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# Project Initiation Notification System (PINS)

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

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

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

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

Contact: Teresa Ambrosius (719) 453-1036 [tambrosius@aafs.org](mailto:tambrosius@aafs.org)  
410 North 21st Street, Colorado Springs, CO 80904 [www.aafs.org](http://www.aafs.org)

### ***New Standard***

BSR/ASB BRP 156-202x, Guidelines for Specimen Collection and Preservation for Forensic Toxicology (new standard)

Stakeholders: The forensic toxicology community, law enforcement, attorneys, medicolegal death investigation community, forensic nurses, and courts.

Project Need: While many specimen containers are available, inappropriate handling (collection, container, storage) may impact the test methods available and/or the outcome of forensic toxicological test results. The intent of this document is to provide general guidance on the collection and appropriate containers for common biological specimens used in forensic toxicological analysis. Recommended specimen amounts and containers have been listed so the forensic toxicology laboratory has the broadest ability to perform analysis. Additional specimen collection may be a consideration in instances of degraded or limited specimen availability and collection may be dictated by regulatory or jurisdictional mandates.

This document delineates guidelines for the collection of forensic toxicology specimens; their amounts, preservatives, and storage conditions. This guideline applies to specimens collected for laboratories performing forensic toxicological analysis in the following sub-disciplines: postmortem toxicology, human performance toxicology (e.g., drug-facilitated crimes and driving-under-the-influence of alcohol or drugs) and other forensic testing (e.g., court-ordered toxicology, general forensic toxicology). It is not intended for the area of breath alcohol toxicology.

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

### ***New Standard***

BSR/ASB Std 157-202x, Standard for Proficiency Testing in Bloodstain Pattern Analysis (new standard)

Stakeholders: Forensic service providers; Law enforcement users; Proficiency test providers; and Legal community.

Project Need: This document ensures that a proficiency testing program adheres to an established proficiency testing standard in bloodstain pattern analysis.

This standard establishes the requirements for the design of a proficiency testing program in bloodstain pattern analysis. It includes the testing scheme, general test design, and the evaluation of test results. It does not dictate actual test content.

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

***New Standard***

BSR/ASB Std 158-202x, Standard for Developing Standard Operating Procedures (SOP) in Bloodstain Pattern Analysis (new standard)

Stakeholders: Forensic service providers, law enforcement users, and legal community.

Project Need: This standard is meant to ensure that all forensic service providers of bloodstain pattern analysis services have documented standard operating procedures. While accredited forensic service providers have Standard Operating Procedures (SOP), it is not currently mandated.

This standard establishes required components of Standard Operating Procedures (SOP) that are part of a quality assurance program for Bloodstain Pattern Analysis. The standard specifies the requirements contained in a SOP for equipment, materials, reagents, calculations, limitations, safety, and the generation of reports. The standard is applicable to scene, laboratory, and remote examinations.

**ADA (American Dental Association)**

Contact: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)  
 211 East Chicago Avenue, Chicago, IL 60611-2678 [www.ada.org](http://www.ada.org)

***New National Adoption***

BSR/ADA Standard No. 101-202x, Endodontic Instruments: General Requirements (identical national adoption of ISO 3630-1:2019 and revision of ANSI/ADA Standard No. 101-2001)

Stakeholders: Manufacturers, dentists, researchers, consumers.

Project Need: Revision is needed to update the U.S. standard to harmonize with the current International Standard.

This standard specifies general requirements and test methods for endodontic instruments used for endodontic purposes, e.g., enlargers, compactors, shaping and cleaning instruments; and a numbering system, size designations, color-coding and identification symbols.

**ADA (American Dental Association)**

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

***New National Adoption***

BSR/ADA Standard No. 105-202x, Elastomeric Auxiliaries for Use in Orthodontics (national adoption of ISO 21606:2007 with modifications and revision of ANSI/ADA Standard No. 105-2010 (R2015))

Stakeholders: Manufacturers, dentists, researchers, consumers.

Project Need: ISO 21606:2007 requires adjustment to state that these tests are type tests and not based on any set sample size, as the international standard currently states.

This standard is applicable to all elastomeric auxiliaries, including orthodontic elastics, elastomeric bands, chains, links, thread, and ligatures used for orthodontics in conjunction with fixed and removable appliances.

**ADA (American Dental Association)**

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211 East Chicago Avenue, Chicago, IL 60611-2678 www.ada.org

***New National Adoption***

BSR/ADA Standard No. 120-202x, Powered Toothbrushes (identical national adoption of ISO 20127:2020 and revision of ANSI/ADA Standard No. 120-2009 (R2014))

Stakeholders: Manufacturers, dentists, researchers, consumers.

Project Need: An update to the U.S. standard is needed to incorporate a new test that has been introduced in the new edition of the international standard.

This standard specifies requirements and test methods for the physical properties of powered toothbrushes in order to promote the safety of these products for their intended use.

**ADA (American Dental Association)**

Contact: Paul Bralower (312) 587-4129 bralowerp@ada.org  
211 East Chicago Avenue, Chicago, IL 60611-2678 www.ada.org

***Revision***

BSR/ADA Standard No. 132-202x, Scanning Accuracy of Dental Chairside and Laboratory CAD/CAM Systems (revision of ANSI/ADA Standard No. 132-2015)

Stakeholders: Manufacturers, dentists, researchers, academicians.

Project Need: A revision of the standard is needed in order to clarify the true value of scanning accuracy test specimen and to update the formulas.

This standard describes test methods for the evaluation of repeatability, reproducibility, and accuracy of dental devices for 3D metrology of dental chairside and dental laboratory CAD/CAM systems.

**ADA (American Dental Association)**

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***New National Adoption***

BSR/ADA Standard No. 182-202x, Test Method for the Bonding Test between Polymer Teeth and Denture Base Polymer (identical national adoption of ISO/TS 19736:2017)

Stakeholders: Manufacturers, dentists, researchers, consumers.

Project Need: The U.S. TAG voted in favor of ISO/TC 19736:2017, therefore a U.S. adoption is appropriate.

This standard specifies a test method for the bonding of polymer teeth to denture base materials.

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Contact: Paul Bralower (312) 587-4129 bralowerp@ada.org  
211 East Chicago Avenue, Chicago, IL 60611-2678 www.ada.org

***New National Adoption***

BSR/ADA Standard No. 194-202x, Color Tabs for Intraoral Tooth Color Determination (identical national adoption of ISO 22598:2020)

Stakeholders: Manufacturers, dentists, researchers, consumers.

Project Need: This standards is needed to assist in the fabrication and reproducibility of color tabs by manufacturers to aid dentists in providing an accurate shade match for consumers/patients restorations.

This document specifies requirements for tooth-like color representations made of ceramic materials used to determine the tooth color in the patient's mouth or to check the color of dental prosthesis, which are referred to as color tabs in this document.

**ADA (American Dental Association)**

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211 East Chicago Avenue, Chicago, IL 60611-2678 www.ada.org

***New National Adoption***

BSR/ADA Standard No. 33-202x, Dental Product Standards Development Vocabulary (identical national adoption of ISO 1942:2020 and revision of ANSI/ADA Standard No. 33-2003 (R2014))

Stakeholders: Manufacturers, dentists, researchers, consumers.

Project Need: The U.S. TAG voted in favor of ISO/TC 19736:2017, therefore a U.S. adoption is appropriate.

The purpose of this standard is to provide a standardized nomenclature for dental products and testing to permit the developers of dental product standards to discuss concepts and procedures in such a way that they will be understood by those who must interpret these documents and test the products to determine if they are suitable for their intended purpose.

**ADA (American Dental Association)**

Contact: Paul Bralower (312) 587-4129 bralowerp@ada.org  
211 East Chicago Avenue, Chicago, IL 60611-2678 www.ada.org

***Revision***

BSR/ADA Standard No. 54-202x, Double-Pointed, Parenteral, Single-Use Needles for Dentistry (revision of ANSI/ADA Standard No. 54-1986 (R2014))

Stakeholders: Manufacturers, dentists, researchers, consumers.

Project Need: The revision is needed to include mention of 21CFR830 (Unique Device Identification) in subclause 6.3.

This standard provides requirements and test methods for sterile, single-use, individually packaged, double-pointed needles with a means of secure attachment to cartridge-type syringes used for dental, regional anesthetic injections.

**ADA (American Dental Association)**

Contact: Paul Bralower (312) 587-4129 bralowerp@ada.org  
211 East Chicago Avenue, Chicago, IL 60611-2678 www.ada.org

***New National Adoption***

BSR/ADA Standard No. 57-202x, Endodontic Sealing Materials (national adoption of ISO 6876:2012 with modifications and revision of ANSI/ADA Standard No. 57-2000 (R2012))

Stakeholders: Manufacturers, dentists, researchers, consumers.

Project Need: Current standards (ADA 57 & ISO 6876) are inappropriate for new endodontic materials based on tricalcium silicates.

This standard specifies requirements and test methods for endodontic sealing materials, which set with or without the assistance of moisture, and are used for permanent obturation of the root canal.

**ADA (American Dental Association)**

Contact: Paul Bralower (312) 587-4129 bralowerp@ada.org  
211 East Chicago Avenue, Chicago, IL 60611-2678 www.ada.org

***New National Adoption***

BSR/ADA Standard No. 74-202x, Dental Operators Stool (national adoption of ISO 7493:2006 with modifications and revision of ANSI/ADA Standard No. 74-2010 (R2015))

Stakeholders: Manufacturers, dentists, consumers.

Project Need: The standard will be revised with an expansion of the normative references to include furniture strength and stability standards.

This standard sets forth requirements, recommendations, and test methods for the operator's stool in the dental office, as well as requirements for the manufacturer's instructions for use and for marking and packaging.

**ADA (American Dental Association)**

Contact: Paul Bralower (312) 587-4129 bralowerp@ada.org  
211 East Chicago Avenue, Chicago, IL 60611-2678 www.ada.org

***Revision***

BSR/ADA Standard No. 87-202x, Dental Impression Trays (revision of ANSI/ADA Standard No. 87-1995 (R2014))

Stakeholders: Manufacturers, dentists, researchers, academicians.

Project Need: A revision is needed to update the standard to include information concerning trays produced by additive manufacturing.

This standard provides requirements and test methods for reusable and disposable impression trays used in dentistry for delivering impression materials into the oral cavity for the purpose of making impressions of teeth and oral tissues.

**ADA (American Dental Association)**

Contact: Paul Bralower (312) 587-4129 bralowerp@ada.org  
 211 East Chicago Avenue, Chicago, IL 60611-2678 www.ada.org

***New National Adoption***

BSR/ADA Standard No. 94-202x, Central Compressed Air Source Equipment (identical national adoption of ISO 22052:2020 and revision of ANSI/ADA Standard No. 94-1996 (R2014))

Stakeholders: Manufacturers, dentists, researchers, consumers.

Project Need: The U.S. TAG voted in favor of ISO/TC 19736:2017, therefore a U.S. adoption is appropriate.

This standard specifies requirements and test methods for central-compressed air-source equipment supplying air for dental units and air-consuming devices in the dental office; and quality requirements and test methods for the air produced by the central-compressed air-source equipment.

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

Contact: Terrell Henry (212) 591-8489 ansibox@asme.org  
 Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 www.asme.org

***Revision***

BSR/ASME B18.6.3-202x, Machine Screws, Tapping Screws, and Metallic Drive Screws (Inch Series) (revision of ANSI/ASME B18.6.3-2013 (R2017))

Stakeholders: Manufacturers, users, distributors.

Project Need: This revision will address a number of common issues between B18.6.3 and SAE J1237. In particular, it will address issues regarding where the thread stops underneath the head, case hardening instructions, and hydrogen embrittlement relief instructions.

This Standard is intended to cover the complete general and dimensional data for the various types of slotted- and recessed-head machine screws, tapping screws, and metallic drive screws, recognized as American National Standard.

**HL7 (Health Level Seven)**

Contact: Karen Van Hentenryck (313) 550-2073 104 Karenvan@HL7.org  
 3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 www.hl7.org

***New Standard***

BSR/HL7 PSIM, R1-202x, HL7 Privacy and Security Information Model, Release 1 (new standard)

Stakeholders: Clinical and Public Health Laboratories, Quality Reporting Agencies, Regulatory agency, Standards Development Organizations (SDOs), payors.

Project Need: The current HL7 Composite Security and Privacy Domain Analysis Model information models is out of date (completed in 2014). Since that time, significant changes to class relationships including new relationships to other Security models have been developed such as Security Labeling, Audit, Trust, and Provenance. These models need to connect more holistically in an updated, overarching conceptual model.

This is an up-to-date Security and Privacy Information Model aligned with the Composite Security and Privacy DAM, Privacy and Security Architecture Framework, and other foundational security standards including ISO 10181 and ISO 22600.

### **NECA (National Electrical Contractors Association)**

Contact: Aga Golriz (301) 215-4549 [Aga.golriz@necanet.org](mailto:Aga.golriz@necanet.org)  
3 Bethesda Metro Center, Suite 1100, Bethesda, MD 20814 [www.neca-neis.org](http://www.neca-neis.org)

#### ***Revision***

BSR/NECA 1-202x, Standard for Good Workmanship in Electrical Construction (revision of ANSI/NECA 1-2006 (R2015))

Stakeholders: Electrical contractors, specifiers, electrical workers, inspectors, building owners, maintenance engineers.

Project Need: National Electrical Installation Standards (developed by NECA in partnership with other industry organizations) are the first performance standards for electrical construction. They go beyond the basic safety requirements of the National Electrical Code to clearly define what is meant by installing products and systems in a "neat and workmanlike" manner.

This standard describes what is meant by installing equipment in a "neat and workmanlike manner" as required by the National Electrical Code, Section 110.12.

### **NECA (National Electrical Contractors Association)**

Contact: Aga Golriz (301) 215-4549 [Aga.golriz@necanet.org](mailto:Aga.golriz@necanet.org)  
3 Bethesda Metro Center, Suite 1100, Bethesda, MD 20814 [www.neca-neis.org](http://www.neca-neis.org)

#### ***Revision***

BSR/NECA 100-202x, Symbols for Electrical Construction Drawings (revision of ANSI/NECA 100-2006 (R2013))

Stakeholders: Electrical contractors and their customers, inspectors, specifiers, electricians.

Project Need: National Electrical Installation Standards (developed by NECA in partnership with other industry organizations) are the first performance standards for electrical construction. They go beyond the basic safety requirements of the National Electrical Code to clearly define what is meant by installing products and systems in a "neat and workmanlike" manner.

This publication describes graphic symbols used to represent electrical wiring equipment on construction drawings.



# 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

## Comment Deadline: September 20, 2020

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

1791 Tullie Circle, NE, Atlanta, GA 30329 p: (404) 636-8400 w: [www.ashrae.org](http://www.ashrae.org)

#### Addenda

BSR/ASHRAE Addendum b to BSR/ASHRAE Standard 140-202x, Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs (addenda to ANSI/ASHRAE Standard 140-2014)

The purpose of this addendum is to make changes to the title, purpose, and scope of Standard 140-2017.

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

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

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

7900 Turin Rd., Bldg. 3, Rome, NY 13440 p: (315) 339-6937 w: [www.esda.org](http://www.esda.org)

#### New Standard

BSR/ESD SP17.1-202x, ESD Association Standard Practice for the Protection of Electrostatic Discharge Susceptible Items - Process Assessment Techniques (new standard)

This document applies to activities that manufacture, process, assemble, install, package, label, service, test, inspect, transport, or otherwise handle electrical or electronic parts, assemblies, and equipment susceptible to damage by electrostatic discharges. This document does not apply to electrically initiated explosive items, flammable liquids, or powders. The document does not address program management, compliance verification, troubleshooting, or program manager/coordinator certification. In this version of the document, risks due to electromagnetic sources that produce AC fields are not considered.

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [cearl@esda.org](mailto:cearl@esda.org)

## Comment Deadline: September 20, 2020

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 p: (734) 418-6660 w: [www.nsf.org](http://www.nsf.org)

#### Revision

BSR/NSF 46-202x (i34r1), Evaluation of Components and Devices Used in Wastewater Treatment Systems (revision of ANSI/NSF 46-2018)

This wastewater standard is intended for use with components and devices not covered by other NSF wastewater standards. Components and devices covered by this Standard are intended for use with greywater or blackwater, or both. Management methods for the end-products of these components and devices are not addressed in this Standard. This Standard shall in no way restrict new system designs, provided that such designs meet the minimum specifications described in this standard.

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [jsnider@nsf.org](mailto:jsnider@nsf.org)

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 p: (734) 418-6660 w: [www.nsf.org](http://www.nsf.org)

#### Revision

BSR/NSF 50-202x (i167r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF 50-2019)

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

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [jsnider@nsf.org](mailto:jsnider@nsf.org)

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 p: (734) 827-6866 w: [www.nsf.org](http://www.nsf.org)

#### Revision

BSR/NSF 455-4-202x (i14r2), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

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

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [rbrooker@nsf.org](mailto:rbrooker@nsf.org)

### UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 p: (919) 549-0973 w: <https://ul.org/>

#### Revision

BSR/UL 154-202X, Standard for Carbon-Dioxide Fire Extinguishers (revision of ANSI/UL 154-2009 (R2019))

UL proposes a revision to the Nameplate Abrasion Test.

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

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

## Comment Deadline: September 20, 2020

### UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 p: (919) 549-0973 w: <https://ul.org/>

#### **Revision**

BSR/UL 299-202X, Standard for Dry Chemical Fire Extinguishers (revision of ANSI/UL 299-2012 (R2018))

UL proposes a revision to the Nameplate Abrasion Test.

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

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

### UL (Underwriters Laboratories)

333 Pfingsten Road, Northbrook, IL 60062 p: (847) 664-1292 w: <https://ul.org/>

#### **Revision**

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

This proposal for UL 414 covers: (1) Clarification of wire details during test; (2) Clarification of requirements for alternate energy circuits.

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

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

### UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 p: (919) 549-0973 w: <https://ul.org/>

#### **Revision**

BSR/UL 626-202X, Standard for Water Fire Extinguishers (revision of ANSI/UL 626-2012 (R2018))

UL proposes a revision to the Nameplate Abrasion Test.

