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American National Standards

Call for comment on proposals listed

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. Fax: 212-840-2298; e-mail: psa@ansi.org

* Standard for consumer products

Comment Deadline: April 12, 2020

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

Addenda

BSR/ASHRAE Addendum a to BSR/ASHRAE Standard 185.2-202x, Method of Testing Ultraviolet Lamps for Use in HVAC&R Units or Air Ducts to Inactivate Microorganisms on Irradiated Surfaces (addenda to ANSI/ASHRAE Standard 185.2-2014)

This addendum fixes an error in the original document. The intended airflow rate was 2000 cfm (500 fpm). This removes the unintended value and replaces it with the correct one.

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

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

BSR/ASHRAE Addendum b to ANSI/ASHRAE Standard 185.1-202x, Method of Testing UV-C Lights for Use in Air-Handling Units or Air Ducts to Inactivate Airborne Microorganisms (addenda to ANSI/ASHRAE Standard 185.1-2015)

The use of the Poisson distribution is not appropriate for this type of biological data. The degree of correction is based on the total counts, so that a test with thousands of counts receives a tighter confidence interval than one with hundreds. This could result in very different reports efficiencies between tests. Also, since counting plates for microorganisms requires that the spots be separate, there is an upper limit on the raw counts per plate. In addition, the test lab must estimate the actual concentrations to determine how long to sample or how much to plate. This addendum reports the counts, the average, and the standard deviation to give an average efficiency and a measure of the sample count variability.

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

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

NSF (NSF International)

Revision

BSR/NSF/CAN 50-202x (i139r4), 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) to: jsnider@nsf.org

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 498-202x, Standard for Safety for Attachment Plugs and Receptacles (revision of ANSI/UL 498-2020)

This proposal for UL 498 covers: (1) Clarification of Ultraviolet Light and Water Exposure Test Apparatus, and (2) Editorial correction to clause SE15.1 and clarification for marked electrical rating.

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

Send comments (with optional copy to 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>

BSR/UL 588-202X, Standard for Safety for Seasonal Holiday Decorative Products (revision of ANSI/UL 588-2018)

This proposal for UL 588 includes cord tag instruction location.

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

Send comments (with optional copy to 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>

BSR/UL 651-202x, Standard for Schedule 40, 80, Type EB and A Rigid PVC Conduit and Fittings (revision of ANSI/UL 651-2018)

(1) Minimum acceptable performance criteria for PVC conduit.

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

Send comments (with optional copy to 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>

BSR/UL 1004-5-202x, Standard for Safety for Fire Pump Motors (revision of ANSI/UL 1004-5-2016)

This recirculation proposal provides revisions to the UL 1004-5 proposals dated 2018-08-31 and 2019-02-22.

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

Send comments (with optional copy to 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>

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

(1) Addition of 75°C and 90°C EVA Requirements, Revised Table 47.1, New Tables 50.XXXA and 50.XXXB and (2) Addition of 105°C EVA Requirements, Revised Table 47.1, New Table 50.XXXC.

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

Send comments (with optional copy to 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>

BSR/UL 2208-202x, Standard for Safety for Solvent Distillation Units (revision of ANSI/UL 2208-2006 (R2015))

The following topics are being proposed: (1) Add information regarding commercial and industrial plant oil extraction equipment and (2) Increase capacity rating from 60 gallons maximum to 600 gallons maximum.

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

Send comments (with optional copy to 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>

BSR/UL 2610-202X, Standard for Safety for Commercial Premises Security Alarm Units and Systems (revision of ANSI/UL 2610-2018)

Smart devices.

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

Send comments (with optional copy to 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>

BSR/UL 8139-202x, Standard for Safety for Electrical Systems of Electronic Cigarettes and Vaping Devices (revision of ANSI/UL 8139-2018)

Recirculation of the following ballot topics: (3) Add exception to 9.2 to address inadvertent shorting; (4) Clarification to Section 10.4 to indicate a charging interface needs to be tested; (7) Section 29.6, Clarifying the determination of voltage difference for the Drop Test; (8) Section 17.4, Removal of potentiometers from temperature measuring; and (9) Addition of an alternative specification for cheesecloth.

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

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

Comment Deadline: April 27, 2020

AAFS (American Academy of Forensic Sciences)

New Standard

BSR/AAFS ASB Std 137-202x, Standard for Examination and Documentation of Footwear and Tire Impression Evidence (new standard)

This standard provides the examination process and minimum documentation requirements for relevant observations and conclusions/interpretations encountered during footwear/tire tread examinations. The required documentation as outlined in this standard will allow for an appropriate review. This document is not all-inclusive of the examinations that may be requested or conducted.

Single copy price: Free

Obtain an electronic copy from: Document and comments template can be viewed on the AAFS Standards Board website at: <http://www.asbstandardsboard.org/notice-of-standard-development-and-coordination/>

Order from: Document will be provided electronically on AAFS Standards Board website (www.asbstandardsboard.org) free of charge.

Send comments (with optional copy to psa@ansi.org) to: asb@aaafs.org

AAMI (Association for the Advancement of Medical Instrumentation)

New National Adoption

BSR/AAMI/ISO 10993-15-202x, Biological evaluation of medical devices - Part 15: Identification and quantification of degradation products from metals and alloys (identical national adoption of ISO 10993-15)

Specifies general requirements for the design of tests for identifying and quantifying degradation products from final metallic medical devices or corresponding material samples finished as ready for clinical use. Applicable only to those degradation products generated by chemical alteration of the final metallic device in an in vitro degradation test. Because of the nature of in vitro tests, the test results approximate the in vivo behavior of the implant or material. The described chemical methodologies are a means to generate degradation products for further assessments. Applicable to both materials designed to degrade in the body as well as materials that are not intended to degrade.

Single copy price: Free

Obtain an electronic copy from: celliott@aami.org

Send comments (with optional copy to psa@ansi.org) to: celliott@aami.org

BSR/AAMI/ISO 10993-18-202x, Biological evaluation of medical devices - Part 18: Chemical characterization of medical device materials within a risk management process (identical national adoption of ISO 10993-18:2020)

Specifies a framework for the identification, and if necessary, quantification of constituents of a medical device, allowing the identification of biological hazards and the estimation and control of biological risks from material constituents, using a generally stepwise approach to the chemical characterization which can include one or more of the following:

- the identification of its materials of construction (medical device configuration);
- the characterization of the materials of construction via the identification and quantification of their chemical constituents (material composition);
- the characterization of the medical device for chemical substances that were introduced during manufacturing (e.g., mold release agents, process contaminants, sterilization residues);
- the estimation (using laboratory extraction conditions) of the potential of the medical device, or its materials of construction, to release chemical substances under clinical-use conditions (extractables); and
- the measurement of chemical substances released from a medical device under its clinical conditions of use (leachables).

Single copy price: Free

Obtain an electronic copy from: celliott@aami.org

Send comments (with optional copy to psa@ansi.org) to: celliott@aami.org

BSR/AAMI/ISO 14155-202x, Clinical investigation of medical devices for human subjects - Good clinical practice (identical national adoption of ISO 14155)

Addresses good clinical practice for the design, conduct, recording, and reporting of clinical investigations carried out in human subjects to assess the clinical performance or effectiveness and safety of medical devices. For post-market clinical investigations, the principles set forth in this document can be followed as far as relevant, considering the nature of the clinical investigation (see Annex I). This document specifies general requirements intended to — protect the rights, safety and well-being of human subjects;

- ensure the scientific conduct of the clinical investigation and the credibility of the clinical investigation results;
- define the responsibilities of the sponsor and principal investigator, and
- assist sponsors, investigators, ethics committees, regulatory authorities and other bodies involved in the conformity assessment of medical devices.

Single copy price: Free

Obtain an electronic copy from: celliott@aami.org

Send comments (with optional copy to psa@ansi.org) to: celliott@aami.org

AAMI (Association for the Advancement of Medical Instrumentation)

New Standard

BSR/AAMI CN27-202x, General requirements for Luer Activated Valves (LAVs) incorporated into medical devices for intravascular applications (new standard)

The scope of this standard is limited to Luer-Activated Valves (LAVs) for intravascular applications,* which open and permit access to the fluid conduit when a male Luer connector is inserted. This standard applies only to the valve end of LAVs. This standard applies to LAVs as stand-alone devices or as components of a medical device.

Single copy price: Free

Obtain an electronic copy from: celliott@aami.org

Send comments (with optional copy to psa@ansi.org) to: celliott@aami.org

BSR/AAMI ST98-202x, Cleaning validation of health care products - Requirements for development and validation of a cleaning process for medical devices (new standard)

This standard covers the requirements to validate the cleaning instructions that are provided by the medical device manufacturer for processing medical devices.

Single copy price: Free

Obtain an electronic copy from: abenedict@aami.org

Send comments (with optional copy to psa@ansi.org) to: abenedict@aami.org

AAMI (Association for the Advancement of Medical Instrumentation)

Revision

BSR/AAMI HE75-202x, Human factors engineering - Design of medical devices (revision of ANSI/AAMI HE75-2009 (R2018))

The purpose of this document is to provide a relevant source of human factors engineering information, design criteria, and guidelines for medical devices. The human factors design information and methodologies described in the document can be used during every phase of device design and development, from initial conceptualization through post-market surveillance.

Single copy price: Free

Obtain an electronic copy from: pbernat@aami.org

Send comments (with optional copy to psa@ansi.org) to: pbernat@aami.org

BSR/AAMI PB70-202x, Liquid barrier performance and classification of protective apparel and drapes intended for use in health care facilities (revision of ANSI/AAMI PB70-2012)

Establishes minimum barrier performance requirements, a classification system, and associated labeling requirements for protective apparel, surgical drapes, and drape accessories intended for use in health care facilities.

Single copy price: Free

Obtain an electronic copy from: abenedict@aami.org

Send comments (with optional copy to psa@ansi.org) to: abenedict@aami.org

BSR/AAMI ST91-202X, Flexible and semi-rigid endoscope processing in health care facilities (revision of ANSI/AAMI ST91-2015)

Provides guidelines for the point-of-use treatment, transporting, leak-testing (where indicated), cleaning, and packaging (where indicated), high-level disinfecting and/or sterilizing, storage, and quality control procedures of flexible gastrointestinal (GI) endoscopes; flexible bronchoscopes; flexible ear, nose, and throat endoscopes; flexible urology endoscopes; and other types of reusable flexible endoscopes used in procedural and surgical settings, and semi-rigid operative endoscopes (e.g., choledochoscopes) used in health care facilities. These guidelines are intended to provide comprehensive information and direction for health care personnel in the processing of these reusable devices and accessories to render them safe for patient use.

Single copy price: Free

Obtain an electronic copy from: abenedict@aami.org

Send comments (with optional copy to psa@ansi.org) to: abenedict@aami.org

ABYC (American Boat and Yacht Council)

New Standard

BSR/ABYC P-28-202x, Electric/Electronic Control Systems for Propulsion and Steering (new standard)

This standard addresses the design, construction, testing, and installation of electric/electronic control systems that consist of any one or more of the following features: steering, forward or reverse thrust, speed, and tilt/trim of propulsion machinery on boats. This standard applies to physically wired and wireless electric/electronic control systems for steering equipment, propulsion machinery, and trim/tilt of propulsion machinery on boats. This standard also addresses the marking and orientation of controls.

Single copy price: \$50.00

Obtain an electronic copy from: www.abycinc.org

Send comments (with optional copy to psa@ansi.org) to: comments@abycinc.org

ABYC (American Boat and Yacht Council)

Revision

BSR/ABYC A-23-202x, Sound Signal Appliances (revision of ANSI/ABYC A-23-2018)

This standard is a guide for the design, construction, performance, and installation of sound signal appliances for vessels operating in international waters and vessels operating in inland waters.

Single copy price: \$50.00

Obtain an electronic copy from: www.abycinc.org

Send comments (with optional copy to psa@ansi.org) to: comments@abycinc.org

BSR/ABYC H-4-202x, Cockpit Drainage Systems (revision of ANSI/ABYC H-4-2015)

This standard applies to all boats with cockpits and addresses the definition, design, and construction of cockpit drainage systems.

Single copy price: \$50.00

Obtain an electronic copy from: www.abycinc.org

Send comments (with optional copy to psa@ansi.org) to: comments@abycinc.org

BSR/ABYC P-14-202x, Mechanical Propulsion Control Systems (revision of ANSI/ABYC P-14-2016)

This standard addresses the design, construction, testing, and installation of systems for mechanical remote control of the forward and reverse thrust, speed, and trim/tilt of propulsion machinery on boats. This standard applies to mechanical remote control systems for boat propulsion machinery and its trim/tilt adjustment mechanisms.

Single copy price: \$50.00

Obtain an electronic copy from: www.abycinc.org

Send comments (with optional copy to psa@ansi.org) to: comments@abycinc.org

BSR/ABYC S-7-202x, Boat Capacity Labels (revision of ANSI/ABYC S-7-2015)

This industry conformity standard establishes methods for the display of capacity information on boats. This standard applies to boats less than 26 ft (8.0 m) in length, or as required to have capacity labels in accordance with ABYC Standards.

Single copy price: \$50.00

Obtain an electronic copy from: www.abycinc.org

Send comments (with optional copy to psa@ansi.org) to: comments@abycinc.org

API (American Petroleum Institute)

New Standard

BSR/API RP 1162-202x, Public Awareness Programs for Pipeline Operators (new standard)

This document addresses the development, implementation, evaluation, and documentation of pipeline safety public awareness programs associated with active transmission, local distribution, and gathering pipeline systems in the United States. Communications related to new pipeline construction, offshore operations, abnormal operations and emergencies are not covered by this recommended practice (RP). It is not intended to provide guidance to operators for communications about operator-specific performance measures that are addressed through other means of regulatory reporting. This RP recognizes there are differences in pipeline conditions, release characteristics, stakeholder audiences, excavation activities, and other factors which can influence the development and implementation of public awareness programs. This RP provides operators with the elements of a baseline public awareness program as well as supplemental components that operators may consider when developing and implementing a public awareness program. This RP addresses certain operational changes that may require additional communication based on the introduction of new hazards.

Single copy price: \$135.00

Obtain an electronic copy from: buflodj@api.org

Send comments (with optional copy to psa@ansi.org) to: John Buflod, buflodj@api.org

ASABE (American Society of Agricultural and Biological Engineers)

Revision

BSR/ASAE S436.2 MONYEAR-202x, Field Test Procedure for Determining Irrigation Water Distribution Uniformity of Center Pivot and Lateral Move Systems (revision and redesignation of ANSI/ASAE S436.1-1997 (R2016))

This Standard defines an in-field method for characterizing the uniformity of water distribution of sprinkler packages installed on center pivots and lateral move irrigation machines.

Single copy price: \$65.00 (non-members)/\$45.00 (ASABE members)

Obtain an electronic copy from: walsh@asabe.org

Order from: Jean Walsh, (269) 932-7027, walsh@asabe.org

Send comments (with optional copy to psa@ansi.org) to: walsh@asabe.org

ASCE (American Society of Civil Engineers)

Revision

BSR/ASCE/EWRI 44-202x, Standard Practice for the Design, Operation, and Evaluation of Supercooled Fog Dispersal Projects (revision of ANSI/ASCE/EWRI 44-2013)

The focus of this standard is the dispersal of supercooled fog. Fog-clearing operations are required under U.S. law to be reported to the National Oceanic and Atmospheric Administration (NOAA). Sponsors shall periodically publish the results of these activities, because knowing about them could improve the understanding of fogs and their impacts on society and the environment. The remainder of this document includes capability statements for fog dispersal and an abridged version of the physics of supercooled fog formation and dispersal, as well as recommendations for planning, organizing, conducting, and evaluating a supercooled fog dispersal project.

Single copy price: Free

Obtain an electronic copy from: jneckel@asce.org

Order from: James Neckel, (703) 295-6176, jneckel@asce.org

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

ASIS (ASIS International)

Revision

BSR/ASIS WVPI AA-202x, Workplace Violence and Active Assailant - Prevention, Intervention, and Response (revision and redesignation of ANSI ASIS/SHRM WVPI.1-2011)

This Standard provides an overview of policies, processes, and protocols that organizations can adopt to help prevent threatening behavior and violence affecting the workplace and better respond to and resolve security incidents. Standard describes the implementation of a workplace violence prevention and intervention program, and protocols for effective incident management and resolution. Standard also includes an annex on active assailants which provides actionable information and guidance relative to prevention, intervention and response to incidents involving an active assailant/active shooter.

