2: Amendment 3 - Low-voltage electrical installations - Part 4-44: Protection for safety - Protection against voltage disturbances and electromagnetic disturbances - Clause 443, 02/17/2023

64/2574/CDV, IEC 60364-5-53/AMD2 ED4: Amendment 2 - Low-voltage electrical installations - Part 5-53: Selection and erection of electrical equipment - Devices for protection for safety, isolation, switching, control and monitoring - Clause 534, 02/17/2023

### **Equipment for electrical energy measurement and load control (TC 13)**

13/1874/CDV, IEC 62057-3 ED1 Test equipment, techniques and procedures for electrical energy meters - Part 3: Automatic Meter Testing System (AMTS), 02/17/2023

### **Evaluation and Qualification of Electrical Insulating Materials and Systems (TC 112)**

112/585/CDV, IEC 62631-3-2 ED2: Dielectric and resistive properties of solid insulating materials - Part 3-2: Determination of resistive properties (DC methods) - Surface resistance and surface resistivity, 02/17/2023

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

86B/4692/FDIS, IEC 61300-2-1 ED4: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-1: Tests - Vibration (sinusoidal), 01/06/2023

86B/4673/CDV, IEC 61300-2-11 ED3: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-11: Tests - Axial compression, 02/17/2023

86B/4697/CD, IEC 61753-071-02/AMD1 ED2: Fibre optic interconnecting devices and passive components - Performance standard - Part 071-02: Non-connectorized single-mode fibre optic 1 - 2 and 2 - 2 spatial switches for category C - Controlled environments, 02/17/2023

86B/4698/CD, IEC 61978-1 ED4: Fibre optic interconnecting devices and passive components - Fibre optic passive chromatic dispersion compensators - Part 1: Generic specification, 02/17/2023

86B/4699/CD, IEC 62074-1 ED3: Fibre optic interconnecting devices and passive components - Fibre optic WDM devices - Part 1: Generic specification, 02/17/2023

**Fluids for electrotechnical applications (TC 10)**

10/1190/CD, IEC 60156 ED4: Insulating liquids - Determination of the breakdown voltage at power frequency - Test method, 02/17/2023

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

65A/1056A/CD, IEC 61508-1 ED3: Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 1: General requirements (see Functional Safety and IEC 61508), 01/20/2023

65A/1057A/CD, IEC 61508-2 ED3: Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 2: Requirements for electrical/electronic/programmable electronic safety-related systems (see Functional Safety and IEC 61508), 01/20/2023

65A/1058A/CD, IEC 61508-3 ED3: Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 3: Software requirements (see Functional Safety and IEC 61508), 01/20/2023

65A/1059A/CD, IEC 61508-4 ED3: Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 4: Definitions and abbreviations (see Functional Safety and IEC 61508), 01/20/2023

65A/1060A/CD, IEC 61508-5 ED3: Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 5: Examples of methods for the determination of safety integrity levels (see Functional Safety and IEC 61508), 01/20/2023

65A/1061A/CD, IEC 61508-6 ED3: Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 6: Guidelines on the application of IEC 61508-2 and IEC 61508-3 (see Functional Safety and IEC 61508), 01/20/2023

65A/1062A/CD, IEC 61508-7 ED3: Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 7: Overview of techniques and measures (see Functional Safety and IEC 61508), 01/20/2023

65E/938/CD, IEC 63261 ED1: Representation of electrical & instrument objects in digital 3D plant models during engineering, 02/17/2023

65/946(F)/CDV, IEC 63339 ED1: Unified reference model for smart manufacturing, 02/10/2023

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

34A/2320/CD, IEC 63013/AMD2 ED1: Amendment 2 - LED packages - Long-term luminous and radiant flux maintenance projection, 02/17/2023

34/999/CD, IEC 63128/AMD1 ED1: Amendment 1 - Lighting control interface for dimming - Analogue voltage dimming interface for electronic current sourcing controlgear, 02/17/2023

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

59D/498/DTS, IEC TS 63429 ED1: Washing machines for household use - Method for measuring the microbiological performance, 02/17/2023

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

44/985/CD, IEC 62061/AMD1 ED2: Amendment 1 - Safety of machinery - Functional safety of safety-related control systems, 01/20/2023

44/986/DTS, IEC TS 61496-5 ED1: Safety of machinery - Electro-sensitive protective equipment - Part 5: Particular requirements for radar-based protective Devices, 02/17/2023

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

96/558/CDV, IEC 61558-2-10 ED2: Safety of transformers, reactors, power supply units and combinations thereof - Part 2 -10: Particular requirements and tests for separating transformers with high insulation level and separating transformers with output voltages exceeding 1 000 V, 02/17/2023

96/559/CDV, IEC 61558-2-12 ED3: Safety of transformers, reactors, power supply units and combination thereof - Part 2 -12: Particular requirements and tests for constant voltage transformers and power supply units for constant voltage, 02/17/2023

**Surface mounting technology (TC 91)**

91/1822/CD, IEC 63215-4 ED1: Endurance test methods for die attach materials - Part 4: Power cycling test method for die attach materials (near chip interconnection) applied to module type power electronic devices, 01/20/2023

91/1818A/CD, IEC/TR 61760-5-1 Ed. 1.0: Surface mounting technology - Part 5-1: SURFACE STRAIN ON CIRCUIT BOARDS: 3-axis strain gauge measurement applied to chip components, 02/10/2023

**Switchgear and controlgear (TC 17)**

17C/886/CD, IEC TS 62271-318 ED1: High-voltage switchgear and control gear- Part 318- DC gas-insulated switchgear assemblies, 02/17/2023

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

121A/540/CD, IEC 60947-1 ED7: Low-voltage switchgear and controlgear - Part 1: General rules, 02/17/2023

121/122/CD, IEC 62683-1 ED2: Low-voltage switchgear and controlgear - Product data and properties for information exchange - Part 1: Catalogue data, 01/20/2023

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

### **(JTC 1)**

JTC1-SC25/3127/CD, ISO/IEC 24383 ED1: Information technology - Physical network security for the accommodation of customer premises cabling infrastructure and information technology equipment, 01/20/2023



# Newly Published ISO & IEC Standards

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

## ISO Standards

### Acoustics (TC 43)

[ISO 362-1:2022](#), Acoustics - Engineering method for measurement of noise emitted by accelerating road vehicles - Part 1: M and N categories, \$225.00

### Agricultural food products (TC 34)

[ISO 23318:2022](#), Milk, dried milk products and cream - Determination of fat content - Gravimetric method, \$175.00

### Aircraft and space vehicles (TC 20)

[ISO 1151-8:2022](#), Flight dynamics - Vocabulary - Part 8: Dynamic behaviour of aircraft, \$48.00

[ISO 12604-3:2022](#), Aircraft ground handling - Checked baggage - Part 3: Workstation ergonomics, \$73.00

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

[ISO 14644-4:2022](#), Cleanrooms and associated controlled environments - Part 4: Design, construction and start-up, \$225.00

### Coalbed methane (CBM) (TC 263)

[ISO 23604:2022](#), Method of determining specific surface area of coal, \$73.00

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

[ISO 10062:2022](#), Corrosion tests in artificial atmosphere at very low concentrations of polluting gas(es), \$73.00

### Geographic information/Geomatics (TC 211)

[ISO 19131:2022](#), Geographic information - Data product specifications, \$250.00

### Leather (TC 120)

[ISO 5431:2022](#), Leather - Wet blue goat skins - Specification, \$48.00

[ISO 5432:2022](#), Leather - Wet blue sheep skins - Specification, \$48.00

[ISO 5433:2022](#), Leather - Bovine wet blue - Specification, \$48.00

### Nuclear energy (TC 85)

[ISO 7097-2:2022](#), Nuclear fuel technology - Determination of uranium in solutions, uranium hexafluoride and solids - Part 2: Iron(II) reduction/cerium(IV) oxidation titrimetric method, \$111.00

### Paints and varnishes (TC 35)

[ISO 11127-7:2022](#), Preparation of steel substrates before application of paints and related products - Test methods for non-metallic blast-cleaning abrasives - Part 7: Determination of water-soluble chlorides, \$48.00

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

[ISO 3037:2022](#), Corrugated fibreboard - Determination of edgewise crush resistance (non-waxed edge method), \$73.00

### Photography (TC 42)

[ISO 18951-1:2022](#), Imaging materials - Scratch resistance of photographic prints - Part 1: General test method, \$73.00

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

[ISO 3262-6:2022](#), Extenders - Specifications and methods of test - Part 6: Precipitated calcium carbonate, \$48.00

[ISO 18314-3:2022](#), Analytical colorimetry - Part 3: Special indices, \$48.00

[ISO 18314-5:2022](#), Analytical colorimetry - Part 5: Procedure for colorimetric determination of colour differences of object colours according to equidistant colour spaces, \$111.00