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

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

### UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 p: (919) 549-0922 w: <https://ul.org/>

#### **Revision**

BSR/UL 796-202x, Standard for Safety for Printed Wiring Boards (revision of ANSI/UL 796-2016)

This proposal for UL 796 covers: (10) Clarification of requirements for solder limit evaluation for laminates and PWBs; (11) Add evaluation for conductive coins.

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

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

### UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 p: (919) 549-1097 w: <https://ul.org/>

#### **Revision**

BSR/UL 1838-202x, Standard for Safety for Low Voltage Landscape Lighting Systems (revision of ANSI/UL 1838-2017)

This proposal for UL 1838 covers an update to a previous (6-12-20) proposal: (3) Overload, Burnout and Endurance Test consolidation and simplification.

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

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

## Comment Deadline: September 20, 2020

### UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 p: (919) 549-0973 w: <https://ul.org/>

#### Revision

BSR/UL 2129-202X, Standard for Halocarbon Clean Agent Fire Extinguishers (revision of ANSI/UL 2129-2017)

UL proposes a revision to the Nameplate Abrasion Test.

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

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

### UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 p: (919) 549-1097 w: <https://ul.org/>

#### Revision

BSR/UL 2416-202x, Standard for Safety for Audio/Video, Information and Communication Technology Equipment Cabinet, Enclosure and Rack Systems (revision of ANSI/UL 2416-2019)

This proposal for UL 2416 covers updates to a previous (6-12-20) proposal: (11) Clarification on allowed application of Bottom Opening requirements to promote consistent application.

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

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

### UL (Underwriters Laboratories)

47173 Benicia Street, Fremont, CA 94538 p: (510) 319-4271 w: <https://ul.org/>

#### Revision

BSR/UL 2748-202x, Standard for Safety for Arcing Fault Quenching Equipment (revision of ANSI/UL 2748-2019)

This proposal covers an editorial error regarding a standard reference provided in Paragraph 14.6.

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

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

## Comment Deadline: October 5, 2020

### AAFS (American Academy of Forensic Sciences)

410 North 21st Street, Colorado Springs, CO 80904 p: (719) 453-1036 w: [www.aafs.org](http://www.aafs.org)

#### New Standard

BSR/ASB Std 054-202x, Standard for a Quality Control Program in Forensic Toxicology Laboratories (new standard)

This document establishes minimum requirements for quality control practices in forensic toxicology laboratories. The document explains the importance of a quality control program, how to select and care for materials used to prepare quality control samples, proper preparation and use of calibrator and control samples, and requirements for their use in different types of assays. The document also provides direction for the review and monitoring of quality control data in forensic toxicology laboratories. This standard applies to laboratories performing forensic toxicological analysis in the following sub-disciplines: postmortem forensic toxicology, human performance toxicology (e.g., drug-facilitated crimes and driving-under-the-influence of alcohol or drugs), non-regulated employment drug testing, court-ordered toxicology (e.g., probation and parole, drug courts, child services), and general forensic toxicology (non-lethal poisonings or intoxications). It is not intended for the area of breath alcohol toxicology.

Please note that comments on a re-circulation will only be accepted on revised sections of a document, comments made to text not revised from the original public comment period will not be accepted. Updated document, redline version, and comments can be viewed on the AAFS Standards Board website.

Single copy price: Free

Obtain an electronic copy from: <http://www.asbstandardsboard.org/notice-of-standard-development-and-coordination/>

Order from: Document available electronically via the URL provided

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

## Comment Deadline: October 5, 2020

### ADA (American Dental Association)

211 East Chicago Avenue, Chicago, IL 60611-2678 p: (312) 587-4129 w: [www.ada.org](http://www.ada.org)

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

BSR/ADA Standard No. 100, ISO 27020-202x, Orthodontic Brackets and Tubes (identical national adoption of ISO 27020:2019 and revision of ANSI/ADA 100, ISO 27020-2012 (R2018))

This standard is applicable to brackets and tubes for use in fixed orthodontic appliances. It provides methods to compare the functional dimensions of orthodontic brackets and tubes, the test methods by which they can be determined, as well as packaging and labeling information.

Single copy price: \$25.00

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

Order from: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)

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

### ADA (American Dental Association)

211 East Chicago Avenue, Chicago, IL 60611-2678 p: (312) 587-4129 w: [www.ada.org](http://www.ada.org)

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

BSR/ADA Standard No. 167-202x, Test Methods for Dental Unit Waterline Biofilm Treatment (national adoption of ISO 16954:2015 with modifications and revision of ANSI/ADA Standard No. 167:2019)

This standard provides type test methods for evaluating the effectiveness of treatment methods intended to prevent or inhibit the formation of biofilm or to remove biofilm present in dental unit procedural water delivery systems.

Single copy price: \$25.00

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

Order from: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)

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

### ADA (American Dental Association)

211 East Chicago Avenue, Chicago, IL 60611-2678 p: (312) 587-4129 w: [www.ada.org](http://www.ada.org)

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

BSR/ADA Standard No. 190-202x, Single-Use Dental Cartridges for Local Anesthetics (identical national adoption of ISO 11499:2014)

This standard gives specific performance requirements for single-use dental cartridges of 1.0 ml, 1.7 ml, 1.8 ml, and 2.2 ml nominal capacity for use with local anesthetics.

Single copy price: \$25.00

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

Order from: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)

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

### ADA (American Dental Association)

211 East Chicago Avenue, Chicago, IL 60611-2678 p: (312) 587-4129 w: [www.ada.org](http://www.ada.org)

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

BSR/ADA Standard No. 191, ISO 9873-202x, Intra-Oral Mirrors (identical national adoption of ISO 9873:2017)

This standard specifies requirements and test methods for reusable intra-oral mirrors with a coated glass reflecting surface used for dental purposes in the oral cavity.

Single copy price: \$25.00

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

Order from: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)

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

## Comment Deadline: October 5, 2020

### **ADA (American Dental Association)**

211 East Chicago Avenue, Chicago, IL 60611-2678 p: (312) 587-4129 w: [www.ada.org](http://www.ada.org)

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

BSR/ADA Standard No. 192-202x, Dental Explorer (identical national adoption of ISO 7492:2019)

This standard specifies the dimensional and performance requirements for dental explorers.

Single copy price: \$25.00

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

Order from: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)

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

### **ADA (American Dental Association)**

211 East Chicago Avenue, Chicago, IL 60611-2678 p: (312) 587-4129 w: [www.ada.org](http://www.ada.org)

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

BSR/ADA Standard No. 38-202x, Compatibility Testing for Metal-Ceramic and Ceramic-Ceramic Systems (identical national adoption of ISO 9693:2019 and revision of ANSI/ADA Standard No. 38-2000 (R2015))

This standard specifies requirements and test methods to assess the thermomechanical compatibility between a veneering ceramic and a metallic or ceramic substructure material used for dental restorations.

Single copy price: \$25.00

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

Order from: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)

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

### **ADA (American Dental Association)**

211 East Chicago Avenue, Chicago, IL 60611-2678 p: (312) 587-4129 w: [www.ada.org](http://www.ada.org)

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

BSR/ADA Standard No. 63-202x, Endodontic Instruments - Auxiliary (national adoption of ISO 3630-4:2009 with modifications and revision of ANSI/ADA Standard No. 63-2013)

This standard specifies requirements and test methods for hand-held or mechanically operated instruments for performing root canal procedures.

Single copy price: \$25.00

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

Order from: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)

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

### **ADA (American Dental Association)**

211 East Chicago Avenue, Chicago, IL 60611-2678 p: (312) 587-4129 w: [www.ada.org](http://www.ada.org)

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

BSR/ADA Standard No. 95-202x, Endodontic Instruments - Enlargers (national adoption of ISO 3630-2:2013 with modifications and revision of ANSI/ADA Standard No. 95-2013)

This standard specifies requirements for enlargers, including size, marking, product designation, safety considerations, labeling, packaging, and instructions for use.

Single copy price: \$25.00

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

Order from: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)

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

## Comment Deadline: October 5, 2020

### ADA (American Dental Association)

211 East Chicago Avenue, Chicago, IL 60611-2678 p: (312) 587-4129 w: [www.ada.org](http://www.ada.org)

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

BSR/ADA Standard No. 1094-202x, Quality Assurance for Digital Intra-Oral Radiographic Systems (new standard)

The purpose of this standard is to establish clear and concise protocols to ensure adequate quality assurance for digital intra-oral radiography. There are three components that form a digital intra-oral imaging system: the image display device (computer, monitor and display software); the x-ray source; and digital image acquisition device (solid-state sensor or PSP imaging plate and scanner and associated acquisition software). Each of these components is addressed in this standard.

Single copy price: \$25.00

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

Order from: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)

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

### ADA (American Dental Association)

211 East Chicago Avenue, Chicago, IL 60611-2678 p: (312) 587-4129 w: [www.ada.org](http://www.ada.org)

#### ***Reaffirmation***

BSR/ADA Standard No. 1000-2010 (R202x), Standard Clinical Data Architecture (reaffirmation of ANSI/ADA Standard No. 1000-2010 (R2015))

This standard provides the architecture for persistent data, such as a logical data model, that can be engineered into a database supporting clinical healthcare functions, such as electronic patient records, clinical decision support, imaging, and referrals/consultation.

Single copy price: \$25.00

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

Order from: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)

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

### ADA (American Dental Association)

211 East Chicago Avenue, Chicago, IL 60611-2678 p: (312) 587-4129 w: [www.ada.org](http://www.ada.org)

#### ***Reaffirmation***

BSR/ADA Standard No. 1027-2010 (R202x), Implementation Guide for ADA Standard No. 1000 - Standard Clinical Data Architecture (reaffirmation of ANSI/ADA Standard No. 1027-2010 (R2015))

This standard provides technical guidance for architects and developers to use in preparing a clinical data design that confirms to ANSI/ADA Standard No. 1000, Standard Clinical Data Architecture.

Single copy price: \$25.00

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

Order from: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)

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

### ADA (American Dental Association)

211 East Chicago Avenue, Chicago, IL 60611-2678 p: (312) 587-4129 w: [www.ada.org](http://www.ada.org)

#### ***Reaffirmation***

BSR/ADA Standard No. 1058-2010 (R202x), Forensic Dental Data Set (reaffirmation of ANSI/ADA Standard No. 1058-2010 (R2015))

The purpose of this standard is to develop uniform nomenclature for the description of forensic dental data and to define a standardized set of uniform terms to convey this information. The goal of the standard is not to define the extent of information collected, only to be certain that common terms are used in order to aid in identification of human remains or a living amnesiac.

Single copy price: \$25.00

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

Order from: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)

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

## Comment Deadline: October 5, 2020

### ADA (American Dental Association)

211 East Chicago Avenue, Chicago, IL 60611-2678 p: (312) 587-4129 w: [www.ada.org](http://www.ada.org)

#### **Reaffirmation**

BSR/ADA Standard No. 1079-2015 (R202x), Standard Content of Electronic Attachments for Dental Claims (reaffirmation of ANSI/ADA Standard No. 1079-2015)

This standard describes content for dental electronic claims attachments submitted to third-party payers. The standard describes uses for SNODENT terminology and ICD diagnosis codes as they apply to predetermination and/or claims for actual dental services.

Single copy price: \$25.00

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

Order from: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)

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

### ADA (American Dental Association)

211 East Chicago Avenue, Chicago, IL 60611-2678 p: (312) 587-4129 w: [www.ada.org](http://www.ada.org)

#### **Reaffirmation**

BSR/ADA Standard No. 131-2015 (R202x), Dental CAD/CAM Machinable Zirconia Blanks (reaffirmation of ANSI/ADA Standard No. 131-2015)

This standard specifies requirements and test methods for partially stabilized zirconia materials used for the fabrication of dental fixed restorations.

Single copy price: \$25.00

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

Order from: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)

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

### ADA (American Dental Association)

211 East Chicago Avenue, Chicago, IL 60611-2678 p: (312) 587-4129 w: [www.ada.org](http://www.ada.org)

#### **Reaffirmation**

BSR/ADA Standard No. 135-2015 (R202x), Denture Adhesives (reaffirm a national adoption ANSI/ADA No. 135-2015)

This standard specifies requirements and test methods for denture adhesives for use by the public, and for the instructions to be supplied for their use.

Single copy price: \$25.00

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

Order from: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)

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

### ADA (American Dental Association)

211 East Chicago Avenue, Chicago, IL 60611-2678 p: (312) 587-4129 w: [www.ada.org](http://www.ada.org)

#### **Reaffirmation**

BSR/ADA Standard No. 151-2015 (R202x), Screening Method for Erosion Potential of Oral Rinses on Dental Hard Tissue (reaffirm a national adoption ANSI/ADA Standard No. 151-2015)

This standard specifies a screening method for the erosion potential of non-fluoridated oral rinses on dental hard tissues.

Single copy price: \$25.00

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

Order from: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)

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



## Comment Deadline: October 5, 2020

### ADA (American Dental Association)

211 East Chicago Avenue, Chicago, IL 60611-2678 p: (312) 587-4129 w: [www.ada.org](http://www.ada.org)

#### **Reaffirmation**

BSR/ADA Standard No. 37-2001 (R202x), Dental Abrasive Powders (reaffirmation of ANSI/ADA Standard No. 37-2001 (R2015))

This standard provides requirements and test methods for powdered abrasive materials used in dentistry for removing stains and gross scratches from natural tooth structures and prostheses, but not including materials used in laboratory blasting processes.

Single copy price: \$25.00

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

Order from: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)

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

### ADA (American Dental Association)

211 East Chicago Avenue, Chicago, IL 60611-2678 p: (312) 587-4129 w: [www.ada.org](http://www.ada.org)

#### **Reaffirmation**

BSR/ADA Standard No. 62-2005 (R202x), Dental Abrasive Pastes (reaffirmation of ANSI/ADA Standard No. 62-2005 (R2015))

This standard provides requirements and test methods for in-office abrasive pastes used in dentistry for removing stains and other exogenous materials from natural tooth structures and prostheses.

Single copy price: \$25.00

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

Order from: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)

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

### ADA (American Dental Association)

211 East Chicago Avenue, Chicago, IL 60611-2678 p: (312) 587-4129 w: [www.ada.org](http://www.ada.org)

#### **Withdrawal**

ANSI/ADA Standard No. 17-1983 (R2014), Denture Base Temporary Relining Resins (withdrawal of ANSI/ADA Standard No. 17-1983 (R2014))

This standard has been replaced by ANSI/ADA Standard No. 139:2020, Dental Base Polymers.

Single copy price: \$25.00

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

Order from: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)

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

### ADA (American Dental Association)

211 East Chicago Avenue, Chicago, IL 60611-2678 p: (312) 587-4129 w: [www.ada.org](http://www.ada.org)

#### **Withdrawal**

ANSI/ADA Standard No. 23-1982 (R2015), Dental Excavating Burs (withdrawal of ANSI/ADA Standard No. 23-1982 (R2015))

This standard will be replaced by Proposed ADA Standard No. 180 for Test Methods for Dental Rotary Instruments, and Proposed ADA Standard No. 181 for Dental Rotary Bur Instruments - Part 1: Steel and Carbide Burs.

Single copy price: \$25.00

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

Order from: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)

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

## Comment Deadline: October 5, 2020

### ADA (American Dental Association)

211 East Chicago Avenue, Chicago, IL 60611-2678 p: (312) 587-4129 w: [www.ada.org](http://www.ada.org)

#### **Withdrawal**

ANSI/ADA Standard No. 48-2-2009 (R2015), LED Curing Lights (withdrawal of ANSI/ADA Standard No. 48-2-2009 (R2015))

This standard has been replaced by ANSI/ADA Standard No. 48:2020, Curing Lights (Powered Polymerization Activators)

Single copy price: \$25.00

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

Order from: Paul Bralower (312) 587-4129 [bralowerp@ada.org](mailto:bralowerp@ada.org)

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

### ASTM (ASTM International)

100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 p: (610) 832-9744 w: [www.astm.org](http://www.astm.org)

#### **Revision**

BSR/ASTM E2886/E2886M-202x, Test Method for Evaluating the Ability of Exterior Vents to Resist the Entry of Embers and Direct Flame Impingement (revision of ANSI/ASTM E2886/E2886M-2014)

This test method evaluates the ability of exterior vents that mount vertically or horizontally to resist the entry of embers and flame penetration through the vent.

Single copy price: Free

Obtain an electronic copy from: [lklineburger@astm.org](mailto:lklineburger@astm.org)

Order from: [accreditation@astm.org](mailto:accreditation@astm.org)

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

### AWEA (American Wind Energy Association)

1501 M Street, NW, , Suite 1000, Washington, DC 20005 p: (202) 383-2500 w: [www.awea.org](http://www.awea.org)

#### **New Standard**

BSR/AWEA 101-1-202x, AWEA Small Wind Turbine Standard (new standard)

The goal of this standard is to provide meaningful criteria upon which to assess the quality of the engineering that has gone into a small wind turbine and to provide consumers with performance data that will help them make informed purchasing decisions and an assurance that a turbine has been certified to a national standard. The standard is intended to be written to ensure the quality of the product can be assessed while imposing only reasonable costs and difficulty on the manufacturer to comply with the standard.

Single copy price: \$Draft is available free of charge..00

Obtain an electronic copy from: <https://www.awea.org/resources/standards/public-comment>

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: <https://www.awea.org/resources/standards/public-comment>

### AWS (American Welding Society)

8669 NW 36th Street, # 130, Miami, FL 33166 p: (305) 443-9353 301 w: [www.aws.org](http://www.aws.org)

#### **New National Adoption**

BSR/AWS A5.10/A5.10M-2021 (ISO 18273-202x MOD), Specification for Bare Aluminum and Aluminum-Alloy Welding Electrodes and Rods (national adoption of ISO 18273:2015 MOD with modifications and revision of ANSI/AWS A5.10/A5.10M-2016 (ISO 18273-2004 MOD))

This specification prescribes requirements for the classification of bare, wrought, and cast aluminum-alloy electrodes and rods for use with the gas metal arc, gas tungsten arc, oxyfuel gas, and plasma arc welding processes. This specification makes use of both U.S. Customary Units and the International System of Units (SI). Since these are not equivalent, each system must be used independently of the other.