Single copy price: \$50.00

Obtain an electronic copy from: standards@asisonline.org

Send comments (with optional copy to psa@ansi.org) to: standards@asisonline.org

ASME (American Society of Mechanical Engineers)

Revision

BSR/ASME B31.1-202x, Power Piping (revision of ANSI/ASME B31.1-2018)

This code prescribes minimum requirements for the design, materials, fabrication, erection, test, and inspection of power and auxiliary service piping systems for electric generation station, industrial and institutional plants, central and district heating plants, and district heating systems.

Single copy price: Free

Obtain an electronic copy from: <http://cstools.asme.org/publicreview>

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

Send comments (with optional copy to psa@ansi.org) to: Umberto D'Urso, dursou@asme.org

CPLSO

New National Adoption

BSR/CPLSO 60335-2-76-202x, Particular requirements for electric fence energizers (national adoption with modifications of IEC 60335-2-76 (2018))

This standard deals with the safety of electric fence energizers, the rated voltage of which is not more than 250 V and by means of which security fences may be electrified or monitored.

Single copy price: \$250.00

Obtain an electronic copy from: pratt.hugh@cplso.org

Send comments (with optional copy to psa@ansi.org) to: pratt.hugh@cplso.org

CTA (Consumer Technology Association)

Reaffirmation

BSR/CTA 2045.1-2014 (R202x), Modular Communications Interface for Firmware Transfer Message Set (reaffirmation of ANSI/CTA 2045.1-2014)

This specification is an extension of the ANSI/CTA 2045-A, Modular Communications Interface (MCI) for Energy Management Specification. It presents messages and methods that enable reprogramming the SGD firmware over the MCI interface.

Single copy price: Free

Obtain an electronic copy from: standards@cta.tech

Order from: Veronica Lancaster, (703) 907-7697, vlancaster@cta.tech

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

BSR/CTA 2045.3-2014 (R202x), Modular Communications Interface for Thermostat Message Set (reaffirmation of ANSI/CTA 2045.3-2014)

The specification is an extension of the ANSI/CTA 2045-A Modular Communications Interface (MCI) for Energy Management Specification. It presents messages and methods for Thermostat-based functionality.

Single copy price: Free

Obtain an electronic copy from: standards@cta.tech

Order from: Veronica Lancaster, (703) 907-7697, vlancaster@cta.tech

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

IIAR (International Institute of Ammonia Refrigeration)

New Standard

BSR/IIAR CO2-202X, Safety Standard for Closed-Circuit Carbon Dioxide Refrigeration Systems (new standard)

This standard specifies minimum requirements for the safe design; installation; startup; and inspection, testing, and maintenance (ITM) of closed-circuit carbon dioxide refrigeration systems and any modifications or additions to an existing system.

Single copy price: Free

Obtain an electronic copy from: TONY_LUNDELL@IIAR.ORG

Order from: Tony Lundell, (703) 312-4200, tony_lundell@iiar.org

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

NCPDP (National Council for Prescription Drug Programs)

Revision

BSR/NCPDP PDMP Reporting Standard v13-202x, NCPDP Prescription Drug Monitoring Programs (PDMP) Reporting Standard v13 (revision and redesignation of ANSI/NCPDP PDMP Reporting Standard v12-2019)

Reports controlled-substance and other required drug information to assist healthcare providers to deter prescription drug abuse to ensure access for patients with valid medical needs. This standard assists in allowing for a sustainable approach to eliminate data silos and promote interoperability by allowing actionable and timely information to prescribers and pharmacists using existing workflows to ease adoption and support patient safety efforts to curb prescription drug abuse.

Single copy price: \$200.00 (non-member)

Obtain an electronic copy from: kkrempin@ncdpd.org

Send comments (with optional copy to psa@ansi.org) to: kkrempin@ncdpd.org

BSR/NCPDP RTPB Standard v10-202x, NCPDP Real-Time Prescription Benefit Standard v10 (revision and redesignation of ANSI/NCPDP RTPB Standard vBT-2019)

The NCPDP Real-Time Prescription Benefit Standard Implementation Guide is intended to meet the industry need within the pharmacy services sector to facilitate the ability for pharmacy benefit payers/processors to communicate to providers and to ensure a consistent implementation of the standard throughout the industry. The RTPB Standard enables the exchange of patient eligibility, product coverage, and benefit financials for a chosen product and pharmacy, and identifies coverage restrictions, and alternatives when they exist.

Single copy price: \$200.00 (non-member)

Obtain an electronic copy from: kkrempin@ncdpd.org

Send comments (with optional copy to psa@ansi.org) to: kkrempin@ncdpd.org

BSR/NCPDP SC WG1100842020xx-202x, NCPDP SCRIPT Standard WG1100842020xx (revision and redesignation of ANSI/NCPDP SC Standard 2020011-2019)

The SCRIPT Standard provides general guidelines for developers of pharmacy or physician management systems who wish to provide prescription transmission functionality to their clients. The standard addresses the electronic transmission of new prescriptions, prescription refill requests, prescription fill status notifications, and cancellation notifications.

Single copy price: \$200.00 (non-member)

Obtain an electronic copy from: kkrempin@ncdpd.org

Send comments (with optional copy to psa@ansi.org) to: kkrempin@ncdpd.org

BSR/NCPDP Specialized Standard WG1100842020xx-202x, NCPDP Specialized Standard WG1100842020xx (revision and redesignation of ANSI/NCPDP SC Standard 2020011-2019)

The NCPDP Specialized Standard will house transactions that are not eprescribing but are part of the NCPDP XML environment. The standard provides general guidelines for developers of systems who wish to provide business functionality of these transactions to their clients. The guide describes a set of transactions and the implementation of these transactions.

Single copy price: \$200.00 (non-member)

Obtain an electronic copy from: kkrempin@ncdpd.org

Send comments (with optional copy to psa@ansi.org) to: kkrempin@ncdpd.org

NEMA (ASC C82) (National Electrical Manufacturers Association)

New National Adoption

BSR C82.77-9-202x, Standard for Lighting Equipment Injected Currents (national adoption with modifications of IEC 61000-4-6 Edition 4 2013-10)

This standard is a Nationally Acknowledged International Standard (NAIS) of IEC 61000-4-6 with regional deviations.

Single copy price: \$50.00

Obtain an electronic copy from: michael.erbesfeld@nema.org

Order from: Michael Erbesfeld, (703) 841-3262, Michael.Erbesfeld@nema.org

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

NEMA (ASC C82) (National Electrical Manufacturers Association)

New Standard

BSR C82.77-1-202x, Standard for Lighting Equipment - Electromagnetic Compatibility (EMC) - General Requirements and Criteria (new standard)

This standard defines the Electromagnetic Compatibility "EMC" (immunity and interference) performance levels, testing methods, and performance criteria for lighting products in a frequency range from 0 to 400 GHz. This standard applies to lighting products intended to be directly connected to the mains (up to 600 V), dc (up to 250 Vdc), battery operated, or to a non-public, low-voltage power distribution system.

Single copy price: \$50.00

Obtain an electronic copy from: michael.erbesfeld@nema.org

Order from: Michael Erbesfeld, (703) 841-3262, Michael.Erbesfeld@nema.org

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

NFPA (National Fire Protection Association)

NFPA FIRE PROTECTION STANDARDS DOCUMENTATION

The National Fire Protection Association announces the availability of the NFPA First Draft Reports for concurrent review and comment by NFPA and ANSI. These First Draft Reports contains the disposition of public inputs that were received for documents in the Annual 2021 Revision Cycle. The First Draft Report is located on the document's information page under the next edition tab. The document's specific URL, www.nfpa.org/doc#next (for example www.nfpa.org/101next), can easily access the document's information page. All Comments on documents in the Annual 2021 Revision Cycle must be received by May 6, 2020. The disposition of all comments received from the review of the First Draft Report will be published in the Second Draft Report, and will also be available on the document's information page under the next edition tab. For more information on the rules and for up-to-date information on schedules and deadlines for processing NFPA Documents, check the NFPA website (<http://www.nfpa.org>) or contact NFPA's Codes and Standards Administration. Those who sent comments to NFPA (Contact Codes and Standards Administration, NFPA, One Batterymarch Park, Quincy, MA 02269-7471) on the related standards are invited to copy ANSI's Board of Standards Review.

Revision

BSR/NFPA 13-202x, Standard for the Installation of Sprinkler Systems (revision of ANSI/NFPA 13-2019)

This standard provides a range of sprinkler system approaches, design development alternatives, and component options that are all acceptable. Building owners and their designated representatives are advised to carefully evaluate proposed selections for appropriateness and preference. This standard shall provide the minimum requirements for the design and installation of automatic fire sprinkler systems and exposure protection sprinkler systems covered within this standard. This standard shall not provide requirements for the design or installation of water-mist fire-protection systems, which are not considered fire sprinkler systems and are addressed by NFPA 750. This standard is written with the assumption that the sprinkler system shall be designed to protect against a single fire originating within the building. This standard also provides guidance for the installation of systems for exterior protection and specific hazards. Where these systems are installed, they are also designed for protection of a fire from a single ignition source.

Obtain an electronic copy from: www.nfpa.org/13Next

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

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 15-202x, Standard for Water Spray Fixed Systems for Fire Protection (revision of ANSI/NFPA 15-2017)

This standard provides the minimum requirements for the design, installation, and system acceptance testing of water-spray fixed systems for fire protection service and the minimum requirements for the periodic testing and maintenance of ultra-high-speed water-spray fixed systems. Water-spray fixed systems shall be specifically designed to provide for effective fire control, extinguishment, prevention, or exposure protection. Water-spray systems can be independent of, or supplementary to, other forms of protection. The design of specific systems can vary considerably, depending on the nature of the hazard and the basic purposes of protection. Because of these variations and the wide choice in the characteristics of spray nozzles, these systems should be competently designed, installed, and maintained. It should be essential that their limitations, as well as their capabilities, be thoroughly understood by the designer. This standard does not provide specific design guidance for dry pipe or double interlock preaction systems. This standard shall not apply to water spray protection from portable nozzles, sprinkler systems, monitor nozzles, water-mist suppression systems, explosion suppression, or other means of application covered by other standards of NFPA. For information on these applications, refer to the following...

Obtain an electronic copy from: www.nfpa.org/15Next

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

BSR/NFPA 20-202x, Standard for the Installation of Stationary Pumps for Fire Protection (revision of ANSI/NFPA 20-2019)

For more information, see NFPA 25, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems, and NFPA 70, National Electrical Code, Article 695. This standard deals with the selection and installation of pumps supplying liquid for private fire protection. The scope of this document shall include liquid supplies; suction, discharge, and auxiliary equipment; power supplies, including power supply arrangements; electric drive and control; diesel engine drive and control; steam turbine drive and control; and acceptance tests and operation. This standard does not cover system liquid supply capacity and pressure requirements, nor does it cover requirements for periodic inspection, testing, and maintenance of fire pump systems. This standard does not cover the requirements for installation wiring of fire pump units.

Obtain an electronic copy from: www.nfpa.org/20Next

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

BSR/NFPA 72®-202x, National Fire Alarm and Signaling Code® (revision of ANSI/NFPA 72-2019)

NFPA 72 covers the application, installation, location, performance, inspection, testing, and maintenance of fire alarm systems, supervising station alarm systems, public emergency alarm reporting systems, fire warning equipment and emergency communications systems (ECS), and their components. The provisions of this chapter apply throughout the Code unless otherwise noted

Obtain an electronic copy from: www.nfpa.org/72Next

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

BSR/NFPA 80-202x, Standard for Fire Doors and Other Opening Protectives (revision of ANSI/NFPA 80-2019)

This standard regulates the installation and maintenance of assemblies and devices used to protect openings in walls, floors, and ceilings against the spread of fire and smoke within, into, or out of buildings. See Annex K in the standard for general information about fire doors. With the exception of fabric fire-safety curtain assemblies, this standard addresses assemblies that have been subjected to standardized fire tests. (See Chapter 20.) No fire-test standard requirement currently exists to which fabric fire-safety curtain assemblies can be tested. Only the curtain fabric is tested in accordance with ASTM E119, Standard Test Methods for Fire Tests of Building Construction and Materials. The perimeter and internal framework and all supporting, guide, and operating components used in specific applications are not tested. Variations in size of proscenium openings and the amount of side and head clearances available for individual stages dictate the number of variations in design of the assemblies. Incinerator doors, record room doors, and vault doors are not covered in this standard. For requirements on their installation, see NFPA 82, Standard on Incinerators and Waste and Linen Handling Systems and Equipment, and NFPA 232, Standard for the Protection of...

Obtain an electronic copy from: www.nfpa.org/80Next

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

BSR/NFPA 105-202x, Standard for Smoke Door Assemblies and Other Opening Protectives (revision of ANSI/NFPA 105-2019)

This standard shall prescribe minimum requirements for smoke door assemblies for use in providing safety to life and protection of property from smoke.

Obtain an electronic copy from: www.nfpa.org/105Next

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

BSR/NFPA 400-202x, Hazardous Materials Code (revision of ANSI/NFPA 400-2019)

This code shall apply to the storage, use, and handling of the following hazardous materials in all occupancies and facilities: (1) Ammonium nitrate solids and liquids, (2) Corrosive solids and liquids, (3) Flammable solids, (4) Organic peroxide formulations, (5) Oxidizer — solids and liquids, (6) Pyrophoric solids and liquids, (7) Toxic and highly toxic solids and liquids, (8) Unstable (reactive) solids and liquids, (9) Water-reactive solids and liquids, and (10) Compressed gases and cryogenic fluids as included within the context of NFPA 55, Compressed Gases and Cryogenic Fluids Code. It is not intended that NFPA 400 regulate compressed gases or cryogenic fluids outside of the scope of NFPA 55, Compressed Gases and Cryogenic Fluids Code; including LPG as regulated by NFPA 58, Liquefied Petroleum Gas Code; fuel gas as regulated by NFPA 54, National Fuel Gas Code; vehicular fuels as regulated by NFPA 52, Vehicular Gaseous Fuel Systems Code; or LNG as regulated by NFPA 59, Utility LP-Gas Plant Code. Refer to the specific exemptions referred to in 21.1.1.2 of this standard. Manufacturing operations are covered by this code when the manufacturing operation involves the storage or use of hazardous materials regulated by this code. When quantities exceed...

Obtain an electronic copy from: www.nfpa.org/400Next

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

UL (Underwriters Laboratories, Inc.)***Reaffirmation*****BSR/UL 234-2015 (R202x), Standard for Safety for Low Voltage Lighting Fixtures for Use in Recreational Vehicles (reaffirmation of ANSI/UL 234-2015)**

Reaffirmation and continuance of the fifth edition of the Standard for Safety for Low-Voltage Lighting Fixtures for Use in Recreational Vehicles, UL 234, as an American National Standard.

Single copy price: Free

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) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

BSR/UL 618-2010 (R202x), Standard for Concrete Masonry Units (reaffirmation of ANSI/UL 618-2010 (R2015))

UL proposes a reaffirmation of UL 618.

Single copy price: Free

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) 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, Inc.)

Revision

BSR/UL 1574-202x, Standard for Safety for Track Lighting Systems (revision of ANSI/UL 1574-2012 (R2016))

This proposal for UL 1574 covers: Revisions to include requirements for Low Voltage Track Systems.

Single copy price: Free

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) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Comment Deadline: May 12, 2020

Reaffirmations and withdrawals available electronically may be accessed at: webstore.ansi.org

ASME (American Society of Mechanical Engineers)

Reaffirmation

BSR/ASME A112.4.2/CSA B45.16-2015 (R202x), Personal Hygiene Devices for Water Closets (reaffirmation of ANSI/ASME A112.4.2/CSA B45.16-2015)

This Standard covers personal hygiene devices for water closets and specifies requirements for materials, construction, performance, testing, and markings.

Single copy price: \$70.00

Obtain an electronic copy from: <http://cstools.asme.org/publicreview>

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

Send comments (with optional copy to psa@ansi.org) to: Angel L. Guzman Rodriguez, guzman@asme.org

BSR/ASME B5.54-2010 (R202x), Methods for Performance Evaluation of Computer Numerically Controlled Machining Centers (reaffirmation of ANSI/ASME B5.54-2010 (R2015))

This Standard establishes methodology for specifying and testing the performance of CNC machining centers.

