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CONTENTS

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Project Initiation Notification System (PINS)

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

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

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

AAFS (American Academy of Forensic Sciences)

Teresa Ambrosius; tambrosius@aafs.org | 410 North 21st Street | Colorado Springs, CO 80904 www.aafs.org

New Standard

BSR/ASB BPR 181-202x, Media Communications Following a Mass Fatality Incident: Best Practice Recommendations for the Medicolegal Authority (new standard)

Stakeholders: Primarily medicolegal authorities, but other groups such as emergency management agencies, public health agencies, public information officers, and media representatives may find value in this document.

Project Need: This document will provide recommendations to medicolegal authorities regarding media communications and information sharing during a mass fatality incident response.

Scope: Academics and Researchers; General Interest; Jurisprudence and Criminal Justice; User - Government; User - Non-Government

AAFS (American Academy of Forensic Sciences)

Teresa Ambrosius; tambrosius@aafs.org | 410 North 21st Street | Colorado Springs, CO 80904 www.aafs.org

New Standard

BSR/ASB BPR 182-202x, Victim Accounting: Best Practice Recommendations for Medicolegal Authorities in Mass Fatality Management (new standard)

Stakeholders: Primarily medicolegal authorities, but other groups such as emergency management agencies, public health agencies, healthcare agencies, first responders, and other parties involved in the response.

Project Need: This document will provide recommendations regarding victim accounting procedures during a mass fatality incident response, which currently does not exist for the medicolegal audience.

Scope: Academics and Researchers; General Interest; Jurisprudence and Criminal Justice; User - Government; User - Non-Government

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

Karl Best; kbest@ahrinet.org | 2311 Wilson Boulevard, Suite 400 | Arlington, VA 22201-3001 www.ahrinet.org

Revision

BSR/AHRI Standard 1160 (I-P)-202x, Performance Rating of Heat Pump Pool Heaters (revision of ANSI/AHRI Standard 1160 (I-P)-2014)

Stakeholders: The purpose of this standard is to establish for Heat Pump Pool Heaters: definitions; classifications; test requirements; rating requirements; minimum data requirements for Published Ratings; operating requirements; marking and nameplate data; and conformance conditions.

Project Need: The purpose of this standard is to establish for Heat Pump Pool Heaters: definitions; classifications; test requirements; rating requirements; minimum data requirements for Published Ratings; operating requirements; marking and nameplate data; and conformance conditions.

Interest Categories: Consumer/User, Component Manufacturer, General Interest, Product Manufacturer, Testing Laboratory.

Scope: This standard applies to the rating and testing of complete factory-made Heat Pump Pool Heater refrigeration systems.

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

Karl Best; kbest@ahrinet.org | 2311 Wilson Boulevard, Suite 400 | Arlington, VA 22201-3001 www.ahrinet.org

Revision

BSR/AHRI Standard 1161 (SI)-202x, Performance Rating of Heat Pump Pool Heaters (revision of ANSI/AHRI Standard 1161 (SI)-2014)

Stakeholders: Groups and individuals known to be, or who have indicated that they are, directly and materially affected by the standard, including manufacturers, testers, regulators, trade or professional organizations, and associations representing consumers.

Project Need: The purpose of this standard is to establish for Heat Pump Pool Heaters: definitions; classifications; test requirements; rating requirements; minimum data requirements for Published Ratings; operating requirements; marking and nameplate data; and conformance conditions.

Interest Categories: Consumer/User, Component Manufacturer, General Interest, Product Manufacturer, Testing Laboratory.

Scope: This standard applies to the rating and testing of complete factory-made Heat Pump Pool Heater refrigeration systems.

ASABE (American Society of Agricultural and Biological Engineers)

Carla VanGilder; vangilder@asabe.org | 2950 Niles Road | Saint Joseph, MI 49085 https://www.asabe.org/

Revision

BSR/ASABE S648-3.1 MONYEAR-202x, Agricultural Field Equipment Braking - Part 3: Requirements for Self-Propelled and Special Self-Propelled Machines (revision and redesignation of ANSI/ASABE S648-3 MONYEAR -2020)

Stakeholders: Manufacturers of towing and towed agricultural equipment.

Project Need: Aligns the SPM's with the SSP's and match the original requirements of the now-withdrawn ANSI/ASBE S365.

Interest Categories: Consultant, Design, General Interest, Producer, Safety, User.

Scope: This part of ANSI/ASABE S648 establishes test procedures and performance requirements for braking of self-propelled machines (SPM) and special self-propelled machines (SSP). The requirements and minimum performance criteria are directed to operation and parking of agricultural equipment having a maximum design ground speed greater than 6 km/h (3.7 mile/h).

ASABE (American Society of Agricultural and Biological Engineers)

Carla VanGilder; vangilder@asabe.org | 2950 Niles Road | Saint Joseph, MI 49085 https://www.asabe.org/

Revision

BSR/ASABE S648-5.2 MONYEAR-202x, Agricultural Field Equipment Braking - Part 5: Requirements for the Interface between Towing Vehicle and Towed Vehicles (revision and redesignation of ANSI/ASABE S648-5.1 MONYEAR-2021)

Stakeholders: Manufacturers of towing and towed agricultural equipment.

Project Need: Correcting a unit conversion error in clauses 6.1.3.1(b) and 6.1.3.2.1(a).

Interest Categories: Consultant, Design, General Interest, Producer, Safety, User.

Scope: This part of ANSI/ASABE S648 establishes the minimum requirements for interfacing the service brake system and parking brake system on towing agricultural field equipment with the service brake system and parking brake system on towed agricultural field equipment. The requirements of this part of ANSI/ASABE S648 are applicable to dual-line hydraulic and pneumatic systems but does not preclude the use of other equivalent systems. These requirements and minimum performance criteria are directed to the operation and parking of agricultural field equipment having a maximum design ground speed greater than 6 km/h (3.7 mile/h).

AVIXA (Audiovisual and Integrated Experience Association)

Loanna Overcash; lovercash@avixa.org | 11242 Waples Mill Road, Suite 200 | Fairfax, VA 22030 www.avixa.org

Revision

BSR/AVIXA A102.01-202X, Measurement and Classification of Audio Coverage Uniformity in Listener Areas (revision and redesignation of ANSI/INFOCOMM A102.01-2017)

Stakeholders: Entertainment venues, houses of worship, educational institutions, commercial buildings, retail facilities, judicial facilities, indoor sports venues, etc.

Project Need: To determine whether a space provides uniform audio coverage for the intended use.

Interest Categories: Consultant/Programmer; Manufacturer/Independent Manufacturer's Reps/Distributor; Technology Manager/Presentations Professional/Student/End-User; Systems Integrator/Live Events Professional.

Scope: This standard provides a procedure to measure and classify the uniformity of early arriving energy from a sound system across a listener area.

AWS (American Welding Society)

Jennifer Rosario; jrosario@aws.org | 8669 NW 36th Street, Suite 130 | Miami, FL 33166-6672 www.aws.org

Revision

BSR/AWS B2.5/B2.5M-202x, Specification for Measurement of Welding Power Source Output for Calculation of Welding Procedure Heat Input (revision of ANSI/AWS B2.5/B2.5M-2021)
Stakeholders: Welders, inspectors, engineers, manufacturers.

Project Need: Guidance is required on how to accurately measure welding energy and calculate heat input.

Scope: This document provides methods for determination of welding heat input, both in the case of traditional welding systems and those employing waveform-controlled welding. It is intended that this specification be referenced by other qualification and fabrication welding standards requiring the measurement and calculation of heat input for maintenance of distortion and weldment properties such as strength, toughness, and corrosion-resistance.

AWWA (American Water Works Association)

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

New Standard

BSR/AWWA C67X-202x, Online pH Measurement, Operation and Maintenance (new standard)
Stakeholders: Drinking water treatment and supply industry; Water utilities, consulting engineers, water-treatment equipment manufacturers, etc.

Project Need: pH is one of the most important analytical measurements necessary in the determination of water quality and to date there is no AWWA standard addressing the continuous online monitoring of it. There is a need for a new standard, especially in light of the new Copper-Lead Rules from the EPA and heightened sensitivities to the leaching of hazardous substances from aging water distribution piping systems as a function of pH.

Interest Categories: General Interest, Producer and User.

Scope: The standard will set minimum requirements for measurement of pH to control the treatment processes efficiently, provide guidance on the various problems associated with both inline and side stream installations of pH sensors, and outline the right maintenance procedures and steps to take to eliminate or minimize the errors encountered in operation.

IACET (International Association for Continuing Education and Training)

Sherard Jones; sjones@stratfuturist.com | 2201 Cooperative Way, Suite 600 | Herndon, VA 20171 www.iacet.org

Revision

BSR/IACET 1-202x, Standard for Continuing Education and Training (revision of ANSI/IACET 1-2018)
Stakeholders: IACET Accredited Providers, continuing education and training (CE/T) program providers, continuing education and training (CE/T) program consumers, employers, government agencies, credentialing associations, licensing bodies and others who rely on a skilled workforce.

Project Need: (1) Update formatting: The new format is intended to allow stakeholders to use the standard as an organizational development resource regardless of intent to become an IACET accredited provider. (2) Incorporate stakeholder feedback: Stakeholder feedback related to relevancy, timeliness, accreditation and best practices in continuing education and training programs has been considered.

Interest Categories: Government, non-profit, for profit.

Scope: The standard provides a framework of continuous improvement to developers of adult non-credit continuing education events. The standard provides guidance for organizations designing, developing, and delivering continuing education and training (CE/T) programs and is intended for organizations who want to demonstrate: (1) Their learning events meet the requirements and rigor of an internationally recognized standard; (2) Their commitment to educational rigor, excellence and integrity; and (3) A learner completing their program has completed a quality training program that adheres to an internationally recognized standard.

IES (Illuminating Engineering Society)

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

New Standard

BSR/IES RP (PP)-202x, Recommended Practice: Exterior Lighting for Parks and Protected Areas (new standard)
Stakeholders: Lighting designers, specifiers, manufacturers, distributors, architects, municipalities, federal, state and local governments, engineers, the general public, environmentalists, astronomers.

Project Need: The recommendations apply to exterior nighttime lighting used in parks and environmentally protected areas. Includes LZ-0 lighting zone zero recommendations for inclusion in RP-43-xx.

Interest Categories: USER Specifier (US) USER Affected (UA) USER Public Interest (UP) Producer (P) General Interest: Academic, Research (GAR) General Interest: Government, Regulatory (GGR) Organizational (OM).

Scope: This recommended practice contains recommendations for exterior nighttime lighting to be used in parks and protected areas that minimize adverse effects on flora and fauna found within these environments. The recommended practices will identify the ecological impact of light spectrum, glare, light trespass, and skyglow and prescribe illumination levels for a range of applications.

PHTA (Pool and Hot Tub Alliance)

Genevieve Lynn; standards@phta.org | 2111 Eisenhower Avenue, Suite 500 | Alexandria, VA 22314 www.PHTA.org

Revision

BSR/PHTA/ICC-16-202x, Standard for Suction Outlet Fitting Assemblies (SOFAs) for Use in Pools, Spas and Hot Tubs (revision and redesignation of ANSI/APSP/ICC 16-2017)
Stakeholders: Manufacturers, builders, designers, retailers, U.S. public health and code officials, local municipalities, pool and spa operators, and service companies, including storable pool manufacturers and their retail users.

Project Need: To update existing standard in accordance with latest testing, technology, and research on suction entrapment avoidance. Additional language on Storable Pool Integral Suction Outlet Fitting Assemblies (SOFAs) is included in this revision of the ANS.

Interest Categories: Producer, User-Consumer, User-Government, General Interest.

Scope: Establishes materials, testing, use, installation, and marking requirements for new or replacement bather-accessible Suction Outlet Fitting Assemblies (SOFAs), other than maintenance drains, that are designed to be fully submerged for use in swimming pools, hot tubs, spas, portable spas, non-portable wading pools, or other aquatic venues intended for swimming or recreational bathing. Skimmers and vacuum connection covers are excluded from the scope of this standard.

SAAMI (Sporting Arms and Ammunition Manufacturers Institute)

Brian Osowiecki; bosowiecki@saami.org | 11 Mile Hill Road | Newtown, CT 06470-2359 www.saami.org

Revision

BSR/SAAMI Z299.4-202x, Voluntary Industry Performance Standards for Pressure and Velocity of Centerfire Rifle Ammunition for the Use of Commercial Manufacturers (revision of ANSI/SAAMI Z299.4-2015)
Stakeholders: Commercial Manufacturers, Test Labs, Consumers, Government Agencies.

Project Need: Provides standards for commercial manufacturers of firearms and sporting ammunition.

Interest Categories: Expert, General Interest, Government, Producer, Testing Laboratory, User.

Scope: In the interests of safety and interchangeability, this Standard provides pressure and velocity performance and dimensional characteristics for centerfire rifle sporting ammunition and their respective chambers. Included are procedures and equipment for determining these criteria.

SAAMI (Sporting Arms and Ammunition Manufacturers Institute)

Brian Osowiecki; bosowiecki@saami.org | 11 Mile Hill Road | Newtown, CT 06470-2359 www.saami.org

Revision

BSR/SAAMI Z299.5-202x, Voluntary Industry Performance Standards Criteria for Evaluation of New Firearms Designs Under Conditions of Abusive Mishandling for the Use of Commercial Manufacturers (revision of ANSI/SAAMI Z299.5-2016)
Stakeholders: Commercial Manufacturers, Test Labs, Consumers, Government Agencies.

Project Need: In the interest of safety, the purpose of this Standard is to provide test procedures that will aid the designer and manufacturer in evaluating the performance of new designs of firearms under certain conditions of abusive mishandling.

Interest Categories: Expert, General Interest, Government, Producer, Testing Laboratory, User.

Scope: This Standard provides procedures for evaluating new firearms designs and applies to rifle, shotguns, pistols, and revolvers. In the interest of safety, these tests are structured to demonstrate to the designer of new firearms that the product will resist abusive mishandling. These procedures are specifically understood not to apply to muzzle loading and black powder firearms of any type.

UL (Underwriters Laboratories)

Elizabeth Northcott; Elizabeth.Northcott@ul.org | 333 Pfingsten Road | Northbrook, IL 60062 https://ul.org/

New Standard

BSR/UL 8803-202x, Standard for Safety for Portable UV Germicidal Equipment With Uncontained UV Sources (new standard)

Stakeholders: Lighting equipment and system manufacturers, portable UV germicidal equipment manufacturers, users and consumers of lighting and portable UV germicidal equipment.

Project Need: To establish requirements for portable equipment and systems that use ultraviolet (UV) energy primarily for UV germicidal applications in household and similar environments. Mitigation of the UV overexposure risk to humans would be accomplished by a series of equipment safeguards since the equipment may be operated by ordinary persons. This proposal is intended to address the personal injury considerations from UV overexposure, but it would be used in conjunction with the existing Portable Luminaire standards, CSA C22.2 No. 250.4 and UL 153, to address the fire and shock considerations.

Interest Categories: Authorities Having Jurisdiction, General Interest, Producer, Supply Chain, Testing and Standards Organization.

Scope: (1) Proposed adoption of the first edition of the Standard for Portable UV Germicidal Equipment with uncontained UV Sources, UL 8803, as a UL standard for the U.S. and Canada.