### Plastics (TC 61)

[ISO 306:2022](#), Plastics - Thermoplastic materials - Determination of Vicat softening temperature (VST), \$111.00

[ISO 19721:2022](#), Plastics - Abrasion test method for artificial turfs using combined UV exposure and mechanical wear, \$111.00

[ISO 24048:2022](#), Plastics - Determination of bound acrylonitrile content in the continuous phase of acrylonitrile-butadiene-styrene (ABS) by Dumas combustion method, \$73.00

### Quantities, units, symbols, conversion factors (TC 12)

[IEC 80000-6:2022](#), \$235.00



**Refrigeration (TC 86)**

[ISO 5149-4:2022](#), Refrigerating systems and heat pumps - Safety and environmental requirements - Part 4: Operation, maintenance, repair and recovery, \$175.00

**Road vehicles (TC 22)**

[ISO 15118-9:2022](#), Road vehicles - Vehicle to grid communication interface - Part 9: Physical and data link layer conformance test for wireless communication, \$225.00

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

[ISO 24525:2022](#), Drinking water, wastewater and stormwater systems and services - Operation and maintenance of on-site domestic wastewater services, \$225.00

**Small craft (TC 188)**

[ISO 9094:2022](#), Small craft - Fire protection, \$175.00

[ISO 10088:2022](#), Small craft - Permanently installed fuel systems, \$149.00

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

[ISO 23659:2022](#), Sports and recreational facilities - Trampoline parks - Safety requirements, \$225.00

[ISO 20187-1:2022](#), Inflatable play equipment - Part 1: Safety requirements and test methods, \$200.00

[ISO 20187-2:2022](#), Inflatable play equipment - Part 2: Additional safety requirements for inflatable bouncing pillows intended for permanent installation, \$73.00

[ISO 20187-3:2022](#), Inflatable play equipment - Part 3: Additional safety requirements and test methods for snappies, \$48.00

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

[ISO 11140-6:2022](#), Sterilization of health care products - Chemical indicators - Part 6: Type 2 indicators and process challenge devices for use in performance testing of small steam sterilizers, \$200.00

**Surface chemical analysis (TC 201)**

[ISO 14606:2022](#), Surface chemical analysis - Sputter depth profiling - Optimization using layered systems as reference materials, \$111.00

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

[ISO 3600:2022](#), Tractors, machinery for agriculture and forestry, powered lawn and garden equipment - Operators manuals - Content and format, \$73.00

**Traditional Chinese medicine (TC 249)**

[ISO 4754:2022](#), Traditional Chinese medicine - Fermented Cordyceps powder, \$111.00

[ISO 5227:2022](#), Traditional Chinese medicine - Safety controls for cupping devices, \$48.00

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

[ISO 10447:2022](#), Resistance welding - Testing of welds - Peel and chisel testing of resistance spot and projection welds, \$73.00

[ISO 11745:2022](#), Brazing for aerospace applications - Qualification test for brazers and brazing operators - Brazing of metallic components, \$111.00

**ISO Technical Specifications****Geographic information/Geomatics (TC 211)**

[ISO/TS 19159-4:2022](#), Geographic information - Calibration and validation of remote sensing imagery sensors and data - Part 4: Space-borne passive microwave radiometers, \$225.00

**Photography (TC 42)**

[ISO/TS 17321-4:2022](#), Graphic technology and photography - Colour characterization of digital still cameras (DSCs) - Part 4: Programmable light emission system, \$111.00

**ISO/IEC JTC 1 Technical Reports**

[ISO/IEC TR 29119-13:2022](#), Software and systems engineering - Software testing - Part 13: Using the ISO/IEC/IEEE 29119 series in the testing of biometric systems, \$250.00

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

[ISO/IEC 24668:2022](#), Information technology - Artificial intelligence - Process management framework for big data analytics, \$200.00

[ISO/IEC 21122-2:2022/Amd 1:2022](#), Information technology - JPEG XS low-latency lightweight image coding system - Part 2: Profiles and buffer models - Amendment 1: Profile and sublevel for 4:2:0 content, \$20.00

[ISO/IEC 30105-4:2022](#), Information technology - IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes - Part 4: Key concepts, \$149.00

[ISO/IEC 21000-23:2022](#), Information technology - Multimedia framework (MPEG-21) - Part 23: Smart Contracts for Media, \$225.00

[ISO/IEC 23090-15:2022](#), Information technology - Coded representation of immersive media - Part 15: Conformance testing for versatile video coding, \$225.00

## IEC Standards

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

[IEC 60115-4 Ed. 3.0 en:2022](#), Fixed resistors for use in electronic equipment - Part 4: Sectional specification: Power resistors for through hole assembly on circuit boards (THT) or for assembly on chassis, \$417.00

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

[IEC 60079-25 Ed. 3.0 b Cor.2:2022](#), Corrigendum 2 - Explosive atmospheres - Part 25: Intrinsically safe electrical systems, \$0.00

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

[IEC 60806 Ed. 2.0 b:2022](#), Determination of the maximum symmetrical radiation field of X-ray tube assemblies and X-ray source assemblies for medical diagnosis, \$51.00

### Nuclear instrumentation (TC 45)

[IEC 62694 Ed. 2.0 b:2022](#), Radiation protection instrumentation - Backpack-type radiation detector (BRD) for the detection of illicit trafficking of radioactive material, \$259.00

### Power electronics (TC 22)

[IEC 60700-3 Ed. 1.0 b:2022](#), Thyristor valves for high voltage direct current (HVDC) power transmission - Part 3: Essential ratings (limiting values) and characteristics, \$259.00

[IEC 61800-3 Ed. 4.0 b:2022](#), Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods for PDS and machine tools, \$430.00

[IEC 62040-1 Amd.2 Ed. 2.0 b:2022](#), Amendment 2 - Uninterruptible power systems (UPS) - Part 1: Safety requirements, \$13.00

[IEC 62040-1 Ed. 2.2 b:2022](#), Uninterruptible power systems (UPS) - Part 1: Safety requirements, \$569.00

### Semiconductor devices (TC 47)

[IEC 60747-16-7 Ed. 1.0 b:2022](#), Semiconductor devices - Part 16 -7: Microwave integrated circuits - Attenuators, \$310.00

[IEC 60747-16-8 Ed. 1.0 b:2022](#), Semiconductor devices - Part 16 -8: Microwave integrated circuits - Limiters, \$259.00

# International Organization for Standardization (ISO)

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## Call for U.S. TAG Administrator

### ISO/TC 33 – Refractories

ANSI has been informed that ASTM International, the ANSI-accredited U.S. TAG Administrator for ISO/TC 33 – *Refractories*, wishes to relinquish their role as U.S. TAG Administrator.

ISO/TC 33 operates under the following scope:

*Standardization of raw materials and products of the refractories industry and their properties.*

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

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

### Dust and Dust Storms

**Comment Deadline: December 16, 2022**

INSO, the ISO member body for Iran, has submitted to ISO a proposal for a new field of ISO technical activity on Dust and Dust Storms, with the following scope statement:

*Standardization in the field of natural dust and dust storm on an urban scale and in industrial towns, excluded artificial/manufactures dust. Standardization and development of international standards includes: terminology, specifications, constituent and size of dust, feature of dust storms and prevent the creation of dust or reduce the risks of natural dust in the areas of Healthcare, safe water, agriculture, transportation etc.*

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, December 16, 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, trade associations, U.S. domiciled standards development organizations and conformity assessment bodies, consumers, or U.S. government agencies may be interested in proposed foreign technical regulations notified by Member countries of the World Trade Organization (WTO). In accordance with the WTO Agreement on Technical Barriers to Trade (TBT Agreement), Members are required to notify to the WTO Secretariat in Geneva, Switzerland proposed technical regulations that may significantly affect trade. In turn, the Secretariat circulates 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 Enquiry Point for the WTO TBT Agreement is located at the National Institute of Standards and Technology (NIST) in the Standards Coordination Office (SCO). The Enquiry Point relies on the WTO's ePing SPS&TBT platform (<https://epingalert.org/>) to distribute the notified proposed foreign technical regulations (notifications) and their full-texts available to U.S. stakeholders. Interested U.S. parties can register with ePing to receive e-mail alerts when notifications are added from countries and industry sectors of interest to them. To register for ePing, please visit: <https://epingalert.org/>

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

For further information about the USA TBT Enquiry Point, please visit:

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

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



## 2023 Standards Action Publishing | Volume No. 54

\*The "Submit End" deadline applies to forms received by Monday, 5:00 PM ET

Based on the dates below, an ANSI-Developer can anticipate that a request made between the SUBMIT START date and the \*SUBMIT END 5 PM date will appear in ANSI Standards Action on the SA PUBLISHED date.