Single copy price: \$115.00

Obtain an electronic copy from: <http://cstools.asme.org/publicreview>

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

Send comments (with optional copy to psa@ansi.org) to: Lawrence Chan, chanl4@asme.org

BSR/ASME B94.2-1995 (R202x), Reamers (reaffirmation of ANSI/ASME B94.2-1995 (R2015))

This Standard covers nomenclature, definitions, types, sizes, and tolerances for reamers.

Single copy price: \$50.00

Obtain an electronic copy from: <http://cstools.asme.org/publicreview>

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

Send comments (with optional copy to psa@ansi.org) to: Lawrence Chan, chanl4@asme.org

BSR/ASME B94.35-1972 (R202x), Drill Drivers, Split-Sleeve, Collet Type (reaffirmation of ANSI/ASME B94.35-1972 (R2015))

This standard covers split-sleeve, collet-type drivers for driving straight-shank drills, reamers and similar tools, without tangs from 0.0390 dia. through 0.1220 dia., and with tangs for tools from 0.1250 dia. through 0.7500 dia.

Single copy price: \$33.00

Obtain an electronic copy from: <http://cstools.asme.org/publicreview>

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

Send comments (with optional copy to psa@ansi.org) to: Lawrence Chan, chanl4@asme.org

BSR/ASME B94.49-1975 (R202x), Spade Drill Blades and Spade Drill Holders (reaffirmation of ANSI/ASME B94.49-1975 (R2010))

This Standard covers nomenclature, definitions, sizes, and tolerances for spade drill blades and spade drill holders insofar as the holder locates and holds the spade drill blade.

Single copy price: \$33.00

Obtain an electronic copy from: <http://cstools.asme.org/publicreview>

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

Send comments (with optional copy to psa@ansi.org) to: Lawrence Chan, chanl4@asme.org

BSR/ASME B94.54-1999 (R202x), Specifications for Hole Saws, Hole Saw Arbors, and Hole Saw Accessories (reaffirmation of ANSI/ASME B94.54-1999 (R2015))

This Standard provides a useful criterion of practice in the production, distribution, and use of high-speed steel, grit edge, and carbide-tipped nonadjustable hole saws and their accessories.

Single copy price: \$36.00

Obtain an electronic copy from: <http://cstools.asme.org/publicreview>

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

Send comments (with optional copy to psa@ansi.org) to: Lawrence Chan, chanl4@asme.org

BSR/ASME MFC 21.1-2015 (R202x), Measurement of Gas Flow by Means of Capillary Tube Thermal Mass Flowmeters and Mass Flow Controllers (reaffirmation of ANSI/ASME MFC 21.1-2015)

This Standard establishes common terminology and gives guidelines for the quality, description, principle of operation, selection, operation, installation, and flow calibration of capillary-tube thermal-mass flowmeters and controllers for the measurement and control of the mass flow rate of gases. The content of this standard applies to single-phase flows of pure gases and gas mixtures of known composition.

Single copy price: \$45.00

Obtain an electronic copy from: <http://cstools.asme.org/publicreview>

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

Send comments (with optional copy to psa@ansi.org) to: Michelle Pagano, paganom@asme.org

Project Withdrawn

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

ASTM (ASTM International)

BSR/ASTM E1038-201x, Test Method for Determining Resistance of Photovoltaic Modules to Hail by Impact with Propelled Ice Balls (new standard)

Inquiries may be directed to Corice Leonard, (610) 832-9744, accreditation@astm.org

BSR/ASTM WK65987-201x, New Test Method for Determining Fire Resistance of a Building Joint System between a Rated Wall Assembly and a Non-Rated Exterior Wall (new standard)

Inquiries may be directed to Laura Klineburger, (610) 832-9744, accreditation@astm.org

Correction

Incorrect Designation

BSR/EIA 364-65B-2009 (R202x)

The Standards Action Public Review notice published on: 3/6/2020 for BSR/EIA 364-61A (R202x) (reaffirmation of ANSI/EIA 364-61A (R2019)) was incorrectly designated. This proposal is actually for BSR/EIA 364-65B-2009 (R202x) and is a (reaffirmation of ANSI/EIA 364-65B-2009). Both the title and scope were printed correctly.

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.

AAMI (Association for the Advancement of Medical Instrumentation)

Contact: Wil Vargas
Phone (703) 647-2779
E-mail: wvargas@aami.org
Office: 901 N. Glebe Road
 Suite 300
 Arlington, VA 22203

BSR/AAMI/ISO 15223-1/Ed.4-202x, Medical devices - Symbols to be used with medical device labels, labelling and information to be supplied - Part 1: General requirements (identical national adoption of ISO 15223-1/Ed.4 and revision of ANSI/AAMI/ISO 15223-1:2016)

AHAM (Association of Home Appliance Manufacturers)

Contact: Djed Mouada
Phone (202) 872-5313
E-mail: dmouada@aham.org
Office: 1111 19th Street NW
 Suite 402
 Washington, DC 20036

BSR/AHAM AC-1-202x, Method for Measuring Performance of Portable Household Electric Room Air Cleaners (revision of ANSI/AHAM AC-1-2015)

ASABE (American Society of Agricultural and Biological Engineers)

Contact: Carla VanGilder
Phone (269) 932-7015
E-mail: vangilder@asabe.org
Office: 2950 Niles Road
 Saint Joseph, MI 49085

BSR/ASABE S613-2.2 MONYEAR-202x, Tractors and self-propelled machinery for agriculture - Air quality systems for cabs - Part 2: Cab & HVAC design (revision and redesignation of ANSI/ASABE S613-2.1 JUN2013)

ASME (American Society of Mechanical Engineers)

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

BSR/ASME A18.1-202x, Safety Standard for Platform Lifts and Stairway Chairlifts (revision of ANSI/ASME A18.1 2017)

ASQ (American Society for Quality)

Contact: Julie Sharp
Phone (800) 248-1946
E-mail: standards@asq.org
Office: 600 N Plankinton Ave
 Milwaukee, WI 53203

BSR/ASQ E5-202x, Quality Program Guidelines for Nonnuclear Power Generation Facilities (new standard)

ECIA (Electronic Components Industry Association)

Contact: Laura Donohoe
Phone (571) 323-0294
E-mail: ldonohoe@ecianow.org
Office: 13873 Park Center Road
 Suite 315
 Herndon, VA 20171

BSR/EIA 364-61A (R202x), Mixed Flowing Gas Test Procedure for Electrical Connectors and Sockets (reaffirmation of ANSI/EIA 364-61A (R2019))

FCI (Fluid Controls Institute)

Contact: Leslie Schraff
Phone (216) 241-7333
E-mail: fci@fluidcontrolsinstitute.org
Office: 1300 Sumner Avenue
 Cleveland, OH 44115

BSR/FCI 99-2-202x, Standard for Pressure Reducing Regulator Capacity (revision of ANSI/FCI 99-2-2015)

IES (Illuminating Engineering Society)

Contact: Patricia McGillicuddy
Phone (917) 913-0027
E-mail: pmcgillicuddy@ies.org
Office: 120 Wall Street, Floor 17
 New York, NY 10005

BSR/IES LS-3-202x, Lighting Science: Physics and Optics of Radiant Power (new standard)

BSR/IES LS-6-202x, Lighting Science: Calculation of Light and Its Effects (new standard)

BSR/IES LP-6-202x, Lighting Practice: Lighting Control Systems - Properties, Equipment and Specification (new standard)

BSR/IES LP-7-202x, Lighting Practice: The Lighting Design and Construction Process (new standard)

BSR/IES LS-8-202x, Lighting Science: Vision - Perceptions and Performance (new standard)

BSR/IES LP-11-202x, Lighting Practice: Environmental Considerations for Outdoor Lighting (new standard)

BSR/IES LM-61-202x, Approved Method: Identifying Operating Factors for Installed High Intensity Discharge Luminaires (new standard)

BSR/IES LM-72-202x, Approved Method: Directional Positioning of Photometric Data (new standard)

BSR/IES RP-2-202x, Recommended Practice: Lighting Retail Spaces (new standard)

BSR/IES RP-3-202x, Recommended Practice: Lighting Educational Facilities (revision of ANSI/IESNA RP-3-2013)

BSR/IES RP-10-202x, Recommended Practice: Lighting Common Applications (new standard)

BSR/IES RP-27-202x, Recommended Practice: Photobiological Safety for Lighting Systems (revision, redesignation and consolidation of ANSI/IESNA RP-27.1-2015, ANSI/IESNA RP-27.2-2000 (R2010), and ANSI/IES RP-27.3-2017)

BSR/IES RP-31-202x, Recommended Practice: Economic Analysis of Lighting (new standard)

BSR/IES RP-42-202x, Recommended Practice: Dimming and Control Method Designations (new standard)

BSR/IES RP-16-2017, Addendum 4-202x, Nomenclature and Definitions for Illuminating Engineering (addenda to ANSI/IES RP-16-2017)

BSR/IES TM-26-202x, Technical Memorandum: Projecting Catastrophic Failure Rate of LED Packages (new standard)

BSR/IES TM-28-202x, Technical Memorandum: Projecting Long-Term Luminous Flux Maintenance of LED Lamps and Luminaires (new standard)

BSR/IES/ALA RP-11-202x, Lighting for Interior and Exterior Residential Environments (revision of ANSI/IES/ALA RP-11-2017)

NSF (NSF International)

Contact: Allan Rose
Phone (734) 827-3817
E-mail: arose@nsf.org
Office: 789 N. Dixboro Road
 Ann Arbor, MI 48105-9723

BSR/NSF 6-202x (i16r1), Dispensing Freezers (revision of ANSI/NSF 6-2018)

Contact: Jason Snider
Phone (734) 418-6660
E-mail: jsnider@nsf.org
Office: 789 N. Dixboro Road
 Ann Arbor, MI 48105-9723

BSR/NSF 40-202x (i35r2), Residential Wastewater Treatment Systems (revision of ANSI/NSF 40-2018)

BSR/NSF 245-202x (i17r2), Residential Wastewater Treatment Systems - Nitrogen Reduction (revision of ANSI/NSF 245-2018)

BSR/NSF 350-202x (i48r2), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2019)

Contact: Rachel Brooker
Phone (734) 827-6866
E-mail: rbrooker@nsf.org
Office: 789 N. Dixboro Road
 Ann Arbor, MI 48105-9723

BSR/NSF 173-202x (i62r1), Dietary Supplements (revision of ANSI/NSF 173-2019)

BSR/NSF 455-2-202x (i2r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2018)

BSR/NSF 455-2-202x (i3r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2018)

BSR/NSF 455-2-202x (i4r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2018)

BSR/NSF 455-2-202x (i6r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2018)

BSR/NSF 455-2-202x (i7r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2018)

BSR/NSF 455-3-202x (i21r1), Good Manufacturing Practices for Cosmetics (revision of ANSI/NSF 455-3-2018)

BSR/NSF 455-4-202x (i13r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

BSR/NSF 455-4-202x (i14r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

BSR/NSF 455-4-202x (i15r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

BSR/NSF 455-4-202x (i17r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

BSR/NSF 455-4-202x (i19r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

BSR/NSF 455-4-202x (i22r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

TAPPI (Technical Association of the Pulp and Paper Industry)

Contact: Deborah Dodson

Phone (770) 209-7278

E-mail: standards@tappi.org

Office: 15 Technology Parkway South
Suite 115
Peachtree Corners, GA 30092

BSR/TAPPI T 844 om-202x, Determining construction (nominal basis weight) of corrugated board (new standard)

UAMA (ASC B74) (Unified Abrasives Manufacturers' Association)

Contact: Donna Haders

Phone (440) 899-0010

E-mail: djh@wherryassoc.com

Office: 30200 Detroit Road
Cleveland, OH 44145-1967

BSR B74.11-202x, Specifications for Random Shaped Tumbling Chip Abrasives (revision of ANSI B74.11-2014)

VITA (VMEbus International Trade Association (VITA))

Contact: Jing Kwok

Phone (602) 281-4497

E-mail: jing.kwok@vita.com

Office: 929 W. Portobello Avenue
Mesa, AZ 85210

BSR/VITA 42.3-202x, XMC PCI Express Protocol Layer Standard (revision of ANSI/VITA 42.3-2014)

BSR/VITA 46.30-202x, Higher Data Rate VPX (new standard)

BSR/VITA 62.2-202x, Modular Power Supply Standard for 270v Applications (new standard)

BSR/VITA 67.3-202x, Coaxial Interconnect on VPX, Spring-Loaded Contact on Backplane (revision of ANSI/VITA 67.3-2017)

Call for Members (ANS Consensus Bodies)

Call for Members

GTESS

GTESS is forming a new Consensus Board for the standards development organization (SDO). The scope of the GTESS SDO is “Standards and related documents relative to energy management systems”.

GTESS actively works with scheme owners and interested parties in the development of energy management related standards to promote energy efficiency, energy security, and sustainability practices such as management of greenhouse gas emissions. The Consensus Board serves as oversight for the standards developed to support U.S. standards such as ANSI/MSE 50028-1 on the Superior Energy Performance Program. It also works with the GTESS accredited Technical Advisory Group (TAG) to ISO TC 301 Energy management and energy savings in matters related to the adoption of National Standards from ISO TC 301. We invite those directly and materially interested in any interest category to enquire. Please contact deann.desai@gatech.edu to find out more about participating

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.

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.

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

Addenda

ANSI/ASHRAE/ASHE Addendum 170n-2017, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE Standard 170-2017): 3/3/2020

ASME (American Society of Mechanical Engineers)

Reaffirmation

ANSI/ASME PTC 39-2005 (R2020), Steam Traps (reaffirmation of ANSI/ASME PTC 39-2005 (R2010)): 3/5/2020

Revision

ANSI/ASME A112.19.7/CSA B45.10-2020, Hydromassage Bathtub Appliances (revision of ANSI/ASME A112.19.7/CSA B45.10-2012 (2017)): 3/5/2020

ASTM (ASTM International)

New Standard

ANSI/ASTM F2968/F2968M-2020, Specification for Black Crosslinked Polyethylene (PEX) Pipe, Fittings and Joints For Gas Distribution Applications (new standard): 3/1/2020

Reaffirmation

ANSI/ASTM F906-1985 (R2020), Specification for Letters and Numerals for Ships (reaffirmation of ANSI/ASTM F906-1985 (R2014)): 2/25/2020

ANSI/ASTM F1130-2000 (R2020x), Practice for Inspecting the Coating System of a Ship (reaffirmation of ANSI/ASTM F1130-2000 (R2014)): 2/25/2020

ANSI/ASTM F1323-2014 (R2020), Specification for Shipboard Incinerators (reaffirmation of ANSI/ASTM F1323-2014): 2/25/2020

ANSI/ASTM F2191-2013 (R2020), Specification for Packing Material, Graphitic or Carbon Braided Yarn (reaffirmation of ANSI/ASTM F2191-2013): 2/25/2020

ANSI/ASTM F3052-2014 (R2020), Guide for Conducting Small Boat Stability Test (Deadweight Survey and Air Inclining Experiment) to Determine Lightcraft Weight and Centers of Gravity of a Small Craft (reaffirmation of ANSI/ASTM F3052-2014): 2/25/2020

Revision

ANSI/ASTM D3241-2020, Test Method for Thermal Oxidation Stability of Aviation Turbine Fuels (revision of ANSI/ASTM D3241-2019A): 3/1/2020

ANSI/ASTM E84-2020, Test Method for Surface Burning Characteristics of Building Materials (revision of ANSI/ASTM E84-2015): 3/1/2020

ANSI/ASTM F1948-2020, Specification for Metallic Mechanical Fittings for Use on Outside Diameter Controlled Thermoplastic Gas Distribution Pipe and Tubing (revision of ANSI/ASTM F1948-2019): 2/25/2020

ANSI/ASTM F2788-2020, Specification for Metric and Inch-sized Crosslinked Polyethylene (PEX) Pipe (revision of ANSI/ASTM F2788-2019a): 2/25/2020

ANSI/ASTM F2829-2020, Specification for Metric- and Inch-Sized Crosslinked Polyethylene (PEX) Pipe Systems (revision of ANSI/ASTM F2829-2017): 2/25/2020

ANSI/ASTM F3347-2020, Specification for Metal Press Insert Fittings with Factory-Assembled Stainless Steel Press Sleeve for SDR9 Cross-Linked Polyethylene (PEX) Tubing (revision of ANSI/ASTM F3347-2018): 2/25/2020

ANSI/ASTM F3348-2020, Specification for Plastic Press Insert Fittings with Factory-Assembled Stainless Steel Press Sleeve for SDR9 Cross-Linked Polyethylene (PEX) Tubing (revision of ANSI/ASTM F3348-2019): 2/25/2020

AWS (American Welding Society)

New Standard

ANSI/AWS D18.1/D18.1M-2020, Specification for Welding of Austenitic Stainless Steel Tube and Pipe Systems in Sanitary (Hygienic) Applications (new standard): 3/5/2020

ANSI/AWS D18.2/D18.2M-2020, Guide to Weld Discoloration Levels on Inside of Austenitic Stainless Steel Tube (new standard): 3/5/2020

CSA (CSA America Standards Inc.)