Call for Comment on Standards Proposals

American National Standards

This section solicits public comments on proposed draft new American National Standards, including the national adoption of ISO and IEC standards as American National Standards, and on proposals to revise, reaffirm or withdraw approval of existing American National Standards. A draft standard is listed in this section under the ANSI-accredited standards developer (ASD) that sponsors it and from whom a copy may be obtained. Comments in connection with a draft American National Standard must be submitted in writing to the ASD no later than the last day of the comment period specified herein. Such comments shall be specific to the section (s) of the standard under review and include sufficient detail so as to enable the reader to understand the commenter's position, concerns and suggested alternative language, if appropriate. Please note that the ANSI Executive Standards Council (ExSC) has determined that an ASD has the right to require that interested parties submit public review comments electronically, in accordance with the developer's procedures.

Ordering Instructions for "Call-for-Comment" Listings

1. Order from the organization indicated for the specific proposal.
2. Use the full identification in your order, including the BSR prefix; for example, Electric Fuses BSR/SAE J554.
3. Include remittance with all orders.
4. BSR proposals will not be available after the deadline of call for comment.

Comments should be addressed to the organization indicated, with a copy to the Board of Standards Review, American National Standards Institute, 25 West 43rd Street, New York, NY 10036. e-mail: psa@ansi.org
* Standard for consumer products

Comment Deadline: May 1, 2022

AISC (American Institute of Steel Construction)

130 E Randolph Street, Suite 2000, Chicago, IL 60601-6204 | duncan@aisc.org, www.aisc.org

Revision

BSR/AISC 341-202x, Seismic Provisions for Structural Steel Buildings (revision of ANSI/AISC 341-2016)
These provisions are for the design and construction of structural steel members and connections in the seismic force-resisting systems in buildings and other structures. The design forces in these structures shall result from earthquake motions determined on the basis of various levels of energy dissipation in the inelastic range of response.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Cynthia Duncan, duncan@aisc.org

AISI (American Iron and Steel Institute)

25 Massachusetts Avenue, NW, Suite 800, Washington, DC 20001 | jlarson@steel.org, www.steel.org

Supplement

BSR/AISI S250-21/S1-202x, Supplement 1 to the 2021 Edition of the North American Standard for Thermal Transmittance of Building Envelopes with Cold-Formed Steel Framing (supplement to ANSI/AISI S250-2021)
Supplement 1 will correct an error in Equations B4.2-1, B4.2-2 and B4.2-3 of AISI S250-21 by reformatting the equation to make it clear that the constant term is in the denominator.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: hchen@steel.org

Comment Deadline: May 1, 2022

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

180 Technology Parkway, Peachtree Corners, GA 30092 | rshanley@ashrae.org, www.ashrae.org

Addenda

BSR/ASHRAE Addendum n to BSR/ASHRAE Standard 15-202x, Safety Standard for Refrigeration Systems (addenda to ANSI/ASHRAE Standard 15-2019)
This proposed addendum to ANSI/ASHRAE Standard 15-2019 addresses a continuous maintenance proposal to clarify wording means face velocity. The reader is reminded that Addendum f to Standard 15-2019 modified Informative Appendix A to be a repository for explanatory material. This second full public review draft addresses comments received during the first publication public review.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts

NSF (NSF International)

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

Revision

BSR/NSF 49-202x (i166r1), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2020)
This Standard applies to Class II (laminar flow) biosafety cabinetry designed to minimize hazards inherent in work with agents assigned to biosafety levels 1, 2, 3, or 4. It also defines the tests that shall be passed by such cabinetry to meet this Standard. This Standard includes basic requirements for the design, construction, and performance of biosafety cabinets (BSCs) that are intended to provide personnel, product, and environmental protection; reliable operation; durability and structural stability; cleanability; limitations on noise level; illumination; vibration; and motor/blower performance.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: arose@nsf.org

NSF (NSF International)

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

Revision

BSR/NSF 51-202x (i26r1), Food Equipment Materials (revision of ANSI/NSF 51-2019)
This Standard is applicable to the materials and finishes used in the manufacture of food equipment (e.g., broiler, beverage dispenser, cutting board, stock pot). The Standard is also applicable to components such as tubing, sealants, gaskets, valves, and other items intended for various food equipment applications.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: arose@nsf.org

Comment Deadline: May 1, 2022

NSF (NSF International)

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

Revision

BSR/NSF 245-202x (i26r1), Residential Wastewater Treatment Systems - Nitrogen Reduction (revision of ANSI/NSF 245-2020)
This wastewater standard contains minimum requirements for residential wastewater treatment systems having rated treatment capacities of 1514 L/d (400 gal/d) to 5678 L/d (1500 gal/d) that are designed to provide reduction of nitrogen in residential wastewater. Management methods for the treated effluent discharged from these systems are not addressed by this Standard. A system, in the same configuration, must either be demonstrated to have met the Class I requirements of NSF/ANSI 40 or must meet the Class I requirements of NSF/ANSI 40 during concurrent testing for nutrient removal.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: jsnider@nsf.org

UL (Underwriters Laboratories)

333 Pfingsten Road, Northbrook, IL 60062-2096 | Amy.K.Walker@ul.org, https://ul.org/

Revision

BSR/UL 705-202x, Standard for Safety for Power Ventilators (revision of ANSI/UL 705-2021)
This proposal for UL 705 covers: (1) Addition to Scope to add requirements to cover power ventilators for smoke control systems; (2) Update internal wiring for hazardous voltage; (3) Addition of solid state speed controller test requirements; and (4) Correct clause SC10.2.1 for maximum temperature rise.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: https://csds.ul.com/Home/ProposalsDefault.aspx

UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Vickie.T.Hinton@ul.org, https://ul.org/

Revision

BSR/UL 913-202x, Standard for Safety for Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations (revision of ANSI/UL 913-2019)
(1) Revisions to include 2-WISE for Division Applications.
Click here to view these changes in full
Send comments (copy 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 1, 2022

UL (Underwriters Laboratories)

171 Nepean Street, Suite 400, Ottawa, ON K2P 0B4 Canada | sabrina.khrebtov@ul.org, https://ul.org/

Revision

BSR/UL 1565-202X, Standard for Safety for Positioning Devices (revision of ANSI/UL 1565-2013 (R2017))
(1) Publish a new edition of UL 1565.
Click here to view these changes in full
Send comments (copy 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 16, 2022

AAFS (American Academy of Forensic Sciences)

410 North 21st Street, Colorado Springs, CO 80904 | tambrosius@aafs.org, www.aafs.org

New Standard

BSR/ASB BPR 107-202x, Best Practice Recommendation for Measuring Trigger Pull of a Firearm and Estimating Its Uncertainty (new standard)
This document provides procedures for trigger pull measurements and for estimating uncertainties associated with trigger pull measurements.
Single copy price: Free
Obtain an electronic copy from: This is a public comment period for a recirculation. Updated document, redline version, and comments can be viewed on the AAFS Standards Board website at: https://www.aafs.org/academy-standards-board
Order from: Document will be provided electronically on AAFS Standards Board website (www.aafs.org/academy-standards-board) free of charge
Send comments (copy psa@ansi.org) to: asb@aafs.org

AAFS (American Academy of Forensic Sciences)

410 North 21st Street, Colorado Springs, CO 80904 | tambrosius@aafs.org, www.aafs.org

New Standard

BSR/ASB BPR 156-202x, Best Practices for Specimen Collection and Preservation for Forensic Toxicology (new standard)
This document delineates guidelines for the collection of forensic toxicology specimens and their amounts, preservatives, and storage conditions. This guideline applies to specimens collected for laboratories performing forensic toxicological analysis in the following sub-disciplines: postmortem toxicology, human performance toxicology (e.g., drug-facilitated crimes and driving-under-the-influence of alcohol or drugs) and other forensic testing (e.g., court-ordered toxicology, general forensic toxicology). It is not intended for the area of breath alcohol toxicology.
Single copy price: Free
Obtain an electronic copy from: This is a public comment period for a recirculation. Updated document, redline version, and comments can be viewed on the AAFS Standards Board website at: https://www.aafs.org/academy-standards-board.
Order from: Document will be provided electronically on AAFS Standards Board website (www.aafs.org/academy-standards-board) free of charge.
Send comments (copy psa@ansi.org) to: asb@aafs.org

Comment Deadline: May 16, 2022

AAFS (American Academy of Forensic Sciences)

410 North 21st Street, Colorado Springs, CO 80904 | tambrosius@aafs.org, www.aafs.org

New Standard

BSR/ASB Std 123-202x, Standard for Routine Internal Evaluation of a Laboratory's DNA Interpretation and Comparison Protocol (new standard)
This standard provides the requirements for the technical leader (or appropriate personnel) to: (1) routinely evaluate the consistent application of the developed, verified, and implemented DNA interpretation and comparison protocol within a laboratory and laboratory system; and (2) assess whether the DNA interpretation and comparison protocol is appropriately and consistently used to produce reliable and reproducible interpretations and comparisons. This standard addresses the development of an internal evaluation system, including proper format of data, types of data to use, frequency of evaluation, and how to assess results. This standard applies directly to capillary electrophoresis-based STR DNA testing, but may also be applied as appropriate to laboratories using other DNA testing methods. This standard applies to manual/binary interpretation and comparison methods as well as methods using software as part of the analysis, interpretation, comparison, and/or for generation of statistical statements.
Single copy price: Free
Obtain an electronic copy from: This is a public comment period for a recirculation. Updated document, redline version, and comments can be viewed on the AAFS Standards Board website at: https://www.aafs.org/academy-standards-board
Order from: Document will be provided electronically on AAFS Standards Board website (www.aafs.org/academy-standards-board) free of charge.
Send comments (copy psa@ansi.org) to: asb@aafs.org

AAFS (American Academy of Forensic Sciences)

410 North 21st Street, Colorado Springs, CO 80904 | tambrosius@aafs.org, www.aafs.org

New Standard

BSR/ASB Std 133-202x, Standard for Age Estimation in Forensic Anthropology (new standard)
Age is one of several biological parameters that can be estimated from skeletal material or medical imaging. This standard provides general procedures for the estimation of age from skeletal material or medical imaging by forensic anthropologists. Specific methods and techniques are not included in the standard.
Single copy price: Free
Obtain an electronic copy from: This is a public comment period for a recirculation. Updated document, redline version, and comments can be viewed on the AAFS Standards Board website at: www.aafs.org/academy-standards-board.
Order from: Document will be provided electronically on AAFS Standards Board website (www.aafs.org/academy-standards-board) free of charge.
Send comments (copy psa@ansi.org) to: asb@aafs.org

Comment Deadline: May 16, 2022

AAFS (American Academy of Forensic Sciences)

410 North 21st Street, Colorado Springs, CO 80904 | tambrosius@aafs.org, www.aafs.org

New Standard

BSR/ASB Std 153-202x, Standard Practices for Proficiency Testing for Forensic Toxicology Laboratories and Breath Alcohol Programs (new standard)
This document defines the minimum scope, requirements, and frequency for proficiency testing for laboratories engaged in the following sub-disciplines: postmortem forensic toxicology, human performance toxicology (e.g., drug-facilitated crimes, driving-under-the-influence of alcohol or drugs, breath alcohol program), and general forensic toxicology (non-lethal poisonings or intoxications). This document is not intended to cover employment drug testing or court ordered toxicology (e.g., probation and parole, drug courts, child services).
Single copy price: Free
Obtain an electronic copy from: This is a public comment period for a recirculation. Updated document, redline version, and comments can be viewed on the AAFS Standards Board website at: https://www.aafs.org/academy-standards-board
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Send comments (copy psa@ansi.org) to: asb@aafs.org

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410 North 21st Street, Colorado Springs, CO 80904 | tambrosius@aafs.org, www.aafs.org

New Standard

BSR/ASB Std 162-202x, Standard for the Forensic Examination and Documentation of Non-firearm Tools and Non-firearm Toolmarks (new standard)
This document provides procedures for the examination, documentation, and reporting of non-firearm tools and non-firearm toolmarks by forensic toolmark examiners. This document does not cover the microscopic comparison of toolmarks.
Single copy price: Free
Obtain an electronic copy from: Document and comments template can be viewed on the AAFS Standards Board website at: https://www.aafs.org/academy-standards-board
Order from: Document will be provided electronically on AAFS Standards Board website (www.aafs.org/academy-standards-board) free of charge.
Send comments (copy psa@ansi.org) to: asb@aafs.org

Comment Deadline: May 16, 2022

AISC (American Institute of Steel Construction)

130 E Randolph Street, Suite 2000, Chicago, IL 60601-6204 | duncan@aisc.org, www.aisc.org

New Standard

BSR/AISC 342-202x, Seismic Provisions for the Evaluation and Retrofit of Existing Structural Steel Buildings (new standard)
Seismic Provisions for Evaluation and Retrofit of Existing Structural Steel Buildings governs the seismic evaluation and retrofit of structural steel components of the seismic force-resisting system of existing buildings. The requirements of these Provisions will apply to existing structural steel components of a building system, retrofitted steel components of a building system, and new structural steel components added to an existing building system.
Single copy price: $35.00
Obtain an electronic copy from: www.aisc.org/publicreview
Order from: Martin Downs; downs@aisc.org
Send comments (copy psa@ansi.org) to: Cynthia Duncan; duncan@aisc.org

ANS (American Nuclear Society)

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

Reaffirmation

BSR/ANS 19.11-2017 (R202x), Calculation and Measurement of the Moderator Temperature Coefficient of Reactivity for Pressurized Water Reactors (reaffirmation of ANSI/ANS 19.11-2017)
This standard provides guidance and specifies criteria for determining the MTC in water moderated power reactors. Measurement of the isothermal temperature coefficient of reactivity (ITC) at hot zero power (HZP) conditions is covered in ANSI/ANS 19.6.1-2005, "Reload Startup Physics Tests for Pressurized Water Reactors." This standard therefore addresses the calculation of the ITC at HZP and the calculation and measurement of the MTC at power. At present, this standard addresses the calculation and measurement of the MTC only in PWRs, because that is the only type of power reactor currently sited in the United States for which measurement of the MTC is required.
Single copy price: $95.00
Obtain an electronic copy from: orders@ans.org
Order from: orders@ans.org
Send comments (copy psa@ansi.org) to: pschroeder@ans.org

Comment Deadline: May 16, 2022

ASABE (American Society of Agricultural and Biological Engineers)

2950 Niles Road, Saint Joseph, MI 49085 | vangilder@asabe.org, https://www.asabe.org/

Reaffirmation

BSR/ASABE AD5673-1-2017 (R202x), Agricultural tractors and machinery - Power take-off drive shafts and power-input connection - Part 1: General manufacturing and safety requirements (reaffirm a national adoption ANSI/ASABE AD5673-1-2017)
Specifies the power take-off (PTO) drive shafts of a tractor or self-propelled machine used in agriculture and the power-input connection (PIC) of its implement, establishing a method for determining PTO static and dynamic torsional strength while giving manufacturing and safety requirements. It is applicable only to those PTO drive shafts and guards mechanically linked to the shaft by at least two bearings. It is not applicable to PTO drive shafts guarded by location or to the mechanical characteristics of overrun devices and torque limiters, nor are environmental aspects considered; neither is it applicable to PTO drive shafts and their guards manufactured before the date of its publication.
Single copy price: $51.00 (ASABE member price $51; None members $75
Obtain an electronic copy from: vangilder@asabe.org
Order from: Carla VanGilder; vangilder@asabe.org
Send comments (copy psa@ansi.org) to: Same