Single copy price: \$36.00

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [gupta@aws.org](mailto:gupta@aws.org)

## Comment Deadline: October 5, 2020

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

6666 W. Quincy Ave., Denver, CO 80235 p: (303) 347-6178 w: [www.awwa.org](http://www.awwa.org)

#### **Revision**

BSR/AWWA C203-202x, Coal-Tar Protective Coatings and Linings for Steel Water Pipe (revision of ANSI/AWWA C203-2015)

This standard provides the minimum requirements for coal-tar protective coatings and linings used in the water supply industry for buried steel water pipelines.

Single copy price: Free

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

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

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

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

6666 W. Quincy Ave., Denver, CO 80235 p: (303) 347-6178 w: [www.awwa.org](http://www.awwa.org)

#### **Revision**

BSR/AWWA G485-202x, Potable Reuse Program Operation and Management (revision of ANSI/AWWA G485-2018)

This standard describes the critical requirements for the effective operation and management of a potable reuse water program, including both direct potable reuse (DPR) and indirect potable reuse (IPR).

Single copy price: Free

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

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

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

### **BIFMA (Business and Institutional Furniture Manufacturers Association)**

678 Front Ave. NW, Grand Rapids, MI 49504 p: (616) 591-9798 w: [www.bifma.org](http://www.bifma.org)

#### **New Standard**

BSR/BIFMA X6.4-202x, Occasional-Use Seating (new standard)

This standard is intended to provide manufacturers, specifiers, and users with a common basis for evaluating the safety, durability, and structural adequacy of business and institutional occasional-use seating.

Single copy price: Free

Obtain an electronic copy from: [dpanning@bifma.org](mailto:dpanning@bifma.org)

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [dpanning@bifma.org](mailto:dpanning@bifma.org)

## Comment Deadline: October 5, 2020

### CSA (CSA America Standards Inc.)

8501 E. Pleasant Valley Road, Cleveland, OH 44131 p: (216) 524-4990 w: [www.csagroup.org](http://www.csagroup.org)

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

BSR/CSA HGV 4.4-202x, Gaseous hydrogen - Fuelling stations - Part 3: Valves (national adoption of ISO 19880-3:2018 with modifications and revision of ANSI/CSA HGV 4.4-2013 (R2018), ANSI/CSA HGV 4.6-2013 (R2018) and ANSI/CSA HGV 4.7-2013 (R2018))

The ISO Standard was developed using CSA Group seed documents, HGV 4.4, HGV 4.6, and HGV 4.7. The U.S. and Canada are adopting back the ISO International Standard with deviations necessary for safety. The Standard is an adoption with U.S. and Canadian deviations of the identically titled ISO Standard 19880-3 (first edition, 2018). This International Standard provides the requirements and test methods for safety performance of high-pressure gas valves that are used in gaseous hydrogen station of up to the H70 designation, and covers the following gas valves:

- check valve;
- excess flow valve;
- flow control valve;
- hose breakaway device;
- manual valve;
- pressure safety valve; and
- shut-off valve.

Single copy price: Free

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

Order from: David Zimmerman, (216) 524-4990, [ansi.contact@csagroup.org](mailto:ansi.contact@csagroup.org)

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

### IPC (IPC - Association Connecting Electronics Industries)

3000 Lakeside Drive, Suite 309-S, Bannockburn, IL 60015 p: (847) 597-2842 w: [www.ipc.org](http://www.ipc.org)

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

BSR/IPC 9257-202x, Requirements for Electrical Testing of Flexible Printed Electronics (new standard)

This document is intended to assist in selecting the test equipment, test parameters, test data, and fixturing required to perform electrical test(s) on flexible printed electronics.

Single copy price: Free

Obtain an electronic copy from: [JeanneCooney@ipc.org](mailto:JeanneCooney@ipc.org)

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [JeanneCooney@ipc.org](mailto:JeanneCooney@ipc.org)

### NEMA (ASC W1) (National Electrical Manufacturers Association)

1300 North 17th Street, Rosslyn, VA 22209 p: (703) 841-3278 w: [www.nema.org](http://www.nema.org)

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

BSR/NEMA/IEC 60974-2-202x, Arc Welding Equipment - Part 2: Liquid Cooling Systems (national adoption of IEC 60974-2, edition 4 with modifications and revision of ANSI/NEMA/IEC 60974-2-2008)

This part of IEC 60974 specifies safety and construction requirements for industrial and professional liquid cooling systems used in arc welding and allied processes to cool torches. This document is applicable to liquid cooling systems which are stand-alone (separate from the welding equipment) or built-in (housed in a single enclosure with other welding equipment). This document is not applicable to refrigerated cooling systems.

Single copy price: \$88.00

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## Comment Deadline: October 5, 2020

### **NEMA (ASC W1) (National Electrical Manufacturers Association)**

1300 North 17th Street, Rosslyn, VA 22209 p: (703) 841-3278 w: [www.nema.org](http://www.nema.org)

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

BSR/NEMA/IEC 60974-3-202x, Arc Welding Equipment - Part 3: Arc Striking and Stabilizing Devices (national adoption of IEC 60974-3, edition 4 with modifications and revision of ANSI/NEMA/IEC 60974-3-2008)

This part of IEC 60974 specifies safety requirements for industrial and professional arc striking and arc stabilizing devices used in arc welding and allied processes. This document is applicable to arc striking and stabilizing devices which are stand-alone (separate from the welding equipment) or built-in (housed in a single enclosure with other arc welding equipment).

Single copy price: \$88.00

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### **NEMA (ASC W1) (National Electrical Manufacturers Association)**

1300 North 17th Street, Rosslyn, VA 22209 p: (703) 841-3278 w: [www.nema.org](http://www.nema.org)

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

BSR/NEMA/IEC 60974-7-202x, Arc Welding Equipment - Part 7: Torches (national adoption of IEC 60974-7, edition 4 with modifications and revision of ANSI/NEMA/IEC 60974-7-2009)

This part of IEC 60974 specifies safety and construction requirements for torches used for arc welding and allied processes. This document is applicable to manual, mechanically guided, air-cooled, liquid-cooled, motorized, spool-on, and fume extraction torches.

Single copy price: \$101.00

Obtain an electronic copy from: [KHALED.MASRI@NEMA.ORG](mailto:KHALED.MASRI@NEMA.ORG)

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

140 Philips Rd, Exton, PA 19341 p: (800) 542-5040 w: [www.scte.org](http://www.scte.org)

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

BSR/SCTE 259-01-202x, Enterprise SIP Gateway Specification (new standard)

This specification defines the requirements for the PacketCable 2.0 Enterprise SIP Gateway (ESG) device. The primary purpose of the ESG is to simplify and streamline the initial deployment and ongoing management of Business Voice services to enterprise customers. The ESG sits at the boundary between the Service Provider and Enterprise network and serves as a demarcation point between these two networks. It normalizes the wide variety of SIP (Session Initiation Protocol) signaling protocols supported by currently deployed enterprise CPE (Customer Premises Equipment) equipment into a single well-defined interface that is compatible with the PacketCable network. It also provides enhanced fault detection and reporting capabilities that speed up the detection, isolation, and resolution of service-affecting failures. Finally, the ESG can act as a Gateway device for provisioning traffic between the Service Provider network and operator-owned and managed Enterprise CPE equipment.

Single copy price: \$50.00

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

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

140 Philips Rd, Exton, PA 19341 p: (800) 542-5040 w: [www.scte.org](http://www.scte.org)

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

BSR/SCTE 259-02-202x, PacketCable High Definition Voice Specification (new standard)

This specification includes High Definition (HD) Voice requirements for PacketCable 1.5 and PacketCable 2.0 networks. The PacketCable specifications leverage Digital Enhanced Cordless Telephone (DECT™) and wideband analog interface technologies to incorporate HD Voice. A minimum set of DECT capabilities for HD Voice service is identified.

Single copy price: \$50.00

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

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

BSR/SCTE 259-03-202x, HDV NCS Specification (new standard)

This specification includes High Definition (HD) Voice requirements for PacketCable 1.5 networks. PacketCable leverages Digital Enhanced Cordless Telephone (DECT™) specifications and wideband analog interface technologies to incorporate HD Voice. This specification defines the interoperability requirements between PacketCable 1.5 Network-based Call Signaling [NCS] and DECT protocols. Additional requirements, including requirements for the wideband analog interface, are contained in the PacketCable High Definition Voice with DECT Specification [HDV].

Single copy price: \$50.00

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

BSR/SCTE 259-04-202x, HDV Provisioning Specification (new standard)

This document specifies the use of the PacketCable Provisioning Framework to configure and manage PacketCable HD Voice capable clients. The PacketCable specifications leverage Digital Enhanced Cordless Telephone (DECT™) and Wideband Analog interface technologies to support HD Voice.

Single copy price: \$50.00

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

140 Philips Rd, Exton, PA 19341 p: (800) 542-5040 w: [www.scte.org](http://www.scte.org)

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

BSR/SCTE 259-05-202x, HDV SIP Specification (new standard)

This document specifies the requirements for implementing HD Voice services on the PacketCable infrastructure. It focuses on the functional specification of PacketCable client devices that extend the standard telephony functions to include: (a) DECT-based cordless telephony interface; (b) Support for wideband voice; and (c) Interactions between the DECT cordless handsets and analog phones.

Single copy price: \$50.00

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

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#### **Revision**

BSR/SCTE 54-202x, Digital Video Service Multiplex and Transport System Standard for Cable Television (revision of ANSI/SCTE 54-2015)

This document describes the transport subsystem characteristics and normative specifications of the inband Service Multiplex and Transport Subsystem Standard for Cable Television.

Single copy price: \$50.00

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#### **Revision**

BSR/SCTE 165-10-202x, IPCablecom 1.5 Part 10: Security (revision of ANSI/SCTE 165-10-2009)

The scope of this document is to define the IPCablecom Security architecture, protocols, algorithms, associated functional requirements and any technological requirements that can provide for the security of the system for the IPCablecom network. Authentication, access control, signaling and media content integrity, confidentiality, and nonrepudiation security services must be provided as defined in this standard for each of the network element interfaces.

Single copy price: \$50.00

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

15 Technology Parkway South, Suite 115, Peachtree Corners, GA 30092 p: (770) 209-7249 w: [www.tappi.org](http://www.tappi.org)

#### **New Standard**

BSR/TAPPI T 549 om-202x, Coefficients of Static and Kinetic Friction of Uncoated Writing and Printing Paper by Use of the Horizontal Plane Method (new standard)

This method describes a horizontal plane procedure for the determination of the coefficient of static and kinetic friction of paper measured when sliding against itself. The horizontal instrument requires some means of movement of the specimen in relation to the surface upon which it rests. The coefficient of friction (COF) is measured directly from the resistance to tangential motion and the applied weight pressing two pieces of paper together. Static COF relates to the force required to initiate movement between two surfaces while kinetic COF relates to the force required to cause continuation of the movement at uniform speed. The determinations of COF for packaging materials is described in TAPPI T 815 "Coefficient of Static Friction (Slide Angle) of Packaging and Packaging Materials (Including Shipping Sack Papers, Corrugated and Solid Fiberboard) (Inclined Plane Method)." In the method for testing packaging materials, the force measurement is often made on the third slip, while in this method the determination is made on the first slip.

Single copy price: Free

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15 Technology Parkway South, Suite 115, Peachtree Corners, GA 30092 p: (770) 209-7249 w: [www.tappi.org](http://www.tappi.org)

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

BSR/TAPPI T 553 om-202x, Alkalinity of Paper as Calcium Carbonate (Alkaline Reserve of Paper) (new standard)

This test method covers the determination of the alkalinity or alkaline reserve of paper, or both. A qualitative test is described that indicates the presence of carbonate. (The detection limit is approximately 5% calcium carbonate.) A quantitative test is described that determines the alkalinity expressed as percent calcium carbonate or alkaline reserve, or both, expressed as moles per kilogram of paper.

Single copy price: Free

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

BSR/TAPPI T 567 om-202x, Determination of Effective Residual Ink Concentration (ERIC) by Infrared Reflectance Measurement (new standard)

This method provides a means for determining the Effective Residual Ink Concentration (ERIC) in de-inked pulp and paper made from recycled feedstock. The presence of ink influences the brightness and color of recycled paper. Trace amounts of residual ink can leave recycled paper darker and grayer than paper made from virgin pulp; however, deliberate bleaching or incidental bleaching by de-inking chemicals can recover some brightness loss if most of the ink has been removed. Counteracting the tinting power of residual ink can be easier if one can monitor the effective concentration of the ink. Brightness is not only affected by the presence of ink but also by other absorbers of visible wavelengths of light such as lignin and dye. For this reason, brightness has been found to be an ineffective way to monitor the de-inking process. The ERIC method employs reflectance measurements in the infrared region of the spectrum where the absorption coefficient for the ink is several orders of magnitude greater than the absorption coefficient for the fiber and other components, resulting in a sensitive means for determining the concentration of ink. The ERIC measurement is dependent on the distribution of ink particle sizes and is most effective for submicron particles.

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

BSR/TAPPI T 580 om-202x, Thickness (Caliper) of Towel, Tissue, Napkin and Facial Products (new standard)

This method describes the procedure for measuring bulking thickness and variations in tissue paper and tissue products. This test method uses a relatively low pressure 2 kPa (0.3 psi) because of the collapsible structure of tissue paper. TAPPI T 411 "Thickness (caliper) of paper, paperboard, and combined board" uses a relatively high pressure 50 kPa (7.3 psi). An essentially identical method is described in ISO 12625-3 "Tissue paper and tissue products - Part 3: Determination of thickness, bulking thickness and apparent bulk density."

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15 Technology Parkway South, Suite 115, Peachtree Corners, GA 30092 p: (770) 209-7249 w: [www.tappi.org](http://www.tappi.org)

#### **Reaffirmation**

BSR/TAPPI T 401 om-2015 (R202x), Fiber Analysis of Paper and Paperboard (reaffirmation of ANSI/TAPPI T 401 om-2015)

This method provides a procedure for the identification of the kinds of fibers present in a sample of paper or paperboard and their quantitative estimation. This method requires the analyst be skillful and experienced in the field of pulp and paper microscopy. The analyst must make frequent use of standard samples of known fiber composition or of authentic fiber samples and must become thoroughly familiar with the appearance of the different fibers and their behavior when treated with the various stains. Morphological characteristics help identify special fibers such as straw, flax, esparto, soft woods, such as southern pine, Douglas fir, western hemlock, and various species of hardwoods, so that the correct weight factors may be applied. A knowledge of morphological characteristics of the different fibers is essential for their identification. More information on this subject is given in the Appendices. It is reported that fiber analysis in highly refined or secondary fiber sheets is very difficult to perform.

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#### **Reaffirmation**

BSR/TAPPI T 480 om-2015 (R202x), Specular Gloss of Paper and Paperboard at 75 Degrees (reaffirmation of ANSI/TAPPI T 480 om-2015)

This method is for measuring the specular gloss of paper at 75° (15° from the plane of paper). Although its chief application is for coated papers, it is also used for a variety of uncoated papers. This method is suitable for low- to high-gloss papers. For very high-gloss papers such as cast-coated, lacquered, highly varnished, or waxed papers, and high-gloss ink films, TAPPI T 653 "Specular Gloss of Paper and Paperboard at 20 Degrees" is preferred. T 480 has been shown to be suitable for gloss measurements of most ink films on paper or paperboard. Differences in the color and diffuse reflectance of these ink films have a negligible effect on measured gloss. For example, when white and black surfaces which are otherwise identical are tested, the white surface will measure less than one gloss unit higher than the black. This method does not measure image-reflecting quality.

Single copy price: Free

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15 Technology Parkway South, Suite 115, Peachtree Corners, GA 30092 p: (770) 209-7249 w: [www.tappi.org](http://www.tappi.org)

#### **Reaffirmation**

BSR/TAPPI T 511 om-2013 (R202x), Folding Endurance of Paper (MIT Tester) (reaffirmation of ANSI/TAPPI T 511 om-2013)

This method describes the use of the MIT-type apparatus for the determination of the folding endurance of paper. An exhaust fan arrangement maintains the folding head at room temperature. The MIT tester is suitable for papers of any thickness; however, if the outer fibrous layers of paper thicker than about 0.25 mm (0.01 in.) rupture during the first few folds, the test loses its significance. The procedure for the Schopper-type apparatus is given in TAPPI T 423 "Folding Endurance of Paper (Schopper-Type Tester)."

Single copy price: Free

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## Comment Deadline: October 5, 2020

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

15 Technology Parkway South, Suite 115, Peachtree Corners, GA 30092 p: (770) 209-7278 w: [www.tappi.org](http://www.tappi.org)

#### **Reaffirmation**

BSR/TAPPI T 524 om-2013 (R202x), Color of Paper and Paperboard (45/0, C/2) (reaffirmation of ANSI/TAPPI T 524 om-2013)

This method specifies a procedure for measuring the color of paper or paperboard with tristimulus filter colorimeters or spectrophotometers incorporating directional (45/0) geometry and CIE (International Commission on Illumination) illuminant C.

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#### **Reaffirmation**

BSR/TAPPI T 558 om-2010 (R202x), Surface Wettability and Absorbency of Sheeted Materials Using an Automated Contact Angle Tester (reaffirmation of ANSI/TAPPI T 558 om-2010 (R2015))

The property of a liquid to adhere to, or "wet," a sheeted surface, or to be absorbed by that surface, or both, is important in many aspects of paper manufacturing and converting, as well as in the end use applications of many converted paper products. This test method is an automated approach to contact angle measurement applicable to a wide range of sheeted materials and liquids where interfacial contact angles range from near zero to near 180°.

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### UL (Underwriters Laboratories)

333 Pfingsten Road, Northbrook, IL 60062 p: (847) 664-3198 w: <https://ul.org/>

#### **New National Adoption**

BSR/UL 62841-2-3-202x, Standard for Safety for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 2-3: Particular Requirements for Hand-Held Grinders, Disc-Type Polishers and Disc-Type Sanders (identical national adoption of IEC 62841-2-3)

(1) Proposed adoption of the first edition of IEC 62841-2-3, Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools And Lawn and Garden Machinery - Safety - Part 2-3: Particular Requirements for Hand-Held Grinders, Disc-Type Polishers and Disc-Type Sanders, as the first edition of UL 62841-2-3.