New Standard

ANSI/CSA LNG 4.4-2020, Breakaway Devices for Liquefied Natural Gas (LNG) Dispensing (new standard): 3/10/2020

CTA (Consumer Technology Association)

New Standard

* ANSI/CTA 2068-2020, Definitions and Characteristics of Consumer Stress Monitoring Technologies (new standard): 3/10/2020

IIAR (International Institute of Ammonia Refrigeration)

New Standard

ANSI/IIAR 9-2020, Standard for Minimum System Safety Requirements for Existing Closed-Circuit Ammonia Refrigeration Systems (new standard): 3/3/2020

NEMA (ASC C136) (National Electrical Manufacturers Association)

Reaffirmation

ANSI C136.38-2015 (R2020), Induction Lighting (reaffirmation of ANSI C136.38-2015): 3/3/2020

Revision

ANSI C136.3-2020, Luminaire Attachments (revision of ANSI C136.3-2014): 3/3/2020

NEMA (ASC C84) (National Electrical Manufacturers Association)

Revision

ANSI C84.1-2020, Standard for Electric Power Systems and Equipment
Voltage Ratings (60 Hertz) (revision of ANSI C84.1-2016): 3/10/2020

NSF (NSF International)

Revision

ANSI/NSF 169-2020 (i9r1), Special Purpose Food Equipment and Devices
(revision of ANSI/NSF 169-2016): 3/2/2020

ANSI/NSF/AWWA 375-2020 (i2r1), Sustainability Assessment for Water
Contact Products (revision and redesignation of ANSI/NSF 375-2016):
2/25/2020

PLASTICS (Plastics Industry Association)

New Standard

ANSI/PLASTICS B151.5-2020, Safety Requirements for Plastic Film and Sheet
Winding and Unwinding Machinery (new standard): 3/5/2020

UL (Underwriters Laboratories, Inc.)

New National Adoption

ANSI/UL 60335-2-24-2020, Standard for Household and Similar Electrical
Appliances, Part 2: Particular Requirements for Refrigerating Appliances,
Ice-Cream Appliances and Ice-Makers (national adoption of IEC 60335-2
-24 with modifications and revision of ANSI/UL 60335-2-24-2019):
2/27/2020

ANSI/UL 62841-4-1-2020, Standard for Electric Motor-Operated Hand-Held
Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part
4-1: Particular Requirements for Chain Saws (national adoption with
modifications of IEC 62841-4-1): 3/6/2020

Reaffirmation

ANSI/UL 3703-2015a (R2020), Standard for Safety for Solar Trackers
(reaffirmation of ANSI/UL 3703-2015a): 3/10/2020

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.

ASCE (American Society of Civil Engineers)

Contact: James Neckel, (703) 295-6176, jneckel@asce.org
1801 Alexander Bell Dr, Reston, VA 20191

New Standard

BSR/ASCE/CI 71-202x, Identifying, Quantifying, and Proving Loss of Productivity (new standard)

Stakeholders: Owners, designers, contractors, attorneys, mediators, triers of fact, educators, and researchers

Project Need: The fact that loss-of-productivity disputes and claims are increasing in frequency and magnitude. An additional characteristic of loss of productivity claims is that they can be quite complex for many reasons, including the fact that the lost labor-hours are inseparable from the original contract labor-hours. Thus, there is a need to establish standards for the reliable identification and quantification of productivity loss, followed by the determination of causation and liability for that productivity loss.

Managing labor productivity is a crucial component of project success. Because labor costs are typically the most variable and a major component of overall project cost, tracking and measuring labor productivity is helpful in preventing, mitigating, and recovering cost overruns. The numerous published treatises and studies on loss of productivity in the construction industry highlight its importance. Despite that importance, there are inconsistencies in the methodologies used to identify, quantify, and determine causation and liability for labor productivity losses.

EOS/ESD (ESD Association, Inc.)

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

Revision

BSR/ESD SP10.1-202x, ESD Association Standard Practice for the Protection of Electrostatic Discharge Susceptible Items - Automated Handling Equipment (AHE) (revision of ANSI/ESD SP10.1-2016)

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

Project Need: This standard practice provides test procedures for evaluating the electrostatic environment associated with AHE. This document provides testing and data reporting procedures for the evaluation of ESD ground integrity in AHE and for the evaluation of voltage measurements on devices in AHE. These methods evaluate newly installed and existing equipment by verifying the equipment's existing ground paths and by determining if a charge on ESD-sensitive devices (ESDS) can be detected.

This standard practice covers resistance-to-ground measurements of machine components and sources of charge in AHE. Two methods are described to measure sources of charge. One method measures charge indirectly by measuring the voltage or field associated with the charge. The second method directly measures the voltage induced on ESDS items. In particular, it establishes test procedures for:

- the measurement of DC electrical resistance between machine components of AHE and the equipment grounding conductor (EGC). See Annex A;
- testing AHE to determine whether charge is being generated on devices as they move through the equipment;
- reporting the correlation between measured voltages and known test voltages as they apply to AHE. (Charge measuring devices are not addressed in this document.)

Grounding methods and materials specified in this standard may or may not provide adequate grounding for conditions other than steady-state DC. Reactance considerations at any frequency are beyond the scope of this document. In addition, this standard practice does not determine the effectiveness of any grounding method for reducing electromagnetic interference (EMI). Explosive, ordnance, or flammable materials handling considerations are also excluded from this standard practice.

BSR/ESD SP14.5-202x, ESD Association Standard Practice for Electrostatic Discharge Sensitivity Testing - Near Field Immunity Scanning - Component/Module/PCB Level (revision of ANSI/ESD SP14.5-2015)

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

Project Need: The purpose of this standard practice is to establish a test method for immunity scanning of ICs, modules, and PCBs. Results from scanning relate to the system-level performance but cannot be used to predict system-level performance using the IEC 61000-4-2 test method. The reason is that variations exist in the coupling paths between injection points and local current densities and associated fields coupled into traces or ICs. This standard practice addresses the testing of ICs, modules, and PCBs underpowered conditions. This test method focuses on soft errors, such as bit errors and upsets, keeping in mind that fast pulses can also cause latch-up. Use of the standard practice will guide the user in the identification of the root causes of electrostatic discharge (ESD) induced soft errors in ICs, modules, and PCBs, for debugging and quality control purposes.

This document applies to powered modules, circuit boards, sub-systems, and systems in which system upset can be detected either by an operator performing the test or automatically.

TIA (Telecommunications Industry Association)

Contact: Teesha Jenkins, (703) 907-7706, standards@tiaonline.org
1320 North Courthouse Road, Suite 200, Arlington, VA 22201

Revision

BSR/TIA 604-10C-202x, FOCIS-10 - Fiber Optic Connector Interchangeability Standard, Type LC (revision and redesignation of ANSI/TIA 604-10B-2008 (R2015))

Stakeholders: Manufacturers and users of fiber optics cables

Project Need: Update standard.

Revise ANSI/TIA 604-10-B to: Explore LC adapter, plug, and receptacle interfaces in order to standardize the center to center position spacing beyond duplex. and update as needed.

VC (ASC Z80) (The Vision Council)

Contact: Michele Stolberg, 585-387-9913, ascz80@thevisioncouncil.org
225 Reinekers Lane, Alexandria, VA 22314

Revision

BSR Z80.36-202x, Light Hazard Protection for Ophthalmic Instruments (revision of ANSI Z80.36-2016)

Stakeholders: The spectacle lens manufacturing industry; the ophthalmic clinical community; the optical dispensing industry; the contact lens manufacturing industry; the ophthalmic instrument manufacturing industry.

Project Need: ANSI Z80.36 is due for 5-year review in 2021. The standard needs revisions to address areas where it needs to be improved and to have hazard limits revised to reflect current experimental data on radiation damage to various ocular tissue.

Z80.36 specifies fundamental requirements for optical radiation safety for ophthalmic instruments and is applicable to all current ophthalmic instruments that direct optical radiation into or at the eye. It is also applicable to all new and emerging ophthalmic instruments that direct optical radiation into or at the eye, as well as to those portions of therapeutic or surgical systems that direct optical radiation into or at the eye for diagnostic, illumination, measurement, imaging or alignment purposes. Z80.36 does not apply to radiation that is intended for treatment of ocular tissues.

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, Inc.)**

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, select "American National Standards Maintained Under Continuous Maintenance." Questions? 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.

AAFS

American Academy of Forensic Sciences
410 North 21st Street
Colorado Springs, CO 80904
Phone: (719) 453-1036
Web: www.aafs.org

AAMI

Association for the Advancement of
Medical Instrumentation
901 N. Glebe Road, Suite 300
Arlington, VA 22203
Phone: (703) 253-8261
Web: www.aami.org

ABYC

American Boat and Yacht Council
613 Third Street
Suite 10
Annapolis, MD 21403
Phone: (410) 990-4460
Web: www.abycinc.org

API

American Petroleum Institute
200 Massachusetts Avenue NW
Washington, DC 20001
Phone: (202) 682-8344
Web: www.api.org

ASABE

American Society of Agricultural and
Biological Engineers
2950 Niles Road
Saint Joseph, MI 49085
Phone: (269) 932-7027
Web: www.asabe.org

ASCE

American Society of Civil Engineers
1801 Alexander Bell Dr
Reston, VA 20191
Phone: (703) 295-6176
Web: www.asce.org

ASHRAE

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

ASIS

ASIS International
1625 Prince Street
Alexandria, VA 22314-2818
Phone: (703) 518-1439
Web: www.asisonline.org

ASME

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

ASTM

ASTM International
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959
Phone: (610) 832-9744
Web: www.astm.org

AWS

American Welding Society
8669 NW 36 Street, #130
Miami, FL 33166
Phone: (305) 443-9353
Web: www.aws.org

CPLSO

CPLSO
The Marchioness Building, Commercial
Road
Bristol BS16TG, UK BS1 6TG
Phone: (078) 796-9298

CSA

CSA America Standards Inc.
8501 E. Pleasant Valley Road
Cleveland, OH 44131
Phone: (216) 524-4990
Web: www.csagroup.org

CTA

Consumer Technology Association
1919 South Eads Street
Arlington, VA 22202
Phone: (703) 907-7697
Web: www.cta.tech

EOS/ESD

ESD Association, Inc.
7900 Turin Rd., Bldg. 3
Rome, NY 13440
Phone: (315) 339-6937
Web: www.esda.org

IIAR

International Institute of Ammonia
Refrigeration
1001 North Fairfax Street
Alexandria, VA 22314
Phone: (703) 312-4200
Web: www.iiar.org

NCPDP

National Council for Prescription Drug
Programs
9240 East Raintree Drive
Scottsdale, AZ 85260
Phone: (480) 296-4584
Web: www.ncpdp.org

NEMA (ASC C136)

National Electrical Manufacturers
Association
1300 North 17th Street
Suite 900
Rosslyn, VA 22209
Phone: (703) 841-3234
Web: www.nema.org

NEMA (ASC C82)

National Electrical Manufacturers
Association
1300 N 17th St
Rosslyn, VA 22209
Phone: (703) 841-3262
Web: www.nema.org

NEMA (ASC C84)

National Electrical Manufacturers
Association
1300 North 17th Street
Rosslyn, VA 22209
Phone: (703) 841-3278
Web: www.nema.org

NFPA

National Fire Protection Association
One Batterymarch Park
Quincy, MA 02169
Phone: (617) 984-7246
Web: www.nfpa.org

NSF

NSF International
789 N. Dixboro Road
Ann Arbor, MI 48105-9723
Phone: (734) 418-6660
Web: www.nsf.org

PLASTICS

Plastics Industry Association
1425 K Street NW, Suite 500
Washington, DC 20005
Phone: (202) 974-5200
Web: www.plasticsindustry.org

TIA

Telecommunications Industry
Association
1320 North Courthouse Road
Suite 200
Arlington, VA 22201
Phone: (703) 907-7706
Web: www.tiaonline.org

UL

Underwriters Laboratories, Inc.
12 Laboratory Drive
Research Triangle Park, NC 27709
Phone: (919) 549-1097
Web: www.ul.com

VC (ASC Z80)

The Vision Council
225 Reinekers Lane
Alexandria, VA 22314
Phone: 585-387-9913
Web: www.z80asc.com



ISO & IEC Draft International Standards

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

Comments

Comments regarding ISO documents should be sent to ANSI's ISO Team (isot@ansi.org); comments on IEC 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). 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. When making your request, please provide the date of the Standards Action issue in which the draft document you are requesting appears.

ISO Standards

AGRICULTURAL FOOD PRODUCTS (TC 34)

ISO/DIS 24081, Ground cassava leaves (ISOMBE) - Specification - 5/28/2020, \$40.00

ISO/DIS 24090, Dried barberry - Specification and test methods - 5/28/2020, \$33.00

AIR QUALITY (TC 146)

ISO/DIS 23506, Workplace Air - Analysis of airborne water immiscible mineral oil droplets and vapor with Fourier - Transform Infrared Spectroscopy - 5/31/2020, FREE

AIRCRAFT AND SPACE VEHICLES (TC 20)

ISO/DIS 20893, Space systems - Detailed space debris mitigation requirements for launch vehicle orbital stages - 5/28/2020, \$46.00

BANKING AND RELATED FINANCIAL SERVICES (TC 68)

ISO/DIS 6166, Financial services - International securities identification numbering system (ISIN) - 5/30/2020, \$62.00

BIOTECHNOLOGY (TC 276)

ISO/DIS 23033, Biotechnology - Analytical methods - General guidelines for the characterization and testing of cellular therapeutic products - 6/1/2020, FREE

BUILDING CONSTRUCTION MACHINERY AND EQUIPMENT (TC 195)

ISO/DIS 18650-1, Building construction machinery and equipment - Concrete mixers - Part 1: Terms and commercial specifications - 5/29/2020, \$102.00

CONCRETE, REINFORCED CONCRETE AND PRE-STRESSED CONCRETE (TC 71)

ISO/DIS 23523, Test methods for discrete polymer fibre for fibre-reinforced cementitious composites - 5/28/2020, \$58.00

COSMETICS (TC 217)

ISO/DIS 24443, Determination of sunscreen UVA photoprotection in vitro - 5/24/2020, \$102.00

ENVIRONMENTAL MANAGEMENT (TC 207)

ISO/DIS 14030-4, Environmental performance evaluation - Green debt instruments - Part 4: Verification - 5/24/2020, \$58.00

GEOGRAPHIC INFORMATION/GEOMATICS (TC 211)

ISO 19115-2/DAmD1, Geographic information - Metadata - Part 2: Extensions for acquisition and processing - Amendment 1 - 5/31/2020, FREE

INDUSTRIAL TRUCKS (TC 110)

ISO 3691-6/DAmD1, Industrial trucks - Safety requirements and verification - Part 6: Burden and personnel carriers - Amendment 1 - 5/29/2020, \$40.00

MECHANICAL VIBRATION AND SHOCK (TC 108)

ISO 10819/DAmD2, Mechanical vibration and shock - Hand-arm vibration - Measurement and evaluation of the vibration transmissibility of gloves at the palm of the hand - Amendment 2 - 5/29/2020, \$40.00

ISO 13091-1/DAmD2, Mechanical vibration - Vibrotactile perception thresholds for the assessment of nerve dysfunction - Part 1: Methods of measurement at the fingertips - Amendment 2 - 5/29/2020, \$29.00

ISO/DIS 13091-2, Mechanical vibration - Vibrotactile perception thresholds for the assessment of nerve dysfunction - Part 2: Analysis and interpretation of measurements at the fingertips - 5/29/2020, \$93.00