ASABE (American Society of Agricultural and Biological Engineers)

2950 Niles Road, Saint Joseph, MI 49085 | vangilder@asabe.org, https://www.asabe.org/

Reaffirmation

BSR/ASABE AD5673-2-SEPT2014 (R202x), Agricultural tractors and machinery - Power take-off drive shafts and power-input connection - Part 2: Specification for use of PTO drive shafts, and position and clearance of PTO drive line and PIC for various attachments (reaffirm a national adoption ANSI/ASABE AD5673-2-SEPT2014 (R2019))
Gives the forms and applications of power take-off (PTO) drive shafts for tractors and self-propelled machines used in agriculture, and specifies the dimensions for, and clearance zone around, the implement power-input connection (PIC) for a variety of attachments. Its intent is to ensure proper clearance between the PTO drive line and adjacent components on the implement and tractor when both implement and tractor have compatible power levels. It is not intended as a complete guide for drive-line design and does not, for example, contain information on preventing drive-line vibration or sizing a torque limiting device. It is not applicable to combinations of implements with tractors having high ground clearance, such as those working in standing vegetable crops or sugar cane, nor to agricultural tractors designed for low ground clearance, such as for lawn mowing or ground care, which require a low centre of gravity; neither is it applicable to implements non-symmetrical in design by necessity due to their function.
Single copy price: $51.00 (ASABE members); $75.00 (Non-members)
Obtain an electronic copy from: vangilder@asabe.org
Order from: Carla VanGilder; vangilder@asabe.org
Send comments (copy psa@ansi.org) to: Same

Comment Deadline: May 16, 2022

AWWA (American Water Works Association)

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

Revision

BSR/AWWA C215-202x, Extruded Polyolefin Coatings for Steel Water Pipe (revision of ANSI/AWWA C215 -2016)
This standard describes the materials, systems, and application requirements for shop-applied extruded polyolefin coatings for the exterior of steel water pipes.
Single copy price: Free
Obtain an electronic copy from: ETSsupport@awwa.org
Order from: AWWA, Attn: Vicki David; vdavid@awwa.org
Send comments (copy psa@ansi.org) to: AWWA, Attn: Paul Olson; polson@awwa.org

AWWA (American Water Works Association)

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

Revision

BSR/AWWA C530-202x, Pilot-Operated Control Valves (revision of ANSI/AWWA C530-2017)
This standard establishes minimum requirements for pilot-operated control valves of globe, angle, and wye body styles with various end connections.
Single copy price: Free
Obtain an electronic copy from: ETSsupport@awwa.org
Order from: AWWA, Attn: Vicki David; vdavid@awwa.org
Send comments (copy psa@ansi.org) to: AWWA, Attn: Paul Olson; polson@awwa.org

AWWA (American Water Works Association)

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

Revision

BSR/AWWA C900-202x, Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4 In. Through 60 In. (100 mm Through 1,500 mm) (revision of ANSI/AWWA C900-2016)
This standard covers polyvinyl chloride (PVC) pipe, machined PVC couplings, and fabricated PVC fittings manufactured for conveying potable water, reclaimed water, irrigation water, wastewater, or any fluid compatible with non-plasticized PVC.
Single copy price: Free
Obtain an electronic copy from: ETSsupport@awwa.org
Order from: AWWA, Attn: Vicki David; vdavid@awwa.org
Send comments (copy psa@ansi.org) to: AWWA, Attn: Paul Olson; polson@awwa.org

Comment Deadline: May 16, 2022

FM (FM Approvals)

1151 Boston-Providence Turnpike, Norwood, MA 02062 | josephine.mahnken@fmapprovals.com, www.fmglobal.com

New Standard

BSR/FM 5970-202x, Heavy Duty Mobile Equipment Protection Systems (new standard)
This standard provides minimum guidelines for assessing the fire extinguishment effectiveness of systems, including detection and control systems, and their suitability for the various environments found on heavy-duty mobile equipment (HDME). Systems are assessed for performance over a range of severe, but realistic scenarios. Systems may use any extinguishing medium that meets performance requirements.
Single copy price: Free
Obtain an electronic copy from: josephine.mahnken@fmapprovals.com
Order from: Josephine Mahnken; josephine.mahnken@fmapprovals.com
Send comments (copy psa@ansi.org) to: Same

HPS (ASC N13) (Health Physics Society)

1313 Dolley Madison Blvd, Suite 402, McLean, VA 22101 | awride-graney@burkinc.com, www.hps.org

New Standard

BSR N13.25-202x, Internal Dosimetry Programs for Plutonium Exposure - Basic Requirements (new standard)
This standard provides criteria for the design and implementation of an internal dosimetry program for plutonium. These criteria are intended to provide guidelines concerning the functional operation of bioassay monitoring and internal dose assessment programs for facilities having the potential for occupational exposure to plutonium. These guidelines include the design and setup of a bioassay monitoring program, the selection of individuals to receive monitoring, the interpretation of bioassay monitoring results, the assessment of internal dose, action levels for medical intervention, assessing intakes associated with contaminated wounds, estimating uncertainty associated with assessed intakes, and numerical thresholds for medical intervention. The appendices to this standard provide additional useful information applicable to the design and implementation of a plutonium internal dosimetry program.
Single copy price: $Pending
Obtain an electronic copy from: awride-graney@burkinc.com
Send comments (copy psa@ansi.org) to: awride-graney@burkinc.com

HPS (ASC N43) (Health Physics Society)

1313 Dolley Madison Blvd, Suite 402, McLean, VA 22101 | awride-graney@burkinc.com, www.hps.org

Reaffirmation

BSR N43.1-2011 (R202x), Radiation Safety for the Design and Operation of Particle Accelerators (reaffirmation of ANSI N43.1-2011)
This standard sets forth accelerator facility ionizing radiation safety requirements for workers, public, and the environment produced during and from accelerator operations. This standard also recommends good practices that provide a level of radiation protection consistent with those established across the accelerator community.
Single copy price: $75.00
Obtain an electronic copy from: awride-graney@burkinc.com
Send comments (copy psa@ansi.org) to: awride-graney@burkinc.com

Comment Deadline: May 16, 2022

HPVA (Hardwood Plywood Veneer Association)

42777 Trade West Drive, Sterling, VA 20166 | Jhosen@decorativehardwoods.org, www.DecorativeHardwoods.org

Revision

BSR/HPVA LTDD 2.0-202x, Due Diligence in Procuring/Sourcing Legal TImber (revision and redesignation of ANSI/HPVA LTDD 1.0-2015)
This consensus voluntary Standard serves to document a common understanding of the most suitable internal Due Diligence Quality Assurance Program for establishing confidence that Illegal Timber is excluded from the Timber supply chain. Application of this Standard enables both suppliers and customers to meet the Due Care requirements of the U.S. Lacey Act, and supports conformity with the EU Timber Regulation and other legal Timber requirements worldwide. The flexibility of this Standard's structure facilitates its incorporation into a company's existing legality and Chain of Custody programs. Entities may choose to self-certify or to engage a third party, with or without ISO/IEC 17065 or ISO/IEC 17021 credentials, to perform an independent audit against the requirements of this Standard.
Single copy price: Free
Obtain an electronic copy from: jhosen@decorativehardwoods.org
Order from: ementel@decorativehardwoods.org
Send comments (copy psa@ansi.org) to: jhosen@decorativehardwoods.org

NEMA (National Electrical Manufacturers Association)

1300 North 17th Street, Suite 900, Rosslyn, VA 22209 | zijun.tong@nema.org, www.nema.org

Revision

BSR/NEMA PB 1.1-202x, General Instructions for Proper Installation, Operation, and Maintenance of Panelboards Rated 600 Volts or Less (revision and redesignation of ANSI/NEMA PB 1.1-2013)
This publication covers single panelboards or groups of panel units suitable for assembly in the form of single panelboards, including buses, and with or without switches or automatic overload protective devices (fuses or circuit breakers), or both. These units are used in the distribution of electricity at 600 volts and less with:
- 1600-ampere mains or less; or
- 1200-ampere branch circuits or less.

Specifically excluded are live-front panelboards, panelboards employing cast enclosures for special service conditions, and panelboards designed primarily for residential and light commercial service equipment.
Single copy price: Free
Obtain an electronic copy from: zijun.tong@nema.org
Send comments (copy psa@ansi.org) to: zijun.tong@nema.org

Comment Deadline: May 16, 2022

NEMA (National Electrical Manufacturers Association)

1300 North 17th Street, Suite 900, Rosslyn, VA 22209 | zijun.tong@nema.org, www.nema.org

Revision

BSR/NEMA PB 2.1-202x, General Instructions for Proper Handling, Installation, Operation, and Maintenance of Deadfront Distribution Switchboards Rated 600 Volts or Less (revision and redesignation of ANSI/NEMA PB 2.1-2013)
This publication covers floor-mounted deadfront switchboards which consist of an enclosure; molded-case and low-voltage power circuit breakers; fusible or non-fusible switches; instruments; and metering, monitoring, or control equipment, with associated interconnections and supporting structures. These units are used in the distribution of electricity at:
(a) 600 volts and less; and
(b) 6000 amperes or less.
Single copy price: Free
Obtain an electronic copy from: zijun.tong@nema.org
Send comments (copy psa@ansi.org) to: zijun.tong@nema.org

NSF (NSF International)

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

Revision

BSR/NSF 332-202x (i9r2), Sustainability Assessment for Resilient Floor Coverings (revision of ANSI/NSF 332 -2015)
This sustainability standard establishes a consistent approach to the evaluation and determination of environmentally preferable and sustainable resilient floor coverings. The Standard includes relevant criteria across the product(s) life cycle from raw material extraction through manufacturing, use, and end-of-life management. As used in this Standard, “resilient floor coverings” includes, but is not limited to, vinyl tile, vinyl composition tile, sheet vinyl, rubber, polymeric, and linoleum flooring products in which the wearing surface is non-textile. Also included are flooring accessories such as wall base, moldings, and stair treads.
Single copy price: Free
Obtain an electronic copy from: https://standards.nsf.org/apps/group_public/download.php/62807/332i9r2%20-%20Full%20Revision%20-%20JC%20memo%20&%20ballot.pdf
Send comments (copy psa@ansi.org) to: aburr@nsf.org

TIA (Telecommunications Industry Association)

1320 North Courthouse Road, Suite 200, Arlington, VA 22201-2598 | standards-process@tiaonline.org, www.tiaonline.org

Revision

BSR/TIA 1183-B-202x, Measurement Methods and Test Fixtures for Balun-less Measurements of Balanced Components and Systems (revision and redesignation of ANSI/TIA 1183-A-2017)
This project will create ANSI/TIA 1183-B, revision of ANSI/TIA 1183-A. Known errors will be corrected, nomenclature will be updated, and any general needed updates will be made.
Single copy price: $146.00
Obtain an electronic copy from: TIA (standards-process@tiaonline.org)
Order from: TIA (standards-process@tiaonline.org)
Send comments (copy psa@ansi.org) to: Same

Comment Deadline: May 16, 2022

UL (Underwriters Laboratories)

333 Pfingsten Road, Northbrook, IL 60062-2096 | alan.t.mcgrath@ul.org, https://ul.org/

Revision

BSR/UL 244B-202X, Standard for Field Installed and/or Field Connected Appliance Controls (revision of ANSI/UL 244B-2022)
Constructions of controls where the field wiring assembly can be separate from the control. This proposal addresses two forms of a separable terminal assembly constructions, i.e., installed (using a special purpose connector) into a device box or secured (via back plate) to the device box.
Single copy price: Free
Obtain an electronic copy from: https://csds.ul.com/Home/ProposalsDefault.aspx
Order from: http://www.shopulstandards.com
Send comments (copy psa@ansi.org) 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)

171 Nepean Street, Suite 400, Ottawa, ON K2P 0B4 Canada | kevin.hf.wu@ul.org, https://ul.org/

Revision

BSR/UL 2034-202x, Standard for Single and Multiple Station Carbon Monoxide Alarms (April 1, 2022) (revision of ANSI/UL 2034-2018)
This proposal covers: (1) New commercial vehicles definition, (2) Revised unconditioned areas definition, (3) Secondary power supply, (4) Battery-powered primary or secondary units, (5) Test equipment, (6) New velocity sensitivity test, (7) Impact test, (8) Drop test, (9) Section Title, (10) Commercial vehicle markings, and (11) Battery test requirements.
Single copy price: Free
Obtain an electronic copy from: https://csds.ul.com/Home/ProposalsDefault.aspx
Order from: http://www.shopulstandards.com
Send comments (copy psa@ansi.org) 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 31, 2022

ANS (American Nuclear Society)

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

Revision

BSR/ANS 19.3-202x, Steady-State Neutronics Methods for Power Reactor Analysis (revision of ANSI/ANS 19.3-2011 (R2017))
This standard provides guidance for developing, validating, and utilizing steady-state neutronics methods to calculate neutron reaction-rate spatial distributions, power distributions, and effective multiplication constants of nuclear power reactors and to provide guidelines by which the adequacy of design calculations may be demonstrated. It covers reactor physics calculations for the entire nuclear industry, from fast to thermal power reactors. This standard does not endorse or exclude the application of any methodology that has been adequately verified, validated, tested, and demonstrated to yield reliable reactor physics parameters.
Single copy price: $128.00
Obtain an electronic copy from: orders@ans.org
Order from: orders@ans.org
Send comments (copy psa@ansi.org) to: pschroeder@ans.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:

APCO (Association of Public-Safety Communications Officials-International)

351 N. Williamson Boulevard, Daytona Beach, FL 32114-1112 | apcostandards@apcointl.org, www.apcoIntl.org

BSR/APCO/NENA ANS 1.105.3-202x, Standard for Telecommunicator Emergency Response Taskforce (TERT) Deployment (revision and redesignation of ANSI/APCO/NENA 1.105.2-2015)
Inquiries may be directed to Mindy Adams; apcostandards@apcointl.org

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

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

ALI (ASC A14) (American Ladder Institute)

330 N. Wabash Avenue, #2000, Chicago, IL 60611 | jrapp@smithbucklin.com, www.americanladderinstitute.org

ANSI A14.7-2012, Mobile Ladder Stands & Mobile Ladder Stand Platforms

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.

ACP (American Clean Power Association)

1501 M Street NW, Suite 900, Washington, DC 20005 | standards@cleanpower.org, www.cleanpower.org

New Standard

ANSI/ACP 111-1-2022, Wind Turbine Sound Modeling (new standard) Final Action Date: 3/24/2022

ADA (American Dental Association)

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

New Standard

ANSI/ADA Standard No. 1105-2022, Digital Periodontitis Risk Assessment Resources (new standard) Final Action Date: 3/28/2022

ASC X9 (Accredited Standards Committee X9, Incorporated)

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

National Adoption

ANSI X9.134-3-2022, Mobile Financial Services - Part 3: Financial Application Lifecycle and Management (national adoption with modifications of ISO 12812) Final Action Date: 3/28/2022

National Adoption

ANSI X9.134-4-2022, Core Banking: Mobile Financial Services - Part 4: Mobile Payments-to-Persons (national adoption with modifications of ISO 12812 Part 4) Final Action Date: 3/28/2022

ASME (American Society of Mechanical Engineers)

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

Reaffirmation

ANSI/ASME PTC 34-2017 (R2022), Waste Combustors with Energy Recovery (reaffirmation of ANSI/ASME PTC 34 -2017) Final Action Date: 3/22/2022

Revision

ANSI/ASME BPE-2022, Bioprocessing Equipment (revision of ANSI/ASME BPE-2019) Final Action Date: 3/21/2022

ASSP (Safety) (American Society of Safety Professionals)

520 N. Northwest Highway, Park Ridge, IL 60068 | LBauerschmidt@assp.org, www.assp.org

Revision

ANSI/ASSP Z9.5-2022, Laboratory Ventilation (revision and redesignation of ANSI/AIHA Z9.5-2010) Final Action Date: 3/28/2022

CSA (CSA America Standards Inc.)