The last three columns display the 30, 45 & 60-DAY PR (Public Review) END dates

ISSUE	SUBMIT START	*SUBMIT END 5 PM	SA PUBLISHED	30-DAY PR END	45-DAY PR END	60-DAY PR END
01	12/20/2022	12/26/2022	<b>Jan 6</b>	2/5/2023	2/20/2023	3/7/2023
02	12/27/2022	1/2/2023	<b>Jan 13</b>	2/12/2023	2/27/2023	3/14/2023
03	1/3/2023	1/9/2023	<b>Jan 20</b>	2/19/2023	3/6/2023	3/21/2023
04	1/10/2023	1/16/2023	<b>Jan 27</b>	2/26/2023	3/13/2023	3/28/2023
05	1/17/2023	1/23/2023	<b>Feb 3</b>	3/5/2023	3/20/2023	4/4/2023
06	1/24/2023	1/30/2023	<b>Feb 10</b>	3/12/2023	3/27/2023	4/11/2023
07	1/31/2023	2/6/2023	<b>Feb 17</b>	3/19/2023	4/3/2023	4/18/2023
08	2/7/2023	2/13/2023	<b>Feb 24</b>	3/26/2023	4/10/2023	4/25/2023
09	2/14/2023	2/20/2023	<b>Mar 3</b>	4/2/2023	4/17/2023	5/2/2023
10	2/21/2023	2/27/2023	<b>Mar 10</b>	4/9/2023	4/24/2023	5/9/2023
11	2/28/2023	3/6/2023	<b>Mar 17</b>	4/16/2023	5/1/2023	5/16/2023
12	3/7/2023	3/13/2023	<b>Mar 24</b>	4/23/2023	5/8/2023	5/23/2023
13	3/14/2023	3/20/2023	<b>Mar 31</b>	4/30/2023	5/15/2023	5/30/2023
14	3/21/2023	3/27/2023	<b>Apr 7</b>	5/7/2023	5/22/2023	6/6/2023
15	3/28/2023	4/3/2023	<b>Apr 14</b>	5/14/2023	5/29/2023	6/13/2023
16	4/4/2023	4/10/2023	<b>Apr 21</b>	5/21/2023	6/5/2023	6/20/2023
17	4/11/2023	4/17/2023	<b>Apr 28</b>	5/28/2023	6/12/2023	6/27/2023
18	4/18/2023	4/24/2023	<b>May 5</b>	6/4/2023	6/19/2023	7/4/2023
19	4/25/2023	5/1/2023	<b>May 12</b>	6/11/2023	6/26/2023	7/11/2023
20	5/2/2023	5/8/2023	<b>May 19</b>	6/18/2023	7/3/2023	7/18/2023
21	5/9/2023	5/15/2023	<b>May 26</b>	6/25/2023	7/10/2023	7/25/2023
22	5/16/2023	5/22/2023	<b>Jun 2</b>	7/2/2023	7/17/2023	8/1/2023
23	5/23/2023	5/29/2023	<b>Jun 9</b>	7/9/2023	7/24/2023	8/8/2023
24	5/30/2023	6/5/2023	<b>Jun 16</b>	7/16/2023	7/31/2023	8/15/2023
25	6/6/2023	6/12/2023	<b>Jun 23</b>	7/23/2023	8/7/2023	8/22/2023
26	6/13/2023	6/19/2023	<b>Jun 30</b>	7/30/2023	8/14/2023	8/29/2023
27	6/20/2023	6/26/2023	<b>Jul 7</b>	8/6/2023	8/21/2023	9/5/2023

ISSUE	SUBMIT START	*SUBMIT END 5 PM	SA PUBLISHED	30-DAY PR END	45-DAY PR END	60-DAY PR END
28	6/27/2023	7/3/2023	<b>Jul 14</b>	8/13/2023	8/28/2023	9/12/2023
29	7/4/2023	7/10/2023	<b>Jul 21</b>	8/20/2023	9/4/2023	9/19/2023
30	7/11/2023	7/17/2023	<b>Jul 28</b>	8/27/2023	9/11/2023	9/26/2023
31	7/18/2023	7/24/2023	<b>Aug 4</b>	9/3/2023	9/18/2023	10/3/2023
32	7/25/2023	7/31/2023	<b>Aug 11</b>	9/10/2023	9/25/2023	10/10/2023
33	8/1/2023	8/7/2023	<b>Aug 18</b>	9/17/2023	10/2/2023	10/17/2023
34	8/8/2023	8/14/2023	<b>Aug 25</b>	9/24/2023	10/9/2023	10/24/2023
35	8/15/2023	8/21/2023	<b>Sep 1</b>	10/1/2023	10/16/2023	10/31/2023
36	8/22/2023	8/28/2023	<b>Sep 8</b>	10/8/2023	10/23/2023	11/7/2023
37	8/29/2023	9/4/2023	<b>Sep 15</b>	10/15/2023	10/30/2023	11/14/2023
38	9/5/2023	9/11/2023	<b>Sep 22</b>	10/22/2023	11/6/2023	11/21/2023
39	9/12/2023	9/18/2023	<b>Sep 29</b>	10/29/2023	11/13/2023	11/28/2023
40	9/19/2023	9/25/2023	<b>Oct 6</b>	11/5/2023	11/20/2023	12/5/2023
41	9/26/2023	10/2/2023	<b>Oct 13</b>	11/12/2023	11/27/2023	12/12/2023
42	10/3/2023	10/9/2023	<b>Oct 20</b>	11/19/2023	12/4/2023	12/19/2023
43	10/10/2023	10/16/2023	<b>Oct 27</b>	11/26/2023	12/11/2023	12/26/2023
44	10/17/2023	10/23/2023	<b>Nov 3</b>	12/3/2023	12/18/2023	1/2/2024
45	10/24/2023	10/30/2023	<b>Nov 10</b>	12/10/2023	12/25/2023	1/9/2024
46	10/31/2023	11/6/2023	<b>Nov 17</b>	12/17/2023	1/1/2024	1/16/2024
47	11/7/2023	11/13/2023	<b>Nov 24</b>	12/24/2023	1/8/2024	1/23/2024
48	11/14/2023	11/20/2023	<b>Dec 1</b>	12/31/2023	1/15/2024	1/30/2024
49	11/21/2023	11/27/2023	<b>Dec 8</b>	1/7/2024	1/22/2024	2/6/2024
50	11/28/2023	12/4/2023	<b>Dec 15</b>	1/14/2024	1/29/2024	2/13/2024
51	12/5/2023	12/11/2023	<b>Dec 22</b>	1/21/2024	2/5/2024	2/20/2024
52	12/12/2023	12/18/2023	<b>Dec 29</b>	1/28/2024	2/12/2024	2/27/2024





**BSR/ASHRAE Addendum f to  
ANSI/ASHRAE Standard 161-2018**

**Public Review Draft**

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**Proposed Addendum f to  
Standard 161-2018, Air Quality  
within Commercial Aircraft**

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

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

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

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

**(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

*The primary purpose of this proposed addendum is to remove the carbon monoxide-specific language intended to address the continuous monitoring requirement for engine oil or hydraulic fluid contamination of the bleed air. As a result, the sensor requirement language in Sections 7.2, 8.2, and 9 now focuses more broadly on suitable marker compounds intended to reliably indicate the presence of engine oil or hydraulic fluid contamination of the bleed air. This proposed addendum also adds a definition for “engine” to Section 3. Edits added since the 1<sup>st</sup> Publication Public Review are minimal, as follows: Small editorial changes were incorporated to clarify that a sensor can be designed to detect either particles, chemical substances, or both in order to identify oil/hydraulic fumes, and that oil/hydraulic fluid can be present in gas, liquid, solid, or a combination of phases. Also, the references to the descriptor “pyrolyzed” for engine oil was removed because, when oil is present, it is not always heated to a high enough temperature to be pyrolyzed.*

**Note:** *In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~striketrough~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.*

## Addendum f to Standard 161-2018

**Revise Section 3 (Definitions) as shown below. The remainder of Section 3 is unchanged.**

**engine:** either a propulsion engine or an auxiliary power unit engine.

**Revise Section 7.2 (Bleed Air Contaminant Monitoring) as shown below.**

**7.2 Bleed Air Contaminant Monitoring.** Monitoring in the air supply system for specific sources of bleed air contaminants is intended to facilitate pilot and maintenance actions where necessary and to provide an indication of contaminants in the air supply system that are supplied to the cabin and/or cockpit.

Validation shall require investigating the effectiveness and feasibility of any sensor to ensure that it can be installed, while accounting for cost, reliability, accuracy, maintainability, and viability. Operational procedures shall be developed for both airline maintenance and air crew response to measured levels.

One or more sensors intended to identify ~~either particles and/or a chemical substance or chemical substances~~ indicative of air supply system contamination by ~~partly or fully pyrolyzed~~ engine oil and/or hydraulic fluid, both individually and in combination, shall be installed. ~~Each~~ The indicator substance or substances shall:

- a. be shown to be consistently associated with the presence of ~~partly or fully pyrolyzed~~ engine oil contamination in the bleed air in any phase (i.e., gas, liquid, solid) and/or consistently associated with hydraulic fluid in the bleed air in any phase;
- b. have a sufficiently low background level that its presence can be reliably attributed to these contaminants; and
- c. be measured with sufficient sensitivity to reliably detect the occurrence of these contamination events.