METALLIC AND OTHER INORGANIC COATINGS (TC 107)

ISO/DIS 23131, Ellipsometry - Principles - 6/1/2020, FREE

MICROBEAM ANALYSIS (TC 202)

ISO/DIS 23692, Microbeam analysis - Electron probe microanalysis - Quantitative analysis of Mn dendritic segregation in continuously cast steel product - 5/25/2020, \$58.00

PLAIN BEARINGS (TC 123)

ISO/DIS 7905-1, Plain bearings - Bearing fatigue - Part 1: Plain bearings in test rigs and in applications under conditions of hydrodynamic lubrication - 5/24/2020, \$62.00

ISO/DIS 12130-1, Plain bearings - Hydrodynamic plain tilting pad thrust bearings under steady-state conditions - Part 1: Calculation of tilting pad thrust bearings - 11/11/2021, \$82.00

PLASTICS (TC 61)

- ISO/DIS 10365, Adhesives - Designation of main failure patterns - 5/30/2020, \$33.00
- ISO/DIS 19721, Plastics - Abrasion test method for artificial turfs using combined UV exposure and mechanical wear - 5/25/2020, \$71.00
- ISO/DIS 11357-4, Plastics - Differential scanning calorimetry (DSC) - Part 4: Determination of specific heat capacity - 5/30/2020, \$58.00
- ISO/DIS 11358-2, Plastics - Thermogravimetry (TG) of polymers - Part 2: Determination of activation energy - 5/28/2020, \$40.00
- ISO/DIS 11358-3, Plastics - Thermogravimetry (TG) of polymers - Part 3: Determination of the activation energy using the Ozawa-Friedman plot and analysis of the reaction kinetics - 5/28/2020, \$62.00

ROAD VEHICLES (TC 22)

- ISO 6969/DAmD1, Road vehicles - Sound signalling devices - Tests after mounting on vehicle - Amendment 1 - 5/28/2020, \$29.00

SHIPS AND MARINE TECHNOLOGY (TC 8)

- ISO/DIS 23212, Ships and marine technology - Flange connection for fuel and lubrication oil bunkering - Basic dimensions and technical requirements - 5/25/2020, \$40.00

STEEL (TC 17)

- ISO/DIS 683-3, Heat-treatable steels, alloy steels and free-cutting steels - Part 3: Case-hardening steels - 5/24/2020, \$107.00
- ISO/DIS 23825, Method for evaluating the nodularity of spheroidal carbides - Steels for cold heading and cold extruding - 5/29/2020, \$77.00

TECHNICAL SYSTEMS AND AIDS FOR DISABLED OR HANDICAPPED PERSONS (TC 173)

- ISO/DIS 16840-10, Wheelchair seating - Part 10: Resistance to ignition of postural support devices - Requirements and test method - 6/1/2020, FREE

TRADITIONAL CHINESE MEDICINE (TC 249)

- ISO/DIS 22467, Traditional Chinese medicine - Determination of microorganism in natural products - 5/29/2020, \$102.00
- ISO/DIS 23190, Traditional Chinese medicine - Determination of aristolochic acids in natural products by HPLC - 5/31/2020, FREE

WELDING AND ALLIED PROCESSES (TC 44)

- ISO/DIS 13585, Brazing - Qualification test of brazers and brazing operators - 5/24/2020, \$82.00

ISO/IEC JTC 1, Information Technology

- ISO/IEC DIS 30190, Information technology - Digitally recorded media for information interchange and storage - 120 mm Single Layer (25,0 Gbytes per disk) and Dual Layer (50,0 Gbytes per disk) BD Recordable disk - 5/31/2020, FREE
- ISO/IEC DIS 30191, Information technology - Digitally recorded media for information interchange and storage - 120 mm Triple Layer (100,0 Gbytes single-sided disk and 200,0 Gbytes double sided disk) and Quadruple Layer (128,0 Gbytes single-sided disk) BD Recordable disk - 5/25/2020, \$230.00
- ISO/IEC DIS 30192, Information technology - Digitally recorded media for information interchange and storage - 120 mm Single Layer (25,0 Gbytes per disk) and Dual Layer (50,0 Gbytes per disk) BD Rewritable disk - 5/25/2020, FREE
- ISO/IEC DIS 23090-6, Information technology - Coded representation of immersive media - Part 6: Immersive media metrics - 5/31/2020, FREE

IEC Standards

- 4/387/NP, PNW 4-387: IEC 63132 - Guide for installation procedures and tolerances of hydroelectric machines,
- 4/388/DC, Part 5 of Series 63132: Guidance for installation procedures and tolerances of hydroelectric machines - Part 5: Bulb turbines and generators, 020/5/1/
- 4/389/DC, Part 6 of Series 63132: Guidance for installation procedures and tolerances of hydroelectric machines - Part 6: Vertical Pelton turbines, 020/5/1/
- 5/231/FDIS, IEC 60045-1 ED2: Steam turbines - Part 1: Specifications, 2020/4/17
- 13/1804/FDIS, IEC 62053-24 ED2: Electricity metering equipment - Particular requirements - Part 24: Static meters for fundamental component reactive energy (classes 0,5S, 1S, 1, 2 and 3), 2020/4/17
- 15/911/FDIS, IEC 60667-2 ED2: Vulcanized fibre for electrical purposes - Part 2: Methods of test, 2020/4/17
- 17/1074/CD, IEC 62271-1/AMD1 ED2: Amendment 1 - High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear, 2020/5/29
- 20/1900/CDV, IEC 60502-1 ED3: Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) - Part 1: Cables for rated voltages of 1 kV (Um = 1,2 kV) and 3 kV (Um = 3,6 kV), 2020/5/29
- 23E/1178/CDV, IEC 62873-3-2/AMD1 ED1: Amendment 1 - Residual current operated circuit-breakers for household and similar use - Part 3-2: Particular requirements for RCDs with flat quick-connect terminations, 2020/5/29
- 23E/1179/CDV, IEC 62873-1/AMD1 ED1: Amendment 1 - Residual current operated circuit-breakers for household and similar use - Part 1: Outline of blocks and modules for residual current device standards, 2020/5/29
- 23G/440/CD, IEC 60320-1 ED4: Appliance couplers for household and similar general purposes - Part 1: General requirements, 2020/5/29
- 27/1127/FDIS, IEC 60519-8 ED3: Safety in installations for electroheating and electromagnetic processing - Part 8: Particular requirements for electroslag remelting furnaces, 2020/4/17
- 31/1529/CDV, IEC 60079-26 ED4: Explosive atmospheres - Part 26: Equipment with separation elements or combined Levels of Protection, 2020/5/29
- 34A/2177/FDIS, IEC 62868-1 ED1: Organic light emitting diode (OLED) Light sources for general lighting - Safety - Part 1: General requirements and tests, 2020/4/17
- 34B/2079/FDIS, IEC 60061-3/AMD58 ED3: Amendment 58 - Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 3: Gauges, 2020/4/17
- 34B/2078/FDIS, IEC 60061-2/AMD56 ED3: Amendment 56 - Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 2: Lampholders, 2020/4/17
- 34C/1488/FDIS, IEC 62384 ED2: DC or AC supplied electronic controlgear for LED modules - Performance requirements, 2020/4/17
- 35/1445/DISH, IEC 60086-4/ISH1 ED5: Interpretation Sheet 1 - Primary batteries - Part 4: Safety of lithium batteries, 2020/4/17
- 35/1446/CD, IEC 60086-5 ED5: Primary batteries - Part 5: Safety of batteries with aqueous electrolyte, 020/5/1/
- 40/2746/CD, IEC 60286-1/AMD1 ED3: Amendment 1 - Packaging of components for automatic handling - Part 1: Tape packaging of components with axial leads on continuous tapes, 2020/5/29
- 44/873/CD, IEC 60204-1/AMD1 ED6: Amendment 1 - Safety of machinery - Electrical equipment of machines - Part 1: General requirements, 020/5/1/

- 45A/1315/NP, PNW 45A-1315: Nuclear facilities - On-line integrated surveillance systems for groundwater radioactivity contamination - General requirements, 2020/5/29
- 46/773/FDIS, IEC 62153-4-9/AMD1 ED2: Metallic communication cable test methods - Part 4-9: Electromagnetic compatibility (EMC) - Coupling attenuation of screened balanced cables, triaxial method, 2020/4/17
- 46/770/CDV, IEC 62153-4-16 ED2: Metallic cables and other passive components test methods - Part 4-16: Electromagnetic compatibility (EMC) - Extension of the frequency range to higher frequencies for transfer impedance and to lower frequencies for screening attenuation measurements using the triaxial set-up, 2020/5/29
- 46A/1407/FDIS, IEC 61196-6-5 ED1: Coaxial communication cables - Part 6-5: Detail specification for Type A quad-shield CATV drop cables with screening class A++, 2020/4/17
- 47/2614/CDV, IEC 63287-1 ED1: Semiconductor devices - Generic semiconductor qualification guidelines - Part 1: Guidelines for LSI reliability qualification, 2020/5/29
- 47A/1094/Q, Withdrawal of IEC 62132-3:2007 ED1: Integrated circuits - Measurement of electromagnetic immunity, 150 kHz to 1 GHz - Part 3: Bulk current injection (BCI) method, 020/5/8/
- 47F/355(F)/FDIS, IEC 62047-37 ED1: Semiconductor devices - Micro-electromechanical devices - Part 37: Environmental test methods of MEMS piezoelectric thin films for sensor application, 020/4/3/
- 47F/356/CD, IEC 62047-41 ED1: Semiconductor devices - Micro-electromechanical devices - Part 41: RF MEMS Circulators and Isolators, 020/5/1/
- 55/1833/CDV, IEC 60172 ED5: Test procedure for the determination of the temperature index of enamelled and tape wrapped winding wires, 2020/5/29
- 59A/228/NP, PNW TS 59A-228: Electric dishwashers for household use - Methods for assessing the microbiological properties, 2020/5/29
- 62B/1165/CD, IEC 61223-3-8 ED1: Evaluation and routine testing in medical imaging departments - Acceptance and constancy tests - Radiography and radioscopy, 020/5/1/
- 62D/1755/FDIS, ISO 80601-2-84 ED1: Medical electrical equipment - Part 2-84: Particular requirements for the basic safety and essential performance of ventilators for the emergency medical services environment (EMS), 2020/4/17
- 65C/996/CDV, IEC 61784-3-X ED4: Industrial communication networks - Profiles - Part 3-X: Functional safety fieldbuses - Additional specifications for CPF X, 2020/5/29
- 65C/997/CDV, IEC 62439-2 ED3: Industrial communication networks - High availability automation networks - Part 2: Media Redundancy Protocol (MRP), 2020/5/29
- 65C/998/CDV, IEC 62439-3 ED4: Industrial communication networks - High availability automation networks - Part 3: Parallel Redundancy Protocol (PRP) and High-availability Seamless Redundancy (HSR), 2020/5/29
- 69/702(F)/CDV, IEC 61851-23 ED2: Electric vehicle conductive charging system - Part 23: DC electric vehicle supply equipment, 020/5/1/
- 79/631/CD, IEC 62676-5-1 ED1: Video surveillance systems (VSS) for use in security applications - Part 5-1: Environmental test methods for image quality performance, 2020/5/29
- 82/1701/CD, IEC 62759-1 ED2: Photovoltaic (PV) modules - Transportation testing - Part 1: Transportation and shipping of module package units, 020/5/1/
- 82/1702/CD, IEC TS 63140 ED1: Photovoltaic (PV) modules - Partial shade endurance testing for monolithically integrated products, 2020/5/29
- 82/1703/CD, IEC TS 63202-2 ED1: Photovoltaic cells - Part 2: Electroluminescence image for crystalline silicon solar cells, 2020/5/29
- 87/741/FDIS, IEC 63045 ED1: Ultrasonics - Non-focusing short pressure pulse sources including pneumatic and ballistic pressure pulse sources - Characteristics of fields, 2020/4/17
- 90/449/CDV, IEC 61788-17 ED2: Superconductivity - Part 17: Electronic characteristic measurements - Local critical current density and its distribution in large-area superconducting films, 2020/5/29
- 99/265/NP, PNW 99-265: Insulation co-ordination for HVDC systems - Part 1: Definitions, principles and rules, 020/4/3/
- 99/266/NP, PNW 99-266: Insulation co-ordination for HVDC systems - Part 2: Application guidelines for line-commutated converter (LCC) stations, 020/4/3/
- 100/3380/CDV, IEC 63245-1 ED1: Management and Interfaces for WPT - Spatial wireless power transfer based on multiple magnetic resonances (SWPT-MMR) - Part 1: Requirements (TA 15), 2020/5/29
- 104/864(F)/FDIS, IEC 60721-3-0 ED2: Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities - Introduction, 2020/4/10
- 104/861/CDV, IEC 60068-2-11 ED4: Basic environmental testing procedures - Part 2-11: Tests - Test Ka: Salt mist, 2020/5/29
- 110/1193/CD, IEC TR 62977-5-2 ED1: Electronic displays - Part 5-2: Visual assessment - Visual assessment based on colour discrimination according to viewing direction, 2020/5/29
- 120/173(F)/FDIS, IEC 62933-5-2 ED1: Electrical energy storage (EES) systems - Part 5-2: Safety requirements for grid integrated EES systems - Electrochemical based systems, 2020/3/20
- 121A/349/DC, Future project IEC 62683-2-2: Low-voltage switchgear and controlgear - Product data and properties for information exchange - Engineering data - Part 2-2: Switchgear and controlgear assembly objects for building information modelling, 2020/5/29



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. All paper copies are available from Standards resellers (<http://webstore.ansi.org/faq.aspx#resellers>).

ISO Standards

AGRICULTURAL FOOD PRODUCTS (TC 34)

[ISO 6579-1/Amd1:2020](#), Microbiology of the food chain - Horizontal method for the detection, enumeration and serotyping of Salmonella - Part 1: Detection of Salmonella spp. - Amendment 1: Broader range of incubation temperatures, amendment to the status of Annex D, and correction of the composition of MSRV and SC, \$19.00

[ISO 6887-3/Amd1:2020](#), Microbiology of the food chain - Preparation of test samples, initial suspension and decimal dilutions for microbiological examination - Part 3: Specific rules for the preparation of fish and fishery products - Amendment 1: Sample preparation for raw marine gastropods, \$19.00

BASES FOR DESIGN OF STRUCTURES (TC 98)

[ISO 10252:2020](#), Bases for design of structures - Accidental actions, \$232.00

CORROSION OF METALS AND ALLOYS (TC 156)

[ISO 11845:2020](#), Corrosion of metals and alloys - General principles for corrosion testing, \$68.00

DENTISTRY (TC 106)

[ISO 7787-2:2020](#), Dentistry - Laboratory cutters - Part 2: Carbide laboratory cutters, \$68.00

GAS TURBINES (TC 192)

[ISO 21905:2020](#), Gas turbine exhaust systems with or without waste heat recovery, \$232.00

HYDROGEN ENERGY TECHNOLOGIES (TC 197)

[ISO 19880-1:2020](#), Gaseous hydrogen - Fuelling stations - Part 1: General requirements, \$232.00

MATERIALS FOR THE PRODUCTION OF PRIMARY ALUMINIUM (TC 226)

[ISO 14420:2020](#), Carbonaceous products for the production of aluminium - Baked anodes and shaped carbon products - Determination of the coefficient of linear thermal expansion, \$45.00

NICKEL AND NICKEL ALLOYS (TC 155)

[ISO 7524:2020](#), Ferronickels - Determination of carbon content - Infrared absorption method after induction furnace combustion, \$68.00

[ISO 7526:2020](#), Ferronickels - Determination of sulfur content - Infrared absorption method after induction furnace combustion, \$68.00

PAPER, BOARD AND PULPS (TC 6)

[ISO 6588-2:2020](#), Paper, board and pulps - Determination of pH of aqueous extracts - Part 2: Hot extraction, \$68.00

PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)

[ISO 18526-1:2020](#), Eye and face protection - Test methods - Part 1: Geometrical optical properties, \$103.00

PLASTICS (TC 61)

[ISO 11357-2:2020](#), Plastics - Differential scanning calorimetry (DSC) - Part 2: Determination of glass transition temperature and step height, \$68.00

[ISO 23153-1:2020](#), Plastics - Polyetheretherketone (PEEK) moulding and extrusion materials - Part 1: Designation system and basis for specifications, \$68.00