8501 East Pleasant Valley Road, Cleveland, OH 44131-5575 | ansi.contact@csagroup.org, www.csagroup.org

National Adoption

ANSI/CSA/ISO Z23551-4-2022, Safety and control devices for gas burners and gas-burning appliances - Particular requirements - Part 4: Valve-proving systems for automatic shut-off valves (national adoption with modifications of ISO 23551-4:2018) Final Action Date: 3/28/2022

CSA (CSA America Standards Inc.)

8501 East Pleasant Valley Road, Cleveland, OH 44131-5575 | ansi.contact@csagroup.org, www.csagroup.org

Reaffirmation

ANSI Z21.93-2017 (R2022), Excess flow valves for natural gas and propane gas with pressures up to 5 psig, same as CSA 6.30 (reaffirmation of ANSI Z21.93-2017) Final Action Date: 3/22/2022

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 | Karenvan@HL7.org, www.hl7.org

Reaffirmation

ANSI/HL7 V3 GELLO, R2-2010 (R2022), HL7 Version 3 Standard: GELLO, A Common Expression Language, Release 2 (reaffirmation of ANSI/HL7 V3 GELLO, R2-2010 (R2016)) Final Action Date: 3/24/2022

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

18927 Hickory Creek Drive, Suite 220, Mokena, IL 60448 | marianne.waickman@asse-plumbing.org, www.

Revision

ANSI/ASSE Series 5000-2022, Cross-Connection Control Professional Qualifications Standard (revision and redesignation of ANSI/IAPMO Series 5000-2015) Final Action Date: 3/24/2022

NSF (NSF International)

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

Revision

ANSI/NSF 305-2022 (i31r1), Personal Care Products Containing Organic Ingredients (revision of ANSI/NSF 305 -2016) Final Action Date: 3/22/2022

Revision

ANSI/NSF/CAN 50-2022 (i183r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2020) Final Action Date: 3/23/2022

Revision

ANSI/NSF/CAN 372-2022 (i6r1), Drinking Water System Components - Lead Content (revision of ANSI/NSF/CAN 372-2020) Final Action Date: 3/21/2022

SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 | kcooney@scte.org, www.scte.org

Reaffirmation

ANSI/SCTE 159-1-2017 (R2022), Multimedia Application and Service - Part 1: IPCablecom Multimedia (reaffirmation of ANSI/SCTE 159-1-2017) Final Action Date: 3/21/2022

Reaffirmation

ANSI/SCTE 159-2-2017 (R2022), Multimedia Application and Service - Part 2: IPCablecom Multimedia Web Services (reaffirmation of ANSI/SCTE 159-2-2017) Final Action Date: 3/21/2022

TMA (The Monitoring Association)

7918 Jones Branch Drive, Suite 510, McLean, VA 22102 | bginn@tma.us, www.csaaul.org

Revision

ANSI/TMA CS-V-01-2022, Alarm Confirmation, Verification and Notification Procedures (revision of ANSI/TMA CS-V -01-2020) Final Action Date: 3/24/2022

UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Vickie.T.Hinton@ul.org, https://ul.org/

National Adoption

ANSI/UL 60079-47-2022, Standard for Safety for Explosive Atmospheres - Part 47: Equipment Protection by 2-Wire Intrinsically Safe Ethernet Concept (2-WISE) (national adoption with modifications of IEC TS 60079-47) Final Action Date: 3/15/2022

National Adoption

ANSI/UL 62915-2022, Standard for Photovoltaic (PV) Modules - Type Approval, Design and Safety Qualification - Retesting (national adoption with modifications of IEC 62915) Final Action Date: 3/23/2022

New Standard

ANSI/UL 486L-2022, Standard for Safety for Large Ferrules (new standard) Final Action Date: 3/25/2022

New Standard

ANSI/UL 1285-2022, Standard for Pipe and Couplings, Polyvinyl Chloride (PVC), and Oriented Polyvinyl Chloride (PVCO) for Underground Fire Service (new standard) Final Action Date: 3/21/2022

Revision

ANSI/UL 746A-2022, Standard for Safety for Polymeric Materials - Short Term Property Evaluations (revision of ANSI/UL 746A-2021) Final Action Date: 3/23/2022

Revision

ANSI/UL 1004-10-2022, Standard for Pool Pump Motors (revision of ANSI/UL 1004-10-2020) Final Action Date: 3/24/2022

Revision

ANSI/UL 1088-2022, Standard for Safety for Temporary Lighting Strings (revision of ANSI/UL 1088-2019) Final Action Date: 3/21/2022

Revision

ANSI/UL 2515-2022, Aboveground Reinforced Thermosetting Resin Conduit (RTRC) and Fittings (revision of ANSI/UL 2515-2019) Final Action Date: 3/22/2022

Call for Members (ANS Consensus Bodies)

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

ANSI Accredited Standards Developer

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

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

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

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

ANSI Accredited Standards Developer

SCTE (Society of Cable Telecommunications Engineers)

SCTE, an ANSI-accredited SDO, is the primary organization for the creation and maintenance of standards for the cable telecommunications industry. SCTE's standards mission is to develop standards that meet the needs of cable system operators, content providers, network and customer premises equipment manufacturers, and all others who have an interest in the industry through a fair, balanced and transparent process.
SCTE is currently seeking to broaden the membership base of its ANS consensus bodies and is interested in new members in all membership categories to participate in new work in fiber-optic networks, advanced advertising, 3D television, and other important topics. Of particular interest is membership from the content (program and advertising) provider and user communities. Membership in the SCTE Standards Program is open to all directly and materially affected parties as defined in SCTE's membership rules and operating procedures. More information is available at www.scte.org or by e-mail from standards@scte.org.
Membership in the SCTE Standards Program is open to all directly and materially affected parties as defined in SCTE's membership rules and operating procedures. More information is available at www.scte.org or by e-mail from standards@scte.org.

Call for Members (ANS Consensus Bodies)

ANSI Accredited Standards Developer

CSA - CSA America Standards Inc.

Teleconference - May 16, 2022 from 1 p.m. to 4 p.m. EST

CSA Group will hold the Fuel Cell Technical Committee meeting by teleconference on May 16, 2022 from 1 p.m. to 4 p. m. EST. For more information on the meeting and the agenda, contact Mark Duda at mark.duda@csagroup.org.

Guests planning to attend the meeting are required to notify the project manager listed below in advance of the meeting, and provide a brief explanation of interest. If you wish to present specific comments on an item of business, you are required to notify the project manager in writing no later than April 6, 2021. Notification shall include any material proposed for presentation to the Technical Committee. For information, please contact Project Manager, Mark Duda at mark.duda@csagroup.org.

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201-3001 | kbest@ahrinet.org, www.ahrinet.org

BSR/AHRI Standard 1160 (I-P)-202x, Performance Rating of Heat Pump Pool Heaters (revision of ANSI/AHRI Standard 1160 (I-P)-202x)

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201-3001 | kbest@ahrinet.org, www.ahrinet.org

BSR/AHRI Standard 1161 (SI)-202x, Performance Rating of Heat Pump Pool Heaters (revision of ANSI/AHRI Standard 1161 (SI)-2014)

AISC (American Institute of Steel Construction)

130 E Randolph Street, Suite 2000, Chicago, IL 60601-6204 | duncan@aisc.org, www.aisc.org

BSR/AISC 341-202x, Seismic Provisions for Structural Steel Buildings (revision of ANSI/AISC 341-2016)

AISC (American Institute of Steel Construction)

130 E Randolph Street, Suite 2000, Chicago, IL 60601-6204 | duncan@aisc.org, www.aisc.org

BSR/AISC 342-202x, Seismic Provisions for the Evaluation and Retrofit of Existing Structural Steel Buildings (new standard)

ASABE (American Society of Agricultural and Biological Engineers)

2950 Niles Road, Saint Joseph, MI 49085 | vangilder@asabe.org, https://www.asabe.org/

BSR/ASABE S648-3.1 MONYEAR-202x, Agricultural Field Equipment Braking - Part 3: Requirements for Self-Propelled and Special Self-Propelled Machines (revision and redesignation of ANSI/ASABE S648-3 MONYEAR-2020)

ASABE (American Society of Agricultural and Biological Engineers)

2950 Niles Road, Saint Joseph, MI 49085 | vangilder@asabe.org, https://www.asabe.org/

BSR/ASABE S648-5.2 MONYEAR-202x, Agricultural Field Equipment Braking - Part 5: Requirements for the Interface between Towing Vehicle and Towed Vehicles (revision and redesignation of ANSI/ASABE S648-5.1 MONYEAR-2021)

Call for Members (ANS Consensus Bodies)

IACET (International Association for Continuing Education and Training)

2201 Cooperative Way, Suite 600, Herndon, VA 20171 | sjones@stratfuturist.com, www.iacet.org

BSR/IACET 1-202x, Standard for Continuing Education and Training (revision of ANSI/IACET 1-2018)

IES (Illuminating Engineering Society)

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

BSR/IES RP (PP)-202x, Recommended Practice: Exterior Lighting for Parks and Protected Areas (new standard)

NSF (NSF International)

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

BSR/NSF 49-202x (i166r1), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2020)

NSF (NSF International)

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

BSR/NSF 51-202x (i26r1), Food Equipment Materials (revision of ANSI/NSF 51-2019)

NSF (NSF International)

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

BSR/NSF 245-202x (i26r1), Residential Wastewater Treatment Systems - Nitrogen Reduction (revision of ANSI/NSF 245-2020)

NSF (NSF International)

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

BSR/NSF 332-202x (i9r2), Sustainability Assessment for Resilient Floor Coverings (revision of ANSI/NSF 332-2015)

American National Standards (ANS) Process

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 linkis www.ansi.org/asd and here are some direct links as well as highlights of information that is available:

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

Please visit ANSI's website (www.ansi.org)

- 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: https://www.ansi.org/portal/psawebforms/
- Information about standards Incorporated by Reference (IBR): https://ibr.ansi.org/
- ANSI - Education and Training: www.standardslearn.org

American National Standards Under Continuous Maintenance

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

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

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

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

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

ANSI-Accredited Standards Developers (ASD) Contacts

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

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ASSP (Safety)
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8669 NW 36th Street, Suite 130
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www.fmglobal.com

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HPVA
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www.DecorativeHardwoods.org

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IES
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1300 North 17th Street, Suite 900
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TIA
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ISO & IEC Draft International Standards

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

COMMENTS

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

Those regarding IEC documents should be sent to Tony Zertuche, General Secretary, USNC/IEC, at ANSI's New York offices (tzertuche@ansi.org). 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 16578, Molecular biomarker analysis - Requirements for microarray detection of specific nucleic acid sequences - 1/23/2022, $62.00

ISO/DIS 22935-1, Milk and milk products - Sensory analysis - Part 1: General guidance for the recruitment, selection, training and monitoring of assessors - 1/21/2022, $71.00

ISO/DIS 22935-2, Milk and milk products - Sensory analysis - Part 2: Recommended methods for sensory evaluation - 1/21/2022, $82.00

ISO/DIS 22935-3, Milk and milk products - Sensory analysis - Part 3: Guidance on a method for evaluation of compliance with product specifications for sensory properties by scoring - 1/21/2022, $46.00

Aircraft and space vehicles (TC 20)

ISO/FDIS 24330, Space systems - Rendezvous and Proximity Operations (RPO) and On Orbit Servicing (OOS) - Programmatic principles and practices - 5/28/2021, $77.00

Banking and related financial services (TC 68)

ISO/DIS 13491-2, Financial services - Secure cryptographic devices (retail) - Part 2: Security compliance checklists for devices used in financial transactions - 6/9/2022, $107.00

Building construction machinery and equipment (TC 195)

ISO/DIS 6085, Building construction machinery and equipment - Self-loading mobile concrete mixers - Safety requirements and verification - 1/23/2022, $82.00

Cleaning equipment for air and other gases (TC 142)

ISO/FDIS 29461-7, Air intake filter systems for rotary machinery - Test methods - Part 7: Filter element endurance test in fog and mist environments - 5/21/2021, $98.00

Dimensional and Geometrical Product Specifications and Verification (TC 213)

ISO/FDIS 1, Geometrical product specifications (GPS) - Standard reference temperature for the specification of geometrical and dimensional properties - 3/14/2021, $40.00

ISO/DIS 3611, Geometrical product specifications (GPS) - Dimensional measuring equipment: Micrometers for external measurements - Design and metrological characteristics - 6/11/2022, $67.00

Doors and windows (TC 162)

ISO/DIS 24084, Curtain walling - Inter-storey displacement resistance - Test method - 1/24/2022, $71.00

Environmental management (TC 207)

ISO/FDIS 14017, Environmental management - Requirements with guidance for verification and validation of water statements - 6/24/2021, $134.00

ISO/DIS 14020, Environmental statements and programmes for products - Principles and general requirements - 1/27/2022, $93.00

ISO/DIS 14093, Mechanism for financing local adaptation to climate change - Performance-based climate resilience grants - Requirements and guidelines - 1/23/2022, $112.00

ISO/DIS 14002-2, Environmental management systems - Guidelines for using ISO 14001 to address environmental aspects and conditions within an environmental topic area - Part 2: Water - 1/22/2022, $98.00

Ferrous metal pipes and metallic fittings (TC 5)

ISO/DIS 24131-1, Internal protection by polymeric lining for ductile iron pipes - Part 1: polyurethane lining - 1/27/2022, $67.00

ISO/DIS 24131-2, Internal protection by polymeric lining for ductile iron pipes - Part 2: epoxy lining - 1/27/2022, $67.00

Furniture (TC 136)

ISO/DIS 7173, Furniture - Chairs and stools - Determination of strength and durability - 6/12/2022, $134.00

Geographic information/Geomatics (TC 211)

ISO/FDIS 19105, Geographic information - Conformance and testing - 5/16/2020, $93.00

Graphic technology (TC 130)

ISO/DIS 28178, Graphic technology - Exchange format for colour and process control data using XML or ASCII text - 1/23/2022, $107.00

Graphical symbols (TC 145)

ISO/DIS 28564-4, Public information guidance systems - Part 4: Guidelines for installation and assessment - 6/13/2022, $53.00

Healthcare organization management (TC 304)

ISO/DIS 5741, Pandemic response - Temporary medical facility - 6/9/2022, $58.00

Internal combustion engines (TC 70)

ISO/DIS 7967-3, Reciprocating internal combustion engines - Vocabulary of components and systems - Part 3: Valves, camshaft drives and actuating mechanisms - 6/12/2022, $77.00

ISO/FDIS 7967-12, Reciprocating internal combustion engines - Vocabulary of components and systems - Part 12: Exhaust emission control systems - 5/30/2021, $53.00

Laboratory glassware and related apparatus (TC 48)

ISO/FDIS 23783-1, Automated liquid handling systems - Part 1: Vocabulary and general requirements - 3/25/2021, $77.00