The sensor or sensors shall sample the airstream no less frequently than once every 60 seconds.

Supply air shall be sampled by at least one sensor before it enters the cabin or cockpit. A separate sensor is recommended for each air supply source, such as each engine and the APU, so that it is possible to identify and isolate the source of contamination in the event it is detected. Monitoring before the mix manifold is likely to provide better information to help identify the source of the contamination; however, this area may be more difficult to monitor.

Indication from the sensors shall be displayed in the flight deck and recorded anytime the concentration is at or above the trigger point. The trigger point is defined as a concentration that may not be high enough to be associated with a negative health impact on its own but rather indicates the presence of ~~partly or fully pyrolyzed~~ engine oils or hydraulic fluids.

The trigger point shall be high enough above background levels to indicate contamination but not so high above background levels to miss events. An exceedance shall be defined as the trigger point concentration being maintained for a predetermined and appropriate sampling period (dependent on the contaminant) while in flight or on the ground. Any exceedance shall be recorded in the aircraft technical log and maintenance records, and appropriate action shall be taken immediately in accordance with the relevant regulations and effective and approved maintenance procedures to identify and address the potential source of contamination.

The record of the duration and levels of each exceedance shall be made available as follows for at least the 60 days following a flight on which an exceedance occurs:

- a. To airline maintenance staff to aid in identifying appropriate corrective actions
- b. To any occupants present on the given flight, including crew members or their representatives, with a medical record indicating symptoms that could reasonably be attributed to exposure to one or more relevant contaminants, in order to assist their physicians in diagnosis and treatment

The response to an exceedance will vary depending on the number, magnitude, and frequency of triggered events. For example, an unexplained single exceedance without reports of relevant symptoms from crew or passengers may require only a general check of main engine components for problems such as engine oil overfill, visible leaks, and hydraulic leaks. Higher-value exceedances or multiple triggered events (either during a single sector or on separate sectors), especially if they include reports of symptoms consistent with exposure to partly combusted engine oil or hydraulic fluid, will require a higher degree of maintenance investigation and action, such as swab testing of the bleed ducts to check for engine oil leaks.

~~If in-service testing demonstrates that carbon monoxide (CO) will be an effective chemical marker for oil or hydraulic fluid contamination of the bleed air supply system, and it is selected as the indicator substance, the trigger point for data recording and display shall be set at 9 ppm, and an exceedance shall be defined as either (a) a ten minute time-weighted average concentration at or above 9 ppm or (b) a 60 second peak value at or above 50 ppm.~~

***Revise Section 8.2 (General) as shown below.***

## **8.2 General**

### **Control Measures**

#### **Design**

- a. The APU and engine inlets can potentially be entry points for hydraulic fluid, fuel, oil, and deicing fluid. Means to limit the ingestion of these fluids should be evaluated during the design phase (prevention through design). One example is the use of dedicated compressors for outside air supply, rather than the more traditional bleed air systems, which may minimize the potential entry of engine/APU contaminants into the cabin air. Other design considerations that have been implemented include changing the location of the APU inlet and/or installing a physical barrier either around or in front of the inlet to physically divert contaminants from entering the inlet (Informative Note: e.g., raising the

	<p>APU inlet off the surface of the aircraft or installing a diverter ahead of the APU inlet). Airlines and manufacturers should consider the necessity and feasibility of applying these measures to the fleet.</p> <p>b. Air-cleaning technologies to reduce contamination in bleed air sources before it is introduced to the cabin and cockpit may be considered.</p>
<b>Monitoring</b>	<p>a. <u>An appropriate marker for bleed air contamination</u> <del>Carbon monoxide or an alternate contaminant, as appropriate,</del> shall be monitored in accordance with Section 7.2 of this standard.</p> <p>b. Ozone should be continuously monitored on flights where ozone is expected to be encountered. See FAA Advisory Circular 120-38<sup>12</sup> for more information.</p> <p>c. Measurements that exceed the limits described in this standard shall be recorded.</p> <p>d. Sampling and monitoring devices that are reliable and easy to operate would be useful in the cabin and flight deck as an additional source of information to validate and/or quantify certain types of contamination events.</p> <p>e. An international database of factual information from flights where suspicion of contaminated air exists should be established; see SHK RL 2001:41eR3<sup>13</sup> for guidance.</p>
<b>Remedies</b>	<p>a. Responsible employees shall be given training, supplies, and time to clean contaminated surfaces in order to mitigate potential health hazards associated with crew or passenger contact; see Circular 344-AN/202 11<sup>11</sup> for guidance.</p> <p>b. If a buildup of residue is noted in the APU/engines, air-conditioning packs, and ducts, the affected components shall either be removed and cleaned or replaced to prevent additional contamination. If the pack burn air is not dumped overboard, passengers and crew shall not be on board during a pack burn. Maintenance workers shall be educated on the need to avoid exposure to contaminants in the bleed air system during pack burn and associated system inspection and cleaning procedures. When it is not possible to effectively clean airborne contaminants that deposit on high surface-area components, such as acoustical duct lining, water separator coalescer bags, ozone converters, and heat exchangers, those components shall be removed and either cleaned or replaced. (Informative Note: See also Section A3, "ECS Cleaning Procedures.")</p> <p>c. To address air supply contamination, the pilot shall first identify the location of the source and isolate it (pack management) and then document it according to airline procedures.</p> <p>d. If symptoms that could reasonably be attributed to exposure to one or more contaminants associated with an episodic event, such as smoke/fumes in the cabin/flight deck or other evidence of internal air supply contamination or ozone exposure, are reported to the pilot and involve one or more passenger or crew member as evidenced by an aircraft maintenance log entry, the aircraft shall be turned over to maintenance prior to next dispatch to identify and address the source of air supply contamination according to airline maintenance manual procedures.</p> <p>e. Ground-based air supply systems/equipment (including high and low pressure) shall be inspected and serviced at least every three months in order to prevent the contamination of aircraft systems and to ensure the integrity of the equipment.</p>

**Revise Section 9 (Measurements) as shown below.**

## 9. MEASUREMENTS

The section specifies measurements that shall be made when determining whether specific requirements of this standard are met. Continuous measurement of environmental variables is not mandated by this standard, with the exception of bleed air contamination markers in accordance with Section 7.2 of this standard. ~~carbon monoxide.~~



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

**Public Review Draft**

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

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

This standard is under continuous maintenance. To propose a change to the current standard, follow the instructions on the ASHRAE website at <https://www.ashrae.org/technical-resources/standards-and-guidelines/standards-and-guidelines-under-continuous-maintenance>.

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180 Technology Parkway NW, Peachtree Corners, GA 30092

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

## FOREWORD

*This proposed addendum adds the zeotropic refrigerant blend R-457D 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 ~~strike through~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.

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### **Addendum d 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 = 457D

Composition (Mass %) = R-32/1234yf/152a (4.0/82.0/14.0)

Composition tolerances = +0.5,-1.5/+1.0,-1.0/+0.5,-1.5

OEL = 580 ppm v/v

Safety Group = A2L

RCL = 14,000 ppm v/v; 3.6 lb/1000 ft<sup>3</sup>; 58 g/m<sup>3</sup>

LFL = 57,000 ppm v/v; 14.9 lb/1000 ft<sup>3</sup>; 235 g/m<sup>3</sup>

BV = 5.8 cm/s

Highly Toxic or Toxic Under Code Classification = Neither

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

Refrigerant Number = 457D

Composition (Mass %) = R-32/1234yf/152a (4.0/82.0/14.0)

Average Relative Molar Mass = 99.2 g/mol

Bubble Point (°F) = -30.1

Dew Point (°F) = -23.8

Bubble Point (°C) = -34.5

Dew Point (°C) = -31.0



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

**Public Review Draft**

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

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

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180 Technology Parkway NW, Peachtree Corners, GA 30092

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## FOREWORD

*This proposed addendum adds the zeotropic refrigerant blend R-478A 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 ~~striking through~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.

### Addendum e 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 = 478A

Composition (Mass %) = R-744/32/125/134a/152a/1234ze(E)/227ea (7.0/26.0/15.0/15.0/3.0/30.0/4.0)

Composition tolerances = ±0.5/±1.0/±1.0/±1.0/±0.2/±1.0/±0.5

OEL = 1,100 ppm v/v

Safety Group = A2L

RCL = 24,000 ppm v/v; 4.8 lb/1000 ft<sup>3</sup>; 77 g/m<sup>3</sup>

LFL = 95,000<sup>k</sup> ppm v/v; 17.1<sup>k</sup> lb/1000 ft<sup>3</sup>; 270<sup>k</sup> g/m<sup>3</sup>

BV = ≤ 4 cm/s

Highly Toxic or Toxic Under Code Classification = Neither

**Note to Reviewers:** *Applicable Table 4-2 footnotes are reproduced for reference below.*

**Informative Note:** LFL data values highlighted in gray in this table are based on conditions other than WCF @ 23°C (73.4°F). Refer to applicable table footnotes for details.