Single copy price: Free

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## Comment Deadline: October 5, 2020

### UL (Underwriters Laboratories)

333 Pfingsten Road, Northbrook, IL 60062 p: (847) 664-3198 w: <https://ul.org/>

#### **Reaffirmation**

BSR/UL 962-2019 (R202x), Standard for Safety for Household and Commercial Furnishings (reaffirmation of ANSI/UL 962-2019)

(1) Proposed addition of requirements for furnishings with plumbing fixtures and rooms or booths with a ceiling; (2) Proposed addition of alternate control requirements for Area III, Alternate Low-Voltage Locked Rotor Test, Clarification of Safety Control Requirements, and Clarification of Partial Loading for Stability Testing; (3) Proposed addition of new service area requirements; (4) Proposed addition of definitions for receptacles and revision to the overcurrent protection requirements; (12) Proposed revisions to Paragraph 6.1 to clarify the exception allowing for shipment of furnishings pre-wired with electrical connections made by connectors.

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### UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 p: (919) 549-0973 w: <https://ul.org/>

#### **Revision**

Reaffirmations and withdrawals available electronically may be accessed at: [webstore.ansi.org](http://webstore.ansi.org)

BSR/UL 1254-202X, Standard for Pre-Engineered Dry and Wet Chemical Extinguishing System Units (revision of ANSI/UL 1254-2018)

UL proposes a revision to the Nameplate Abrasion Test.

Single copy price: Free

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#### **Revision**

Reaffirmations and withdrawals available electronically may be accessed at: [webstore.ansi.org](http://webstore.ansi.org)

BSR/UL 2166-202X, Standard for Halocarbon Clean Agent Extinguishing System Units (revision of ANSI/UL 2166-2020)

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

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

Send comments (with optional copy to [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:

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201 p: 703-600-0327 w: [www.ahrinet.org](http://www.ahrinet.org)

BSR/AHRI Standard 270, Sound Performance Rating of Outdoor Unitary Equipment (revision of ANSI/AHRI Standard 270-2008)

Inquiries may be directed to Kristin Carlson, 703-600-0327, [kcarlson@ahrinet.org](mailto:kcarlson@ahrinet.org)

## Project Withdrawn

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201 p: 703-600-0327 w: [www.ahrinet.org](http://www.ahrinet.org)

BSR/AHRI Standard 270-202x, Sound Performance Rating of Outdoor Unitary Equipment (new standard)

Inquiries may be directed to Kristin Carlson, 703-600-0327, [kcarlson@ahrinet.org](mailto:kcarlson@ahrinet.org)

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201 p: 703-600-0327 w: [www.ahrinet.org](http://www.ahrinet.org)

BSR/AHRI Standard 350-199x, Sound Rating of Non-Ducted Indoor Air-Conditioning Equipment (new standard)

Inquiries may be directed to Kristin Carlson, 703-600-0327, [kcarlson@ahrinet.org](mailto:kcarlson@ahrinet.org)

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201 p: 703-600-0327 w: [www.ahrinet.org](http://www.ahrinet.org)

BSR/AHRI Standard 441P (SI)-202x, Performance Rating of Room Fan-Coils (new standard)

Inquiries may be directed to Kristin Carlson, 703-600-0327, [kcarlson@ahrinet.org](mailto:kcarlson@ahrinet.org)

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201 p: 703-600-0327 w: [www.ahrinet.org](http://www.ahrinet.org)

BSR/AHRI Standard 570P-202x, Performance Rating of Positive Displacement Carbon Dioxide Refrigerant Compressors and Compressor Units (new standard)

Inquiries may be directed to Kristin Carlson, 703-600-0327, [kcarlson@ahrinet.org](mailto:kcarlson@ahrinet.org)

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201 p: 703-600-0327 w: [www.ahrinet.org](http://www.ahrinet.org)

BSR/AHRI Standard 715-200x, Performance Rating of Liquid-Line Filters (new standard)

Inquiries may be directed to Kristin Carlson, 703-600-0327, [kcarlson@ahrinet.org](mailto:kcarlson@ahrinet.org)

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201 p: 703-600-0327 w: [www.ahrinet.org](http://www.ahrinet.org)

BSR/AHRI Standard 840-200x, Unit Ventilators (new standard)

Inquiries may be directed to Kristin Carlson, 703-600-0327, [kcarlson@ahrinet.org](mailto:kcarlson@ahrinet.org)

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201 p: 703-600-0327 w: [www.ahrinet.org](http://www.ahrinet.org)

BSR/AHRI Standard 1140P-200x, Procedures for Evaluating Sound Quality of HVAC Equipment (new standard)

Inquiries may be directed to Kristin Carlson, 703-600-0327, [kcarlson@ahrinet.org](mailto:kcarlson@ahrinet.org)

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201 p: 703-600-0327 w: [www.ahrinet.org](http://www.ahrinet.org)

BSR/AHRI Standard 1211 (SI)-202x with Addendum 1, Performance Rating of Variable Frequency Drives (revision and redesignation of ANSI/AHRI Standard 1211-2011)

Inquiries may be directed to Kristin Carlson, 703-600-0327, [kcarlson@ahrinet.org](mailto:kcarlson@ahrinet.org)

## Project Withdrawn

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201 p: 703-600-0327 w: [www.ahrinet.org](http://www.ahrinet.org)

BSR/AHRI Standard 810-2007 with Addendum 1-202x, Performance Rating of Automatic Commercial Ice-Makers (new standard)

Inquiries may be directed to Kristin Carlson, 703-600-0327, [kcarlson@ahrinet.org](mailto:kcarlson@ahrinet.org)

## Notice of Withdrawn ANS by an ANSI-Accredited Standards Developer

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

### **ISEA (International Safety Equipment Association)**

1901 North Moore Street, Suite 808, Arlington, VA 22209 p: (703) 525-1695 w: [www.safetysystem.com](http://www.safetysystem.com)

ANSI/ISEA 102-1990 (R2015), Gas Detector Tube Units - Short Term Type for Toxic Gases and Vapors in Working Environments

Questions may be directed to: Cristine Fargo, (703) 525-1695, [cfargo@safetysystem.com](mailto:cfargo@safetysystem.com)

### **UL (Underwriters Laboratories)**

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 p: (919) 549-1460 w: <https://ul.org/>

ANSI/UL 1177-2011 (R2015), The Standard for Safety for Buoyant Vests

Questions may be directed to: Deborah Prince, (919) 549-1460, [Deborah.Prince@ul.org](mailto:Deborah.Prince@ul.org)

### **UL (Underwriters Laboratories)**

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 p: (919) 549-1460 w: <https://ul.org/>

ANSI/UL 1197-2013, Standard for Safety for Immersion Suits

Questions may be directed to: Deborah Prince, (919) 549-1460, [Deborah.Prince@ul.org](mailto:Deborah.Prince@ul.org)

# Call for Members (ANS Consensus Bodies)

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

---

## **ABMA (ASC B3) (American Bearing Manufacturers Association)**

**Contact:** Amir Aboutaleb

1001 N. Fairfax Street, Suite 500

Alexandria, VA 22314

p: (703) 838-0053

e: aboutaleb@agma.org

ANSI B3.1-1992 (S2020), Rolling Element Bearings - Aircraft Engine, Engine Gearbox, and Accessory Applications - Eddy Current Inspection (stabilized maintenance of ANSI B3.1-1992 (R2008))

ANSI B3.2-1992 (S2020), Rolling Element Bearings - Aircraft Engine, Engine Gearbox, and Accessory Applications - Surface Visual Inspection (stabilized maintenance of ANSI B3.2-1992 (R2008))

ANSI B3.3-1992 (S2020), Rolling Element Bearings - Aircraft Engine, Engine Gearbox, and Accessory Applications - Surface Temper Etch (stabilized maintenance of ANSI B3.3-1992 (R2008))

ANSI/ABMA 8.1-1990 (S2020), Ball and Roller Bearing Mounting Accessories - Metric Design (stabilized maintenance of ANSI/ABMA 8.1-1990 (R2008))

ANSI/ABMA 8.2-1999 (S2020), Ball and Roller Bearing Mounting Accessories - Inch Design (stabilized maintenance of ANSI/ABMA 8.2-1999 (R2008))

ANSI/ABMA 12.1-1992 (S2020), Instrument Ball Bearings - Metric Design (stabilized maintenance of ANSI/ABMA 12.1-1992 (R2008))

ANSI/ABMA 12.2-1992 (S2020), Instrument Ball Bearings - Inch Design (stabilized maintenance of ANSI/ABMA 12.2-1992 (R2008))

ANSI/ABMA 14-1995 (S2020), Housings for Bearings with Spherical Outside Surfaces (stabilized maintenance of ANSI/ABMA 14-1995 (R2008))

ANSI/ABMA 15-1991 (S2020), Ball Bearings with Spherical Outside Surfaces and Extended Inner Ring Width (Includes Eccentric Locking Collars) (stabilized maintenance of ANSI/ABMA 15-1991 (R2008))

ANSI/ABMA 21.1-1988 (S2020), Thrust Needle Roller and Cage Assemblies and Thrust Washers - Metric Design (stabilized maintenance of ANSI/ABMA 21.1-1988 (R2009))

ANSI/ABMA 21.2-1988 (S2020), Thrust Needle Roller and Cage Assemblies and Thrust Washers - Inch Design (stabilized maintenance of ANSI/ABMA 21.2-1988 (R2008))

ANSI/ABMA 22.2-1988 (S2020), Spherical Plain Radial Bearings, Joint Type - Inch Design (stabilized maintenance of ANSI/ABMA 22.2-1988 (R2008))

ANSI/ABMA 23.2-1988 (S2020), Thrust Bearings of Tapered Roller Type - Inch Design (stabilized maintenance of ANSI/ABMA 23.2-1988 (R2008))

ANSI/ABMA 24.1-1989 (S2020), Thrust Bearings of Ball, Cylindrical Roller and Spherical Roller Types - Metric Design (stabilized maintenance of ANSI/ABMA 24.1-1989 (R2008))

ANSI/ABMA 24.2-1989 (S2020), Thrust Bearings of Ball and Cylindrical Roller Types - Inch Design (stabilized maintenance of ANSI/ABMA 24.2-1989 (R2008))

ANSI/ABMA 25.2-1990 (S2020), Rolling Bearings, Linear Motion Recirculating Ball, Sleeve Type - Inch Series (stabilized maintenance of ANSI/ABMA 25.2-1990 (R2008))

# Call for Members (ANS Consensus Bodies)

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

---

## **AWEA (American Wind Energy Association)**

**Contact:** Michele Mihelic  
1501 M Street, NW, , Suite 1000  
Washington, DC 20005  
p: (202) 383-2500  
e: standards@awea.org

BSR/AWEA 101-1-202x, AWEA Small Wind Turbine Standard  
(new standard)

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

**Contact:** Christina Earl  
7900 Turin Rd., Bldg. 3  
Rome, NY 13440  
p: (315) 339-6937  
e: cearl@esda.org

BSR/ESD SP17.1-202x, ESD Association Standard Practice for the  
Protection of Electrostatic Discharge Susceptible Items -  
Process Assessment Techniques (new standard)

## **NEMA (ASC W1) (National Electrical Manufacturers Association)**

**Contact:** Khaled Masri  
1300 North 17th Street  
Rosslyn, VA 22209  
p: (703) 841-3278  
e: Khaled.Masri@nema.org

BSR/NEMA/IEC 60974-2-202x, Arc Welding Equipment - Part 2:  
Liquid Cooling Systems (national adoption of IEC 60974-2,  
edition 4 with modifications and revision of ANSI/NEMA/IEC  
60974-2-2008)

## **NSF (NSF International)**

**Contact:** Jason Snider  
789 N. Dixboro Road  
Ann Arbor, MI 48105-9723  
p: (734) 418-6660  
e: jsnider@nsf.org

BSR/NSF 46-202x (i34r1), Evaluation of Components and Devices  
Used in Wastewater Treatment Systems (revision of ANSI/NSF  
46-2018)

BSR/NSF 50-202x (i167r1), Equipment and Chemicals for  
Swimming Pools, Spas, Hot Tubs, and Other Recreational  
Water Facilities (revision of ANSI/NSF 50-2019)

**Contact:** Rachel Brooker  
789 N. Dixboro Road  
Ann Arbor, MI 48105-9723  
p: (734) 827-6866  
e: rbrooker@nsf.org

BSR/NSF 455-4-202x (i14r2), Good Manufacturing Practices for  
Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

# Call for Members (ANS Consensus Bodies)

## Call for Committee Members

### ACH Automated Component Handling Committee

Are you interested in contributing to the development and maintenance of valuable industry standards on tape, reels, magazines, trays, etc. for handling components in production? This committee also provides technical input to US national positions on related international standards issues and proposals. Although all interest categories are welcome, the ACH Committee is actively soliciting members in the following category to achieve Committee balance:

- General Interest (*The category is open to, but is not limited to, regulatory agencies (state and federal), researchers, academia, other organizations and associations, and end users.*)

If you are interested in joining the Automated Component Handling Committee, please contact Edward F. Mikoski, Jr, ECIA Vice President of Standards and Technology at <mailto:emikoski@ecianow.org>.



## **Call for Members (ANS Consensus Bodies)**

### **Call for Committee Members**

#### **ASC O1 – Safety Requirements for Woodworking Machinery**

Are you interested in contributing to the development and maintenance of valuable industry safety standards? The ASC O1 is currently looking for members in the following categories:

- General Interest
- Government
- Producer
- User

If you are interested in joining the ASC O1, contact WMMA Associate Director Jennifer Miller at [jennifer@wmma.org](mailto:jennifer@wmma.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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## AAFS (American Academy of Forensic Sciences)

### *New Standard*

ANSI/ASB Std 053-2020, Standard for Report Content in Forensic Toxicology (new standard): 8/17/2020

## ASME (American Society of Mechanical Engineers)

### *Revision*

ANSI/ASME Y14.1-2020, Drawing Sheet Size and Format (revision and redesignation of ANSI/ASME Y14.1-2012, ANSI/ASME Y14.1M-2012): 8/14/2020

## AWWA (American Water Works Association)

### *Revision*

ANSI/AWWA G480-2020, Water Conservation and Efficiency Program Operation and Management (revision of ANSI/AWWA G480-2013): 8/14/2020

## ESTA (Entertainment Services and Technology Association)

### *Revision*

ANSI E1.6-2-2020, Entertainment Technology - Design, Inspection, and Maintenance of Electric Chain Hoists for the Entertainment Industry (revision of ANSI E1.6-2-2018): 8/14/2020

## HPVA (Hardwood Plywood Veneer Association)

### *Revision*

ANSI/HPVA EF-2020, The Standard for Engineered Wood Flooring (revision of ANSI/HPVA EF-2012): 8/14/2020

ANSI/HPVA HP-1-2020, Standard for Hardwood and Decorative Plywood (revision of ANSI/HPVA HP-1-2016): 8/17/2020

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

### *New Standard*

ANSI/IAPMO ES1000-2020, Spray-Applied Polyurethane Foam (new standard): 8/14/2020

### *Reaffirmation*

ANSI/IAPMO S1001.4-2015 (R2020), Energy Production Rating of Solar Heating Collectors (reaffirmation of ANSI/IAPMO S1001.4-2015): 8/17/2020

## ISA (International Society of Automation)

### *New Standard*

ANSI/ISA 62443-3-2-2020, Security for industrial automation and control systems, Part 32: Security risk assessment and system design (new standard): 8/11/2020

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

### *Revision*

ANSI ICEA P-79-561-2020, Guide for Selecting Aerial Cable Messengers and Lashing Wires (revision of ANSI/ICEA P-79-561-2008 (R2018)): 8/14/2020

## NSF (NSF International)

### *Revision*

ANSI/NSF 42-2020 (i105r1), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42-2019): 8/16/2020

ANSI/NSF 53-2020 (i123r1), Drinking Water Treatment Units - Health Effects (revision of ANSI/NSF 53-2019): 8/16/2020

ANSI/NSF 244-2020 (i9r1), Supplemental Microbiological Water Treatment Systems - Filtration (revision of ANSI/NSF 244-2019): 8/16/2020

ANSI/NSF 350-2020 (i51r1), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2019): 8/11/2020

ANSI/NSF 401-2020 (i17r1), Drinking Water Treatment Units - Emerging Compounds/Incidental Contaminants (revision of ANSI/NSF 401-2019): 8/16/2020

## UL (Underwriters Laboratories)

### *Reaffirmation*

ANSI/UL 4703-2014 (R2020), Standard for Safety for Photovoltaic Wire (reaffirmation of ANSI/UL 4703-2014): 7/21/2020

ANSI/UL 60079-31-2015 (R2020), Standard for Safety for Explosive Atmospheres - Part 31: Equipment Dust Ignition Protection by Enclosure "t" (reaffirm a national adoption ANSI/UL 60079-31-2015): 8/13/2020

### *Revision*

ANSI/UL 753-2020, Standard for Safety for Alarm Accessories for Automatic Water-Supply Control Valves for Fire-Protection Service (revision of ANSI/UL 753-2013 (R2018)): 8/12/2020

Final Actions on American National Standards

ANSI/UL 1247-2020a, Standard for Safety for Diesel Engines for Driving  
Stationary Fire Pumps (revision of ANSI/UL 1247-2020): 8/12/2020

ANSI/UL 1564-2020, Standard for Safety for Industrial Battery Chargers  
(revision of ANSI/UL 1564-2013 (R2017)): 8/11/2020

# American National Standards Maintained Under Continuous Maintenance

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

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

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

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

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

# ANSI-Accredited Standards Developers Contact Information

The addresses listed in this section are to be used in conjunction with standards listed in PINS, Call for Comment 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 Standards Action Editor at [standact@ansi.org](mailto:standact@ansi.org).