ISO/FDIS 23783-2, Automated liquid handling systems - Part 2: Measurement procedures for the determination of volumetric performance - 3/25/2021, $146.00

ISO/FDIS 23783-3, Automated liquid handling systems - Part 3: Determination, specification and reporting of volumetric performance - 3/25/2021, $82.00

Materials, equipment and offshore structures for petroleum and natural gas industries (TC 67)

ISO/DIS 19901-4, Petroleum and natural gas industries - Specific requirements for offshore structures - Part 4: Geotechnical design considerations - 6/12/2022, $215.00

Natural gas (TC 193)

ISO/DIS 2613-1, Analysis of natural gas - Silicon content of biomethane - Part 1: Determination of total silicon content by AES - 1/21/2022, $62.00

Nuclear energy (TC 85)

ISO/DIS 23588, Radiological protection - General requirements for proficiency tests for in vivo radiobioassay - 1/21/2022, $62.00

Optics and optical instruments (TC 172)

ISO/DIS 23701, Optics and photonics - Laser and laser-related equipment - Photothermal technique for absorption measurement and mapping of optical laser components - 1/24/2022, $82.00

ISO/DIS 10110-16, Optics and photonics - Preparation of drawings for optical elements and systems - Part 16: Diffractive surfaces - 6/11/2022, $98.00

Photography (TC 42)

ISO/DIS 18937-2, Imaging materials - Photographic reflection prints - Methods for measuring indoor light stability - Part 2: Xenon-arc lamp exposure - 1/27/2022, $58.00

Plastics (TC 61)

ISO/DIS 5430, Plastics - Marine ecotoxicity testing scheme for soluble decomposition intermediates from biodegradable plastic materials in products intentionally used in the marine environment - Test methods and requirements - 6/13/2022, $62.00

ISO/FDIS 16396-2, Plastics - Polyamide (PA) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties - 9/25/2020, $53.00

Powder metallurgy (TC 119)

ISO/DIS 4491-2, Metallic powders - Determination of oxygen content by reduction methods - Part 2: Loss of mass on hydrogen reduction (hydrogen loss) - 6/16/2022, $46.00

Pulleys and belts (including veebelts) (TC 41)

ISO/DIS 7623, Steel cord conveyor belts - Cord-to-coating bond test - Initial test and after thermal treatment - 1/23/2022, $33.00

Refrigeration (TC 86)

ISO 14903:2017/DAmd 1, - Amendment 1: Refrigerating systems and heat pumps - Qualification of tightness of components and joints - Amendment 1 - 6/10/2022, $46.00

ISO/FDIS 16494-1, Heat recovery ventilators and energy recovery ventilators - Method of test for performance - Part 1: Development of metrics for evaluation of energy related performance - 3/5/2021, $107.00

Road vehicles (TC 22)

ISO/DIS 22138, Heavy commercial vehicles - Vehicle stability during tipper body operation - Tilt-table test method - 1/23/2022, $82.00

ISO/DIS 23820, Road vehicles - Determination of the filtration efficiency of urea filters - 1/27/2022, $82.00

ISO/FDIS 13063-1, Electrically propelled mopeds and motorcycles - Safety specifications - Part 1: On-board rechargeable energy storage system (RESS) - 7/20/2019, $46.00

ISO/FDIS 13063-2, Electrically propelled mopeds and motorcycles - Safety specifications - Part 2: Vehicle operational safety - 7/21/2019, $46.00

Rubber and rubber products (TC 45)

ISO/FDIS 34-1, Rubber, vulcanized or thermoplastic - Determination of tear strength - Part 1: Trouser, angle and crescent test pieces - 6/25/2021, $67.00

ISO/FDIS 34-2, Rubber, vulcanized or thermoplastic - Determination of tear strength - Part 2: Small (Delft) test pieces - 8/21/2021, $62.00

Security (TC 292)

ISO/DIS 22378, Security and resilience - Authenticity, integrity and trust for products and documents - Guidelines for interoperable object identification and related authentication systems to deter counterfeiting and illicit trade - 1/22/2022, $88.00

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

ISO/DIS 24540, Principles for effective and efficient corporate governance of water utilities - 6/9/2022, $93.00

Ships and marine technology (TC 8)

ISO/DIS 4853, Ships and marine technology - A-frame launch and recovery system - 1/21/2022, $46.00

ISO/DIS 4864, Ships and marine technology - Jacking system appliances on self-elevating unit - General requirements - 1/21/2022, $40.00

ISO/FDIS 24225, Ships and marine technology - Pneumatic quick-closing control devices - 7/25/2021, $58.00

ISO/DIS 24438, Ships and marine technology - Maritime education and training - Maritime career guidance - 6/10/2022, $67.00

ISO/DIS 11336-1, Large yachts - Strength, weathertightness and watertightness of glazed openings - Part 1: Design criteria, materials, framing and testing of independent glazed openings - 6/11/2022, $134.00

Springs (TC 227)

ISO/DIS 22705-2, Springs - Measurement and test parameters - Part 2: Cold formed cylindrical helical extension springs - 1/22/2022, $107.00

Surface chemical analysis (TC 201)

ISO/FDIS 23170, Surface chemical analysis - Depth profiling - Non-destructive depth profiling of nanoscale heavy metal oxide thin films on Si substrates with medium energy ion scattering - 5/8/2021, $93.00

Sustainable development in communities (TC 268)

ISO/FDIS 37168, Smart community infrastructures - Guidance on smart transportation by Electric, Connected and Autonomous Vehicles (eCAVs) and its application to on-demand responsive passenger services with shared vehicles - 12/17/2020, $62.00

Technical drawings, product definition and related documentation (TC 10)

ISO/DIS 6284, Construction drawings - Indication of limit deviations - 1/23/2022, $53.00

Textiles (TC 38)

ISO/FDIS 24584, Textiles - Smart textiles - Test method for sheet resistance of conductive textiles using non-contact type - 4/4/2021, $58.00

Thermal insulation (TC 163)

ISO/DIS 52000-3, Energy performance of buildings - Overarching EPB assessment - Part 3: General Principles for determination and reporting of Primary Energy Factors (PEF) and CO2 emission coefficients - 1/23/2022, $107.00

Tobacco and tobacco products (TC 126)

ISO/DIS 15592-3, Fine-cut tobacco and smoking articles made from it - Methods of sampling, conditioning and analysis - Part 3: Determination of total particulate matter of smoking articles using a routine analytical smoking machine, preparation for the determination of water and nicotine, and calculation of nicotine-free dry particulate matter - 1/22/2022, $82.00

ISO/DIS 23906-2, Cigarettes - Determination of benzo[a]pyrene in cigarette mainstream smoke with an intense smoking regime using GC/MS - Part 2: Method using cyclohexane as extraction solvent - 1/22/2022, $53.00

Tractors and machinery for agriculture and forestry (TC 23)

ISO 8437-1:2019/DAmd 1, - Amendment 1: Snow throwers - Safety requirements and test procedures - Part 1: Terminology and common tests - Amendment 1: Scope clarification - 6/12/2022, $29.00

ISO 8437-2:2019/DAmd 1, - Amendment 1: Snow throwers - Safety requirements and test procedures - Part 2: Pedestrian-controlled snow throwers - Amendment 1 - 6/12/2022, FREE

ISO 8437-3:2019/DAmd 1, - Amendment 1: Snow throwers - Safety requirements and test procedures - Part 3: Ride-on snow throwers - Amendment 1 - 6/12/2022, $29.00

ISO/DIS 5718-1, Harvesting equipment - Requirements for cutting elements - Part 1: Blades used on rotary disc mowers and rotary drum mowers - 6/13/2022, $46.00

ISO/DIS 5718-2, Harvesting equipment - Requirements for cutting elements - Part 2: Blades used on large rotary mowers - 6/13/2022, $46.00

ISO/DIS 4254-13, Agricultural machinery - Safety - Part 13: Large rotary mowers - 6/13/2022, $102.00

Valves (TC 153)

ISO/DIS 5115, Industrial valves - Part-turn valve actuation - 1/22/2022, $88.00

Water quality (TC 147)

ISO/DIS 17294-1, Water quality - Application of inductively coupled plasma mass spectrometry (ICP-MS) - Part 1: General guidelines - 6/11/2022, $107.00

ISO/IEC JTC 1, Information Technology

ISO/IEC DIS 16388, Information technology - Automatic identification and data capture techniques - Code 39 bar code symbology specification - 1/27/2022, $67.00

ISO/IEC FDIS 27036-2, Cybersecurity - Supplier relationships - Part 2: Requirements - 7/11/2021, $107.00

ISO/IEC FDIS 23001-18, Information technology - MPEG systems technologies - Part 18: Event message track format for the ISO base media file format - 5/20/2021, $53.00

IEC Standards

JTC1-SC41/270/CDV, ISO/IEC 30161-2 ED1: Internet of Things (IoT) - Data exchange platform for IoT services - Part 2: Transport interoperability between nodal points, 06/17/2022

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

46F/618/FDIS, IEC 61169-71 ED1: Radio-frequency connectors-Part 71: Sectional specification for RF coaxial connectors with inner diameter of outer conductor 5,0 mm - Characteristic impedance 50 Ohms (type NEX10), 05/06/2022

46A/1564/NP, PNW 46A-1564 ED1: COAXIAL COMMUNICATION CABLES - Part 13-1: Blank detail specification for semi-rigid cables with silicon dioxide dielectric, 06/17/2022

Documentation and graphical symbols (TC 3)

3C/2497/CDV, IEC 62648 ED2: Graphical symbols for use on equipment - Guidelines for the inclusion of graphical symbols in IEC publications, 06/17/2022

Electric traction equipment (TC 9)

9/2818/CD, IEC 62425 ED2: Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signalling, 06/17/2022

9/2820/CD, IEC 63438 ED1: Railway applications - Fixed installations - Protection principles for AC and DC electric traction power supply systems (Fast-track), 06/17/2022

Electrical equipment in medical practice (TC 62)

62D/1939/CDV, IEC 60601-2-46 ED4: Medical electrical equipment - Part 2-46: Particular requirements for the basic safety and essential performance of operating tables, 06/17/2022

Electrical installations of buildings (TC 64)

64/2545/CDV, IEC 60364-4-43 Ed. 4: Low-voltage electrical installations - Part 4-43: Protection for safety - Protection against overcurrent, 06/17/2022

Electrical installations of ships and of mobile and fixed offshore units (TC 18)

18/1771/CD, IEC 61363-1 ED2: Electrical installations of ships and mobile and fixed offshore units - Part 1: Procedures for calculating short-circuit currents in three-phase a.c., 06/17/2022

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

48B/2942/CDV, IEC 63171-7 ED1: Connectors for electrical and electronic equipment - Part 7: Detail specification for up to 7 ways including PE or FE (data/power) and shield pin, free and fixed circular connectors for balanced single-pair data transmission with current-carrying capacity: mechanical mating information, pin assignment and additional requirements for type 7, 06/17/2022

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

115/299/CD, IEC TS 63336 ED1: Commissioning of VSC HVDC systems, 06/17/2022

Hydraulic turbines (TC 4)

4/433/CDV, IEC 63132-6 ED1: Guide for installation procedures and tolerances of hydroelectric machines - Part 6: Vertical Pelton turbines, 06/17/2022

Industrial-process measurement and control (TC 65)

65C/1159/CDV, IEC 61784-5-19 ED2: Industrial communication networks - Profiles - Part 5-19: Installation of fieldbuses - Installation profiles for CPF 19, 06/17/2022

65C/1161/CDV, IEC 61784-5-22 ED1: Industrial communication networks - Profiles - Part 5-22: Installation of fieldbuses - Installation profiles for CPF 22, 06/17/2022

65C/1160/CDV, IEC 61784-5-8 ED3: Industrial communication networks - Profiles - Part 5-8: Installation of fieldbuses - Installation profiles for CPF 8, 06/17/2022

65C/1158/CDV, IEC 61784-5-X ED5: Industrial communication networks - Profiles - Part 5-x: Installation of fieldbuses - Installation profiles for CPF x (x=2, 3, 6, 12, 21), 06/17/2022

65E/854(F)/CDV, IEC 62769-1 ED3: Field Device Integration (FDI) - Part 1: Overview, 05/27/2022

65E/852(F)/CDV, IEC 62769-102-2 ED1: Field device integration (FDI) - Part 102-2: Profiles - EtherNet/IP, 05/27/2022

65E/853(F)/CDV, IEC 62769-151-1 ED1: Field device integration (FDI) - Part 151-1: Profiles - OPC UA, 05/27/2022

65E/855(F)/CDV, IEC 62769-2 ED3: Field Device Integration (FDI) - Part 2: FDI Client, 05/27/2022

65E/856(F)/CDV, IEC 62769-3 ED3: Field Device Integration (FDI) - Part 3: Server, 05/27/2022

65E/857(F)/CDV, IEC 62769-4 ED3: Field Device Integration (FDI) - Part 4: FDI Packages, 05/27/2022

65E/858(F)/CDV, IEC 62769-5 ED3: Field Device Integration (FDI) - Part 5: Information Model, 05/27/2022

65E/859(F)/CDV, IEC 62769-7 ED3: Field Device Integration (FDI) - Part 7: Communication Devices, 05/27/2022

65E/851(F)/CDV, IEC 62769-8 ED1: Field device integration (FDI) - Part 8:EDD to OPC-UA Mapping, 05/27/2022

Lamps and related equipment (TC 34)

34B/2136(F)/FDIS, IEC 60061-1/AMD63 ED3: Amendment 63 - Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 1: Lamp caps, 04/22/2022

Semiconductor devices (TC 47)

47D/941/NP, PNW 47D-941 ED1: Thermal standardization on semiconductor packages - Part 2: 3D thermal simulation models of semiconductor packages for steady-state analysis, 06/17/2022

Solar photovoltaic energy systems (TC 82)

82/2029/FDIS, IEC 62759-1 ED2: Photovoltaic (PV) modules - Transportation testing - Part 1: Transportation and shipping of module package units, 05/06/2022

82/2033/NP, PNW 82-2033 ED1: Photovoltaic power generating systems connection with grid - Testing of power conversion equipment - Part 2: Testing environment, 04/22/2022

82/2034/NP, PNW 82-2034 ED1: Photovoltaic power generating systems connection with grid - Testing of power conversion equipment - Part 3: Basic operations, 04/22/2022

82/2035/NP, PNW 82-2035 ED1: Photovoltaic power generating systems connection with grid - Testing of power conversion equipment - Part 7: Information exchange, 04/22/2022

82/2032/NP, PNW TS 82-2032 ED1: Power conditioners efficiency with partially shaded photovoltaic generators, 04/22/2022

Solar thermal electric plants (TC 117)

117/161/CD, IEC 62862-1-6 ED1: Solar thermal electric plants - Part 1-6: Silicone-based heat transfer fluids for the use in line focusing CSP applications, 06/17/2022

Switchgear and controlgear (TC 17)

17A/1345/CD, IEC 62271-110 ED5: High-voltage switchgear and controlgear - Part 110: Inductive load switching, 05/20/2022

17C/838/CDV, IEC 62271-207 ED3: High-voltage switchgear and controlgear - Part 207: Seismic qualification for gas-insulated switchgear assemblies, metal enclosed and solid-insulation enclosed switchgear for rated voltages above 1 kV, 06/17/2022

17A/1344/CD, IEC TS 62271-316 ED1: High-voltage switchgear and controlgear - Part 316: Direct current by-pass switches and paralleling switches, 06/17/2022