[ ... ]

k. WCF LFL @ 60°C (140°F)

[ ... ]

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

Refrigerant Number = 478A

Composition (Mass %) = R-744/32/125/134a/152a/1234ze(E)/227ea (7.0/26.0/15.0/15.0/3.0/30.0/4.0)

Average Relative Molar Mass = 79.2 g/mol

Bubble Point (°F) = -73.1

Dew Point (°F) = -35.3

Bubble Point (°C) = -58.4

Dew Point (°C) = -37.4





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

**Public Review Draft**

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

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

This standard is under continuous maintenance. To propose a change to the current standard, follow the instructions on the ASHRAE website at <https://www.ashrae.org/technical-resources/standards-and-guidelines/standards-and-guidelines-under-continuous-maintenance>.

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## FOREWORD

*This proposed addendum adds the zeotropic refrigerant blend R-479A 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 ~~strike through~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.

---

### Addendum f 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 = 479A

Composition (Mass %) = R-32/1132(E)/1234yf (21.5/28.0/50.5)

Composition tolerances = ±2.0/±2.0/±2.0

OEL = 510 ppm v/v

Safety Group = A2L

RCL = 15,000 ppm v/v; 3.0 lb/1000 ft<sup>3</sup>; 48 g/m<sup>3</sup>

LFL = 61,000 ppm v/v; 12.0 lb/1000 ft<sup>3</sup>; 193 g/m<sup>3</sup>

BV = 4.4 cm/s

Highly Toxic or Toxic Under Code Classification = Neither

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

Refrigerant Number = 479A

Composition (Mass %) = R-32/1132(E)/1234yf (21.5/28.0/50.5)

Average Relative Molar Mass = 77.3 g/mol

Bubble Point (°F) = -58.8

Dew Point (°F) = -48.5

Bubble Point (°C) = -50.4

Dew Point (°C) = -44.7



**BSR/ASHRAE Standard 41.13P**

**Public Review Draft**

# **Standard Methods for Fuel Higher Heating Value Measurement**

**Second Public Review (November 2022)  
(Draft Shows Proposed Independent Substantive  
Changes to Previous Public Review Draft)**

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

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

**41.13P 2nd ISC Public Review Draft**

**This is a review of Independent Substantive Changes** that were made since the last public review. Text that was removed from the Public Review Draft is provided for reference but is shown in ~~strikeout~~, and text that has been added is shown with underlines.

Only these changes are open to comment at this time. All other material is provided for context only and is not open for Public Review comment except as it relates to the proposed changes.

**Background.** The first 41.13P publication public review (PPR1) that ended on August 15, 2022, had a total of 5 public review comments comprised of 1 substantive public review comment and 4 supportive public review comments from one commenter. The SSPC 41 voting members voted to accept the proposed response to substantive public review comment in a letter ballot from 9/24/2022 to 10/21/2022. The proposed response to the substantive public review comment was subsequently uploaded into ASHRAE's Online Comment Database, and then the commenter marked the proposed response to the substantive public review comment "resolved." This second 41.13P Independent Substantive Change (ISC) public review draft consists of the changes resulting from the substantive and supportive first public review comments.

*Section 3, Definitions: Add the new definition as shown below.*

***btu:** the term Btu that is defined in this standard is based upon the International Table (BtuIT) if specified in the referenced ASTM Standard; otherwise, Btu is defined at a specified reference temperature.*

*Section 5.1, Requirements Plan: Revise Section 5.1 as shown below.*

**5.1 Requirements Plan.** The requirements plan shall be one of the following documents:

- a. A document provided by the person or the organization that authorized the tests and calculations to be performed.
- b. A method of test standard.
- c. A rating standard.
- d. A regulation or code.
- e. Any combination of items a. through d.

The requirements plan shall specify the:

- a. Fuel name or composition
- b. Fuel state (solid, liquid, or gas) at the standard conditions specified in 5.3
- c. For liquid fuels, HHV is to be reported on mass basis, volumetric basis, or both.
- d. If specified in the requirements plan, the method for determining measurement uncertainty.

*Section 5.3, Standard Conditions for Fuel Higher Heating Values: Revise Section 5.3 as shown below.*

**5.3.1 Gas.** Gaseous fuel higher heating values are based upon these standard conditions: 15.6°C/288.75 K, (60°F/520°R), dry, and absolute pressure of 101.6 kPa (30.00 in. Hg) where 1 BtuIT = 1.055056 kJ.

**5.3.2 Liquid.** Liquid fuel higher heating values reported on a volumetric basis are based on a temperature of 15.6°C (60°F) in these units: MJ/L (Btu/gal) where 1 BtuIT = 1.055056 kJ.

BSR/ASHRAE Standard 41.13P, *Standard Methods for Fuel Higher Heating Value Measurement*  
Second ISC Public Review Draft

**5.3.3 Solid.** This standard treats the HHV of solid fuels as independent of ambient temperature and pressure where (a)  $1 \text{ BtuIT} = 1.055056 \text{ kJ}$  for wood and refuse-derived fuels, and (b) the conversion BtuIT to kJ at the specified reference temperature for coal and coke.

*Section 5.3, Standard Conditions for Fuel Higher Heating Values: Revise Section 5.3 as shown below.*

### **5.3 Standard Conditions for Fuel Higher Heating Values at a Precision Level of 4 Significant Digits.**

**5.3.1 Gas.** Gaseous fuel higher heating values are based upon these standard conditions:  $15.60^\circ\text{C}/288.828875 \text{ K}$ ,  $(60.00^\circ\text{F}/519.7520^\circ\text{R})$ , dry, and absolute pressure of  $101.6 \text{ kPa}$  ( $30.00 \text{ in. Hg}$ ).

**5.3.2 Liquid.** Liquid fuel higher heating values reported on a volumetric basis are based on a temperature of  $15.60^\circ\text{C}$  ( $60.08^\circ\text{F}$ ) in these units: MJ/L (Btu/gal).

**5.3.3 Solid.** This standard treats the HHV of solid fuels as independent of ambient temperature and pressure.

*Section 5.4, Methods for Correcting Fuel Higher Heating Values: Revise Section 5.3 as shown below.*

### **5.4. Methods for Correcting Fuel Higher Heating higher heating Values to Local Conditions at a Precision Level of 4 Significant Digits.**

**5.4.1 Gaseous Fuels.** Apply Equation 1 to convert the HHV for a gaseous fuel at the standard conditions defined in Section 5.3.1 to local conditions.

$$HHV_2 = HHV_{sc} \times \frac{(P_b + P_2 - P_{wvl})}{(P_s - P_{wvs})} \times \frac{T_s}{T_2} \times \frac{1}{Z} \quad (1)$$

where:

$HHV_2$  = HHV at local conditions, MJ/m<sup>3</sup>(Btu/ft<sup>3</sup>)

$HHV_{sc}$  = HHV at standard conditions defined in Section 5.3.1, MJ/m<sup>3</sup> (Btu/ft<sup>3</sup>)

$P_b$  = local barometric pressure, kPa (in. Hg)

$P_s$  = standard absolute pressure defined in 5.3.1, kPa (in. Hg).

$P_{wvl}$  = Partial pressure of water in fuel under local conditions, kPa, (in. Hg).

$P_{wvs}$  = Partial pressure of water in fuel under standard conditions, kPa (in. Hg). Because 5.3.1 defines standard conditions as dry,  $P_{wvs}$  is = 0 kPa (0 in. Hg)

$P_2$  = local gas pressure relative to atmosphere, kPa (in. Hg)

$T_s$  = standard absolute temperature defined in 5.3.1, K (°R)

$T_2$  = local absolute temperature of gas, K(°R)

$Z$  = Compressibility Factor defined as:

For ideal gasses,  $Z= 1.0$

For real gasses,  $Z$  shall be calculated using ASTM D3588<sup>2</sup>

**(Informative Notes:**

1) For saturated gas, the partial pressure of water is equal to the vapor pressure of water at the temperature of the gas.

2) Commercial natural gas is generally delivered to the end user with a negligible water content, making it possible to treat  $P_{wvl}$  and  $P_{wvs}$  as zero. A notable exception is when certain types of calorimeters and gas meters are used, which saturate the gas as part of the measurement process. For this reason, it is usually possible to treat commercial natural gas as either completely dry or saturated.

3) Barometric pressure reported by weather forecasters and airports is generally not local but corrected to sea level. Use of such readings will yield erroneous results if the local elevation is significantly different from the source elevation.)

