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# **Project Initiation Notification System (PINS)**

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

## ACMA (American Composites Manufacturers Association)

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#### New Standard

BSR/ACMA P01-202X, Code of Standard Practice – Industry Guidelines for Fabrication and Installation of Pultruded FRP Structures (new standard)

Stakeholders: Composite manufacturers, suppliers to the composites (pultrusion) industry, engineers and designers, and other interested parties.

Project Need: To publish a national standard for standard practice guidelines for the pultrusion industry. The Code of Standard Practice will provide recommendations for construction contract documents as well as procedures and practices for the fabrication and installation of pultruded fiber-reinforced polymer (FRP) structures that is followed by the pultrusion industry manufacturers.

Interest Categories: Manufacturer/molder/producer, material/equipment supplier/distributor, end user (such as a specifier or engineer), and/or general interest.

The Pultrusion Industry Council (PIC) initiated the development of the Code of Standard Practice to provide recommendations for construction contract documents as well as procedures and practices for the fabrication and installation of pultruded fiber-reinforced polymer (FRP) structures that is followed by the pultrusion industry manufacturers.

## ADA (Organization) (American Dental Association)

Mary Swick <swickm@ada.org> | 211 E. Chicago Avenue | Chicago, IL 60611-2678 www.ada.org

#### Revision

BSR/ADA Standard No. 1094-202x, Dentistry — Quality Assurance for Digital Intra-Oral Radiographic Systems (revision of ANSI/ADA Standard No. 1094-2020)

Stakeholders: Consumers, Dentists, Manufacturers

Project Need: Add language similar to what is in ANSI/ADA Standard No. 1099 for Quality Assurance for Digital Panoramic/Cephalometric Radiology clause 4.1.1 on curved monitors.

Interest Categories: Consumer, General Interest, Producer

There are essentially three components involved with any digital intraoral imaging system: the image display device (computer, monitor, and display-software), the x-ray source, the digital image acquisition device (solid-state sensor or PSP imaging plate and scanner and the associated acquisition software). Each of these components will be addressed in this standard.

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#### Reaffirmation

BSR/ADA Standard No. 1097 (R202x), Dentistry — Digital Caries Risk Assessment Resources (reaffirmation of ANSI/ADA Standard No. 1097-2020)

Stakeholders: Clinicians, Researchers, Organized Dentistry, Dental Industry, and Dental Benefit Companies Project Need: ANSI/ADA Standard 1097:2020 Digital Caries Risk Assessment Resources is nearing its 5-year

anniversary. Per our procedures, standards must be reaffirmed or revised prior to that date.

Interest Categories: Consumer, General Interest, Producer

The purpose of this document is to provide requirements for the essential characteristics for digital caries risk assessment resources, including: standardized definitions; clinical input elements; assessment methods for data collection; scoring methodology considerations; and reporting formats. Uses of digital caries risk assessment resources are: To provide clinical decision support for healthcare providers; provide anticipatory guidance for caregivers and patients; and to facilitate the interchange of caries risk assessment data among stakeholders, including individual healthcare providers, healthcare organizations, academic institutions, researchers, third-party payers and public health policy makers.

### ADA (Organization) (American Dental Association)

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#### National Adoption

BSR/ADA Standard No. 1119-202x, Dentistry — Designation System for Tooth Developmental Stages (identical national adoption of ISO 5364:2024)

Stakeholders: Dental Professionals, Researchers, and Educators

Project Need: This document establishes a standardized method for designating tooth developmental stages, providing clear definitions and a uniform framework to support consistent communication among dental professionals, researchers, and educators. By aligning all researchers to the same staging criteria, the standard enables calibration across studies, ensuring that reported age intervals are directly comparable and based on consistent developmental benchmarks.

Interest Categories: Consumer, General Interest, Producer

This document specifies a method for designating the coding and nomenclature for tooth developmental stages using a single letter and number to facilitate data entry and support interoperability. The first letter represents the part of the tooth (crown, root, and apex), and the number represents the stage of development of the tooth part.

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#### Reaffirmation

BSR/ADA Standard No. 116 (R202x), Dentistry — Oral Rinses (reaffirm a national adoption ANSI/ADA Standard No. 116-2020)

Stakeholders: Consumers, Dentists, Manufacturers

Project Need: This is an identical adoption of an ISO standard that has gone through it's periodic systematic review process and been confirmed.