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## AAFS

American Academy of Forensic Sciences  
410 North 21st Street  
Colorado Springs, CO 80904  
p: (719) 453-1036  
[www.aafs.org](http://www.aafs.org)

## ADA (Organization)

American Dental Association  
211 East Chicago Avenue  
Chicago, IL 60611-2678  
p: (312) 587-4129  
[www.ada.org](http://www.ada.org)

## ASHRAE

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.  
1791 Tullie Circle, NE  
Atlanta, GA 30329  
p: (404) 636-8400  
[www.ashrae.org](http://www.ashrae.org)

## ASME

American Society of Mechanical Engineers  
Two Park Avenue  
M/S 6-2B  
New York, NY 10016-5990  
p: (212) 591-8489  
[www.asme.org](http://www.asme.org)

## ASTM

ASTM International  
100 Barr Harbor Drive  
West Conshohocken, PA 19428-2959  
p: (610) 832-9744  
[www.astm.org](http://www.astm.org)

## AWEA

American Wind Energy Association  
1501 M Street, NW,  
Suite 1000  
Washington, DC 20005  
p: (202) 383-2500  
[www.awea.org](http://www.awea.org)

## AWS

American Welding Society  
8669 NW 36th Street  
# 130  
Miami, FL 33166  
p: (305) 443-9353 301  
[www.aws.org](http://www.aws.org)

## AWWA

American Water Works Association  
6666 W. Quincy Ave.  
Denver, CO 80235  
p: (303) 347-6178  
[www.awwa.org](http://www.awwa.org)

## BIFMA

Business and Institutional Furniture Manufacturers Association  
678 Front Ave. NW  
Grand Rapids, MI 49504  
p: (616) 591-9798  
[www.bifma.org](http://www.bifma.org)

## CSA

CSA America Standards Inc.  
8501 E. Pleasant Valley Road  
Cleveland, OH 44131  
p: (216) 524-4990  
[www.csagroup.org](http://www.csagroup.org)

## EOS/ESD

ESD Association, Inc.  
7900 Turin Rd., Bldg. 3  
Rome, NY 13440  
p: (315) 339-6937  
[www.esda.org](http://www.esda.org)

## ESTA

Entertainment Services and Technology Association  
271 Cadman Plaza  
P.O. Box 23200  
Brooklyn, NY 11202-3200  
p: (212) 244-1505  
[www.esta.org](http://www.esta.org)

## HL7

Health Level Seven  
3300 Washtenaw Avenue  
Suite 227  
Ann Arbor, MI 48104  
p: (313) 550-2073 104  
[www.hl7.org](http://www.hl7.org)

## HPVA

Hardwood Plywood Veneer Association  
42777 Trade West Drive  
Sterling, VA 20166  
p: (703) 435-2900 127  
[www.DecorativeHardwoods.org](http://www.DecorativeHardwoods.org)

## IAPMO (Z)

International Association of Plumbing & Mechanical Officials  
5001 East Philadelphia Street  
Ontario, CA 91761  
p: (909) 230-5534  
<https://www.iapmostandards.org>

## IPC

IPC - Association Connecting Electronics Industries  
3000 Lakeside Drive  
Suite 309-S  
Bannockburn, IL 60015  
p: (847) 597-2842  
[www.ipc.org](http://www.ipc.org)

**ISA (Organization)**

International Society of  
Automation  
67 Alexander Drive  
Research Triangle Park, NC 27709  
p: (919) 990-9228  
[www.isa.org](http://www.isa.org)

**NECA**

National Electrical Contractors  
Association  
3 Bethesda Metro Center  
Suite 1100  
Bethesda, MD 20814  
p: (301) 215-4549  
[www.neca-neis.org](http://www.neca-neis.org)

**NEMA (ASC C8)**

National Electrical Manufacturers  
Association  
1300 North 17th Street  
Rosslyn, VA 22209  
p: (703) 841-3278  
[www.nema.org](http://www.nema.org)

**NEMA (ASC W1)**

National Electrical Manufacturers  
Association  
1300 North 17th Street  
Rosslyn, VA 22209  
p: (703) 841-3278  
[www.nema.org](http://www.nema.org)

**NSF**

NSF International  
789 N. Dixboro Road  
Ann Arbor, MI 48105-9723  
p: (734) 827-6866  
[www.nsf.org](http://www.nsf.org)

**SCTE**

Society of Cable  
Telecommunications Engineers  
140 Philips Rd  
Exton, PA 19341  
p: (800) 542-5040  
[www.scte.org](http://www.scte.org)

**TAPPI**

Technical Association of the Pulp  
and Paper Industry  
15 Technology Parkway South  
Suite 115  
Peachtree Corners, GA 30092  
p: (770) 209-7249  
[www.tappi.org](http://www.tappi.org)

**UL**

Underwriters Laboratories  
333 Pfingsten Road  
Northbrook, IL 60062  
p: (847) 664-3198  
<https://ul.org/>



# ISO & IEC Draft International Standards

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

## COMMENTS

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

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

## ORDERING INSTRUCTIONS

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

## ISO Standards

### ACOUSTICS (TC 43)

ISO/DIS 21955, Acoustics - Experimental method for transposition of dynamic forces generated by an active component from a test bench to a receiving structure - 10/19/2020, \$125.00

### AIRCRAFT AND SPACE VEHICLES (TC 20)

ISO/DIS 21849, Aircraft and space - Industrial data - Product identification and traceability - 11/5/2020, \$125.00

### ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

ISO/DIS 80601-2-90, Medical electrical equipment - Part 2-90: Particular requirements for basic safety and essential performance of ventilatory high-flow therapy equipment - 10/21/2020, \$146.00

### BANKING AND RELATED FINANCIAL SERVICES (TC 68)

ISO/DIS 3531-1, Financial services - Financial information eXchange session layer - Part 1: FIX TagValue encoding - 10/31/2020, \$67.00

ISO/DIS 3531-2, Financial services - Financial information eXchange session layer - Part 2: FIX session layer - 10/21/2020, \$146.00

ISO/DIS 3531-3, Financial services - Financial information eXchange session layer - Part 3: FIX session layer test cases - 10/21/2020, \$62.00

### BUILDING CONSTRUCTION (TC 59)

ISO/DIS 24068-1, Buildings and civil engineering works - Determination of the degree of cure of sealants - Part 1: Build-up of tensile properties in dumbbell-shaped specimens - 11/2/2020, \$40.00

ISO/DIS 24068-2, Buildings and civil engineering works - Determination of the degree of cure of sealants - Part 2: Build-up of tensile and adhesion properties in test joint specimens - 11/2/2020, \$40.00

ISO/DIS 24070-1, Buildings and civil engineering works - Determination of cured thickness of one-component sealants - Part 1: Taper-shaped groove test method - 11/1/2020, \$33.00

ISO/DIS 24070-2, Buildings and civil engineering works - Determination of cured thickness of one-component sealants - Part 2: Cylindrical cup test method - 11/1/2020, \$33.00

### CRANES (TC 96)

ISO/DIS 7752-5, Cranes - Control layout and characteristics - Part 5: Bridge and gantry cranes - 10/30/2020, \$62.00

### FURNITURE (TC 136)

ISO/DIS 3055, Kitchen equipment - Coordinating sizes for kitchen furniture and kitchen appliances - 11/7/2027, \$46.00

ISO/DIS 23769, Furniture - Mattresses - Test methods for the determination of functional characteristics - 11/2/2020, \$67.00

### HEALTH INFORMATICS (TC 215)

ISO/DIS 13972, Health informatics - Clinical information models - Characteristics, structures and requirements - 10/26/2020, \$155.00

### IMPLANTS FOR SURGERY (TC 150)

ISO/DIS 5832-3, Implants for surgery - Metallic materials - Part 3: Wrought titanium 6-aluminium 4-vanadium alloy - 11/6/2020, \$46.00

### MACHINE TOOLS (TC 39)

ISO/DIS 230-5, Test code for machine tools - Part 5: Determination of the noise emission - 10/31/2020, \$98.00

**METALLIC AND OTHER INORGANIC COATINGS (TC 107)**

ISO/DIS 4524-3, Metallic coatings - Test methods for electrodeposited gold and gold alloy coatings - Part 3: Electrographic tests for porosity - 10/30/2020, \$40.00

**OPTICS AND OPTICAL INSTRUMENTS (TC 172)**

ISO/DIS 15253, Ophthalmic optics and instruments - Optical and electro-optical devices for enhancing low vision - 10/31/2020, \$88.00

ISO/DIS 14490-5, Optics and optical instruments - Test methods for telescopic systems - Part 5: Test methods for transmittance - 11/11/2024, \$58.00

**PULLEYS AND BELTS (INCLUDING VEEBELTS) (TC 41)**

ISO/DIS 5287, Belt drives - V-belts for the automotive industry - Fatigue test - 10/29/2020, \$53.00

**RAILWAY APPLICATIONS (TC 269)**

ISO/DIS 22752, Railway applications - Bodyside windows for rolling stock - 10/29/2020, \$107.00

ISO/DIS 22074-5, Railway infrastructure - Rail fastening systems - Part 5: Test method for electrical resistance - 10/29/2020, \$40.00

**ROAD VEHICLES (TC 22)**

ISO/DIS 15765-4, Road vehicles - Diagnostic communication over Controller Area Network (DoCAN) - Part 4: Requirements for emissions-related systems - 11/1/2020, \$88.00

**SHIPS AND MARINE TECHNOLOGY (TC 8)**

ISO/DIS 28005-2, Security management systems for the supply chain - Electronic port clearance (EPC) - Part 2: Core data elements - 10/31/2020, \$175.00

**SMALL CRAFT (TC 188)**

ISO/DIS 21487, Small craft - Permanently installed petrol and diesel fuel tanks - 10/29/2020, \$67.00

**SMALL TOOLS (TC 29)**

ISO/DIS 22402-1, Medium-transfer units for tool interfaces - Part 1: Transfer units for hollow taper shanks in accordance with ISO 12164 - 11/5/2020, \$62.00

ISO/DIS 22402-2, Medium-transfer units for tool interfaces - Part 2: Transfer units for polygonal taper interfaces in accordance with ISO 26623 - 11/5/2020, \$33.00

**TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)**

ISO/DIS 16460, Intelligent transport systems - Localized communications - Communication protocol messages for global usage - 10/29/2020, \$112.00

ISO/DIS 22085-3, Intelligent transport systems (ITS) - Nomadic device service platform for micro mobility - Part 3: Data structure and data exchange procedures - 10/30/2020, \$102.00

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

ISO/IEC 13818-1/DAMd2, Information technology - Generic coding of moving pictures and associated audio information - Part 1: Systems - Amendment 2: Carriage of VVC in MPEG -2 Systems - 10/31/2020, FREE

ISO/IEC 14496-15/DAMd2, Information technology - Coding of audio-visual objects - Part 15: Carriage of network abstraction layer (NAL) unit structured video in the ISO base media file format - Amendment 2: Carriage of VVC in ISO/BMFF - 11/2/2013, \$88.00

ISO/IEC DIS 7816-8, Identification cards - Integrated circuit cards - Part 8: Commands and mechanisms for security operations - 11/6/2020, \$102.00

ISO/IEC DIS 18745-2, Cards and security devices for personal identification - Test methods for machine readable travel documents (MRTD) and associated devices - Part 2: Test methods for the contactless interface - 10/31/2020, \$98.00

ISO/IEC DIS 23009-8, Information technology - Dynamic adaptive streaming over HTTP (DASH) - Part 8: Session-based DASH operations - 11/2/2020, \$82.00

ISO/IEC DIS 23090-10, Information technology - Coded representation of immersive media - Part 10: Carriage of visual volumetric video-based coding data - 10/29/2020, \$119.00

ISO/IEC DIS 23090-17, Information technology - Coded representation of immersive media - Part 17: Reference software and conformance for OMAF - 10/29/2020, \$53.00

ISO/IEC DIS 39794-17, Information technology - Extensible biometric data interchange formats - Part 17: Gait image sequence data - 11/6/2020, FREE

**IEC Standards**

2/2010(F)/FDIS, IEC 60034-7 ED3: Rotating electrical machines - Part 7: Classification of types of construction, mounting arrangements and terminal box position (IM Code), 08/21/2020

2/2011(F)/FDIS, IEC 60034-11 ED3: Rotating electrical machines - Part 11: Thermal protection, 08/21/2020

3/1455/CD, ISO TS 81346-10 ED2: Industrial systems, installations and equipment and industrial products - Structuring principles and reference designation - Part 10: Power plants, 10/02/2020

8B/62/CD, IEC 63189-1 ED1: Virtual Power Plants - Part 1: Architecture and Functional Requirements, 10/02/2020

9/2604/CDV, IEC 61375-2-8 ED1: Electronic railway equipment - Train communication network (TCN) - Part 2-8: TCN conformance test of ETB, ECN and Communication profile, 10/30/2020



- 10/1119/CD, IEC 60475 ED3: Method of sampling insulating liquids, 10/30/2020
- 10/1120/CD, IEC 60599 ED4: Mineral oil-filled electrical equipment in service - Guidance on the interpretation of dissolved and free gases analysis, 10/30/2020
- 17C/758/CD, IEC 62271-202 ED3: High-voltage switchgear and controlgear - Part 202: High-voltage/low-voltage prefabricated substation, 10/30/2020
- 34A/2201/NP, PNW 34A-2201 ED1: LED light source characteristics - Part 1: Datasheets, 10/30/2020
- 34A/2202/NP, PNW 34A-2202: LED light source characteristics - Part 2: Design parameters and values, 10/30/2020
- 38/630/NP, PNW 38-630: IEC 61869-99: Instrument Transformers: Glossary, 10/30/2020
- 38/631/CD, IEC 61869-1 ED2: Instrument transformers - Part 1: General requirements, 10/30/2020
- 48B/2827/CDV, Connectors for electrical and electronic equipment - Product requirements - Part 2-011: Circular connectors - Detail specification for B12 bayonet coupling connectors based on mating interfaces according to IEC 61076-2-101 and IEC 61076-2-109, 10/30/2020
- 57/2255/DTR, IEC TR 62351-90-3 ED1: Power systems management and associated information exchange - Data and communications security - Part 90-3: Guidelines for network and system management, 10/02/2020
- 57/2256/FDIS, IEC 61850-4/AMD1 ED2: Amendment 1 - Communication networks and systems for power utility automation - Part 4: System and project management, 09/18/2020
- 61D/455/CDV, IEC 60335-2-40/FRAG1 ED7: Household and similar electrical appliances - Safety - Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers, 10/30/2020
- 61D/457/CDV, IEC 60335-2-40/FRAG2 ED7: Household and similar electrical appliances - Safety - Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers, 10/30/2020
- 62B/1176/CDV, IEC 60601-1-3/AMD2 ED2: Amendment 2 - Medical electrical equipment - Part 1-3: General requirements for basic safety and essential performance - Collateral Standard: Radiation protection in diagnostic X-ray equipment, 10/30/2020
- 62C/770/FDIS, IEC 60601-2-1 ED4: Medical electrical equipment - Part 2-1: Particular requirements for the basic safety and essential performance of electron accelerators in the range 1 MeV to 50 MeV, 09/18/2020
- 62C/774/CD, IEC 60601-2-68/AMD1 ED1: Amendment 1 - Electrical medical equipment - Part 2-68: Particular requirements for the basic safety and essential performance of X-ray-based image-guided radiotherapy equipment for use with electron accelerators, light ion beam therapy equipment and radionuclide beam therapy equipment, 10/02/2020
- 62C/778/CD, IEC 61217 ED3: Radiotherapy equipment - Coordinates, movements and scales, 10/30/2020
- 65/824/CD, IEC 61010-2-203 ED1: Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-203: Particular requirements for industrial communication circuits and communication port interconnection, 10/30/2020
- 65E/739(F)/FDIS, IEC 62769-100 ED1: Field Device Integration (FDI) - Part 100: Profiles - Generic protocols, 08/21/2020
- 65E/740(F)/FDIS, IEC 62769-115-2 ED1: Field Device Integration (FDI) - Part 115-2: Profiles - Modbus-RTU, 08/21/2020
- 65E/741/NP, PNW 65E-741: Digital Nameplate - Digital Product Marking, 10/30/2020
- 78/1319(F)/FDIS, IEC 61472-2 ED1: Live working - Minimum approach distances - Part 2: A method of determination of the electrical component distance for AC systems 1,0 kV to 72,5 kV, 08/28/2020
- 80/962(F)/CDV, IEC 63154 ED1: Maritime navigation and radiocommunication equipment and systems - Cybersecurity - General requirements, methods of testing and required test results, 09/18/2020
- 82/1767(F)/FDIS, IEC 62788-1-4/AMD1 ED1: Amendment 1 - Measurement procedures for materials used in photovoltaic modules - Part 1-4: Encapsulants - Measurement of optical transmittance and calculation of the solar-weighted photon transmittance, yellowness index, and UV cut-off wavelength, 08/28/2020
- 82/1768A/FDIS, IEC 63092-2 ED1: Photovoltaics in buildings - Part 2: Requirements for building-integrated photovoltaic systems, 08/28/2020
- 82/1779/NP, PNW 82-1779: Photovoltaic direct-driven appliance controllers - Part 1: General Requirement, 10/02/2020
- 82/1780/NP, PNW TS 82-1780: Photovoltaic direct-driven appliance controllers - Part 2: Operation Modes and an Example of Display, 10/02/2020
- 82/1781/NP, PNW TS 82-1781: Photovoltaic Cells - Part X: Water Boiling Test for Crystalline Silicon Solar Cells, 10/02/2020
- 82/1782/NP, PNW TS 82-1782: Photovoltaic Cells - Part 3: Specifications for electrical characteristics of crystalline silicon wafers, 10/02/2020
- 86/569/CD, IEC 61744 ED3: Calibration of fibre optic chromatic dispersion test sets, 10/02/2020
- 86A/2021/CDV, IEC 60794-1-211 ED1: Optical fibre cables - Part 1-211: Generic specification - Basic optical cable test procedures - Environmental test methods - Sheath shrinkage, Method F11, 10/30/2020
- 86A/2027/CDV, IEC 60794-3-12 ED3: Optical fibre cables - Part 3-12: Outdoor cables - Detailed specification for duct and directly buried optical telecommunication cables for use in premises cabling, 10/30/2020