**5.4.2 Liquid Fuels.** The HHV method in Section 7.2 determines liquid fuel HHV in units of energy per unit mass. To determine HHV on a volumetric basis, determine the density of the fuel using ASTM D4052<sup>7</sup> at the standard temperature 15.60°C (60.08°F) as stated in Section 5.3.2. Volumetric HHV is then determined using Equation 2.

$$HHV_V = HHV_m \times \rho \quad (2)$$

where:

$HHV_V$  = HHV on a volumetric basis, MJ/L (Btu/gal)

$HHV_m$  = HHV on a mass basis, MJ/kg (Btu/lb<sub>m</sub>)

$\rho$  = Density, kg/L (lb<sub>m</sub>/gal) at standard temperature of 15.60°C (60.00°F) as stated in Section 5.3.2.

[...]

*Section 8, Results: Revise Section 8 as shown below.*

**8. RESULTS.** The following information shall be reported:

[...]

**8.7** The reference temperature that is used to determine the conversion from Btu to kJ if the fuel is coal or coke.

**8.8** Measurement uncertainty if the method for determining measurement uncertainty is specified in the requirements plan.

*Section 9, Results: Revise Section 9 as shown below.*

**9. REFERENCES**

[...]

10. NIST Special Publication 811-2008, NIST Guide to SI Appendix B8.

[...]

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

## NSF/ANSI Standard for Drinking Water Treatment Units –

# Ultraviolet Microbiological Water Treatment Systems

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## 2 Normative references

The following documents contain requirements that, by reference in this text, constitute requirements of this standard. At the time of publication, the indicated editions were valid. All of the documents are subject to revision and parties are encouraged to investigate the possibility of applying the recent editions of the documents indicated below. The most recent published edition of the document shall be used for undated references.

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EPA 600/4-79-020, *Methods for the Chemical Analysis of Water and Wastes*, March 1983<sup>10</sup>

EPA 600/4-82-057–4-84-053, *Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater*, May 2002–June 1984<sup>Error! Bookmark not defined.</sup>

EPA 600/4-88-039, *Methods for the Determination of Organic Compounds in Drinking Water*, December 1988<sup>Error! Bookmark not defined.</sup>

EPA 600/4-90-020, *Methods for the Determination of Organic Compounds in Drinking Water, Supplement 1*, July 1990<sup>Error! Bookmark not defined.</sup>

EPA 600/R-94-111, *Methods for the Determination of Metals in Environmental Samples, Supplement 1*, May 1994<sup>Error! Bookmark not defined.</sup>

*NIST Standard Reference Database 1A (NIST/EPA/NIH Mass Spectral Library with Search Program), NIST20/NIST v20*<sup>11</sup>

NSF/ANSI 53, *Drinking Water Treatment Units – Health Effects*

•  
•

<sup>11</sup>National Institute of Standards and Technology. 100 Bureau Drive, Gaithersburg, MD 20899. <[www.nist.gov](http://www.nist.gov)>

***Rationale: Corrects document number and publication year of an EPA document and adds a normative reference for the NIST mass spectral library.***

### 4.3 Gas chromatography / mass spectroscopy (GC/MS) analysis

#### 4.3.1 General requirements for GC/MS analysis

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**4.3.1.2** TICs are identified by comparison of the spectrum of the unknown to the mass-spectral reference library utilizing “probability-based matching” (as available from instrument manufacturers) as well as

interpretation by the analyst. The laboratory shall report the TIC with the best match factor (the match factor shall not be reported) except in the following circumstances:

- due to the complex nature of GC/MS interpretation and identification, when reviewing the list of possible matches for any particular TIC peak, the laboratory has the authority to assign the identification to a compound “hit” with a lower numeric match factor from the library search algorithm;
- the laboratory may determine that none of the returned compounds by the automated search algorithm is a good match for the unknown peak. In this case the compound is reported as an “unknown”;
- the laboratory may utilize manual spectral interpretation to identify the peak in question;
- all TICs detected at a concentration greater than or equal to 3.0 ppb shall be reported.

The library used during the analysis shall be National Institute of Standards and Technology (NIST) ~~v20 (NIST20)–2007~~ or most current version. Additional spectral libraries may be used to assist in the identification of unknown compounds. For TICs, the concentration is estimated by comparison of its total ion area response to the total ion area response of the nearest internal standard. For TICs, a response factor of “1” (one) shall be utilized for the purposes of calculating the TICs estimated concentration.

**Rationale: Updates the NIST mass spectral library version and corrects “spectra” or “spectral”.**

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**Table 4.3**  
**Extraction testing parameters (volatiles)**

Analyte	CAS Number	Maximum reporting limit (RL) (mg/L)	US EPA Method(s)
• •			
xylenes (total) o-xylene <sup>2</sup> or 1,2-xylene, m-xylene, p-xylene	95-47-6 106-42-3 108-38-3	0.1	524.2, 524.3
• •			

**Rationale: Removes footnote citation added in error.**

## 7 Elective performance claims – Test methods

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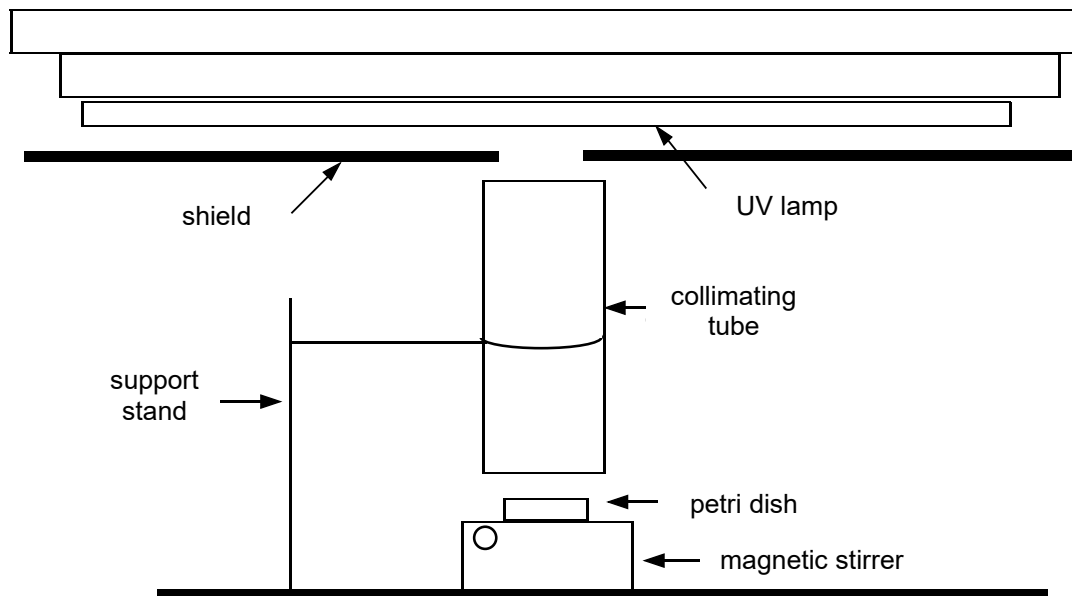
### 7.2.1.2 Apparatus

An apparatus shall be assembled in which a small stirred sample can be irradiated in a nearly collimated beam. A radiometer meeting specification in Section 7.2.1.2.1 can then be used to measure the incident irradiance ( $E_0$ ).

A low-pressure mercury vapor UV lamp shall be wired to a ballast and a voltage regulator (Figure 2). A solution contained in a small dish equal to or smaller in diameter than that of the collimated tube shall be used. The solution shall be 1 cm deep.  $E_0$  shall be measured at the surface of the liquid by removing the dish and stirrer and placing the radiometer at the corresponding position from which the dish was removed.



The UV irradiance at each point of the surface shall be within  $\pm 5\%$  of the average irradiance across the solution surface.



**Figure 2**  
**Collimated beam apparatus**

- the pathlength of the ultraviolet light column shall be a minimum of 53 cm (21in) in length and the interior shall be painted flat black. The light pathlength shall ~~must~~ also be at least 6 times the diameter of the suspension's surface;
- the support stand, if used, shall be adjustable to raise or lower the collimating tube to the surface of the petri dish;
- the petri dish shall be set so the surface of the liquid is at the same level as the radiometer; and
- measurement of the UV dose shall be done at the same point at which the petri dish surface is exposed.