Interest Categories: Consumer, General Interest, Producer

This standard specifies physical and chemical requirements and test methods for oral rinses. It also specifies the accompanying information such as the manufacturer's instructions for use, marking, and/or labelling requirements. This standard is not applicable to other delivery systems (e.g., mouth sprays, foams, powders). It is not intended to describe regulatory aspects, e.g. methods of prescription. This standard is not applicable to oral rinses available by prescription only.

#### ADA (Organization) (American Dental Association)

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#### Reaffirmation

BSR/ADA Standard No. 130 (R202x), Dentistry — Dentifrices – Requirements, Test Methods and Marking (reaffirm a national adoption ANSI/ADA Standard No. 130-2020)

Stakeholders: Consumers, Manufacturers, Dentists

Project Need: This is an identical adoption of an ISO standard that has gone through it's periodic systematic review process and been confirmed.

Interest Categories: Consumer, General Interest, Producer

This document specifies requirements for the physical and chemical properties of dentifrices and provides guidelines for suitable test methods. It also specifies requirements for the marking, labelling and packaging of dentifrices. This document applies to dentifrices, including toothpastes, destined to be used by the consumers on a daily basis with a toothbrush to promote oral hygiene. Specific qualitative and quantitative requirements for freedom from biological and toxicological hazards are not included in this document. These are covered in ISO 7405 and ISO 10993-1.

#### ADA (Organization) (American Dental Association)

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#### Reaffirmation

BSR/ADA Standard No. 151 (R202x), Dentistry — Screening Method for Erosion Potential of Oral Rinses on Dental Hard Tissues (reaffirm a national adoption ANSI/ADA Standard No. 151-2015 (R2020)) Stakeholders: Consumers, Manufacturers

Project Need: This is an identical adoption of an ISO standard that has gone through it's periodic systematic review process and been confirmed.

Interest Categories: Consumer, General Interest, Producer

This standard specifies a screening method for the erosion potential of non-fluoridated oral rinses on dental hard tissues. The results of the screening method are intended for use in enamel and/or dentine erosion models.

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#### Reaffirmation

BSR/ADA Standard No. 167 (R202x), Dentistry — Test Methods for Dental Unit Waterline Biofilm Treatment (reaffirm a national adoption ANSI/ADA Standard No. 167-2020)

Stakeholders: Manufacturers, Consumers, Researchers, Dentists

Project Need: ANSI/ADA Standard No. 167:2020 Test Methods for Dental Unit Waterline Biofilm Treatment is nearing its 5 year anniversary. Per our procedures, standards must be reaffirmed or revised prior to that date.

Interest Categories: Consumer, General Interest, Producer

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

This document does not apply to devices intended to deliver sterile procedural water or sterile solution. It also does not apply to lines, tubing, or hoses that deliver compressed air within the dental unit.

This document does not establish specific upper limits for bacterial contamination or describe test methods to be used in clinical situations. It also does not establish test methods for evaluating any deleterious side effects potentially caused by treatment methods.

### ADA (Organization) (American Dental Association)

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#### Reaffirmation

BSR/ADA Standard No. 171 (R202x), Dentistry — Analysis of Fluoride Concentration in Aqueous Solutions by Use of Fluoride Ion-Selective Electrode (reaffirm a national adoption ANSI/ADA Standard No. 171-2019) Stakeholders: Consumers, Manufacturers, Dentists

Project Need: This is an identical adoption of an ISO standard that has gone through its periodic systematic review process and been confirmed.

Interest Categories: Consumer, General Interest, Producer

This document specifies test methods for the quantification of fluoride concentrations in dental products including dentifrices, gels, oral rinses, fluoride-releasing varnishes, and other fluoride-containing products. The methods are based on fluoride ion-selective electrode technology for the analysis of fluoride in aqueous samples derived from dental products.