- 86B/4319/CDV, IEC 61753-085-2 ED2: Fibre optic interconnecting devices and passive components performance standard - Part 085 -2: Non-connectorized single-mode pigtailed CWDM devices for category C - Indoor controlled environment, 10/30/2020
- 100/3449/CDV, IEC 60958-5 ED1: Digital audio interface - Part 5: Consumer application enhancement (TA 20), 10/30/2020
- 110/1229/CD, IEC 63145-10 ED1: Eyewear display - Part 10: Specifications, 10/02/2020
- 110/1230/CD, IEC 62906-5-7 ED1: Laser displays - Part 5-7: Measuring methods of visual quality for scanning laser displays, 10/02/2020
- 120/190/NP, PNW 120-190: Electrical energy storage (ESS) systems - Part 5-4: Safety test methods and procedures for grid integrated EES systems - Electrochemical-based systems, 09/04/2020
- 120/191/CD, IEC TR 62933-2 ED1: Case study of EES Systems located in EV charging station with PV, 10/30/2020
- CIS/D/466/CDV, CISPR 25 ED5: Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers, 10/30/2020
- SMBNC/12/DV, Final draft of JCGM GUM-6 Guide to the expression of uncertainty in measurement - Part 6: Developing and using measurement models [intended to become ISO/IEC Guide 98-6], 10/09/2020
- 17C/758A/CD, IEC 62271-202 ED3: High-voltage switchgear and controlgear - Part 202: High-voltage/ low-voltage prefabricated substation, 10/30/2020
- 17C/759/CD, IEC 62271-212 ED2: High-voltage switchgear and controlgear - Part 212: Compact Equipment Assembly for Distribution Substation (CEADS), 11/06/2020
- 23/910/CDV, IEC 63044-6-1 ED1: General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 6: Requirements for planning and installation, 11/06/2020
- 23/911/CDV, IEC 63044-4 ED1: General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 4: General functional safety requirements for products intended to be integrated in Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS), 11/06/2020
- 23/912/CDV, IEC 63044-3/AMD1 ED1: Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 3: Electrical safety requirements, 11/06/2020
- 23/913/CDV, IEC 63044-1/AMD1 ED1: Amendment 1 - Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 1: General requirements, 11/06/2020
- 23A/931/NP, PNW 23A-931: Cable management systems - Test method for content of halogens, 11/06/2020
- 31G/323/DTS, IEC TS 60079-47 ED1: Explosive atmospheres - Part 47: Equipment protection by 2-Wire Intrinsically Safe Ethernet concept (2-WISE), 11/06/2020
- 31J/307(F)/FDIS, IEC 60079-10-1 ED3: Explosive atmospheres - Part 10-1: Classification of areas - Explosive gas atmospheres, 09/04/2020
- 34A/2197/CDV, IEC 60809 ED4: Lamps and light sources for road vehicles - Dimensional, electrical and luminous requirements, 11/06/2020
- 40/2768/CD, IEC 61051-2 ED2: Varistors for use in electronic equipment - Part 2: Sectional specification for surge suppression varistors, 11/06/2020
- 46A/1432/CD, IEC 61196-7 ED2: Coaxial communication cables - Part 7: Sectional specification for cables for BCT cabling in accordance with ISO/IEC 11801-4 - Indoor drop cables for systems operating at 5 MHz - 6 000 MHz, 11/06/2020
- 48B/2832(F)/FDIS, IEC 60603-7 ED4: Connectors for electronic equipment - Part 7: Detail specification for 8-way, unshielded, free and fixed connectors, 08/28/2020
- 51/1348(F)/FDIS, IEC 63182-2 ED1: Magnetic powder cores - Guidelines on dimensions and the limits of surface irregularities - Part 2: Ring-cores, 09/04/2020
- 55/1874/CD, IEC 60317-84 ED1: Specifications for particular types of winding wires - Part 84: Polyesterimide enamelled round copper wire, class 200, 10/09/2020
- 65/827/NP, PNW TS 65-827: Rules for IEC 62443 Profiles, 11/06/2020
- 65/828/NP, PNW TS 65-828: Security evaluation methodology for IEC 62443 - Part 2-4: Security program requirements for IACS service providers, 11/06/2020
- 65/829/NP, PNW TS 65-829: Security evaluation methodology for IEC 62443 - Part 4-2: Technical security requirements for IACS components, 11/06/2020
- 65A/975/FDIS, IEC 61326-1 ED3: Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements, 09/25/2020
- 65A/976/FDIS, IEC 61326-2-1 ED3: Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-1: Particular requirements - Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications, 09/25/2020
- 65A/977/FDIS, IEC 61326-2-2 ED3: Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-2: Particular requirements - Test configurations, operational conditions and performance criteria for portable testing, measuring and monitoring equipment used in low-voltage distribution systems, 09/25/2020

- 65A/978/FDIS, IEC 61326-2-5 ED3: Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5: Particular requirements - Test configurations, operational conditions and performance criteria for field devices with field bus interfaces according to IEC 61784-1, 09/25/2020
- 86/570/CD, IEC 62496-2-61 ED1: Optical circuit boards - Basic test and measurement procedures - Part 2-61: Test methods - Flexibility for flexible optic-electric circuits, 10/09/2020
- 86A/2030/CDV, IEC 60794-3 ED5: Optical fibre cables - Part 3: Outdoor cables - Sectional specification, 11/06/2020
- 86B/4321/CDV, IEC 61755-3-1 ED2: Fibre optic interconnecting devices and passive components - Connector optical interfaces - Part 3-1: Connector parameters of dispersion unshifted single-mode physically contacting fibres - non-angled 2,5 mm and 1,25 mm diameter cylindrical full zirconia ferrules, 11/06/2020
- 86B/4322/CDV, IEC 61755-3-2 ED2: Fibre optic interconnecting devices and passive components - Connector optical interfaces - Part 3-2: Connector parameters of dispersion unshifted single-mode physically contacting fibres - angled 2,5 mm and 1,25 mm diameter cylindrical full zirconia ferrules, 11/06/2020
- 86C/1688/Q, Amendment for IEC 61280-4-1 Ed. 3, 09/25/2020
- 91/1655/CDV, IEC 61189-5-301 ED1: Test methods for electrical materials, printed boards and other interconnection structures and assemblies - Part 5-301: Test methods for printed board assemblies - Soldering paste using fine solder particles, 11/06/2020
- 95/433/CD, IEC 60255-26 ED4: Measuring relays and protection equipment - Part 26: Electromagnetic compatibility requirements, 10/09/2020
- 105/811/CD, IEC 62282-4-202 ED1: Fuel cell technologies - Part 4 -202: Fuel Cell Power Systems for unmanned aircraft systems - Performance test methods, 11/06/2020
- 110/1231/CD, IEC 63145-22-20 ED1: Eyewear display - Part 22-20: Measurement methods for AR type - Image quality, 10/09/2020
- 116/468(F)/FDIS, IEC 62841-4-4 ED1: Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-4: Particular requirements for lawn trimmers, lawn edge trimmers, grass trimmers, brush cutters and brush saws, 08/28/2020
- 120/193/NP, PNW 120-193: Electrical energy storage(ESS) systems - Part 5-4: Safety test methods and procedures for grid integrated - xEES systems - Lithium ion battery-based systems, 09/11/2020
- 122/95/CD, IEC TR 63042-303 ED1: UHV AC transmission systems - Part 303: Guideline for the measurement of UHV AC transmission line power frequency parameters, 10/09/2020



# 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 11202/Amd1:2020](#), Acoustics - Noise emitted by machinery and equipment - Determination of emission sound pressure levels at a work station and at other specified positions applying approximate environmental corrections - Amendment 1, \$19.00

[ISO 5135:2020](#), Acoustics - Determination of sound power levels of noise from air-terminal devices, air-terminal units, dampers and valves by measurement in a reverberation test room, \$103.00

### PIGMENTS, DYESTUFFS AND EXTENDERS (TC 256)

[ISO 18314-4:2020](#), Analytical colorimetry - Part 4: Metamerism index for pairs of samples for change of illuminant, \$138.00

### PLASTICS PIPES, FITTINGS AND VALVES FOR THE TRANSPORT OF FLUIDS (TC 138)

[ISO 8779:2020](#), Plastics piping systems - Polyethylene (PE) pipes for irrigation - Specifications, \$103.00

### RUBBER AND RUBBER PRODUCTS (TC 45)

[ISO 8066-3:2020](#), Rubber and plastics hoses and hose assemblies for automotive air conditioning - Specification - Part 3: Refrigerant 1234yf, \$162.00

### SHIPS AND MARINE TECHNOLOGY (TC 8)

[ISO 19018:2020](#), Ships and marine technology - Terms, abbreviations, graphical symbols and concepts on navigation, \$138.00

[ISO 21851:2020](#), Marine technology - Ocean observation systems - Design criteria of ocean hydro-meteorological observation systems reuse and interaction, \$138.00

[ISO 11336-2:2020](#), Large yachts - Strength, weathertightness and watertightness of glazed openings - Part 2: Glazed opening integrated into adjacent structure (elastically bonded to bulkhead or shell) design criteria, structural support, installation and testing, \$185.00

### SOIL QUALITY (TC 190)

[ISO 54321:2020](#), Soil, treated biowaste, sludge and waste - Digestion of aqua regia soluble fractions of elements, \$185.00

### STEEL (TC 17)

[ISO 16573-1:2020](#), Steel - Measurement method for the evaluation of hydrogen embrittlement resistance of high strength steels - Part 1: Constant load test, \$68.00

### SURFACE CHEMICAL ANALYSIS (TC 201)

[ISO 16413:2020](#), Evaluation of thickness, density and interface width of thin films by X-ray reflectometry - Instrumental requirements, alignment and positioning, data collection, data analysis and reporting, \$162.00

### TEXTILES (TC 38)

[ISO 105-X19:2020](#), Textiles - Tests for colour fastness - Part X19: Colour fastness to rubbing (Gakushin test method), \$68.00

[ISO 7211-5:2020](#), Textiles - Methods for analysis of woven fabrics construction - Part 5: Determination of linear density of yarn removed from fabric, \$45.00

### TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)

[ISO 19299:2020](#), Electronic fee collection - Security framework, \$232.00

### TYRES, RIMS AND VALVES (TC 31)

[ISO 3877-4/Amd1:2020](#), Tyres, valves and tubes - List of equivalent terms - Part 4: Solid tyres - Amendment 1, \$19.00

## ISO Technical Reports

### BUILDING CONSTRUCTION (TC 59)

[ISO/TR 22845:2020](#), Resilience of buildings and civil engineering works, \$162.00

## IEC Standards

### FIBRE OPTICS (TC 86)

[IEC 62149-5 Ed. 3.0 b:2020](#), Fibre optic active components and devices - Performance standards - Part 5: ATM-PON transceivers with LD driver and CDR ICs, \$199.00

[IEC 61300-2-56 Ed. 1.0 b:2020](#), Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-56: Tests - Wind resistance of mounted housing, \$164.00

[S+ IEC 62149-5 Ed. 3.0 en:2020 \(Redline version\)](#), Fibre optic active components and devices - Performance standards - Part 5: ATM-PON transceivers with LD driver and CDR ICs, \$259.00

### INDUSTRIAL-PROCESS MEASUREMENT AND CONTROL (TC 65)

[IEC 62828-4 Ed. 1.0 b:2020](#), Reference conditions and procedures for testing industrial and process measurement transmitters - Part 4: Specific procedures for level transmitters, \$317.00

[IEC 62828-5 Ed. 1.0 b:2020](#), Reference conditions and procedures for testing industrial and process measurement transmitters - Part 5: Specific procedures for flow transmitters, \$235.00

### MAGNETIC ALLOYS AND STEELS (TC 68)

[IEC 60404-8-5 Ed. 2.0 en:2020](#), Magnetic materials - Part 8-5: Specifications for individual materials - Electrical steel strip and sheet with specified mechanical properties and magnetic polarization, \$117.00

### POWER SYSTEM CONTROL AND ASSOCIATED COMMUNICATIONS (TC 57)

[IEC 61968-5 Ed. 1.0 b:2020](#), Application integration at electric utilities - System interfaces for distribution management - Part 5: Distributed energy optimization, \$281.00

### ROTATING MACHINERY (TC 2)

[IEC 60034-18-42 Ed. 1.1 b:2020](#), Rotating electrical machines - Part 18-42: Partial discharge resistant electrical insulation systems (Type II) used in rotating electrical machines fed from voltage converters - Qualification tests, \$410.00

[IEC 60034-18-42 Amd.1 Ed. 1.0 b:2020](#), Amendment 1 - Rotating electrical machines - Part 18-42: Partial discharge resistant electrical insulation systems (Type II) used in rotating electrical machines fed from voltage converters - Qualification tests, \$47.00

# Registration of Organization Names in the United States

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.

The following is a list of alphanumeric organization names that have been submitted to ANSI for registration. 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

Southern California Edison (SCE)

Public Review Ends: August 28, 2020

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

## Call for Comment

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

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

To register for Notify U.S., please visit <http://www.nist.gov/notifyus/>.

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

For further information about the USA TBT Inquiry Point, please visit: <https://www.nist.gov/standardsgov/what-we-do/trade-regulatory-programs/usa-wto-tbt-inquiry-point>

Contact the USA TBT Inquiry Point at:(301) 975-2918; Fax: (301) 926-1559; E-mail: [usatbtep@nist.gov](mailto:usatbtep@nist.gov) or [notifyus@nist.gov](mailto:notifyus@nist.gov).

# Information Concerning

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## American National Standards

### Call for Members

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

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

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

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

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

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

### Society of Cable Telecommunications

#### ANSI Accredited Standards Developer

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 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 a 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).

### Final Actions Correction

#### Incorrect Project Intent

##### ANSI/ABYC P-28-2020

The July 10, 2020 Standards Action Final Action notice for ANSI/ABYC P-28-2020 was mistakenly listed as a "new standard". This notice should have indicated that the approval of ANSI/ABYC P-28-2020 was for a (revision, redesignation and consolidation of ANSI/ABYC A-24-2020, ANSI/ABYC A-27-2016).

## ANSI Accredited Standards Developers

### Approval of Reaccreditation

#### Compressed Air and Gas Institute (CAGI)

The reaccreditation of the Compressed Air and Gas Institute (CAGI), an ANSI Member and Accredited Standards Developer, has been approved at the direction of ANSI's Executive Standards Council under its recently revised operating procedures for documenting consensus on CAGI-sponsored American National Standards, effective August 14, 2020. For additional information, please contact: Mr. Christopher Johnson, Secretary-Treasurer, Compressed Air and Gas Institute, 1300 Sumner Avenue, Cleveland, OH 44115; phone: 216.241.7333, ext. 3027; e-mail: [cjohnson@thomasamc.com](mailto:cjohnson@thomasamc.com).

#### Door and Access Systems Manufacturers Association (DASMA)

The reaccreditation of the Door and Access Systems Manufacturers Association (DASMA), an ANSI Member and Accredited Standards Developer, has been approved at the direction of ANSI's Executive Standards Council under its recently revised operating procedures for documenting consensus on DASMA-sponsored American National Standards, effective August 14, 2020. For additional information, please contact: Mr. Christopher Johnson, Executive Director, Door and Access Systems Manufacturers Association, 1300 Sumner Avenue, Cleveland, OH 44115; phone: 216.241.7333, ext. 3027; e-mail: [dasma@dasma.com](mailto:dasma@dasma.com).

#### Fluid Controls Institute (FCI)

The reaccreditation of the Fluid Controls Institute (FCI), an ANSI Member and Accredited Standards Developer, has been approved at the direction of ANSI's Executive Standards Council under its recently revised operating procedures for documenting consensus on FCI-sponsored American National Standards, effective August 14, 2020. For additional information, please contact: Mr. Christopher Johnson, Executive Secretary, Fluid Controls Institute, 1300 Sumner Avenue, Cleveland, OH 44115; phone: 216.241.7333, ext. 3027; e-mail: [fci@fluidcontrolsintstitute.org](mailto:fci@fluidcontrolsintstitute.org).

#### Project Management Institute (PMI)

ANSI's Executive Standards Council has approved the reaccreditation of the Project Management Institute (PMI), an ANSI Member and Accredited Standards Developer, under its recently revised operating procedures for documenting consensus on PMI-sponsored American National Standards, effective August 13, 2020. For additional information, please contact: Ms. Lorna Scheel, Standards Compliance Specialist, Project Management Institute, 14 Campus Boulevard, Newtown Square, PA 19703-3299; phone: 313.404.3507; e-mail: [Lorna.Scheel@pmi.org](mailto:Lorna.Scheel@pmi.org).

# Information Concerning

## ANSI Accredited Standards Developers

### Application for Accreditation

## MedBiquitous, the Standards Development Program of the AAMC

### Comment Deadline: September 21, 2020

**MedBiquitous, the standards development program of the AAMC**, an ANSI member, has submitted an application for accreditation as an ANSI Accredited Standards Developer (ASD) and proposed operating procedures for documenting consensus on MedBiquitous-sponsored *American National Standards*. MedBiquitous' proposed scope of standards activity is as follows:

*To develop information technology standards for healthcare education and training, competence assessment, certification and licensure, professional and scientific publications, and professional online communities and portals.*

*MedBiquitous' Participants are organizations and individuals that share a commitment to advancing lifelong learning, continuous improvement, and better patient outcomes. Potential participants include professional medical and healthcare associations, certifying boards, universities, publishers, commercial educators, healthcare organizations, and governmental healthcare entities, among others.*

*Activities of the Program include:*

- a. The creation of standards for data exchange and communication among healthcare professional societies, certifying boards, educators, publishers, and industry partners that support health professions education, assessment, credentialing, and quality improvement.*
- b. The creation of requirements and specifications for communications among healthcare professional societies, certifying boards, educators, publishers, and industry partners that support health professions education, assessment, credentialing, and quality improvement.*
- c. The provision of a neutral forum for learning about best technology practices and freely exchanging ideas on use of technology for education, assessment, credentialing, and quality improvement.*



To obtain a copy of MedBiquitous' application and proposed operating procedures or to offer comments, please contact: Johnmarx Patton, MD, MHI, Director, Educational Technology and Standards, Association of American Medical Colleges, 655 K Street, N.W., Washington, D.C. 20001-2399; phone: 202.828.0648; e-mail: [jpatton@aamc.org](mailto:jpatton@aamc.org). Please submit any comments to MedBiquitous by **September 21, 2020**, with a copy to the ExSC Recording Secretary in ANSI's New York Office (E-mail: [Jthomps@ANSI.org](mailto:Jthomps@ANSI.org)). As the proposed procedures are available electronically, the public review period is **30 days**. You may view or download a copy of MedBiquitous' proposed operating procedures from *ANSI Online during the public review period* at the following URL: [www.ansi.org/accredPR](http://www.ansi.org/accredPR).