**Rationale: Changes normative language from "must" to "shall".**

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### 7.3.1.7 Microbiological test method – Flow through systems

**Table 7.2**  
**Sampling for disinfection performance**

Sampling point		Influent	Effluent
Day 0	condition system	no sample	no sample
Day 1	start up	x	x <sup>1</sup>
	4 h	x	x <sup>2</sup>
Day 2	start up	x	x <sup>1</sup>
	4 h	x	x <sup>2</sup>
Day 3	start up	x	x <sup>1</sup>
	4 h	x	x <sup>2</sup>
Day 4	start up	x	x <sup>1</sup>
	4 h	x	x <sup>2</sup>
Days 5, 6	48 to 72 h stagnation	no sample	no sample
Day 7	start up	x	x <sup>1</sup>
	4 h	x	x <sup>2</sup>

<sup>1</sup> Samples shall be collected at the start-up of each day following a minimum 16-h stagnation according to the sampling requirements in Sections ~~7.3.2.7~~ 7.3.1.7 and ~~7.3.2.8~~ 7.3.1.8. Samples shall be of the first 3 unit void volumes (or minimum quantity required for analysis, whichever is larger) from the system or component. Sampling will be delayed until the plumbing downstream of the three-way valve and the sampling point has been purged.

<sup>2</sup> Samples shall be collected after a minimum of 15 min of operation.

**Rationale: Corrects section references.**

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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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#### 4.3 Planning

**4.3.1** A risk-based supplier qualification program is established and implemented for all ingredients. The program includes a supplier / ingredient risk evaluation, appropriate qualification activities as determined by the risk evaluation, and assurance that only approved suppliers are used. [21 CFR § 111.70(f) & 21 CFR § 111.75(a2ii) & 21 CFR § 117.405 & 21 CFR § 117.410]

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~~**4.5.26**~~ **4.3.3** Direct importers of components, bulk dosage forms, or finished dietary supplements shall be established and implemented a foreign supplier verification program (FSVP). An importer, as defined within 21CFR subpart L, shall have a foreign supplier verification program in place. [21 CFR § 1.511]

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NSF/ANSI Standard  
for Health Sciences –

## Good Manufacturing Practices for Cosmetics

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### 4 Audit Requirements

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#### 4.4 Support

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#### 4 Audit Requirements

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#### 4.6 Performance Evaluation

4.6.1 Procedures have been established for laboratory operations **and controls**. [ISO 22716:2007 9.1.2, 9.6]

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~~4.6.6 Laboratory controls have been established and have been approved by QC (including any outside contracted laboratories). Controls include reagents and standards; calibration of instruments and equipment; sample receipt, handling and traceability; test methods; calculations and data reduction; raw data handling and storage. [ISO 22716:2007 9.6]~~

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## BSR/UL1, Standard for Safety for Flexible Metal Conduit

### 1. Stainless Steel Flexible Metal Conduit (SS FMC) as an EGC per the 2023 NEC

#### PROPOSAL

##### 1 Scope

1.1 These requirements cover flexible aluminum, steel and stainless-steel conduit designed for use as metal raceway for wires and cables in accordance with the National Electrical Code, NFPA 70.

##### 4.3 Stainless Steel

4.3.1 The strip material used in stainless steel flexible steel conduit shall be stainless steel having a chromium content of not less than 16 percent.

6.1 Splices in steel, stainless steel and aluminum strip shall be made in a workmanlike manner and shall not materially increase the thickness or diameter of the conduit or lessen its mechanical strength.

7.1 Finished flexible steel, stainless steel and aluminum conduit shall have the number of convolutions per foot or the number of convolutions per 200 millimeters indicated in Table 7.1.

8.1 The interior surfaces of finished steel, stainless steel and aluminum conduit shall be free from burrs and sharp edges that can damage wiring.

9.1 Finished flexible steel, stainless steel and aluminum conduit in trade sizes 3/8 – 4 shall have an external diameter that is not smaller than indicated in the second column and not larger than indicated in the third column of Table 9.1 (dimensions in inches) or Table 9.2 (dimensions in millimeters) and shall have an internal diameter that is not smaller than indicated in the fourth column of Table 9.1 (dimensions in inches) or Table 9.2 (dimensions in millimeters). Finished flexible steel, stainless steel and aluminum conduit in the 3/8 – 2 trade sizes shall have an internal diameter that is not larger than indicated in the fifth column of Table 9.1 (dimensions in inches) or Table 9.2 (dimensions in millimeters).

11.1 Finished flexible steel, stainless steel and aluminum conduit shall withstand for 1 minute, without opening up at any point, a tension imparted by a weight that exerts 300 lbf (1334 N or 136 kgf) applied to the ends of a 3-foot (915-mm) length.

12.1 A specimen of finished flexible steel, stainless steel and aluminum conduit shall be bent around a cylindrical (right-circular) surface having a radius as indicated in Table 12.1 without opening at any point.

##### 14 Secureness of Conduit in Fittings Tests

14.1 Three specimens of finished conduit assembled to its intended fittings (one fitting on each end of the conduit) shall be subjected to each of the tests specified in the Standard for Conduit, Tubing, and Cable Fittings, UL 514B, under the section, "Fittings for flexible metal conduit":

- a) Assembly,
- b) Resistance, and
- c) Pull

*Exception: A Stainless Steel flexible metal conduit shall not be subjected to the Resistance Test. Stainless Steel flexible metal conduit shall only be subjected to the Assembly Test followed by Pull Test.*

14.2 Following the tests:

- a) The steel, stainless steel or aluminum conduit shall not be punctured or deformed,
- b) The voltage drop across the steel or aluminum conduit shall not be greater than 50 millivolts, and
- c) Pulling, bending, and flexing shall not dislodge the fitting from the steel, stainless steel or aluminum conduit, as applicable.

## 15 Resistance Test

15.1 The electrical resistance of specimens of previously untested finished conduit shall not exceed the values shown in Table 15.1.

*Exception: A Stainless Steel flexible metal conduit shall not be subjected to this test.*

16.1.1 The requirement in 16.1 applies to aluminum and steel flexible metal conduit covered by this standard. For stainless steel flexible metal conduit, after previously untested specimens of the finished conduit are subjected to the Fault Current test and allowed to cool to ambient room temperature there shall be no openings in the conduit. Compliance of stainless steel conduits is to be determined by visual inspection.

17.1.1 If the organization responsible for the conduit produces flexible steel conduit, flexible stainless steel conduit or flexible aluminum conduit in only one factory, the factory need not be identified on the conduit.

17.1.2 If the organization responsible for the conduit produces flexible steel conduit, flexible stainless steel conduit or flexible aluminum conduit in more than one factory, all of the conduit that is produced by or for that organization shall be identified as the product of a particular factory. The factory identification shall be permanent and shall consist of a letter or symbol indented into or embossed on the outer surface of the conduit at intervals no longer than 12 inches (305 mm). The absence of this marking may be used to identify one factory. The meaning of each identification shall be made available.

17.3.2 Each coil of flexible steel, stainless steel and aluminum conduit shall be marked or tagged to indicate the following plainly:

- a) The name of the manufacturer, that manufacturer's trade name for the conduit, or both, or any other acceptable distinctive marking by means of which the organization responsible for the conduit can readily be identified.
- b) The date of manufacture by month and year.
- c) The trade size of the conduit.
- d) "Use only with connectors intended for this type of conduit." Cartons for these connectors are marked as follows:

Connectors for use with FMC (flexible metal conduit): "For FMC" or "FMC"

Connectors for use with steel (FE), stainless steel (SS) or aluminum (AL) FMC only:

"For FE FMC" or "FEFMC"

"For STEEL FMC" or "STEELFMC"

"For AL FMC" or "ALFMC"

"For ALUM FMC" or "ALUMFMC"

"For ALUMINUM FMC" or "ALUMINUMFMC"

"For SS FMC" or "SSFMC"

"For ST STEEL FMC" or "ST STEELFMC"

"For STAINLESS STEEL FMC" or "STAINLESSSTEELFMC"

Connectors for use with reduced-wall FMC (RWFMC) only: "For RWFMC" or "RWFMC"

Connectors for use with steel (FE), stainless steel (SS) or aluminum (AL) reduced-wall FMC

(RWFMC) only:

"For FE RWFMC" or "FERWFMC"

"For STEEL RWFMC" or "STEELRWFMC"

"For AL RWFMC" or "ALRWFMC"

"For ALUM RWFMC" or "ALUMRWFMC"

"For ALUMINUM RWFMC" or "ALUMINUMRWFMC"

"For SS RWFMC" or "SSRWFMC"

"For ST STEEL RWFMC" or "ST RWSTEELFMC"

"For STAINLESS STEEL RWFMC" or "STAINLESSSTEELRWFMC"

17.4.1 In addition to the marking requirements in 17.1.1 – 17.3.2, reduced-wall flexible metal conduit (RWFMC), shall be marked by indent printing or embossing with the letters "RW", and the tag attached to each coil shall have the statement "Reduced-wall flexible (aluminum, steel or stainless steel) conduit" or the equivalent.

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## **BSR/UL 153, Standard for Safety for Portable Electric Luminaires**

### **2. Clarification Attachment plug with “W”, “Water Resistant” or “Outdoor Use” rating for wet location luminaires**

#### **PROPOSAL**

##### **132.1 Power-supply cords**

132.1.1 Any cord exposed outside of a portable luminaire shall be type SJ, SJO, SJT, or equivalent and be marked “W” following the type designation. The attachment plug shall also be rated for outdoor use by a surface marking “W” or “Water Resistant” or “Outdoor Use”.