QUANTITIES, UNITS, SYMBOLS, CONVERSION FACTORS (TC 12)

[ISO 80000-8:2020](#), Quantities and units - Part 8: Acoustics, \$68.00

ROAD VEHICLES (TC 22)

[ISO 6621-2:2020](#), Internal combustion engines - Piston rings - Part 2: Inspection measuring principles, \$162.00

RUBBER AND RUBBER PRODUCTS (TC 45)

[ISO 36:2020](#), Rubber, vulcanized or thermoplastic - Determination of adhesion to textile fabrics, \$68.00

[ISO 3387:2020](#), Rubber - Determination of crystallization effects by hardness measurements, \$68.00

SHIPS AND MARINE TECHNOLOGY (TC 8)

[ISO/PAS 23678-1:2020](#), Service personnel for the maintenance, thorough examination, operational testing, overhaul and repair of lifeboats (including free-fall lifeboats) and rescue boats (including fast rescue boats), launching appliances and release gear - Part 1: General requirements for training providers, \$162.00

[ISO/PAS 23678-2:2020](#), Service personnel for the maintenance, thorough examination, operational testing, overhaul and repair of lifeboats (including free-fall lifeboats) and rescue boats (including fast rescue boats), launching appliances and release gear - Part 2: Service personnel initial training, \$138.00

[ISO/PAS 23678-3:2020](#), Service personnel for the maintenance, thorough examination, operational testing, overhaul and repair of lifeboats (including free-fall lifeboats) and rescue boats (including fast rescue boats), launching appliances and release gear - Part 3: Level 1 technician training, \$185.00

[ISO/PAS 23678-4:2020](#), Service personnel for the maintenance, thorough examination, operational testing, overhaul and repair of lifeboats (including free-fall lifeboats) and rescue boats (including fast rescue boats), launching appliances and release gear - Part 4: Level 2 in-field competence, \$209.00

TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)

[ISO 15077:2020](#), Tractors and self-propelled machinery for agriculture - Operator controls - Actuating forces, displacement, location and method of operation, \$103.00

ISO Technical Reports

FIRE SAFETY (TC 92)

[ISO/TR 15655:2020](#), Fire resistance - Tests for thermo-physical and mechanical properties of structural materials at elevated temperatures for fire engineering design, \$185.00

SECURITY (TC 292)

[ISO/TR 22370:2020](#), Security and resilience - Urban resilience - Framework and principles, \$162.00

ISO Technical Specifications

ERGONOMICS (TC 159)

[ISO/TS 21054:2020](#), Ergonomics - Accessible design - Controls of consumer products, \$68.00

NANOTECHNOLOGIES (TC 229)

[ISO/TS 19808:2020](#), Nanotechnologies - Carbon nanotube suspensions - Specification of characteristics and measurement methods, \$68.00

SURFACE CHEMICAL ANALYSIS (TC 201)

[ISO/TS 15338:2020](#), Surface chemical analysis - Glow discharge mass spectrometry - Operating procedures, \$103.00

ISO/IEC JTC 1, Information Technology

[ISO/IEC 20085-2:2020](#), IT Security techniques - Test tool requirements and test tool calibration methods for use in testing non-invasive attack mitigation techniques in cryptographic modules - Part 2: Test calibration methods and apparatus, \$103.00

[ISO/IEC 20547-3:2020](#), Information technology - Big data reference architecture - Part 3: Reference architecture, \$185.00

[ISO/IEC 23093-1:2020](#), Information technology - Internet of media things - Part 1: Architecture, \$138.00

[ISO/IEC 24779-5:2020](#), Information technology - Cross-jurisdictional and societal aspects of implementation of biometric technologies - Pictograms, icons and symbols for use with biometric systems - Part 5: Face applications, \$68.00

IEC Standards

DEPENDABILITY (TC 56)

[IEC 61163-2 Ed. 2.0 b:2020](#), Reliability stress screening - Part 2: Components, \$199.00

ELECTRIC TRACTION EQUIPMENT (TC 9)

[IEC 62505-3-1 Ed. 2.0 en:2020](#), Railway applications - Fixed installations - Particular requirements for AC switchgear - Part 3-1: Measurement, control and protection devices for specific use in AC traction systems - Devices, \$164.00

[IEC 62505-3-2 Ed. 2.0 en:2020](#), Railway applications - Fixed installations - Particular requirements for AC switchgear - Part 3-2: Measurement, control and protection devices for specific use in AC traction systems - Current transformers, \$82.00

ELECTRICAL EQUIPMENT IN MEDICAL PRACTICE (TC 62)

[IEC 62985 Ed. 1.0 b:2019](#), Methods for calculating size specific dose estimates (SSDE) for computed tomography, \$164.00

INDUSTRIAL ELECTROHEATING EQUIPMENT (TC 27)

[IEC 60519-1 Ed. 6.0 b:2020](#), Safety in installations for electroheating and electromagnetic processing - Part 1: General requirements, \$375.00

[S+ IEC 60519-1 Ed. 6.0 en:2020 \(Redline version\)](#), Safety in installations for electroheating and electromagnetic processing - Part 1: General requirements, \$488.00

INDUSTRIAL-PROCESS MEASUREMENT AND CONTROL (TC 65)

[IEC 61158-1 Ed. 2.0 b:2019](#), Industrial communication networks - Fieldbus specifications - Part 1: Overview and guidance for the IEC 61158 and IEC 61784 series, \$352.00

MARITIME NAVIGATION AND RADIOCOMMUNICATION EQUIPMENT AND SYSTEMS (TC 80)

[IEC 61108-5 Ed. 1.0 b:2020](#), Maritime navigation and radiocommunication equipment and systems - Global navigation satellite systems (GNSS) - Part 5: BeiDou navigation satellite system (BDS) - Receiver equipment - Performance requirements, methods of testing and required test results, \$317.00

NUCLEAR INSTRUMENTATION (TC 45)

[IEC 62003 Ed. 2.0 b:2020](#), Nuclear power plants - Instrumentation, control and electrical power systems - Requirements for electromagnetic compatibility testing, \$235.00

SECONDARY CELLS AND BATTERIES (TC 21)

[IEC 62984-1 Ed. 1.0 b:2020](#), High-temperature secondary batteries - Part 1: General requirements, \$235.00

[IEC 62984-2 Ed. 1.0 b:2020](#), High-temperature secondary batteries - Part 2: Safety requirements and tests, \$235.00

SURFACE MOUNTING TECHNOLOGY (TC 91)

[IEC 62878-1 Ed. 1.0 b:2019](#), Device embedding assembly technology - Part 1: Generic specification for device embedded substrates, \$117.00

TERMINOLOGY (TC 1)

[IEC 60050-426 Ed. 3.0 b:2020](#), International Electrotechnical Vocabulary (IEV) - Part 426: Explosive atmospheres, \$410.00

IEC Technical Reports

ELECTROMAGNETIC COMPATIBILITY (TC 77)

[IEC/TR 61000-4-40 Ed. 1.0 en:2020](#), Electromagnetic compatibility (EMC) - Part 4-40: Testing and measurement techniques - Digital methods for the measurement of power quantities of modulated or distorted signals, \$235.00

SURFACE MOUNTING TECHNOLOGY (TC 91)

[IEC/TR 61191-7 Ed. 1.0 en:2020](#), Printed board assemblies - Part 7: Technical cleanliness of components and printed board assemblies, \$375.00

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 or notifyus@nist.gov.

Information Concerning

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 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 or by e-mail from standards@scte.org.

Association for the Advancement of Medical Instrumentation (AAMI)

AAMI (www.aami.org) is actively seeking participation in the following standards development in the interest categories specified:

AAMI/ISO 15223-1 Ed4, Medical devices – Symbols to be used with medical device labels, labeling, and information to be supplied – Part 1: General requirements

The standard identifies requirements for the development and use of symbols that may be used to convey information on the safe and effective use of medical devices. It also lists symbols that satisfy the requirements of this standard. The group is in need of user members, which include regulators, end users, as well as industry members who utilize symbols on medical devices. To apply or obtain additional information please contact Wil Vargas at wvargas@aami.org.

ANSI Accredited Standards Developers

Approval of Reaccreditation

Association of Transportation Safety Information Professionals (ATSIP)

The reaccreditation of the Association of Transportation Safety Information Professionals (ATSIP), an ANSI member and Accredited Standards Developer (ASD), has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on ATSIP-sponsored American National Standards, effective March 11, 2020. For additional information, please contact: Mr. John McDonough, President, NISR, Inc., Association of Transportation Safety Information Professionals, 2351 Freedom Way, Suite 201, York, PA 17402; phone: 717.751.8052; e-mail: john@nistrinc.com.

Hardwood Plywood Veneer Association (HPVA)

ANSI's Executive Standards Council has approved the reaccreditation of the Hardwood Plywood Veneer Association (HPVA), an ANSI Member and Accredited Standards Developer, under its recently revised operating procedures for documenting consensus on HPVA-sponsored American National Standards, effective March 6, 2020. For additional information, please contact: Mr. Brian Sause, Hardwood Plywood Veneer Association, 42777 Trade West Drive, Sterling, VA 20166; phone: 703.435.2900, ext. 127; e-mail: standards@decorativehardwoods.org.

International Organization for Standardization (ISO)

Call for Members

New US TAG for ISO/TC 44/SC 15 on Underwater Welding

Scope of the TAG is standardization of all aspects of underwater welding including: procedure and performance qualification in wet and dry hyperbaric environments and classification of welding electrodes for underwater welding. The proposed TAG administrator is the American Welding Society (AWS).

Reply to the US TAG Secretary, Andrew Davis at adavis@aws.org.

Call for U.S. TAG Administrator

ISO/TC 17/SC 12 – Continuous mill flat rolled products

ANSI has been informed that ASTM International, the ANSI-accredited U.S. TAG Administrator for ISO/TC 17/SC 12, wishes to relinquish their role as U.S. TAG Administrator.

ISO/TC 17/SC 12 operate under the following scope:

Development and maintenance of specifications for hot-rolled and cold-reduced steel sheet and strip in coils and cut lengths and metallic coated steel sheet in coils and cut lengths. excluding:

- Tinplate and blackplate but including tin-coated sheets
- Stainless and heat resisting steels 3
- Plates.

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

ISO New Work Item Proposal

Consumer Incident Investigation Guideline

Comment Deadline: March 27, 2020

JISC, the ISO member body for Japan, has submitted to ISO a new work item proposal for the development of an ISO standard on Consumer incident investigation guideline, with the following scope statement:

An international standard (guideline) to provide a general guide for investigations of consumer incidents.

Consumer incidents are incidents where consumers suffer physical injury or death in the process of using products, services, facilities or the things related to them. Consumer incident investigation means an investigation aiming to prevent incident recurrence, and to contribute to the safety of consumers.

This document is intended to be beneficial to persons, groups, committees or organizations of all types, such as private, public, and non-profit bodies, regardless of the size of the organization which is investigating consumer incidents.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, March 27, 2020.

ISO Proposal for a New Field of ISO Technical Activity

Lithium

Comment Deadline: April 3, 2020

SAC, the ISO member body for China, has submitted to ISO a proposal for a new field of ISO technical activity on Lithium, with the following scope statement:

Standardization in the field of lithium mining, concentration, extraction, separation and conversion to useful lithium compounds/materials (including oxides, salts, metals, master alloys, lithium-ion battery materials, etc.). The work program includes terminology, technical conditions of delivery to overcome transport difficulties, unified testing and analysis methods to improve the general quality of lithium products.

Excluded: Batteries

Note: Battery is a component and not a material, which can be directly used in electric vehicles, digital cameras, electric motorcycles, etc.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, April 3, 2020.

Biodiversity

Comment Deadline: April 17, 2020

AFNOR, the ISO member body for France, has submitted to ISO a proposal for a new field of ISO technical activity on Biodiversity, with the following scope statement:

Standardization in the field of Biodiversity to develop requirements, principles, framework, guidance and supporting tools in a holistic and global approach for all relevant organizations, to enhance their contribution to Sustainable Development.

Excluded: standardization of test and measurement methods for ecological quality of water, air, soil and marine environment.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, April 17, 2020.

Security Equipment for Financial Institutions and Commercial Organizations

Comment Deadline: April 17, 2020

BSI, the ISO member body for India, has submitted to ISO a proposal for a new field of ISO technical activity on Security Equipment for Financial Institutions and Commercial Organizations, with the following scope statement:

Standardization in the field of safes, cash boxes, strong room doors and safe deposit locker cabinets, ventilation equipment for strong room used in banks, financial institutions and commercial organization etc.

The standards formulated by this technical committee deals with specification and test methods of physical security products used in banks, financial institutions, commercial organization and by jewellers.

Excluded are the fields covered by ISO/TC 68 (Financial services).

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, April 17, 2020.

U.S. Technical Advisory Groups

Application of Accreditation

U.S. TAG to ISO TC 44/SC 15 – Underwater Welding

Comment Deadline: April 13, 2020

The American Welding Society (AWS) has submitted an Application for Accreditation for the U.S. Technical Advisory Group (TAG) to ISO TC 44/SC 15, Underwater welding, and a request for approval as TAG Administrator. The TAG intends to operate using the Model Operating Procedures for U.S. Technical Advisory Groups to ANSI for ISO Activities as contained in Annex A of the ANSI International Procedures.

To obtain a copy of the TAG application or to offer comments, please contact: Mr. Andrew Davis, Director, International Activities, American Welding Society, 8669 NW 36th Street #130, Miami, FL 33136; phone: 305.443.9353, ext. 466; e-mail: adavis@aws.org. Please submit any comments to AWS by April 13, 2020 (please copy ithomps@ansi.org).

Reaccreditation

U.S. TAG to ISO TC 260 – Human Resource Management

Comment Deadline: April 13, 2020

The U.S. Technical Advisory Group (TAG) to ISO Technical Committee 260, Human resource management, has submitted to ANSI revisions to the procedures under which it was last reaccredited in 2015 (ANSI Model Procedures for US TAGs to ANSI for ISO Activities, including supplemental procedures). As the revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact the TAG Administrator to the US TAG to ISO TC 260: Ms. Michaela Miller, Program Manager, Standards Facilitation, ANSI, 25 West 43rd Street, 4th Floor, New York, NY 10036; phone: 212.642.8934; e-mail: mmiller@ansi.org. You may view/download a copy of the revisions during the public review period at the following URL: www.ansi.org/accredPR. Please submit any public comments on the revised procedures to ANSI by April 13, 2020, with a copy to the ExSC Recording Secretary in ANSI's New York Office (jthompso@ANSI.org).

Withdrawal of TAG Accreditation

U.S. TAG to ISO TC 295 – Audit Data Services

At the request of the U.S. TAG to ISO/TC 295, Audit data services, the TAG's accreditation has been withdrawn, effective March 6, 2020. For any related questions, please contact: Ms. Rachel Hawthorne, Senior Manager of ISO Outreach and Enhanced Services, ANSI, 25 West 43rd Street, 4th Floor, New York, NY 10036; phone: 212.642.4938; e-mail: rhawthorne@ansi.org.

Meeting Notices

CSA Group Hydrogen Transportation Technical Committee

CSA Group Hydrogen Transportation Technical Committee will meet on April 24, 2019 at 1:00 PM via Teleconference/WebEx. For those interested in participating or for additional information, contact Sara Marxen at sara.marxen@csagroup.org.

Information Concerning

Meeting Changes

American Society of Safety Professionals (ASSP)

In light of the recent Covid-19 health crisis, ASSP has decided that all meetings planned ***until 30 April 2020*** must be held virtually or postponed until after that date. Specifically, ASSP's upcoming meetings for the following committees will be held virtually: Z10 & US TAG to ISO TC-283, Z359, Z16 (see the SA Announcements below).

Z10 & US TAG to ISO TC-283

April 21, 2020 – April 23, 2020

American Society of Safety Professionals (ASSP)

**Z10 Committee for Occupational Health and Safety Management
Systems and Technical Advisory Group for the ISO TC-283 Committee**

The American Society of Safety Professionals (ASSP) serves as the secretariat of the Z10 Committee for Occupational Health and Safety Management Systems and as the Technical Advisory Group Administrator to ANSI for the ISO TC-283 Committee also addressing management systems. There will be a joint TAG and Z10 Meeting during the week of April 20th in Freemont, California. If you should have interesting in attending, please contact Tim Fisher, (847) 768-3411, TFisher@ASSP.org.