# Information Concerning

## ANSI Accredited Standards Developers

### Notice of ABMA (ASC B3) Standards to Continue as American National Standards (ANS) under Stabilized Maintenance

This announcement is made in accordance with 4.7.3 Stabilized maintenance of American National Standards of the ANSI Essential Requirements ([www.ansi.org/essentialrequirements](http://www.ansi.org/essentialrequirements)).

**ANSI B3.1-1992 (S2020)**, Rolling Element Bearings – Aircraft Engine, Engine Gearbox, and Accessory Applications - Eddy Current Inspection

**ANSI B3.2-1992 (S2020)**, Rolling Element Bearings – Aircraft Engine, Engine Gearbox, and Accessory Applications - Surface Visual Inspection

**ANSI B3.3-1992 (S2020)**, Rolling Element Bearings – Aircraft Engine, Engine Gearbox, and Accessory Applications - Surface Temper Etch

**ANSI/ABMA 8.1-1990 (S2020)**, Ball and Roller Bearing Mounting Accessories – Metric Design

**ANSI/ABMA 8.2-1999 (S2020)**, Ball and Roller Bearing Mounting Accessories – Inch Design

**ANSI/ABMA 12.1-1992 (S2020)**, Instrument Ball Bearings – Metric Design

**ANSI/ABMA 12.2-1992 (S2020)**, Instrument Ball Bearings – Inch Design

**ANSI/ABMA 14-1995 (S2020)**, Housings for Bearings with Spherical Outside Surfaces

**ANSI/ABMA 15-1991 (S2020)**, Ball Bearings with Spherical Outside Surfaces and Extended Inner Ring Width (Includes Eccentric Locking Collars)

**ANSI/ABMA 21.1-1988 (S2020)**, Thrust Needle Roller and Cage Assemblies and Thrust Washers – Metric Design

**ANSI/ABMA 21.2-1988 (S2020)**, Thrust Needle Roller and Cage Assemblies and Thrust Washers – Inch Design

**ANSI/ABMA 22.2-1988 (S2020)**, Spherical Plain Radial Bearings, Joint Type – Inch Design

**ANSI/ABMA 23.2-1988 (S2020)**, Thrust Bearings of Tapered Roller Type – Inch Design

**ANSI/ABMA 24.1-1989 (S2020)**, Thrust Bearings of Ball, Cylindrical Roller and Spherical Roller Types - Metric Design

**ANSI/ABMA 24.2-1989 (S2020)**, Thrust Bearings of Ball and Cylindrical Roller Types – Inch Design

**ANSI/ABMA 25.2-1990 (S2020)**, Rolling Bearings, Linear Motion Recirculating Ball, Sleeve Type – Inch Series



## American National Standards (ANS) – Where to find Procedures, Guidance, Interpretations and More...

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:

- *ANSI Essential Requirements: Due process requirements for American National Standards* (always current edition): [www.ansi.org/essentialrequirements](http://www.ansi.org/essentialrequirements)
- ANSI Standards Action (weekly public review announcements of proposed ANS and standards developer accreditation applications, listing of recently approved ANS, and proposed revisions to ANS-related procedures): [www.ansi.org/standardsaction](http://www.ansi.org/standardsaction)
- Accreditation information – for potential developers of American National Standards (ANS): [www.ansi.org/sdoaccreditation](http://www.ansi.org/sdoaccreditation)
- ANS Procedures, ExSC Interpretations and Guidance (including a slide deck on how to participate in the ANS process and the BSR-9 form): [www.ansi.org/asd](http://www.ansi.org/asd)
- Lists of ANSI-Accredited Standards Developers (ASDs), Proposed ANS and Approved ANS: [www.ansi.org/asd](http://www.ansi.org/asd)
- American National Standards Key Steps: [www.ansi.org/anskeysteps](http://www.ansi.org/anskeysteps)
- American National Standards Value: [www.ansi.org/ansvalue](http://www.ansi.org/ansvalue)
- ANS Web Forms for ANSI-Accredited Standards Developers - PINS, BSR8|108, BSR11, Technical Report: [www.ansi.org/PSAWebForms](http://www.ansi.org/PSAWebForms)
- Information about standards Incorporated by Reference (IBR): [www.ansi.org/ibr](http://www.ansi.org/ibr)
- ANSI - Education and Training: [www.standardslearn.org](http://www.standardslearn.org)

If you have a question about the ANS process and cannot find the answer quickly, please send an email to [psa@ansi.org](mailto:psa@ansi.org).

Please also visit Standards Boost Business at [www.standardsboostbusiness.org](http://www.standardsboostbusiness.org) for resources about why standards matter, testimonials, case studies, FAQs and more.

If you are interested in purchasing an American National Standard, please visit <https://webstore.ansi.org/>



**BSR/ASHRAE Addendum *b* to  
ANSI/ASHRAE Standard 140-2017**

**First Public Review Draft**

**Proposed Addendum *b* to  
Standard 140-2017, Standard  
Method of Test for the Evaluation  
of Building Energy Analysis  
Computer Programs**

**First Public Review Draft (August 2020)  
(Draft shows Proposed Changes to Current Standard)**

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

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

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

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**ASHRAE, 1791 Tullie Circle, NE, Atlanta GA 30329-2305**

BSR/ASHRAE Addendum *b* to ANSI/ASHRAE Standard 140-2017, *Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs*  
 First Public Review Draft

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

## FOREWORD

*This addendum makes changes to the Title, Purpose, and Scope of Standard 140-2017.*

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

## Addendum **b** to Standard 140-2017

*Make changes to the TPS as follows.*

**Title: ~~Standard~~—Method of Test for Evaluating Building EnergyPerformance  
~~Analysis Computer~~Simulation ~~Programs~~Software**

### 1. PURPOSE

This standard specifies test procedures for evaluating the technical capabilities and ranges of applicability of ~~computer software programs~~ that ~~calculate~~ simulate the ~~thermal~~ performance of buildings and their ~~HVAC~~ systems.

### 2. SCOPE

These standard test procedures apply to ~~building energy computer programs~~software that ~~calculate~~ simulate the ~~thermal~~ performance of a building and its ~~mechanical~~ systems. While these standard test procedures cannot test all algorithms within a building energy performance ~~computer simulation program~~ software, they can be used to indicate major flaws or limitations in capabilities.

## 1 **Summary of limited technical changes to ESD DSP17.1-2020**

### 3 **6.2.2 Discharge of Charged Conductors**

4 For risks of electronic assemblies by charged conductors, the same considerations are valid as for  
5 HBM risk of electronic assemblies (Section 6.2.1). As the discharge current and energy of a  
6 charged conductor does not change whether discharged to a component or an electronic assembly,  
7 the worst-case approximation is that all the discharge current is dissipated through one component.  
8 The robustness of the entire system is then determined by the component with the lowest HBM  
9 robustness.

10 For the robustness of the single component, the same considerations as in Section 6.1.2 apply.

11 [NOTE: Charged cables and the risk of a cable discharge event \(CDE\) can also be assessed as charged](#)  
12 [isolated conductors.](#)

### 14 **6.2.3 Discharge of Boards/Systems**

15 If the discharge current of the board cannot be measured, the only reasonable approach is to avoid  
16 "all" possible discharges or limit the charging of the board/system to an exceptionally low and safe  
17 value. From data in the literature (for example, see [13] and references herein), a worst-case  
18 approximation could be to limit the charging of the board/system to one-tenth of the minimum CDM  
19 robustness of all devices; for example, if the minimum CDM robustness of all components is known  
20 or assumed to be 200 volts, then the charging of the board should not exceed 20 volts.

21 [NOTE: Another option is to limit the discharge current by contacting the ESDS item with a dissipative or](#)  
22 [insulative material, see assessment flows in Sections 7.4 and 7.5.](#)

## 24 **7.4.2 Parameter Limits for Process Assessment of Charged ESDS Items**

- 25 1. [Electrostatic voltage at ESDS item.](#) The electrostatic voltage of a *single* component measured  
26 in the process can often be correlated directly to the CDM withstand voltage  $V_{CDM}$  of the device  
27 measured during component qualification. Typically, the capacitance of the component in the  
28 CDM qualification tester is higher than the capacitance of the component in the discharge  
29 scenario in the process. Thus, the CDM qualification voltage acts as a worst-case correlation.  
30 ICs with a CDM robustness of  $V_{CDM} = 250$  volts should withstand discharges in a process when  
31 being charged to 250 volts or lower.

32 [NOTE: The electrostatic voltage can also be estimated from the charge of the ESDS item and its](#)  
33 [capacitance.](#)

34 For electronic assemblies, the electrostatic voltage cannot be correlated directly to the CDM  
35 robustness of single components as the capacitances of electronic assemblies or systems are  
36 typically much larger, and the discharge path on board is not exactly known. Some  
37 considerations are discussed in Section 6.2.3.

## 39 **7.5.2 Parameter Limits for Process Assessment of Process-Required Insulators**

- 40 2. [Electrostatic voltage at ESDS item.](#) The electrostatic voltage of a *single* component measured  
41 in the process can often be correlated directly to the CDM withstand voltage  $V_{CDM}$  of the  
42 component measured during device qualification. Typically, the capacitance of the component  
43 in the CDM qualification tester is higher than the capacitance of the IC in the discharge scenario  
44 in the process. Thus, the CDM qualification voltage acts as a worst-case correlation. ICs with  
45 a CDM robustness of  $V_{CDM} = 250$  volts should withstand discharges in a process when being  
46 charged to 250 volts or lower.

47 [NOTE: The electrostatic voltage can also be estimated from the charge of the ESDS item and its](#)  
48 [capacitance.](#)

49 For electronic assemblies, the electrostatic voltage cannot be correlated directly to the CDM  
50 robustness of single devices as the capacitances of electronic assemblies or systems are  
51 typically much larger, and the discharge path on board is not exactly known. Some  
52 considerations are discussed in Section 6.2.3.

53 4. Electrostatic potential measured at the surface of the process-required insulator. ANSI/ESD  
 54 S20.20 and IEC 61340-5-1 give two limits for the electrostatic potential at the surface of the  
 55 process-required insulator, which should enable safe handling of devices with a CDM  
 56 robustness of 200 volts and higher<sup>1</sup>. For a surface potential of ~~less-greater~~ than or equal to ~~125~~  
 57 ~~125~~ volts ~~and less than 2000 volts~~, ESDS items can be handled safely at a distance of ~~2.5~~  
 58 cm or larger ~~from the charged surface.~~ ~~For a the surface potential of less than or equal to~~  
 59 ~~2000 even is equal or greater than 2000~~ volts, ESDS items ~~can be handled safely~~have to be  
 60 kept at least at a distance of ~~30-30~~ cm ~~or larger~~away from the charged surface.

61 ~~3.5.~~ In a very rough estimation, these limits could be correlated to the maximum allowed charging  
 62 of the ESDS item in the process. For example, for components with a CDM robustness of 100  
 63 volts, the maximum allowed surface potentials at the process-required insulator should be half  
 64 of the values defined in ANSI/ESD S20.20, and IEC 61340-5-1 or the distance of the ESDS  
 65 item to the process-required insulator should be increased.

66 The size of the process-required insulator plays an important role as well and is not considered in  
 67 the rough estimation of ANSI/ESD S20.20 and IEC 61340-5-1. It is advisable to measure the  
 68 electrostatic field at the location of the ESDS item or to consider adding a safety factor of 2-5 for  
 69 the surface potential of insulative objects with a size of 10 cm x 10 cm and larger. As an example,  
 70 if the limit of the surface potential is 2,000 volts at the insulator, for larger charged objects, the limit  
 71 of the surface potential should be lowered to 400 to 1,000 volts or the distance of the ESDS item  
 72 to the charged surface could be increased accordingly.

## 74 **A2 Measurements of Grounding**

### 75 **A2.1 Resistance Measurement Apparatus**

#### 76 II. Equipment

- 77 • A meter that can make measurements from  $1.0 \times 10^a$  ohms to  $1.0 \times 10^b$  ohms. The meter may  
 78 have various test voltages. These meters shall be correlated to the product qualification meter  
 79 or laboratory meter before use.

80 NOTE:  $1.0 \times 10^a$  should be one order of magnitude below the lowest measurement, and  $1.0 \times 10^b$  should  
 81 be one order of magnitude above the highest measurement. The lowest and highest measurement  
 82 depends on the application in the process assessment.

- 83 • Electrode for measuring  $R_g$  of personnel: A hand-held electrode is stainless steel, brass, or  
 84 copper round or tubular stock, approximately 25 mm in diameter x 75 mm or greater in length,  
 85 with a banana plug receptacle or screw connector attached to one end of the cylinder.
- 86 • Electrode for measuring surface resistance or  $R_g$  of small items: A conductive item with  
 87 appropriate shape to give good contact to the measured item, with a connector attached to the  
 88 electrode.
- 89 • Two leads with appropriate tips or connectors to contact the electrode, the meter, and ground.

### 91 **A2.2 Multimeter (Ohmmeter)**

#### 92 IV. Measurement Limitations

93 For stationary conductors, the resistance-to-ground typically gives a reliable and repeatable result.

94 NOTE: Unexpected DC voltages on the conductor can result in an offset of the resistor measurement.

95 However, the resistance-to-ground of the conductor might be significantly different if the conductor  
 96 is in movement. As an example, consider the arm of a handler in a pick & place process. During  
 97 movement, the arm might be well grounded or not grounded at all. As an alternative method, the  
 98 AC voltage check (see Annex A.2.3) can be performed.

---

<sup>1</sup> Instead of the surface potential, ANSI/ESD S20.20 measures the electrostatic field of the insulator in 1-inch distance. For homogeneous fields, this results in the same limits.



## 100 **A3 Measurements of Electrostatic Fields**

### 101 **A3.1 Electrostatic Field Meter**

#### 102 IV. Measurement Limitations

103 If the electrostatic field meter is used to measure electrostatic fields at the location of the ESDS,  
104 care must be taken that all possible spatial directions are considered.

105 If the electrostatic field meter is used to estimate the electrostatic potential of a charged object, for  
106 example, a charged insulator or a charged ungrounded conductor, one has to consider that this  
107 works only for homogeneous fields of large objects in small distances. Typically, a meter's  
108 electrostatic field is calibrated to give the electrostatic voltage of a charged flat plate conductive  
109 plate with a size of at least 150 mm x 150 mm in a 25 mm distance. Any other sized or shaped  
110 object or larger distances of the meter to the charged object will result in measurement errors.

111 NOTE: The accurate measurement of electrostatic fields requires that the person making the measurement  
112 is familiar with the operation of their measuring equipment. An electrostatic field meter responds to the  
113 electrostatic field emanating from a charged surface and converts the field into a voltage when the meter is  
114 positioned at the meter's stipulated distance. When measuring relatively large conductors, the electrostatic  
115 field meter reading is the actual voltage on the conductor, when measured at the meter's stipulated measuring  
116 distance. However, for non-uniformly charged insulators the voltage indicated by the field meter (when  
117 measured at the meter's stipulated measuring distance) is an average of the electrostatic field strengths of  
118 the charged insulator.

119

## 120 **A6 Measurements of Discharge Events**

### 121 **A6.1 Antenna with Oscilloscope**

#### 122 IV. Measurement Limitations

123 Using antennas and an oscilloscope often allows for the detection of ESD events. However,  
124 correlation to a process step and even more the correlation to the magnitude (discharge current or  
125 pre-charge voltage) of the ESD event requires significant experience and is often impossible. Only  
126 if the location of the ESD discharge is known, correlation to the discharge current can be  
127 established by comparing the electromagnetic signal amplitude with the signal from a known ESD  
128 event with the antenna in the same distance.

129 Often the measurements are obstructed by electromagnetic noise, which is not ESD related. In  
130 process equipment, many sources of electromagnetic radiation exist, for example, motors,  
131 actuators, switches. Depending on the amplitude of the electromagnetic noise, the electromagnetic  
132 signals caused by ESD events are hidden by the electromagnetic noise.

133 NOTE: It is necessary to filter out any electromagnetic background noise. Therefore, a dry run without an  
134 ESDS item should be conducted to record the electromagnetic signals coming from the environment.  
135 Removing the signals caused by this dry run without the ESDS item from the run with the ESDS item can  
136 indicate the electromagnetic signals that are caused by ESD.

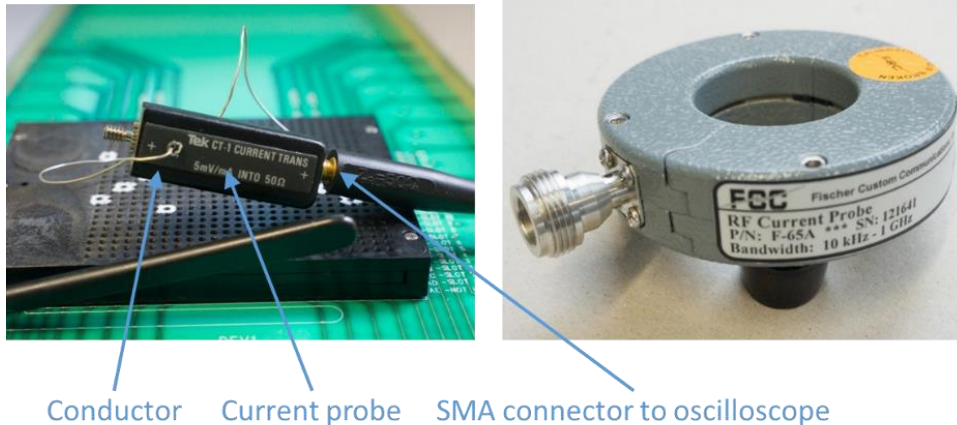
137

### 138 **A6.2 ESD Event Detectors**

#### 139 IV. Measurement Limitations

140 As mentioned above, the user needs to be very experienced when using an ESD event detector  
141 since it detects all kinds of radiation events. Additionally, the directional property of the radiation  
142 makes it more difficult to get reliable results.