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## UL 2743, Standard for Portable Power Packs

### 2. Addition of definition of "portable or moveable"

#### PROPOSAL

5.29A PORTABLE POWER PACK – A power pack which can be lifted and moved by a single person without mechanical aids and not permanently connected to an electrical system. It can be either:

- a) Hand-held; or
- b) Moveable and meets the following criteria:
  - 1) 18 kg (39.7 pounds) or less in mass and is not fixed; or
  - 2) Provided with wheels, casters, or other means to facilitate movement by an ordinary person as required to perform its intended use.

For a portable power pack powered by a detachable battery pack(s), which is mounted on the body of the portable power pack during operation, the weight of all detachable battery packs shall be included to determine if it is movable or portable.

### 3. Alignment of requirements for sub-enclosures with UL 746C

#### PROPOSAL

7.3.2 The enclosure material shall have a minimum flame rating of V-1 in accordance with 8.1.

*Exception: If a metal or minimum V-1 rated sub-enclosure houses all insulated or uninsulated live parts and internal wirings that involve a risk of fire, then the ~~overall polymeric~~ outer polymeric enclosure may be classed HB or better.*

### 4. Receptacle output not supplied by AC mains

#### PROPOSAL

12.3.1 Receptacles provided as an output on power packs shall be of a NEMA type receptacle that is in accordance with the Standard for Attachment Plugs and Receptacles, UL 498, and General Use Receptacles, Attachment Plugs and Similar Wiring Devices, CSA C22.2 No. 42. Each AC output power circuit shall be provided with overcurrent protection for all ungrounded conductors in accordance with Section 31, Output Alternating Current Power Circuits, of the Standard for Power Units Other Than Class 2, UL 1012. Except as indicated in 12.3.1A, receptacles shall be rated 120 Vac, 15 A maximum, and shall consist of a double blade, ungrounded configuration.

12.3.1A Polarized receptacles rated 120 Vac, 30 A maximum, and that consist of a grounding configuration may be acceptable provided the criteria in either (a) or (b) is met:

- a) The following criteria is met:
  - 1) The polarized receptacles including their ground terminals are isolated from any of the AC mains input circuits by double insulation in accordance with Section 14, Double Insulation Products; and

~~2) Polarized receptacles are interlocked such that they are not available for use when any another polarized receptacle is in use; and~~

3) ~~2)~~ The portable power pack is marked per 70.24 and provided with instructions per 72.3(q).

b) The polarized receptacles have GFCI protection for portable power pack users on all polarized receptacle outlets. The GFCIs shall be in accordance with the Standard for Ground-Fault Circuit Interrupters, UL 943, and shall interrupt the output supply circuit in the event of a ground fault of receptacles.

70.24 With reference to ~~12.3.1A(a)(3)~~ [12.3.1A\(a\)\(2\)](#), a portable power pack shall be marked with the word "CAUTION" and the following or the equivalent: "Risk of Electric Shock. Never use portable power pack to supply power tools to cut or access live parts or live wirings."

## 6. Replacement of UL 60950-1 with UL 62368-1 for external charger standard

### PROPOSAL

11.3.2 The output rating of the external power supply shall be equal to or greater than the input rating of the power pack; and the output of the external power supply shall be a power source in accordance with any of the following:

- a) The Standard for Audio/Video, Information and Communication Technology Equipment – Part 1: Safety Requirements, UL 62368-1 / CSA C22.2 No. 62368-1;
- b) The Standard for Household and Similar Electrical Appliances – Safety – Part 2-29: Particular Requirements for Battery Chargers, UL 60335-2-29 / CSA C22.2 No. 60335-2-29;
- c) A Class 2 power source in accordance with the Standard for Class 2 Power Units, UL 1310, and Power Supplies With Extra Low Voltage Class 2 Outputs, CSA C22.2 No. 223; ~~or~~
- d) A power source other than Class 2 in accordance with the Standard for Power Units Other Than Class 2, UL 1012, and Battery Chargers, CSA C22.2 No. 107.2-~~;~~ [or](#)

[e\) The Standard for Information Technology Equipment – Safety – Part 1: General Requirements, UL 60950-1 / CSA C22.2 No. 60950-1.](#)

4.3 The following publications are referenced in this Standard:

[CSA C22.2 No. 60950-1. Information Technology Equipment – Safety – part 1: General Requirements](#)

[UL 60950-1. Information Technology Equipment – Safety – Part 1: General Requirements](#)

## 13. Clarification of Leakage Current Test with hazardous voltage circuits

### PROPOSAL

46.1 A power pack with hazardous voltage circuits shall be tested in accordance with 46.2 – 46.7. Leakage current shall not be more than 0.5 mA.

~~Exception: A power pack provided with no AC supply shall be subjected to the Dielectric Voltage Withstand Test in Section 48 instead of the Leakage Current Test. The leakage current of a power pack provided with no AC supply shall be measured with the measurement instrument connected between the hazardous circuit (either hazardous input or output) to the output ground terminal and any user accessible conductive parts.~~

49.1 A power pack with hazardous voltage circuits shall comply with the requirements for leakage current in Section 46, Leakage Current Test, following exposure for 48 hours to air having a relative humidity of  $88 \pm 2$  percent at a temperature of  $32 \pm 2^\circ\text{C}$  ( $90 \pm 4^\circ\text{F}$ ).

~~Exception: A power pack provided with no AC supply shall be subjected to the Dielectric Voltage Withstand Test in Section 48 instead of the Leakage Current Test, following exposure for 48 hours to air having a relative humidity of  $88 \pm 2$  percent at a temperature of  $32 \pm 2^\circ\text{C}$  ( $90 \pm 4^\circ\text{F}$ ).~~

## 19. Updates to the Impact Test and Drop Test

### PROPOSAL

~~55.1.2 The test in 55.3 is to be performed on a power pack weighing less than 19 kg (40 pounds) and provided with one or more handles for carrying the product.~~

55.3.2 The sample of a portable power pack weighing equal to or less than 18 kg (39.7 pounds) is to be dropped three times from a height of 0.9 m (3 feet) to strike a concrete surface in the positions most likely to produce adverse results. The sample of a movable power pack weighing more than 18 kg (39.7 pounds) is to be dropped one time from a height of 0.9 m (3 feet) to strike a concrete surface in the position most likely to produce adverse results.

## 20. Clarification of the compliance criteria for the Rain Test

### PROPOSAL

60.2 Enclosures shall have no wetting of a hazardous voltage or hazardous energy live part nor have entrance of water above the lowest hazardous voltage or hazardous energy live part inside the enclosure at the conclusion of this test. Additionally, the power pack shall comply with the Leakage Current Test, Section 46, at the conclusion of this test.

60.2A The product may be marked "rainproof" per 69.1 if it complies with 60.2. The product may be marked "raintight" per 69.1 if no water enters the enclosure of the power pack as specified in 60.4.

NOTE: In addition to electric shock hazard, wetting of a hazardous energy live circuit ~~(either the hazardous voltage circuit or low voltage circuit)~~ of a power pack may result in a fire hazard of a battery.

60.3A If fans or other means for ventilation are provided, which could affect the ingress of water, the test shall be conducted with the ventilation means both on and off unless it is evident that one of the modes of operation will produce the more onerous result.



**ANSI/NETA MTS-2019**  
***Standard for Maintenance Testing Specifications for  
Electrical Power Equipment and Systems***

Issued by the

**NETA Standards Review Council**

Of the

**InterNational Electrical Testing Association**

Recirculation Ballot

**Issued November 23, 2022**

**Revisions for recirculation:**

- Section 2.1: reference removed from the standard – “ASTM D4052 Standard Test Method for Density, Relative Density, and API Gravity of Liquids by Digital Density Meter”
- Section 2.1: reference added to the standard – “IEEE 404 IEEE Standard for Extruded and Laminated Dielectric Shielded Cable Joints Rated 2.5 kV to 500 kV”
- Section 2.1: reference removed from the standard – “IEEE 644 IEEE Standard Procedures for Measurement of Power Frequency Electric and Magnetic Fields from AC Power Lines”
- Section 2.1: reference removed from standard – “IEEE 902 IEEE Recommended Practice for Energy Management in Industrial and Commercial Facilities (Bronze Book)”
- Section 3, #3 item 1: shall statement revised – “Owners utilizing testing companies shall require that each onsite crew leader shall hold a ~~technicians be supervised by an individual holding~~ current certification.”
- Section 7.6.3,D #7: shall statements deleted – “Power-factor or dissipation-factor values shall be compared to manufacturer’s published data. In the absence of manufacturer’s published data the comparison shall be made to similar breakers.”
- Section 7.6.4 D #4: new shall statement added – “Dynamic contact resistance values shall be in accordance with manufacturer’s published data.”