Z359

April 28, 2020 – April 30, 2020

Z359 Committee for Fall Arrest/Protection

The American Society of Safety Professionals (ASSP) serves as the secretariat of the ANSI Z359 Committee for Fall Arrest/Protection. The next meeting of the Z359 Committee will take place on April 28, 29, and 30, 2020 in Schaumburg, IL. Meeting space is limited and is available on a first-come, first-serve basis. Those interested in participating can contact ASSP for additional information at OMunteanu@assp.org.

Z16

April 29, 2020 – May 1, 2020

American Society of Safety Professionals (ASSP Safety)

The next meeting of the Z16 Safety and Health Metrics and Performance Measures committee will take place in Park Ridge, IL on April 29-May 1, 2020. For those interested in participating or for additional information contact Lauren Bauerschmidt of ASSP, LBauerschmidt@assp.org.

Information Concerning

International Electrotechnical Commission (IEC)

USNC Participants and TAG Administrator Needed

U.S. TAG for PC 128 – Operation of Electrical Installations

IEC approved one (1) new Committee: IEC Project Committee (PC) 128: Operation of electrical installations

Individuals who are interested in becoming a participant or the TAG Administrator for PC 128: Operation of electrical installations are invited to contact Adelana Gladstein, Program Manager – International Policy, USNC/IEC, at agladstein@ansi.org as soon as possible.

Please see the scope for PC 128 below:

Scope

Standardization in the field of broad (general) principles of operation of electrical installations. These operating instructions are intended to ensure that all operation of and work activity on, with, or near electrical installations can be carried out safely. These are electrical installations operating at voltage levels from and including extra-low voltage up to and including high voltage. These electrical installations are designed for the generation, transmission, conversion, distribution and use of electrical power. Some of these electrical installations are permanent and fixed, such as a distribution installation in a factory or office complex, others are temporary, such as on construction sites and others are mobile or capable of being moved either whilst energised or whilst not energised nor charged.

Information Concerning

International Organization for Standardization (ISO)

Call for International (ISO) Secretariat

ISO/TC 17/SC 12 – Continuous mill flat rolled products

Comment Deadline: March 19, 2020

Currently, the U.S. holds a leadership position as Secretariat of ISO/TC 17/SC 12 – *Continuous mill flat rolled products*. ANSI has delegated the responsibility for the administration of the Secretariat for ISO/TC 17/SC 12 to ASTM International. ASTM International has advised ANSI of its intent to relinquish its role as delegated Secretariat for this committee.

ISO/TC 17/SC 12 operates under the following scope:

Development and maintenance of specifications for hot-rolled and cold-reduced steel sheet and strip in coils and cut lengths and metallic coated steel sheet in coils and cut lengths. excluding:

- *Tinplate and blackplate but including tin-coated sheets*
- *Stainless and heat resisting steels*
- *Plates.*

ANSI is seeking organizations in the U.S. that may be interested in assuming the role of delegated Secretariat for ISO/TC 17/SC 12. Alternatively, ANSI may be assigned the responsibility for administering an ISO Secretariat. Any request that ANSI accept the direct administration of an ISO Secretariat shall demonstrate that:

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

If no U.S. organization steps forward to assume the ISO/TC 17/SC 12 Secretariat, or if there is insufficient support for ANSI to assume direct administration of this activity by March 19, then ANSI will inform the ISO Central Secretariat that the U.S. will relinquish its leadership of the committee. This will allow ISO to solicit offers from other countries interested in assuming the Secretariat role.

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



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

Please visit ANSI's website (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 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
- 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
- Accreditation information – for potential developers of American National Standards (ANS): 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
- Lists of ANSI-Accredited Standards Developers (ASDs), Proposed ANS and Approved ANS: www.ansi.org/asd
- American National Standards Key Steps: www.ansi.org/anskeysteps
- American National Standards Value: www.ansi.org/ansvalue
- ANS Web Forms for ANSI-Accredited Standards Developers - PINS, BSR8|108, BSR11, Technical Report: www.ansi.org/PSAWebForms
- Information about standards Incorporated by Reference (IBR): www.ansi.org/ibr
- ANSI - Education and Training: 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.

Please also visit Standards Boost Business at 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 a to
ANSI/ASHRAE Standard 185.2-2014**

Public Review Draft

Proposed Addendum a to Standard 185.2-2014, Method of Testing Ultraviolet Lamps for Use in HVAC&R Units or Air Ducts to Inactivate Microorganisms on Irradiated Surfaces

**First Public Review (March 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 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 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.

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

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

FOREWORD

This proposed change fixes an error in the original document. The intended airflow rate was 2000 cfm (500 fpm). For unknown reasons, the value was put into the document incorrectly. This removes the unintended value and replaces it with the correct one.

[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.]

Proposed changes:

4.3.2 Test duct shall be capable of providing three test temperatures of 12.78°C, 23.89°C, and 48.89°C ± 2.2°C (55°F, 75°F, and 120°F ± 4°F). Relative humidity shall be 50% ± 5%, and air velocity shall be ~~2.39 ± 0.05 mps (470 ± 10 fpm)~~ 2.54 ± 0.05 m/s (500 ± 10 fpm).

4.4.2.4 Start airflow through the duct and set the appropriate test conditions for the measurements. Air velocity shall be 2.54 ± 0.05 m/s (500 ± 10 fpm), ~~2.39 ± 0.05 mps (470 ± 10 fpm)~~, and relative humidity shall be 50% ± 10%, for every test. Measurements are to be conducted at each of three air temperatures: 12.8°C (55°F), 23.9°C (75°F), and 48.9°C (120°F).

TABLE 5-1 System Qualification Measurement Requirements

| Parameter | Control Limits |
|---|---|
| Air velocity uniformity is based on traverse measurements over a nine-point cross-sectional grid at the test flow rate. The velocity measurements shall be made with an instrument having an accuracy of 10% with 0.05 meter per second resolution. | $CV^* < 10\%$ |
| Test velocity shall be 0.05 mps (470 ± 10 fpm) | <u>2.54 ± 0.05 m/s (500 ± 10 fpm)</u> 2.39 ± |
| Duct leakage | Ratio < 1.0% |
| Ratio of leak rate to test flow rate. | |
| Determined by sealing the duct at inlet filter bank and at the ASME flow nozzle locations followed by metering in air to achieve a steady duct pressure. The flow rate of the metering air (equal to the leakage flow) is measured for a range of duct pressures. | |

BSR/ASHRAE Addendum *a* to ANSI/ASHRAE Standard 185.2-2014,
Method of Testing Ultraviolet Lamps for Use in HVAC&R Units or Air Ducts to Inactivate Microorganisms on Irradiated Surfaces
First Public Review

*CV = coefficient of variance



**BSR/ASHRAE Addendum *b* to
ANSI/ASHRAE Standard 185.1-2015**

Public Review Draft

**Proposed Addendum *b* to Standard
185.1-2015, Method of Testing UV-C
Lights for Use in Air-Handling Units or
Air Ducts to Inactivate Airborne
Microorganisms**

**Second Public Review (March 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 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 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.

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FOREWORD

The use of the Poisson distribution is not appropriate for this type of biological data. The degree of correction is based on the total counts, so that a test with thousands of counts receives a tighter confidence interval than one with hundreds. This could result in very different reports efficiencies between tests. Also, since counting plates for microorganisms requires that the spots be separate, there is an upper limit on the raw counts per plate. To get high counts, there must be a great number of plates run. In addition, the test lab must estimate the actual concentrations to determine how long to sample or how much to plate. If the level is too high, the plates are overgrown and not usable; if too low, the counts will be low. Given that the efficiency of the devices isn't known ahead, this means that there must be repeated tests if one must get high counts. To achieve tight confidence intervals with these calculations would require great expense. Also, the reported efficiency for a device depends on the number of counts, so that the same device will get a different reported efficiency if 5 plates are run instead of 3, or similar.

In addition, this method of calculation does not address the issue of variability at the test lab since the total counts are used. It seems preferable to report the counts, the average, and the standard deviation to give an average efficiency and a measure of the sample count variability.

[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.]

6.1.2 Bioaerosol Preparation and Generation

Preparation of the test organism suspension for the aerosolization requires that the test organism be grown in the laboratory and the suspension prepared for aerosol generation in the test duct. The microbial challenge suspensions are prepared by inoculating the test organism onto solid or into liquid media, incubating the culture until mature, wiping organisms from the surface of the pure culture (if solid media), and eluting them into sterile fluid to a known concentration to serve as a stock solution. The organism preparation is then diluted into the nebulizing fluid. The nebulizing fluid is quantified on agar plates to enumerate the number of test organisms in the suspension. The number of culturable organisms shall be at least 10^6 CFU per mL.

The bioaerosol generation system shall provide a stable test bioaerosol of sufficient concentration to allow measurement to show 99% inactivation. The generation system includes a 6-jet Collison (BGI, Waltham, MA) nebulizer that is based on air atomizing spray nozzles in which a suspension of microorganisms is nebulized with compressed air and then dried. The 6-jet Collison nebulizer (BGI, Waltham, MA) generates droplets with an approximate volume mean diameter of 2 μm . The particle diameter after the water evaporates depends on the solids content of the suspension. Particle size is determined by the size of the suspended particles. The concentration in the Collison should be such that only singlets are generated. The bioaerosol generator shall be designed to ensure that the microorganisms are dry prior to being introduced into the test duct. After drying, the bioaerosol may be neutralized using a charge neutralizer. If a charge neutralizer is not used, it must be included in the report. (Kujumdziec et. al. 2007)

7. DETERMINATION OF PERFORMANCE

The primary measure of performance within this test method is the single-pass bioaerosol inactivation efficiency. This efficiency shall be characterized in terms of the percentage of *Aspergillus sydowii* (ATCC®36542)

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Method of Testing UV-C Lights for Use in Air-Handling Units or Air Ducts to Inactivate Airborne Microorganisms
 Second Public Review

and *Mycobacterium parafortuitum* (ATCC®19686) that could not be cultured after UV-C radiation exposure (Miller-Leiden et al. 1996; Hernandez et al. 1999; Xu et al. 2005; Van Osdell and Foarde, 2002). The single-pass bioaerosol inactivation efficiency, η_{UVGI} , shall be quantified by comparing the bioaerosol concentration upstream and downstream of the UV-C device using the following general equation:

$$\eta_{UVGI} (\%) = \left(1 - \frac{C_{downstream}}{C_{upstream}} \right) \times 100 \quad \text{Equation 1}$$

where

$C_{downstream}$ = the average culturable bioaerosol concentration measured in the test duct downstream of the UV-C device, CFU/m³ (CFU/ft³)

$C_{upstream}$ = the average culturable bioaerosol concentration measured in the test duct upstream of the UV-C device, CFU/m³ (CFU/ft³)

This general equation is corrected for system biases according to Section 7.1 for final reporting.

7.1 Correction for No-Light Transmission Rate

There is also a potential bias in the bioaerosol measurements if the test duct and rig cause a change in the number of culturable organisms independent of the presence of a UV-C device. For this reason, a no-light transmission rate (UV-C light is not turned on in the test duct) is measured and applied as an additional correction to the single-pass bioaerosol inactivation efficiency. The no-light transmission rate is calculated by measuring the numbers of culturable organisms upstream and downstream without the UV-C light turned on. The same sampling methods are used as in the single-pass bioaerosol inactivation efficiency test, but the calculation is done using the opposite control limit values to give the most conservative estimate. The equation is:

$$TR_{no_light} = \frac{C_{down, no_light}}{C_{up, no_light}} \quad \text{Equation 2}$$

where

TR_{no_light} = no-light transmission rate

C_{down, no_light} = downstream, no-light, culturable bioaerosol concentration, CFU/m³ (CFU/ft³)

C_{up, no_light} = upstream, no-light, culturable bioaerosol concentration, CFU/m³ (CFU/ft³)

To remove this system bias, the single-pass bioaerosol inactivation efficiency shall be corrected by the no-light transmission rate. Thus, the final corrected form of Equation 1 becomes:

$$\text{Single-pass efficiency } (\%) = \left(1 - \frac{C_{D,95\%UCL}}{C_{D,95\%LCL} \times TR_{no_light}} \right) \times 100\%$$

$$\eta_{UVGI,corr} (\%) = \left(1 - \frac{C_{downstream}}{C_{upstream} \times TR_{no_light}} \right) \times 100\% \quad \text{Equation 3}$$

Single-pass efficiency shall be estimated for each of the three replicate experiments. Variability of the efficiency due to plating variability shall be estimated by propagating the standard deviation of concentration from the three replicate plates. The average Single-Pass Bioaerosol Inactivation Efficiency shall be calculated by averaging the

BSR/ASHRAE Addendum *b* to ANSI/ASHRAE Standard 185.1-2015,
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efficiency from the three repeat experiments and the experimental variability shall be estimated by propagating the standard deviation due to these three experimental runs.

INFORMATIVE ANNEX H [**Was Deleted Completely with first Public Review**]

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

NSF/ANSI/CAN Standard for Recreational Water Facilities –

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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3 Definitions

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3.XX high capacity cartridge filter: a cartridge type filter designed for use at filtration rates ≤ 0.375 gpm/ft²

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-
-

Normative Annex 2 (formerly Annex B)

Test methods for the evaluation of filters

NOTE — The test conditions specified in this Annex are not intended to represent recommended field use conditions.

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N-2.5 Turbidity reduction test

N-2.5.1 Purpose

The purpose of this test is to verify that a filter is capable of effectively reducing water turbidity caused by suspended particulate matter, and to verify the turbidity reduction capability of an alternate sand-type media.

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N-2.5.2 Apparatus

- flow meter (required accuracy is ± 1 GPM [± 4 LPM] or $\pm 2\%$ of reading, whichever is greater);
- pressure-recording device (required accuracy is ± 0.5 of the smallest division used in the manufacturer's claimed pressure loss);
- turbidimeter (required accuracy from 0 to 10 NTU is ± 0.5 NTU; required accuracy above 10 NTU is $\pm 5\%$ of the reading or ± 1 NTU, whichever is greater);
- temperature-indicating device (required accuracy is ± 2 °F [± 1 °C]);
- silica #140;
- water tank and pump system capable of delivering water at the design flow rate through the filter;
- pressure measurement taps sized to the filter's inlet and outlet; and
- for testing the turbidity reduction of an alternate sand-type media, the media shall be installed in a 24 in (624 mm) diameter filter with a maximum bed depth of 10 in (254 mm). A tank with 630 gal (2,385 L) of challenge water shall be prepared for the test. A manufacturer may have media tested in a larger filter with a correspondingly larger volume of challenge water. If the media is tested in a filter larger than 24 in (624 mm), the media approval shall be limited to the test filter size or larger.

N-2.5.3 Challenge water

| | Swimming pool / spa / hot tub filters |
|---------------------------------------|--|
| water temperature | 75 ± 10 °F (24 ± 6 °C) |
| turbidity prior to adding silica | ≤ 2 NTU |
| turbidity after adding silica #140 | 45 ± 5 NTU |

N-2.5.4 Turbidity reduction test method

a) Determine the volume of water needed to achieve a turnover ~~rate of no greater than 30 min~~ time according to the equation below when the filter is operated at the maximum design flow rate. Fill the test tank with the required volume of water.

$$\text{Turnover time (minutes)} = \left(\frac{8}{\sqrt{U}} + 8 \right), \pm 5\%, \text{ maximum } 30$$

$$\text{Where: } U = \text{Filtration Rate, } \left(\frac{\text{gpm}}{\text{ft}^2} \right) = \frac{\text{Maximum Design Flow Rate (gpm)}}{\text{Effective Filtration Area (ft}^2\text{)}}$$

$$\text{Volume (gallons)} = \text{Turnover Time (minutes)} \times \text{Maximum Design Flow Rate (gpm)}$$

If the prescribed turnover time requires a test volume greater than 10,000 gallons, the turnover time may be shortened to limit the test volume to 10,000 gallons

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- b) Sample the water in the tank and determine the turbidity level (*TB1*) in NTU. Add a sufficient quantity of silica #140 to obtain a turbidity level (*TB2*) of 45 ± 5 NTU.
- c) Install and condition the filter according to the manufacturer's instructions. Operate the filter at the maximum design flow rate.
- d) After operating the filter for the time required to filter one tank volume, draw a sample from the filter effluent and measure the turbidity (*TB3*). Repeat for the next four tank volumes.
- e) Calculate the turbidity remaining (*TR*) ratio at each tank volume using the following equation:

$$TR = (TB3 - TB1) / (TB2 - TB1)$$

- f) If the filter reaches the manufacturers recommended condition for cleaning prior to completing five tank turnovers, draw a sample from the filter effluent at the time the filter reaches the manufacturer's recommended condition for cleaning, and measure the turbidity (*TB3*).
- g) High capacity cartridge filters only (as defined in section 2): if the *TR* ratio is > 0.30 after five tank turnover times has elapsed and the filter has not reached the manufacturer's recommended condition for cleaning, a second turbidity reduction test may be performed, steps (a) through (f), without cleaning the filter. Prior to this second test, the water from the test tank and the filter housing shall be drained. The water used for the second test shall meet the requirements of N-2.5.3. The acceptance criteria shall be applied to the *TR* ratio from this second test.