Newly Published ISO & IEC Standards

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

ISO Standards

Agricultural food products (TC 34)

ISO 22942-1:2022, Molecular biomarker analysis - Isothermal polymerase chain reaction (isoPCR) methods - Part 1: General requirements, $200.00

Aircraft and space vehicles (TC 20)

ISO 14222:2022, Space environment (natural and artificial) - Earths atmosphere from ground level upward, $200.00

Building environment design (TC 205)

ISO 52032-1:2022, Energy performance of buildings - Energy requirements and efficiencies of heating, cooling and domestic hot water (DHW) distribution systems - Part 1: Calculation procedures, $175.00

Ceramic tile (TC 189)

ISO 10545-18:2022, Ceramic tiles - Part 18: Determination of light reflectance value (LRV), $48.00

Documents and data elements in administration, commerce and industry (TC 154)

ISO 9735-11:2022, Electronic data interchange for administration, commerce and transport (EDIFACT) - Application level syntax rules (Syntax version number: 4, Syntax release number: 1) - Part 11: Version 3 compatible profile for Version 4 of ISO 9735, $73.00

Gas cylinders (TC 58)

ISO 22434:2022, Gas cylinders - Inspection and maintenance of valves, $73.00

Industrial automation systems and integration (TC 184)

ISO 17506:2022, Industrial automation systems and integration - COLLADATM digital asset schema specification for 3D visualization of industrial data, $250.00

Iron ores (TC 102)

ISO 11257:2022, Iron ores for shaft direct-reduction feedstocks - Determination of the low-temperature reduction-disintegration index and degree of metallization, $73.00

Machine tools (TC 39)

ISO 230-10:2022, Test code for machine tools - Part 10: Determination of the measuring performance of probing systems of numerically controlled machine tools, $225.00

Optics and optical instruments (TC 172)

ISO 9211-4:2022, Optics and photonics - Optical coatings - Part 4: Specific test methods: abrasion, adhesion and resistance to water, $111.00

Paper, board and pulps (TC 6)

ISO 638-1:2022, Paper, board, pulps and cellulosic nanomaterials - Determination of dry matter content by oven-drying method - Part 1: Materials in solid form, $73.00

Plastics (TC 61)

ISO 19712-3:2022, Plastics - Decorative solid surfacing materials - Part 3: Determination of properties - Solid surface shapes, $200.00

Rubber and rubber products (TC 45)

ISO 8330:2022, Rubber and plastics hoses and hose assemblies - Vocabulary, $48.00

ISO 18752:2022, Rubber hoses and hose assemblies - Wire- or textile-reinforced single-pressure types for hydraulic applications - Specification, $111.00

ISO 24376:2022, Rubber, raw natural - Guidelines and requirements for technically specified low-protein natural rubber, $73.00

Steel (TC 17)

ISO 23213:2022, Carbon steel wire for bedding and seating springs, $73.00

Textile machinery and allied machinery and accessories (TC 72)

ISO 8115-1:2022, Cotton bales - Part 1: Dimensions and density, $48.00

ISO 8115-3:2022, Cotton bales - Part 3: Packaging and labelling, $48.00

ISO Technical Specifications

Industrial automation systems and integration (TC 184)

ISO/TS 10303-17:2022, Industrial automation systems and integration - Product data representation and exchange - Part 17: Description methods: EXPRESS to SysML CXMI transformation, $200.00

Technical systems and aids for disabled or handicapped persons (TC 173)

ISO/TS 20342-10:2022, Assistive products for tissue integrity when lying down - Part 10: Guidance to cleaning, disinfecting and care of polyurethane APTI covers, $48.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 23008-9:2022, Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 9: 3D Audio conformance testing, $250.00

ISO/IEC 30134-8:2022, Information technology - Data centres key performance indicators - Part 8: Carbon usage effectiveness (CUE), $111.00

ISO/IEC 30134-9:2022, Information technology - Data centres key performance indicators - Part 9: Water usage effectiveness (WUE), $149.00

ISO/IEC TS 22237-30:2022, Information technology - Data centre facilities and infrastructures - Part 30: Earthquake risk and impact analysis, $149.00

IEC Standards

Lamps and related equipment (TC 34)

IEC/PAS 63421 Ed. 1.0 en:2022, Zhaga Interface Specification Book 18 including Book 1 - Outdoor Luminaire Extension Interface, $417.00

Power system control and associated communications (TC 57)

IEC 62325-451-8 Ed. 1.0 b:2022, Framework for energy market communications - Part 451-8: HVDC Scheduling process, contextual and assembly models for European style market, $354.00

Solar photovoltaic energy systems (TC 82)

IEC 61215-1-2 Amd.1 Ed. 2.0 b:2022, Amendment 1 - Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules, $25.00

IEC 61215-1-2 Ed. 2.1 b:2022, Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules, $101.00

IEC 61215-1-3 Amd.1 Ed. 2.0 b:2022, Amendment 1 - Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules, $25.00

IEC 61215-1-3 Ed. 2.1 b:2022, Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV) modules, $101.00

IEC 61215-1-4 Amd.1 Ed. 2.0 b:2022, Amendment 1 - Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-4: Special requirements for testing of thin-film Cu(In,Ga)(S,Se)2 based photovoltaic (PV) modules, $25.00

IEC 61215-1-4 Ed. 2.1 b:2022, Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-4: Special requirements for testing of thin-film Cu(In,Ga)(S,Se)2 based photovoltaic (PV) modules, $152.00

Ultrasonics (TC 87)

IEC 62127-1 Ed. 2.0 b:2022, Ultrasonics - Hydrophones - Part 1: Measurement and characterization of medical ultrasonic fields, $417.00

S+ IEC 62127-1 Ed. 2.0 en:2022 (Redline version), Ultrasonics - Hydrophones - Part 1: Measurement and characterization of medical ultrasonic fields, $543.00

IEC Technical Reports

Laser equipment (TC 76)

IEC/TR 60825-14 Ed. 2.0 en:2022, Safety of laser products - Part 14: A user's guide, $417.00

Power electronics (TC 22)

IEC/TR 63259 Ed. 1.0 en:2022, Water cooling systems for power electronics used in electrical transmission and distribution systems, $183.00

IEC Technical Specifications

Solar photovoltaic energy systems (TC 82)

IEC/TS 63109 Ed. 1.0 en:2022, Photovoltaic (PV) modules and cells - Measurement of diode ideality factor by quantitative analysis of electroluminescence images, $221.00

International Organization for Standardization (ISO)

Call for U.S. TAG Administrator

ISO/TC 309 - Governance of Organizations

ANSI has been informed that the InterNational Committee for Information Technology Standards (INCITS), the ANSI-accredited U.S. TAG Administrator for ISO/TC 309, wishes to relinquish their role as U.S. TAG Administrator.

ISO/TC 309 operates under the following scope:

Standardization in the field of governance relating to aspects of direction, control and accountability of organizations

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).

Registration of Organization Names in the United States

The Procedures for Registration of Organization Names in the United States of America (document ISSB 989) require that alphanumeric organization names be subject to a 90-day Public Review period prior to registration. For further information, please contact the Registration Coordinator at (212) 642-4975.
When organization names are submitted to ANSI for registration, they will be listed here alphanumerically. Alphanumeric names appearing for the first time are printed in bold type. Names with confidential contact information, as requested by the organization, list only public review dates.

Public Review

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

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

Proposed Foreign Government Regulations

Call for Comment

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

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

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

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

CHAPTER D

Commented [CD1]: See revisions in Table D1.1.

GENERAL MEMBER AND CONNECTION DESIGN REQUIREMENTS

This chapter addresses general requirements for the design of members and connections.

The chapter is organized as follows:

D1. Member Requirements
D2. Connections
D3. Deformation Compatibility of Non-SFRS Members and Connections
D4. H-Piles

D1. MEMBER REQUIREMENTS

Members of moment frames, braced frames, and shear walls in the seismic force-resisting system (SFRS) shall comply with the *Specification* and this section.

1. Classification of Sections for Ductility

When required for the systems defined in Chapters E, F, G, H, and Section D4, members designated as moderately ductile members or highly ductile members shall comply with this section.

1a. Section Requirements for Ductile Members

Structural steel sections for both moderately ductile members and highly ductile members shall have flanges continuously connected to the web or webs.

Encased composite columns shall comply with the requirements of Section D1.4b.1 for moderately ductile members and Section D1.4b.2 for highly ductile members.

Filled composite columns shall comply with the requirements of Section D1.4c for both moderately and highly ductile members.

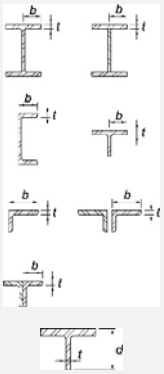
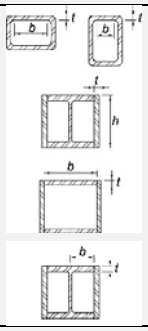
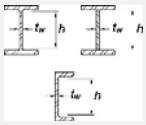
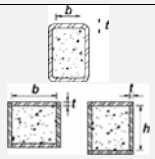
Concrete sections shall comply with the requirements of ACI 318, Section 18.4, for moderately ductile members and ACI 318, Sections 18.6, 18.7, and 18.8, for highly ductile members.

1b. Width-to-Thickness Limitations of Steel and Composite Sections

For members designated as moderately ductile, the width-to-thickness ratios of compression elements shall not exceed the limiting width-to-thickness ratios, λ_{md}, from Table D1.1.

For members designated as highly ductile, the width-to-thickness ratios of compression elements shall not exceed the limiting width-to-thickness ratios, λ_{hd}, from Table D1.1.

TABLE D1.1a
Width-to-Thickness Ratios: Compression Elements
Diagonal Braces

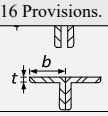
	Case	Description of Element	Width-to-Thickness Ratio	Limiting Width-to-Thickness Ratio		Example
				λ_{hd} Highly Ductile Members	λ_{md} Moderately Ductile Members	
Stiffened Elements	1	1) Flanges of rolled or built-up I-shaped sections 2) Flange and stem of rolled or built-up tees 3) Flanges of rolled or built-up channels 4) Legs of single angles or double-angle members with separators 5) Outstanding legs of pairs of angles in continuous contact	b/t d/t	$0.30\sqrt{\frac{E}{R_yF_y}}$	$0.38\sqrt{\frac{E}{R_yF_y}}$	
	2	1) Walls of rectangular HSS[a] 2) Flanges and side plates of boxed I-shaped sections 3) Walls of box sections	b/t h/t	$0.55\sqrt{\frac{E}{R_yF_y}}$	$0.64\sqrt{\frac{E}{R_yF_y}}$	
	3	Walls of round HSS[a]	D/t	$0.038\frac{E}{R_yF_y}$	$0.044\frac{E}{R_yF_y}$	
	4	Webs of rolled or built-up I-shaped sections and channels	h/t_w	$1.49\sqrt{\frac{E}{R_yF_y}}$	$1.49\sqrt{\frac{E}{R_yF_y}}$	
	5	Walls of filled rectangular HSS and box sections.[a]	b/t h/t	$1.4\sqrt{\frac{E}{R_yF_y}}$	$2.26\sqrt{\frac{E}{R_yF_y}}$	

	6	Walls of filled round HSS sections[a]	D/t	$0.076\frac{E}{R_yF_y}$	$0.15\frac{E}{R_yF_y}$	

[a] The design wall thickness, 0.93*t*, shall be used in the calculations involving the wall thickness of hollow structural sections (HSS), as defined in *Specification* Section B4.2.

35

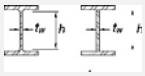
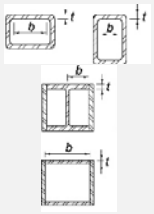
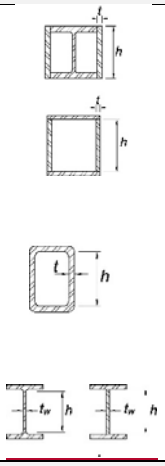
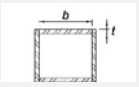
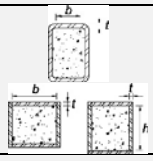
TABLE D1.1b
Width-to-Thickness Ratios: Compression Elements
All Members Except Diagonal Braces

	Case	Description of Element	Width-to-Thickness Ratio	Limiting Width-to-Thickness Ratio		
				λ_{hd} Highly Ductile Members	λ_{md} Moderately Ductile Members	
Unstiffened Elements	7	1) Flanges of rolled or built-up I-shaped sections 2) Flange and stem of rolled or built-up tees 3) Flanges of rolled or built-up channels 4) Legs of single angles or double-angle members with separators 5) Outstanding legs of pairs of angles in continuous contact	b/t d/t	$0.30\sqrt{\frac{E}{R_yF_y}}$	$0.38\sqrt{\frac{E}{R_yF_y}}$	
	8	Horizontal legs of double-angle members with separators or in continuous contact	b/t	$0.47\sqrt{\frac{E}{R_yF_y}}$	$0.54\sqrt{\frac{E}{R_yF_y}}$	
	9	Flanges of H-pile sections per Section D4	b/t	not applicable	$0.45\sqrt{\frac{E}{R_yF_y}}$	
Stiffened	10	Webs of H-pile sections	h/t_w	not applicable	$1.50\sqrt{\frac{E}{R_yF_y}}$	

Commented [CD2]: Revised in response to public review comments.
Case 11: See text revision under Description of Element.

Case 13: See text revision under Description of Element. Under Highly Ductile Members, revised eqns are shown. Previous equations (Jan. 5 draft) were as follows:
For $C_a \le 0.125$
$2.45(1\text{-}0.93C_a)\sqrt{E/R_yF_y}$
For $C_a > 0.125$
$2.26(1\text{-}0.34C_a)\sqrt{E/R_yF_y} \ge 1.49\sqrt{E/R_yF_y}$
Under Moderately Ductile Members, revised eqns. are shown. Previous equations (Jan. 5 draft) were as follows:
For $C_a \le 0.125$
$3.76(1\text{-}2.75C_a)\sqrt{E/R_yF_y}$
For $C_a > 0.125$
$2.61(1\text{-}0.43C_a)\sqrt{E/R_yF_y} \ge 1.49\sqrt{E/R_yF_y}$

Rationale: Based on the public review comments received, the Committee reevaluated the revisions to determine if there was an opportunity to further revise the provisions, consistent with the research, to mitigate some of the impact of the changes. It found those comments partially persuasive. It appears that the changes may have been applied more broadly than they should have been. Since the research was directed at moment frame members, but was applied in Case 11 to all I-shaped members, Case 11 will be revised to be limited to moment frames and all other applications of I-shaped members will be returned to Case 13, as they were for the 2016 Provisions.