143 NOTE: It is necessary to filter out any electromagnetic background noise. Therefore, a dry run without an  
144 ESDS item should be conducted to record the electromagnetic signals coming from the environment.  
145 Removing the signals caused by this dry run without the ESDS item from the run with the ESDS item can  
146 indicate the electromagnetic signals that are caused by ESD.

147 **A7 Measurements of Discharge Currents**148 **A7.1 Current Probe**149 **Figure 7: Examples of Current Probes**150 **NOTE: To avoid inductive effects, the cable through the current probe should be as short as possible.**

151 (This annex is not part of EOS/ESD Association, Inc. Standard Practice ESD DSP17.1-2020)

152  
153  
154  
155 **ANNEX C (INFORMATIVE) – RISK ASSESSMENT AND MITIGATION**156 When all the measurement results are available, the question of whether these values are a threat  
157 to the ESDs must be answered. Unfortunately, that's not so easy and depends on many  
158 parameters.159 The electrostatic voltages measured in the field are not directly comparable to the ESD robustness  
160 voltages determined during device qualification. However, by experience, a certain correlation is  
161 known.162 For HBM like stress, the stress current applied to the devices during qualification is known to be  
163 much more stringent than the one in the field [8]. The HBM tester is worst-case stress, and it can  
164 be concluded that if the operator in production does not charge higher than 100 volts, it can handle  
165 devices with an HBM robustness of 100 volts or greater.166 In addition, the mitigation for HBM like stress is easy and straight forward; if the operator is properly  
167 grounded with a wrist strap or the floor/footwear system, the risk is low.168 For CDM like stress scenario, the assessment is much more complicated. If only single devices are  
169 handled, it is known by experience that the CDM qualification stress pulse is again more stringent  
170 than the stress in the field [8]. Even if the voltages cannot be compared directly, it is known by  
171 experience that if the devices do not charge to more than 100 volts in the process, a device with a  
172 CDM robustness of TC100 [according to ANSI/ESDA/JEDEC JS-002 \[4\]](#) can be handled there. It is  
173 also typically best to avoid discharge.174  
175 (This annex is not part of EOS/ESD Association, Inc. Standard Practice ESD DSP17.1-2020)176  
177 **ANNEX D (INFORMATIVE) – EXAMPLES FOR DEFINING LIMITS IN PROCESS ASSESSMENT**  
178 **FOR RISKS DUE TO CHARGED PERSONNEL**179 Figure 10 clearly shows that the discharge [current-stress](#) measured in the field [for normal](#)  
180 [operations \(medium speed of approach\)](#) is less stringent than the one during qualification at the  
181 HBM robustness value, as the energy of the discharges measured in the field is significantly lower  
182 compared to the energy of the discharge in a qualification test ([energy is proportional to the integral](#)  
183 [of  \$i\(t\)^2\$  over time](#)). This means that devices can be handled without any risk. This allows a direct  
184 comparison of the discharge currents and avoids any overkill of ESD protection measures.

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NSF/ANSI Standard  
For Wastewater Technology –

## Evaluation of Components and Devices Used in Wastewater Treatment Systems

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### 2 Normative references

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

American Public Health Association (APHA), American Water Works Association (AWWA) & Water Environment Federation (WEF): *Standard Methods for the Examination of Water and Wastewater* (hereinafter referred to as *Standard Methods*)<sup>3</sup>

ANSI/HI *Pump Standards*<sup>4</sup>

ASME B40.100 – 2005. *Pressure Gauges and Gauge Attachments*<sup>5</sup>

ASTM C1227-12. *Standard Specification for Precast Concrete Septic Tanks*<sup>6</sup>

NFPA 70®. *National Electrical Code*® (NEC®), 2011<sup>7</sup>

NSF/ANSI 40. *Residential Wastewater Treatment Systems*

NSF/ANSI 55. *Ultraviolet Microbiological Water Treatment Systems*

NSF/ANSI 385. *Disinfection Mechanics*

<sup>3</sup> Standard Methods for the Examination of Water and Wastewater <[www.standardmethods.org](http://www.standardmethods.org)>.

<sup>4</sup> Hydraulic Institute. 6 Campus Drive, First Floor North, Parsippany, NJ 07054-4406 <[www.pumps.org](http://www.pumps.org)>.

<sup>5</sup> American Society of Mechanical Engineers (ASME). Three Park Avenue, New York, NY 10016-5990 <[www.asme.org](http://www.asme.org)>.

<sup>6</sup> ASTM International. 100 Barr Harbor Dr., West Conshohocken, PA 19428 <[www.astm.org](http://www.astm.org)>.

<sup>7</sup> National Fire Protection Association. 1 Batterymarch Park, Quincy, MA 02269-7471 <[www.nfpa.org](http://www.nfpa.org)>.

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## 11 Chlorination devices

### 11.1 Scope

This section establishes the requirements for chlorinators used to disperse controlled amounts of chlorine into the effluent of secondary treated residential wastewater. It is intended for devices that deliver chlorine in the absence of a contact chamber (hereafter referred to as chlorine dispensers) and for devices that deliver chlorine and provide a contact chamber for demonstrating fecal coliform reduction (hereafter referred to as a chlorine disinfection device). The rated capacities for both chlorine dispensers and for chlorine disinfection devices shall be between 757 L/d (200 gal/d) and 5678 L/d (1500 gal/d).

Chlorine products may also be evaluated to the requirements of this Standard. The chlorine product manufacturer shall specify and provide a chlorination device for the purpose of the evaluation. The results of the evaluation may be applied to chlorination devices that have also been evaluated to the requirements of this Standard, allowing use of the alternate chlorine product in the absence of additional testing of the chlorination device. The chlorination device shall be similar in design, construction, and materials, and equivalent in the dimension of the chlorine product reservoir, to the chlorination device used for the evaluation of the alternate chlorine product.

All chlorine products used in the evaluation of chlorination devices shall be acceptable for wastewater applications.

The evaluation of chlorine disinfection devices shall be performed in accordance with NSF/ANSI 385 – *Disinfection Mechanics*.

NOTE: The procedures for evaluation of chlorine disinfection devices were removed from NSF/ANSI 46 and reestablished in NSF/ANSI 385. The chlorine disinfection device evaluation language is due to be retired from NSF/ANSI 46 three years after the adoption of NSF/ANSI 385 (February 2023).

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## NSF/ANSI/CAN Standard

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

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

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## 4 Swimming pool water contact materials and swimming pool treatment chemicals

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### 4.6 Piping materials

**4.6.1** Galvanized steel pipe and galvanized iron pipe with cast or malleable iron fittings and bronze or iron-bodied bronze fitted valves are acceptable for use without a protective coating. If such materials have a steel housing, then no insulating fittings are required. Otherwise, all metal pipe with a dissimilar metal housing shall have insulated fittings.

**4.6.2** Piping intended for use in water applications with conductivity greater than or equal to 600 ppm aqueous solution of sodium chloride shall be made from one of the following materials:

- aluminum brass (UNS C68700);
- copper-nickel, 10% (UNS C70600);
- copper-nickel, 30% (UNS C71500);
- nickel-copper alloy – Monel 400 (UNS N04400); or
- stainless steel Type 304 (passivated) (UNS S30400);
- stainless steel Type 316 (passivated) (UNS S 31600); or
- thermoplastics or thermoset pipes conforming to the applicable sections of NSF/ANSI 14.

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***Rationale: update language regarding piping materials.***

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NSF/ANSI Standard  
for Good Manufacturing Practices –

# Good Manufacturing Practices for Over-the-Counter Drugs

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## 4 Audit requirements

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### 4.2 Leadership and commitment

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~~4.2.2 Management conducts reviews of process performance and product quality. [ICH Q10]~~  
Management reviews shall include; but not limited to quality system, process performance and product quality; which are to be conducted periodically. [ICH 10]

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### 4.8 Improvement

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~~4.8.2 Periodic management reviews of the quality system, process performance and product quality are conducted, with documented completion of any identified follow-up actions.~~ Management shall document identified management review documented completion of follow-up action items for quality systems, process, performance and product quality. [ICH Q10]

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## BSR/UL 154, Standard for Carbon-Dioxide Fire Extinguishers

### 1. Nameplate Abrasion Test Update

#### PROPOSAL

44.2 The apparatus for this test is to consist of common household detergents and cleaners and a medium emery cloth (number 2 grit or 100 mesh) grade, 100 grit emery cloth.

44.3 The extinguisher is to be laid on its side and a strip of medium emery cloth, 25 mm (1 in) wide and long enough to cover half of the circumference of the extinguisher plus 150 mm (6 in), is to be draped over the nameplate. Weights of 0.45 kg (1 lb) each are to be attached vertically to the ends of the emery cloth. The weights are to be alternately unbalanced by quickly lifting one, then the other. One stroke shall be performed as a single unidirectional movement that occurs after the balance force on one weight is removed until balance is restored and movement stops. The tests using detergent and cleanser, with a cloth, are to be conducted similarly but with the following exceptions. The weights, 0.45 kg (1 lb) each, are to be attached to a belt, 50 mm (2 in) wide, and the belt is to be placed over a cloth folded to form a pad, 50 mm (2 in) wide by 200 mm (8 in) long. The pad is to be wetted, squeezed by one hand to a damp condition, the powdered cleanser is to be applied liberally, and any excess powder shaken off. The powdering procedure is to be repeated for each series of 25 strokes for the duration of the test.

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## BSR/UL 299, Standard for Dry Chemical Fire Extinguishers

### 1. Nameplate Abrasion Test Update

#### PROPOSAL

62.2 The apparatus for this test is to consist of common household detergents and cleaners and a medium emery cloth (number 2 grit or 100 mesh) grade, 100 grit emery cloth.

62.3 The extinguisher is to be laid on its side and a strip of medium emery cloth, 25 mm (1 in) wide and long enough to cover half of the circumference of the extinguisher plus 150 mm (6 in), is to be draped over the nameplate. Weights of 0.45 kg (1 lb) each are to be attached vertically to the ends of the emery cloth. The weights are to be alternately unbalanced by quickly lifting one, then the other. One stroke shall be performed as a single unidirectional movement that occurs after the balance force on one weight is removed until balance is restored and movement stops. The tests using detergent and cleanser, with a cloth, are to be conducted similarly but with the following exceptions. The weights, 0.45 kg (1 lb) each, are to be attached to a belt, 50 mm (2 in) wide, and the belt is to be placed over a cloth folded to form a pad, 50 mm (2 in) wide by 200 mm (8 in) long. The pad is to be wetted, squeezed by one hand to a damp condition, the powdered cleanser is to be applied liberally, and any excess powder shaken off. The powdering procedure is to be repeated for each series of 25 strokes for the duration of the test.

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## BSR/UL 414, Standard for Safety for Meter Sockets

### 1. Clarification of wire details during test

14.6 Copper conductors ~~rated for 75°C (167°F)~~ are to be used for temperature tests. The size is to be chosen from Table 7.1 for 75°C conductors, based on the continuous ampere rating of the meter socket. Note 2 of Table 7.1 is not to be used for determining conductor sizes for the temperature test.

Exception No. 1: With reference to footnote b of Table 7.1, conductors sized for 90°C (194°F) ampacity are to be used on the line side of the meter socket when the meter socket is marked for use with 90°C conductors in accordance with 27.10.5.

Exception No. 2: To qualify for an ampere rating and marking in accordance with footnote c of Table 7.1, a meter socket is to be tested with conductors of such size that the investigation establishes a continuous ampere rating no less than 80 percent of the note c ratings.

Exception No. 3: Aluminum wire is to be used if the meter socket is marked for use with Aluminum wire only.

### 2. Clarification of requirements for alternate energy circuits

SA4.4.4 The test described in 14.2(f) shall be conducted two times:

- a) One test shall be conducted with a total load of 100 percent of the continuous current rating of the meter socket adapter. For this test, the alternative energy source terminals shall carry 100 percent of the continuous ampere rating of the alternative energy source terminal ratings circuit, and the utility source terminals shall carry sufficient current so the total current supplied by the two sources is no less than the 100 percent of the continuous ampere rating of the meter socket adapter; and
- b) The second test shall be conducted with a total load of 100 percent of the continuous current rating of the meter socket adapter, supplied through the utility source terminals.

## BSR/UL 626, Standard for Water Fire Extinguishers

### 1. Nameplate Abrasion Test Update

#### PROPOSAL

57.2 The apparatus for this test is to consist of common household detergents and cleaners and a medium emery cloth (number 2 grit or 100 mesh) grade, 100 grit emery cloth.

57.3 The extinguisher is to be laid on its side and a strip of medium emery cloth, 25 mm (1 in) wide and long enough to cover half of the circumference of the extinguisher plus 150 mm (6 in), is to be draped over the nameplate. Weights of 0.45 kg (1 lb) each are to be attached vertically to the ends of the emery cloth. The weights are to be alternately unbalanced by quickly lifting one, then the other. One stroke shall be performed as a single unidirectional movement that occurs after the balance force on one weight is removed until balance is restored and movement stops. The tests using detergent and cleanser, with a cloth, are to be conducted similarly but with the following exceptions. The weights, 0.45 kg (1 lb) each, are to be attached to a belt, 50 mm (2 in) wide, and the belt is to be placed over a cloth folded to form a pad, 50 mm (2 in) wide by 200 mm (8 in) long. The pad is to be wetted, squeezed by one hand to a damp condition, the powdered cleanser is to be applied liberally, and any excess powder shaken off. The powdering procedure is to be repeated for each series of 25 strokes for the duration of the test.

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## BSR/UL 796, Standard for Safety for Printed Wiring Boards

### 11. Add Evaluation for Conductive Coins

2.21A CONDUCTIVE COIN – A piece of metal ~~substance~~ on the surface or in the printed wiring board construction that allows the flow of thermal energy. See heatsink.

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## **BSR/UL 1838, Standard for Safety for Low Voltage Landscape Lighting Systems**

### **3. Overload, Burnout and Endurance Test Consolidation and Simplification**

29.4 There shall be no ignition of the cheesecloth, the unit shall comply with the Dielectric Voltage Withstand Test specified in Section 32 and the outside of the enclosure that contacts combustible materials shall comply with Table 33.1.

Exception: A recessed power unit shall not exceed 160°C (320°F) on the enclosure if the protector operates within 3 h, or 90°C (194°F) after 3 h of operation.

~~29.5 During the test, if the power unit obtains stabilized temperatures, and any of the temperatures exceed the values in Table 33.1, the power unit shall comply with the Burnout Test, Section 30 or the Endurance Test, Section 31.~~

## BSR/UL 2129, Standard for Halocarbon Clean Agent Fire Extinguishers

### 1. Nameplate Abrasion Test Update

#### PROPOSAL

60.2 The apparatus for this test is to consist of common household detergents and cleaners and a medium emery cloth (number 2 grit or 100 mesh) grade, 100 grit emery cloth.

60.3 The extinguisher is to be laid on its side and a strip of medium emery cloth, 25 mm (1 in) wide and long enough to cover half of the circumference of the extinguisher plus 150 mm (6 in), is to be draped over the nameplate. Weights of 0.45 kg (1 lb) each are to be attached vertically to the ends of the emery cloth. The weights are to be alternately unbalanced by quickly lifting one, then the other. One stroke shall be performed as a single unidirectional movement that occurs after the balance force on one weight is removed until balance is restored and movement stops. The tests using detergent and cleanser, with a cloth, are to be conducted similarly but with the following exceptions. The weights, 0.45 kg (1 lb) each, are to be attached to a belt, 50 mm (2 in) wide, and the belt is to be placed over a cloth folded to form a pad, 50 mm (2 in) wide by 200 mm (8 in) long. The pad is to be wetted, squeezed by one hand to a damp condition, the powdered cleanser is to be applied liberally, and any excess powder shaken off. The powdering procedure is to be repeated for each series of 25 strokes for the duration of the test.

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## **BSR/UL 2416, Standard for Safety for Audio/Video, Information and Communication Technology Equipment Cabinet, Enclosure and Rack Systems**

### **11. Clarification on allowed application of Bottom Opening requirements to promote consistent application**

12.5.4.2 Compliance is checked by inspection and, where necessary, by the hot flaming oil test of Clause A.3 of the Standard for Information Technology Equipment – Safety – Part 1: General Requirements, UL 60950-1 or Clause S.3 of the Standard for Audio/Video, Information and Communication Technology Equipment – Part 1: Safety Requirements, UL 62368-1. When conducting the hot flaming oil test on In-wall mounted enclosure systems, the “pattern of openings” shall mean the entire enclosure bottom.

12.5.4.4.1 Other openings associated with knockouts and pryouts, such as openings for mounting of boxes to the bottom enclosure with the knockout removed, shall comply with the test in 12.5.4.2 or the construction in 12.5.4.3.

Compliance with 12.5.4.2 may include use of outlet bushings and fittings in accordance with UL 514A, Metallic Outlet Boxes, or UL 514C, Nonmetallic Outlet Boxes, Flush-Device Boxes, and Covers, or similar.

Compliance with 12.5.4.2 may include use of factory-installed tape or similar barrier to cover such openings if the bottom openings with tape in place comply with 12.5.4.2 and the component used is determined suitable for the application, such as compliance with a UL tape standard UL 181A, Closure Systems for Use With Rigid Air Ducts or UL 181B, Closure Systems for Use With Flexible Air Ducts and Air Connectors.

## BSR/UL 2748, Standard for Safety for Arcing Fault Quenching Equipment

### 1. Editorial Error Regarding Standard Reference in Paragraph 14.6

14.6 Arc mitigation equipment that is provided with electronic circuitry shall meet the requirements of the Standard for Electrostatic Discharge Tests for Protective Relays, IEC IEEE C37.90.3.

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