N-2.5.5 Acceptance criteria

After the fifth tank volume, the *TR* ratio shall be ≤ 0.30 . This is equivalent to a 70% or greater reduction in turbidity.

Filters that reach the manufacturer's recommended condition for cleaning prior to completing five turnovers, shall have *TR* ratio ≤ 0.30 at the time the filter reaches the manufacturer's recommended condition for cleaning.

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Rationale: This will revise language relating to turbidity reduction testing.

BSR/UL 498, Standard for Safety for Attachment Plugs and Receptacles

1. Clarification of Ultraviolet Light and Water Exposure Test Apparatus

SD8.3 The ~~xenon-arc lamp~~ apparatus shall employ ~~operate with a 6500-W, water-cooled xenon-arc lamp,~~ borosilicate glass inner and outer optical filters capable of producing a spectral irradiance of 0.35 W/m²/nm at 340 nm and a black-panel temperature of 63 ±3°C (145 ±5°F).

2. Editorial correction to clause SE15.1 and clarification for marked electrical rating

SE15.1 The output “Class 2” connectors shall be identified as being “Class 2” and marked with the output electrical rating. The output electrical rating shall be permanently marked and visible after installation of the flush device cover plate or outlet box cover. The output electrical rating may be expressed in amperes and voltage, or wattage or in volt-ampere.

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BSR/UL 588, Standard for Safety for Seasonal and Holiday Decorative Products

2. Cord Tag Instruction Location

124.1.1 The markings specified in this section shall be located on a tag either:
a) attached to the product power supply within 6 inches (152.4 mm) of the exit of the attachment plug, current tap, direct plug-in unit, or power inlet, or
b) on the product when not provided with devices indicated in item (a).

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BSR/UL 651, Standard for Schedule 40, 80, Type EB and A Rigid PVC Conduit and Fittings

1. Minimum acceptable performance criteria for PVC conduit

PROPOSAL

6.15.1.4 The average impact strength is to be determined as indicated in 6.15.2.3 for each of the six sets of specimens tested. The six averages are then to be plotted as a function of time (the set of unaged specimens is to be plotted as having been aged for zero days). The six points so plotted are to be joined by a smooth curve. The resulting impact-strength degradation curve shall show a leveling off of impact strength at 50 percent or more of the average impact strength calculated for the set of unaged specimens or a minimum impact performance of 30 ft·lbf (40 J). If a plateau is reached after 180 or 240 days, aging of the 360-day specimens may be discontinued and those specimens may be discarded without being tested.

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BSR/UL 1004-5, Standard for Fire Pump Motors

1. Requirements for motors rated from 601 V - 7.2 kV and greater than 500 hp

PROPOSAL

8.1 A fire pump motor rated 600 V or less and 500 hp or less, including those rated for use with an inverter, is to be operated continuously for 12 seconds at rated voltage and frequency with the rotor locked. The locked-rotor current is to be measured during the first 3 seconds of the test.

8.2 A fire pump motor rated from 601 V - 7.2 kV, or greater than 500 hp, is to be operated continuously for 12 seconds at rated voltage and frequency with the rotor locked when initially at room ambient temperature for 8 seconds at rated voltage and frequency with the rotor locked. The locked rotor current is to be measured during the first 3 seconds of the test.

Exception: The motor may be operated continuously for less than 12 seconds if marked as specified in 11.8.

11.8 A fire pump motor rated from 601 V - 7.2 kV, or greater than 500 hp, and operated for less than 12 seconds continuously as specified in the Exception to 8.2 shall be marked "Continuous locked rotor operation verified as _____ seconds". The _____ shall be the number of seconds the motor was tested with the rotor locked.

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BSR/UL 1581, Standard for Safety for Reference Standard for Electrical Wires, Cables, and Flexible Cords

PROPOSALS

1. Addition of 75°C and 90°C EVA Requirements, Revised Table 47.1, New Tables 50.XXXA and 50.XXXB

Note from the STP Project Manager: For brevity, only the affected portion of Table is shown.

Table 47.1
Index to insulation and jacket materials

| Material | Applicable table(s) or paragraphs in this standard |
|----------------------------|--|
| EPCV | |
| 90°C Insulation | Table 50.62 |
| <u>EVA</u> | |
| 75°C insulation and jacket | Table 50.XXXA |
| 90°C insulation and jacket | Table 50.XXXB |

(NEW TABLES)

Note from the STP Project Manager: Tables 50.XXXA and 50.XXXB will be renumbered in the final revisions if the proposal reaches consensus.

Table 50.XXXA

Physical properties of 75°C Thermoplastic EVA^a insulation and jacket

| Condition of specimens at time of measurement | Minimum ultimate elongation (1-inch or 25-mm bench marks) | Minimum tensile strength |
|--|---|--|
| Unaged | 100 percent | 1200 lbf/in ² or |
| | (1 inch or 25 mm) | 8.27 MPa |
| Aged in a full-draft circulating-air oven for: | | |
| 48 h at 100.0 ±1.0°C (212 ±1.8°F) | 75 percent of the result with unaged specimens | 75 percent of the result with unaged specimens |
| ^a Thermoplastic EVA designates either: | | |
| a) An EVA copolymer, or | | |
| b) EVA copolymer blended with polyolefin compound(s). The compound contains at least 5 percent vinyl acetate as a percentage of the total polymer content. | | |

Table 50.XXXB**Physical properties of 90°C Thermoplastic EVA^a insulation and jacket**

| <u>Condition of specimens at time of measurement</u> | <u>Minimum ultimate elongation (1-inch or 25-mm bench marks)</u> | <u>Minimum tensile strength</u> |
|---|---|--|
| Unaged | 110 percent | 1300 lbf/in ² or |
| | (1.1 inches or 28 mm) | 9.0 MPa |
| Aged in a full-draft circulating-air oven for: | | |
| 168 h at 121.0 ±1.0°C (249.8 ±1.8°F) | 50 percent of the result with unaged specimens | 85 percent of the result with unaged specimens |

^aThermoplastic EVA designates either:

a) An EVA copolymer, or

b) EVA copolymer blended with polyolefin compound(s). The compound contains at least 5 percent vinyl acetate as a percentage of the total polymer content.

2. Addition of 105°C EVA Requirements, Revised Table 47.1, New Tables 50.XXXC

Note from the STP Project Manager: For brevity, only the affect portion of Table 47.1 is shown.

Table 47.1
Index to insulation and jacket materials

| Material | Applicable table(s) or paragraphs in this standard |
|-----------------------------|---|
| EPCV | |
| 90°C Insulation | Table 50.62 |
| <u>EVA</u> | |
| 105°C insulation and jacket | Table 50.XXXC |

(NEW TABLE)

Note from the STP Project Manager: Tables 50.XXXC will be renumbered in the final revisions if the proposal reaches consensus.

Table 50.XXXC**Physical properties of 105°C Thermoplastic EVA^a insulation and jacket**

| <u>Condition of specimens at time of measurement</u> | <u>Minimum ultimate elongation (1-inch or 25-mm bench marks)</u> | <u>Minimum tensile strength</u> |
|---|---|--|
| Unaged | 140 percent | 1550 lbf/in ² or |
| | (1.4 inches or 35.6 mm) | 10.3 MPa |
| Aged in a full-draft circulating-air oven for: | | |

| | | |
|---|---|---|
| <u>168 h at 136.0 ±1.0°C (276.8 ±1.8°F)</u> | <u>50 percent of the result with unaged specimens</u> | <u>85 percent of the result with unaged specimens</u> |
| ^a <u>Thermoplastic EVA designates either:</u> a) <u>An EVA copolymer, or</u> b) <u>EVA copolymer blended with polyolefin compound(s). The compound contains at least 5 percent vinyl acetate as a percentage of the total polymer content.</u> | | |

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BSR/UL 2208, Standard for Safety for Solvent Distillation Units

1. Add information regarding commercial and industrial plant oil extraction equipment

1.7 These requirements do not apply to:

- a) Carbon-bed units;
- b) Units intended to be installed outdoors;
- c) Units used to distill solvents classified as unstable or solvents used for nitrocellulose or other unstable reactives;
- d) Units intended for high volume distillation processes or equipment typical of the petrochemical or distilled spirits industries;
- e) The storage, use, and disposal of any flammable or combustible liquids or hazardous materials used with or produced by the equipment; or
- f) The physiological effects of using the equipment with solvents or hazardous waste.
- g) Units used in processing plant material for extraction of the oil. These units shall comply with the applicable requirements ANSI/CAN/UL/ULC 1389, Standard for Safety for Plant Oil Extraction Equipment for Installation and Use in Ordinary (Unclassified) Locations and Hazardous (Classified) Locations.

2. Increase capacity rating from 60 gallons maximum to 600 gallons maximum

1.1 These requirements cover solvent distillation units, with a maximum capacity of ~~60~~ gallons (227 l), 600 gallons (2271.2 liters), 60 gallons below the NFPA guidelines for "Portable Tanks", used for recycling flammable or combustible liquids as indicated in the instruction manual provided with each unit.

BSR/UL 2610-201X, Standard for Safety for Commercial Premises Security Alarm Units and Systems

1. For Ballot and Comment Only: Smart Devices

6 Glossary

6.44 ENTRY/EXIT DELAY (Abort Window) - A time delay on an entry/exit zone of a burglar alarm system that enables the user to enter the protected premises and disarm the system, or arm the system and exit the protected premises, without creating an alarm condition.

6.59A INFORMATIVE SIGNAL – Signals requested by a subscriber to only be forwarded to a supervising station after that user has determined to do so. (Examples: Alarm to be verified, HVAC indicators, lighting status, viewing a local camera, location of something in its field of view, various household status indicators, and the like.)

6.59B INFORMATIVE ZONE – A zone(s) that the subscriber has chosen for informative signal processing: the zone signal will be sent immediately to a select smart device, whereby the subscriber will “decide” what further action is to be taken. (See informative signal).

6.105 REMOTE COMMUNICATION - Data exchange in which information is exchanged between the control unit and an authorized entity. Information exchanges such as remote monitoring, remote interaction, and software downloading would also be considered remote communication and the like.

6.113A SMART DEVICE – A device (such as a smart cell phone) that can execute many or all, of the functions of an alarm system for most any location. (Examples: Smart Phone, Smart Pad, On-line Server, and the like.)

6.131A WITHHELD AND WITHHOLD – An action, initiated by a user that has decided an informative signal will not be transmitted to the supervising stations. (See Informative Signals and Informative Zone).

38A Smart Device Interface

38A.1 Control Unit

38A.1.1 The alarm system being accessed shall be compliant with Section 38, Remotely Accessible Control Units.

38A.2 Remote Smart Device

38A.2.1 All applicable elements of Section 38.2, Validation of Remote Access Credential, shall be implemented between the control unit and the application employed by the remote device.

38A.3 Behavior-Within Reasonable Sight of the Premises

38A.3.1 When doing day to day tasks, and not at remote access (see Clause 6.106 remote access) distance from the protected premises, the outcome shall be identical as if done at a traditional control unit and/or Arming Station.

38A.4 Behavior-When Not Within Sight of the Premises
(See Clause 6.104 Remote Access)

38A.4.1 All actions, that result in signals being transmitted to the Central-Station, shall include data that indicates the action was initiated from a remote device.

38A.4.2 Actions, that do not result in signals being transmitted to the Central-Station, shall be logged in the remote event log. (See Clause 38.8 Event Log)

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UL 8139, Standard for Safety for Electrical Systems of Electronic Cigarettes and Vaping Devices

3. Add Exception to 9.2 to Address Inadvertent Shorting

9.2 An external terminal of the device, battery, charger, charger interface, or other accessory shall be designed to prevent inadvertent shorting, reverse polarity, and misalignment. In addition to the constructional measure, the inadvertent shorting of ~~intermittently energized~~ external terminals may be addressed by carrying out the Short-circuit Test, Section 25.

4. Clarification to Section 10.4 to Indicate a Charging Interface Needs to be Tested

10.4 A charging interface shall be subjected to the applicable requirements in this standard when tested as an integral part of the complete electrical system. A charging interface shall comply with the applicable requirements in this standard or with one of the following:

- a) The Standard for Information Technology Equipment - Safety - Part 1: General Requirements, CAN/CSA-C22.2 No. 60950-1/UL 60950-1; or
- b) The Standard for Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements, CAN/CSA-C22.2 No. 62368-1/UL 62368-1.

Exception: This does not apply to a charging interface that complies with either the Standard for Information Technology Equipment - Safety - Part 1: General Requirements, CAN/CSA-C22.2 No. 60950-1/UL 60950-1 or the Standard for Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements, CAN/CSA-C22.2 No. 62368-1/UL 62368-1. However, a charging interface shall be subject to applicable requirements in this standard when tested as an integral part of the complete electrical system.

7. Section 29.6, Clarifying the Determination of Voltage Difference for the Drop Test

29.6 If the battery is operational after the test, the cell shall be removed from the device and subjected to three (3) additional discharge/charge operation sequences in an ambient of 25 ±5°C (77 ±9°F). The relative change in voltage difference shall not exceed 5%. The relative change in voltage difference is defined as:

$$\frac{[OCV_{dropped(t=0)} - OCV_{dropped(t=24h)}] - (OCV_{undropped(t=0)} - OCV_{undropped(t=24h)})}{OCV_{undropped(t=24h)}} \times 100\%$$

in which:

$OCV_{dropped(t=0)}$ is the open-voltage of the dropped cell measured immediately after three (3) additional discharge/charge cycles;

$OCV_{dropped(t=24h)}$ is the open-voltage of the dropped cell measured immediately after the following 24h;

$OCV_{undropped(t=0)}$ is the open-voltage of the undropped cell measured immediately after three (3) additional discharge/charge cycles; and

$OCV_{undropped(t=24h)}$ is the open-voltage of the undropped cell measured immediately after the following 24 h.

8. Section 17.4, Removal of Potentiometers from Temperature Measuring

17.4 Temperature shall be measured using thermocouples ~~or an equivalently accurate measuring device~~ consisting of wires not larger than 0.21 mm² (24 AWG) and not smaller than 0.006 mm² (39 AWG) or an equivalently accurate measuring device. For those tests that require the sample to reach thermal equilibrium (also referred to as steady state conditions), thermal equilibrium is considered to be achieved if, after three consecutive temperature measurements taken at intervals of 10% of the previously elapsed duration of the test, but not less than 15 minutes, indicate no change in temperature greater than $\pm 2^{\circ}\text{C}$ ($\pm 3.6^{\circ}\text{F}$). Unless noted otherwise, a cell temperature measurement shall be followed by a 1-hour observation time after reaching room temperature of $25 \pm 5^{\circ}\text{C}$ ($77 \pm 9^{\circ}\text{F}$) prior to concluding the test.

9. Addition of an Alternative Specification for Cheesecloth

17.10 Risk of fire is determined by performing the test with the device under test covered with cheesecloth consisting of bleached ~~cotton cheesecloth, with a fabric mass of 35.7 g/m² to 38.5 g/m² running 26–28 m²/kg (approximately 1.07–1.14 oz/yd² 14–15 yd²/lb)~~ and having what is known in the trade as a "count of 13 by 11", that is, for any square centimeter, 13 threads in one direction and 11 threads in the other direction (for any square inch, 32 threads in one direction and 28 in the other direction) a thread count of 32 +/- 1 x 28 +/- 1 Threads/Inch.

~~Exception: Cheesecloth of approximately 40 g/m² is also considered suitable for this purpose.~~

Note: Grade 60 cheesecloth is known to meet these requirements.

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