	11	For moment frames, ~~W~~where used in beams~~,~~ or columns, ~~or links,~~ as webs in flexure, or combined axial and flexure: Webs of rolled or built-up I-shaped sections and channels	h/t_w	$2.5(1-C_a)^{2.3}\sqrt{\frac{E}{R_yF_y}}$ [b]	$5.4(1-C_a)^{2.3}\sqrt{\frac{E}{R_yF_y}}$ [b]	
	12	Where used in beams or columns as flanges in uniform compression due to flexure or combined axial and flexure: 1) Flanges of rectangular HSS[a] 2) Flanges of boxed I-shaped sections 3) Flanges of box sections	b/t	$0.55\sqrt{\frac{E}{R_yF_y}}$	$1.00\sqrt{\frac{E}{R_yF_y}}$	
	13	Where used in beams, columns, or links, as webs in flexure, or combined axial and flexure: 1) Side plates of boxed I-shaped sections 2) Webs of rectangular HSS[a] 3) Webs of box sections 4) Except for moment frames, webs of rolled or built-up I-shaped sections and channels	h/t	For $C_a \le 0.113$ [b] $2.45(1-1.04C_a)\sqrt{E/R_yF_y}$ For $C_a > 0.113$ $2.26(1-0.38C_a)\sqrt{E/R_yF_y}$ $\ge 1.56\sqrt{E/R_yF_y}$	For $C_a \le 0.113$ [b] $3.76(1-3.05C_a)\sqrt{E/R_yF_y}$ For $C_a > 0.113$ $2.61(1-0.49C_a)\sqrt{E/R_yF_y}$ $\ge 1.56\sqrt{E/R_yF_y}$	
	14	Flanges of box sections used as link beams	b/t	$0.55\sqrt{\frac{E}{R_yF_y}}$	$0.64\sqrt{\frac{E}{R_yF_y}}$	
	15	Webs of box sections used as EBF links	h/t	$0.64\sqrt{\frac{E}{R_yF_y}}$	$1.67\sqrt{\frac{E}{R_yF_y}}$	
	16	Walls of round HSS[a]	D/t	$0.038\frac{E}{R_yF_y}$	$0.07\frac{E}{R_yF_y}$	
Composite	17	Flanges and webs of filled rectangular HSS and box sections.[a]	b/t h/t	$1.4\sqrt{\frac{E}{R_yF_y}}$	$2.26\sqrt{\frac{E}{R_yF_y}}$	

	18	Walls of filled round HSS sections[a]	D/t	$0.076\frac{E}{R_yF_y}$	$0.15\frac{E}{R_yF_y}$	

[a] The design wall thickness, $0.93t$, shall be used in the calculations involving the wall thickness of hollow structural sections (HSS), as defined in *Specification* Section B4.2.

[b] $C_a = \frac{\alpha_s P_r}{R_y F_y A_g}$

where

A_g = gross area, in.^{2} (mm^2)
E = modulus of elasticity of steel = 29,000 ksi (200 000 MPa)
F_y = specified minimum yield stress, ksi (MPa)
P_r = required axial strength using LRFD or ASD load combinations, kips (N)
R_y = ratio of the expected yield stress to the specified minimum yield stress
α_s = LRFD-ASD force level adjustment factor = 1.0 for LRFD and 1.5 for ASD

36

American
Iron and Steel
Institute

AISI STANDARD

Supplement 1 to the 2021 Edition of the North American Standard for Thermal Transmittance of Building Envelopes with Cold-Formed Steel Framing

2022 Edition

DISCLAIMER

The material contained herein has been developed by the American Iron and Steel Institute (AISI) Committee on Framing Standards. The Committee has made a diligent effort to present accurate, reliable and useful information on cold-formed steel framing design and installation. The Committee acknowledges and is grateful for the contributions of the numerous researchers, engineers, and others who have contributed to the body of knowledge on the subject. Specific references are included in the *Commentary*.

With anticipated improvements in understanding of the behavior of cold-formed steel framing and the continuing development of new technology, this material will become dated. It is anticipated that AISI will publish updates of this material as new information becomes available, but this cannot be guaranteed.

The materials set forth herein are for general purposes only. They are not a substitute for competent professional advice. Application of this information to a specific project should be reviewed by a design professional. Indeed, in many jurisdictions, such review is required by law. Anyone making use of the information set forth herein does so at their own risk and assumes any and all liability arising therefrom.

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First Printing – xxxx 2022

Supplement 1 to AISI S250-21:

1. In Section B4.2.1, Trusses Without Rigid Foam Insulation, replace Eq. B4.2-1 with the following expression:

$$U_t = \frac{1}{0.864 \cdot R_{ins} + 0.330} \quad (Eq.\ B4.2\text{-}1)$$

2. In Section B4.2.2, Trusses With R-3 Rigid Foam Insulation, replace Eq. B4.2-2 with the following expression:

$$U_t = \frac{1}{0.864 \cdot R_{ins} + 4.994} \quad (Eq.\ B4.2\text{-}2)$$

3. In Section B4.2.3, Trusses With R-5 Rigid Foam Insulation, replace Eq. B4.2-3 with the following expression:

$$U_t = \frac{1}{0.864 \cdot R_{ins} + 7.082} \quad (Eq.\ B4.2\text{-}3)$$

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BSR/ASHRAE Addendum n
to ANSI/ASHRAE Standard 15-2019

Second Public Review Draft

Proposed Addendum n to Standard 15-2019, Safety Standard for Refrigeration Systems

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

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at www.ashrae.org/standards-research--technology/public-review-drafts 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.

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

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

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

FOREWORD

This proposed addendum to ANSI/ASHRAE Standard 15-2019 addresses a continuous maintenance proposal to clarify wording about face velocity. The reader is reminded that Addendum f to Standard 15-2019 modified Informative Appendix A to be a repository for explanatory material. This second full public review draft addresses comments received during the first publication public review.

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

Addendum n to Standard 15-2019

Modify Section 7 as follows. The remainder of Section 7 remains unchanged.

7. RESTRICTIONS ON REFRIGERANT USE

[…]

7.6.3.3* Refrigeration Systems with Ductwork. Devices containing hot surfaces exceeding 1290°F (700°C) *shall not* be located in the ductwork that serves the space unless there is ~~a minimum airflow of~~ an average airflow velocity not less than 200 ft/min (1.0 m/s) across the heating device(s) and there is proof of airflow before the heating device(s) is energized. Average airflow velocity *shall* be determined by volumetric airflow rate divided by duct flow area.

[…]

Note to Reviewers: The 2019 published edition of ANSI/ASHRAE Standard 15-2019 was modified by Addendum f to insert a new Informative Appendix A, "Explanatory Material," redesignated the published Informative Appendix A, "Informative References," to Informative Appendix B, "Informative References," and redesignated the published Normative Appendix B, "Normative References," to Section 14, "Normative References." To reduce confusion, this proposed addendum uses the revisions published in Addendum f as a baseline.

Modify Informative Appendix A as follows. The remainder of Informative Appendix A remains unchanged.

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

INFORMATIVE APPENDIX A—EXPLANATORY MATERIAL

Sections of the standard with associated explanatory information in this appendix are marked with an asterisk "*" after the section number, and the associated appendix information is located in a corresponding section number preceded by "A".

[…]

A7.6.3.3 The volumetric airflow rate can be determined from the airflow tables supplied in the *instructions* and the static pressure in the ductwork. If this is not available, use field measurement. The average airflow velocity can then be calculated as the volumetric airflow rate through the *duct* containing the hot surface divided by the cross-sectional area of ductwork in which the heating device is located.

Tracking #49i166r1

Revision to NSF/ANSI 49 – 2020
Issue 166, Revision 1 (March 2022)

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

NSF/ANSI International Standard for Biosafety Cabinetry —

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

•

3.8.2.3 Class II Type B1 cabinets: Cabinets that:

— maintain a minimum average inflow velocity of 100 ft/min (0.51 m/s) through the work access opening;

— have HEPA/ULPA filtered downflow air composed largely of uncontaminated recirculated inflow air;

— exhaust contaminated downflow air from a region of the total work area via an internal ~~dedicated~~ exhaust plenum and through HEPA/ULPA filter(s) to a dedicated external exhaust system for BSCs with a direct connection and exhausted to the atmosphere;

— recirculate the balance of the downflow and inflow air through a supply HEPA/ULPA filter(s); and

— have all biologically contaminated ducts and plenums under negative pressure or surrounded by negative pressure ducts and plenums.

•

3.8.2.5 Class II Type C1 cabinets: Cabinets that:

— maintain a minimum average inflow velocity of 100 ft/min (0.51 m/s) through the work access opening;

— have HEPA/ULPA filtered downflow air composed largely of uncontaminated recirculated inflow air;

— exhaust contaminated downflow air from a region of the total work area via an internal ~~dedicated~~ exhaust plenum and blower, and then through HEPA/ULPA filter(s);

— recirculate the balance of the downflow and inflow air through a supply HEPA/ULPA filter(s);

— have all biologically contaminated ducts and plenums under negative pressure or surrounded by negative pressure ducts and plenums; and

— may exhaust HEPA/ULPA filtered air either back into the laboratory or via a canopy connection to an external system that exhausts to the atmosphere.

•

I-1.4.2.4 Electrical requirements

The electrical outlet that the BSC plugs into should have a dedicated circuit breaker. This will prevent the accidental shutdown of the cabinet, should another device overload the circuit.

***Rationale for this subsection**: This use is ok as is. The context explains the meaning: "should another device overload the circuit". Here the term "dedicated" here, means there is not another device on the circuit.*

•

I-1.3.1.4 Question four: If the BSC requires an exhaust system, is there an appropriate location for the cabinet and its ductwork?

If a BSC is going to recirculate its HEPA/ULPA filtered air back into the laboratory, then the user has some freedom as to where the unit can be installed, provided it is out of major traffic areas, and there are no other air handling devices in the area, as shown in Figure 34.

If a BSC must be connected to an external mechanical exhaust system, their compatibility must be established *before* the BSC is selected. The exhaust system configurations of Type A, Type B, and Type C1 BSCs are shown in Figures 36, 39 and 41, respectively:

— directly ducting Types A and C1 cabinets is not permitted; they shall only be exhausted through a properly designed and fitted canopy exhaust system;

— canopy-connected Types A and C1 require a consistent, low static pressure. ~~While a dedicated exhaust system~~ While an exhaust duct dedicated to that individual cabinet is preferred, they may share a common exhaust system with other exhausted laboratory devices, if properly balanced;

— Type B BSCs require a higher static pressure that must increase as their exhaust filters load. They must be on ~~a dedicated exhaust system~~ an exhaust duct and fan dedicated to that individual cabinet, and not be ganged with other Type B BSCs, or other exhausted laboratory devices requiring a lower static pressure (e.g., fume hoods, canopy-connected BSCs);

•

Table I-1.2
Characteristics of Type B1 and Type B2 BSCs

	Type B1 (Figure 37)	**Type B2 (Figure 38)**
exhaust system	Required.	Required.
exhaust system type	Must have an exhaust duct and fan dedicated to each ~~dedicated ductwork and exhaust blower for each~~ BSC.	Must have an exhaust duct and fan dedicated to each ~~dedicated ductwork and exhaust blower for each~~ BSC.
exhaust system function	Must pull exhaust air through the Cabinet's Exhaust HEPA/ULPA filter and then through ductwork.	Must pull exhaust air through the Cabinet's Exhaust HEPA/ULPA filter and then through ductwork.
exhaust system volume	B1 is approximately 20% less than a Type A.	B2 exhausts 100% or more air than any other BSC Type.
exhaust system negative static pressure at BSC	Typically 0.7 inches w.g. H_2O (170 Pa) minimum.	Typically 1 to 2.5 inches w.g. (249 to 622 Pa) H_2O minimum.
exhaust system reserve capacity	Static pressure requirements may increase up to 0.3 inches w.g. H_2O (74 Pa) H_2O as exhaust HEPA/ULPA filter loads.	Static pressure requirements may increase up to 2.5 inches w.g. (622 Pa) as exhaust HEPA/ULPA filter loads.
installation cost	More expensive than a canopy-connected Type A and require an exhaust duct and fan dedicated to each BSC. ~~dedicated exhaust fan.~~	Most expensive. Higher exhaust volumes require larger ductwork and higher capacity ~~dedicated exhaust fan~~ exhaust duct and fan dedicated to each BSC.

***Rationale**: When the topic of airflow comes up for discussion in Standard 49, it is not uncommon for the side topic of ventilation systems to also come up as these systems influence one another in application.*

*A central element of understanding ventilation systems is if/how the system is ganged within a building structure and the general term that members have used over time to describe this is "*Dedicated*".*

*The term "*Dedicated*" appears several times in Standard 49 and is often considered at the very least ambiguous, if not misleading.*

The Task Group has met and discussed the various uses of the term and offer the following revisions to correct the ambiguity.

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

NSF International Standard/
American National Standard –

Food equipment

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4 Materials

4.X Glass and Glass-Like Tableware

Glass and glass-like materials including, but not limited to, porcelain and ceramic intended for direct food contact, may be permitted in the manufacture of tableware.

•
•

5 Design and construction

•

5.X Tableware

5.X.X Tableware shall comply with applicable requirements in Sections 4 and 5.

5.X.X Glass and glass-like tableware shall be tested for impact resistance and thermal shock in accordance with Section 6.X and 6.X.

•

6 Performance

•

6.X Glass and Glass-Like Tableware – Impact Resistance Test

6.X.X Performance requirement

The impact resistance of glass and glass-like tableware shall be evaluated using three samples of each unique type of tableware.

6.X.X Test method for flat tableware

The sample shall be conditioned for at least 24 h at 73 ± 3 °F (23 ± 2 °C) and 50 ± 5% relative humidity. The impact force shall be generated by a 0.625 in (15.9 mm) diameter stainless steel ball weighing 0.035 ± 0.001 lb (16.0 ± 0.5 g) dropped from a height of 13 in (33 cm) striking perpendicular to the surface. At the time of impact, test samples shall be supported by a 3/4 in (0.75 in, 19 mm) thick, 45 lb/ft^3 (721 kg/m^3) nominal density particle board. Three separate impacts shall be applied to the flat, horizontal, functional surface of the sample. Three additional separate impacts shall be applied to the rim of the sample such that the direction of force is parallel to the adjacent surface of the rim. The sample shall be repositioned after each impact such that the subsequent impacts strike a different area of the sample.

6.X.X Test method for holloware

The sample shall be conditioned for at least 24 h at 73 ± 3 °F (23 ± 2 °C) and 50 ± 5% relative humidity. The impact force shall be generated by a 0.625 in (15.9 mm) diameter stainless steel ball weighing 0.035 ± 0.001 lb (16.0 ± 0.5 g) dropped from a height of 13 in (33 cm) striking perpendicular to the surface. At the time of impact, test samples shall be supported on the outer wall by using particle board vee blocks shimmed to make the surface perpendicular. With sample oriented horizontally three separate impacts shall be applied to the edge of the open end (lip), center of the wall, edge of the closed end (heel) of the sample. (See Figure XX). The sample shall be repositioned after each impact such that the subsequent impacts strike a different area of the sample.

6.X.X Acceptance criteria

The test samples shall not exhibit any cracking, chipping, or breaking.

6.X Glass and Glass-Like Tableware – Thermal Shock Test

6.X.X Performance requirement

The thermal shock resistance of glass and glass-like tableware shall be evaluated using two samples of each type of tableware.

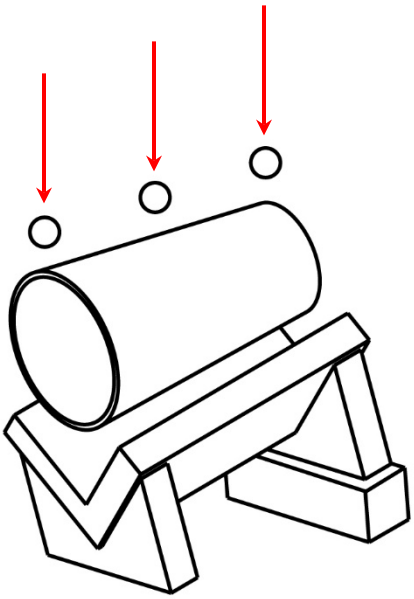
6.X.X Test method

A thermal shock cycle shall consist of a 30 minute exposure to heated air in an oven at 219 °F ± 7 °F (104 °C ± 4 °C) followed by a 15 second immersion in a cold water bath of 39 °F ± 7 °F (4 °C ± 4 °C). Each sample shall be subjected to a total of 5 thermal shock cycles with a resting period of 15 minutes at an ambient temperature of 75 °F ± 5 °F (24 °C ± 3 °C) prior to initiating the next cycle. Visually inspect the samples after each cycle and note any physical changes.

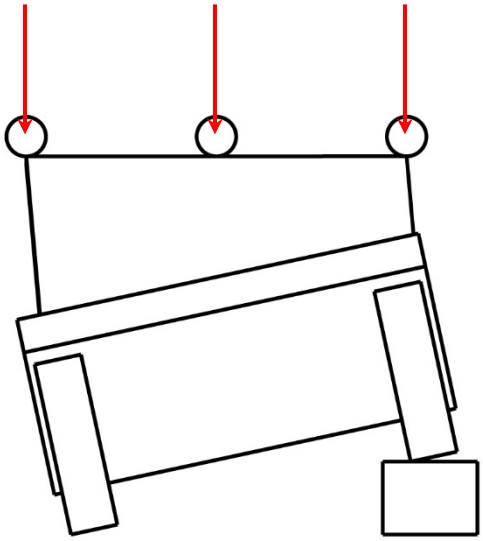
6.X.X Acceptance criteria

Test samples shall not show signs of cracking, crazing, or breaking.

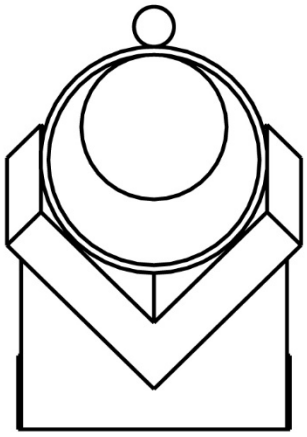
***Rationale**: Glass and glass-like tableware pose a potential physical threat to consumers in the foodservice space. The intent of this revision to Standard 2 is to fill the current gaps in this area.*



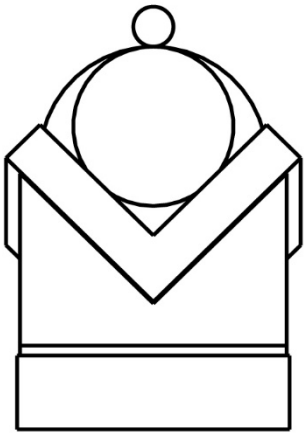
$^{3}/_{4}$ view



Side view



Front view



Back view

Figure X
[Title to be inserted here]

Note: *Figures are informative not normative. Keep this in mind when voting/commenting.*

NSF International Standard/
American National Standard –

NSF/ANSI 51 Food Equipment Materials

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4 Material formulation

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4.2.4 Glass and glass-like materials
Glass and glass-like materials, including porcelain, porcelain enamels, and ceramic coatings, shall not be used on surfaces intended for direct food contact that are also subject to impact by hard objects during use (e.g., countertops, tabletops, cutting boards, cooking surfaces) except as permitted in Section 4.2.4.1. and in NSF/ANSI 2.

Rationale: The general requirement prohibiting the use of glass and glass-like materials in a food zone remains in NSF/ANSI 51 but the exemptions are moved to NSF/ANSI 2.

•

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

NSF/ANSI Standard
For Wastewater Technology –
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2 Normative references

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

~~American Public Health Association (APHA)~~ APHA/AWWA/WEF, *Standard Methods for the Examination of Water and Wastewater,* 21st Edition, 2005 (hereinafter referred to as *Standard Methods*)[1]

ANSI/AWS D.1.1/D1.1M:2015, *Structural Welding Code – Steel*[2]

ANSI/AWS D1.3/D1.3M:2018, *Structural Welding Code – Sheet Steel,* 5th Edition, with Errata[2]

NFPA 70, *National Electrical Code* (NEC), 2020[3]

NSF/ANSI 40, *Residential Wastewater Treatment Systems*

US EPA, Code of Federal Regulations (CFR), Title 40: *Protection of Environment*, July 1, 2020[4]

[1] American Public Health Association, American Water Works Association, and Water Environment Federation. <www.standardmethods.org>

[2] American Welding Society. 8669 NW 36 Street, #130, Miami, FL 33166-6672. <www.aws.org>

[3] National Fire Protection Association. 1 Batterymarch Park, Quincy, MA 02169-7471. <www.nfpa.org>

[4] US Government Publishing Office. 732 North Capitol Street NW, Washington, DC 20401. <www.govinfo.gov/app/collection/cfr>

BSR/UL 705, Standard for Power Ventilators

1. Addition to Scope to add requirements to cover power ventilators for smoke control systems

PROPOSAL

1.2.3 These requirements cover power ventilators for smoke control systems.

2. Update internal wiring for hazardous voltage

PROPOSAL

2.7 DUCT FAN – A straight-through ventilator installed within a duct or provided with flanges for connection to a duct and which may be used with heated air within the duct.

11.1 ~~The~~ Hazardous voltage internal wiring, ~~and~~ connections between parts of a ventilator, and wiring which is part of a safety critical function shall be protected or enclosed.

11.3 All wiring is considered to be suitably enclosed when the cabinet or compartment enclosing the wiring has:

a) No louver or openings that will permit the probe of Figure 6.3 , when applied in a straight line, to contact wiring, and

b) No openings in the bottom, unless a U-shaped channel or trough is located beneath the wiring, and the wires do not project through the plane of the top of the channel or trough.

Exception: Hazardous voltage and safety circuit wiring, in which the flame test, UL VW-1, or the vertical flame test as described in the Standard for Electrical Wires, Cables, and Flexible Cords, UL 1581, is conducted, is considered to comply with 11.3 (b) and need not be isolated by the barriers described.

3. Addition of solid state speed controller test requirements

PROPOSAL

31A Ventilator motors provided with solid-state speed controls

31A.1 In addition to the condition described in 24.10, a motor that includes or that is intended for use with a solid-state speed control shall be operated under the following condition in 31A.3.

31A.2 A solid-state speed control shall comply with the applicable requirements in the Standard for Solid-State Fan Speed Controls, UL 1917, or the equivalent.

Exception No. 1: The spacings of an integral factory wired component solid-state speed control shall comply with either the Standard for Solid-State Fan Speed Controls, UL 1917, or the Standard for Automatic Electrical Controls – Part 1: General Requirements, UL 60730-1, and/or the applicable Part 2 standard from the UL 60730 series.

31A.3 With the motor connected to an ac supply modified to produce half-wave output. The supply shall be switched from sinusoidal to half-wave output after the motor is operating at maximum speed. If after the supply is switched from sinusoidal to half-wave operation, the motor shaft does not continue to rotate in a manner that is a normal condition, the locked-rotor temperature requirements described in 31A.4 shall be used instead of the maximum temperature specified in Table 24.1. See Figure 31A.1. For the requirements in this Clause and Clause 31A.4, “normal” is defined as operation in excess of 10% of the measured maximum RPM.

31A.4 When the motor shaft does not rotate or rotates in a manner not determined to be normal after the supply is switched from sinusoidal to half-wave operation as described in 31A.3 or the motor does not restart when operated from a half-wave source after the motor is de-energized, the motor shall comply with the applicable temperature requirements as follows:

a) The temperature of an impedance-protected motor shall comply with the locked-rotor temperature test requirements in Standard for Impedance Protected Motors, UL 1004-2.

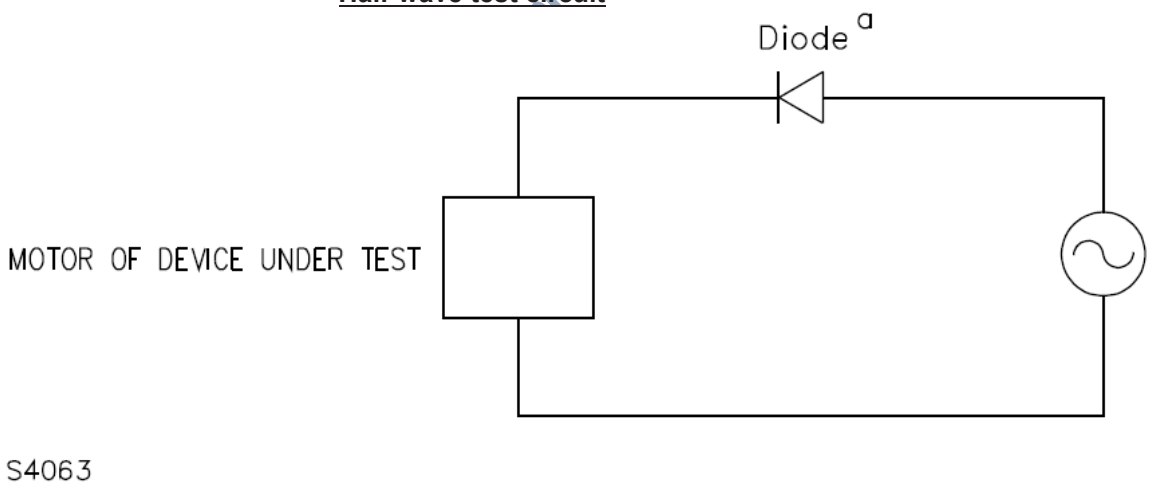
b) The temperature of a thermally-protected motor shall comply with the locked-rotor temperature test requirements in Standard for Thermally Protected Motors, UL 1004-3, except:

1) For a motor with an automatic reset type protective device, the temperature criteria shall not be applied during the initial cycle of the thermal protector operation and there shall be no emission of flame or molten metal, or

2) For a motor with a non-replaceable thermal cutoff, the temperature criteria shall not be applied when the thermal cutoff opens within the first hour and there shall be no emission of flame or molten metal.

c) The duration of the test shall be for 15 days. The power supply shall be modified to provide half-wave output directly to the motor and bypassing the integral solid-state speed control.

Figure 31A.1
Half-wave test circuit



Footnote –

[a] A standard rectifier diode shall be used to produce the half-wave input to the motor of the device under test. The diode shall be sized for the rating of the device under test (at least twice the rating of the motor).

4. Correct clause SC10.2.1 for maximum temperature rise

PROPOSAL

SC10.2.1 The maximum temperature rise obtained on any portion of the ventilator shall not exceed the maximum specified in Column 1 of Table SC10.1. Parts of the ventilator shall not warp, deteriorate or become damaged to any extent which would cause unsafe operation.

BSR/UL 913, Standard for Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations

1. Revision to include 2-WISE for Division Applications.

PROPOSAL

1.3A These requirements also cover the construction, marking and documenting of apparatus, systems and installations for use with the 2-Wire Intrinsically Safe Ethernet concept (2-WISE), such as the physical layer specification for 2-Wire Ethernet 10BASE-T1L as defined in IEEE 802.3cg.

5.8 Apparatus, systems and installations for use with the 2-Wire Intrinsically Safe Ethernet concept (2-WISE) in areas classified using the Division system shall additionally comply with the applicable requirements in UL 60079-47.

APPENDIX B – REFERENCE STANDARDS

The following are Standards for Equipment for Ordinary Locations that cover products which are also addressed by UL 913, as well as Hazardous Locations Standards that are referenced by UL 913.

Title of Standard − UL Standard Designation

Explosive Atmospheres – Part 0: Equipment – General Requirements – UL 60079-0

Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety “I” – UL 60079-11

Explosive Atmospheres – Part 47: Equipment Protection by 2-Wire Intrinsically Safe Ethernet Concept (2-WISE) – UL 60079-47

BSR/UL 1565, *Standard for Safety for Positioning Devices*

1. Topic – Publish a New Edition of UL 1565 (Proposed Ed. 6)

For your convenience in review, proposed additions to the previously proposed requirements dated 2021-11-26 are shown underlined and proposed deletions are shown ~~lined-out~~.

PROPOSAL

1.2 These devices may be, but is not limited to, cable clamps, saddle clamp, cable and conduit clips, edge clips, mechanical mounts, screw mounts, push mounts, non-raceway wiring ducts, and devices including features such as magnets, adhesives etc.

2 Units~~Unites~~ of Measurement

CSA Group Standards

C22.1~~-12:21~~
Canadian Electrical Code, Part I

C22.2 No. 0~~:20~~
General Requirements - Canadian Electrical Code, Part II

CAN/CSA-C22.2 No. 0.17~~-00 (R2018)~~
Evaluation of Properties of Polymeric Materials

C22.2 No. 18.4~~-15 (R2019)~~
Hardware for the Support of Conduit, Tubing, and Cable

CSA C22.2 No. 62275~~:21~~
Cable Management Systems - Cable Ties For Electrical Installations

4.2 AIR HANDLING SPACES – Equipment intended for use in spaces used for environmental air, such as ~~above~~ the space above suspended ceilings or below floors. This does not include plenums used for the removal of dust, loose stock, or vapor, or for ventilation of commercial-type cooking equipment.

4.13 MECHANICAL MOUNT - A device secured to a surface using a fastening device, such as a screw, rivet, bolt, or pin.

~~4.18 SCREW MOUNT - A device secured to a surface using a mechanical device, such as a screw, rivet, bolt, or pin.~~

4.21 SURFACE - Base that is conducive~~conductive~~ to stabilizing (securing) an object.

5.6 c) Samples containing the heaviest organic pigment loading (not carbon black), unless the most heavily pigmented light and dark colors include the highest organic pigment level. ~~Note:~~ When certain color pigments (for example, red, yellow, or the like) are known to affect flammability characteristics, they shall ~~are~~ also ~~to~~ be provided.

11.5 e) The maximum operating temperature of the adhesive in 11.5(a) shall be equal to or greater than the maximum operating temperature ~~or~~ of the device.

13.5 Unless otherwise specified, the tests shall be carried out at an ambient temperature of ~~25~~ 23 ±5 °C (73.4 ± 9 °F) and at a relative humidity between 40 and 60 percent.

13.9 Where required for heat ag~~e~~ing, a full draft circulating-air oven as in accordance with IEC 60216-4-1 shall be used. A portion of the air shall be allowed to re-circulate and a substantial amount of air shall be admitted continuously to maintain the normal air content surrounding the samples. The oven shall be adjusted to achieve more than five complete fresh-air changes per hour.

Table 2

Mechanical strength

Mechanical strength	
N	**(lb/f)**
No Mechanical Strength ~~No Load Rating~~	No Mechanical Strength ~~No Load Rating~~
30	(6.74)
50	(11.2)
67	(15.0)
80	(17.9)
90	(20.2)
112	(25.1)
222	(49.9)
334	(75.0)
359	(80.7)

Other values may be declared at the manufacturer's discretion.

Note: Mechanical strength does not provide an indication of long-term static load bearing capabilities. ~~It is typically expressed as the load rating.~~

16.3.2 A positioning device classified in accordance with 14.4(a) and a declared mechanical strength of "No Mechanical Strength~~No Load Rating~~" in accordance with 14.2 is not required to be subjected to the tensile pull test in accordance with 16.1. The temperature rating is based on the relative thermal index - strength (RTI) at 1.5 mm (0.984 inches) thickness.