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#### National Adoption

BSR/ADA Standard No. 206-202x, Dentistry — Implantable Materials for Bone Filling and Augmentation in Oral and Maxillofacial Surgery — Contents of a Technical File (national adoption of ISO 22794:2007 with modifications and revision of ANSI/ADA Standard No. 206-2024)

Stakeholders: Consumers, Dentists, Manufacturers

Project Need: Corrected typographical errors and addition of clarifying language

Interest Categories: Consumer, General Interest, Producer

This standard applies to implantable materials used as dental devices for filling and augmenting bones in oral and maxillofacial surgery. Products that are essentially pure (>90%) hydroxyapatite are not covered by this standard. Evaluation includes the physico-chemical, mechanical, biological, and clinical aspects and behavior of these implantable dental materials. Materials such as autografts, allografts, human-sourced bone-filling materials, barrier membranes, and products for which the intended use is to deliver a medicinal and/or biological product are not covered by this standard.

#### ADA (Organization) (American Dental Association)

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#### National Adoption

BSR/ADA Standard No. 222-202x, Dentistry — Polymer-based Die Materials (identical national adoption of ISO 14233:2003)

Stakeholders: Manufacturers, Dentists

Project Need: Establish US standard for polymer-based die materials.

Interest Categories: Consumer, General Interest, Producer

This document gives compositional, performance, user-information, packaging and marking, and testing requirements for polymer based die materials used in dentistry. It is applicable to die materials having a polymeric matrix as their principal constituent. Polymer-based die materials are used in the dental laboratory mainly to produce casts from dental impressions for the manufacture of fixed or removable restorations.

#### ADA (Organization) (American Dental Association)

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#### Reaffirmation

BSR/ADA Standard No. 43 (R202x), Dentistry — Mixing Machines for Dental Amalgam (reaffirm a national adoption ANSI/ADA Standard No. 43-2020)

Stakeholders: Manufacturers, Dentists, Researchers, Consumers

Project Need: ANSI/ADA Standard No. 43:2020 Mixing Machines for Dental Amalgam is nearing its 5-year anniversary. Per our procedures, standards must be reaffirmed or revised prior to that date.

Interest Categories: Consumer, General Interest, Producer

This document specifies requirements for electrically powered mixing machines for mixing dental amalgam alloy, and dental mercury in capsules to produce dental amalgam. This document specifies the test methods used to determine conformity with these requirements. This document refers to those machines that mix by an oscillating action and which are sold by the manufacturer for the purpose of mixing dental amalgam whether or not they are intended for mixing any other type of product. This document does not specify requirements for removable mixing-capsules, as are used in many machines to contain the material to be mixed, although considered as part of the machine when in use or under test.

#### **ANS (American Nuclear Society)**

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#### Revision

BSR/ANS 6.4-202x, Nuclear Analysis and Design of Concrete Radiation Shielding for Nuclear Power Plants (revision of ANSI/ANS 6.4-2006 (R2021))

Stakeholders: Owners and operators of nuclear power plants and suppliers of radiation shielding materials, practitioners of concrete shielding analysis and design.

Project Need: This standard provides the methods and data needed to calculate the concrete thickness required for radiation shielding in nuclear power plants.

Interest Categories: Individual; National Laboratories/Government Facilities; University; Architect-Engineer-Constructor; Government Agency; Vendor; Owner

A revision is needed to address hybrid transport methods and to add MicroShield and SCALE to the appendix listing computer codes. A revision will also address the presence of hydrogen content in serpentine ore and the minimum neutron energy to be considered for concrete degradation. Lastly, clarification will be included to provide additional considerations when concrete serves the dual role of shield and structural element.

#### ASABE (American Society of Agricultural and Biological Engineers)

Sadie Stell <stell@asabe.org> | 2590 Niles Road | Saint Joseph, MI 49085 https://www.asabe.org/

#### National Adoption

BSR/ASABE AD5674-2024 MONYEAR-202x, Tractors and machinery for agricultural and forestry — Guards for power take-off (PTO) drive shafts — Strength and wear tests and acceptance criteria (national adoption of ISO 5674:2024 with modifications and revision of ANSI/ASABE AD5674-2004 SEP2015 (R2025)) Stakeholders: Drive shaft, Implement, and Tractor manufacturers; Equipment users

Stakeholders. Drive shart, implement, and tractor manufacturers; Equipment users

Project Need: Nationally adopt the most current version of the ISO standard to ensure international harmonization. ISO 5674:2004 was adopted with deviation in Nov. 2004 prior to the publication of a corrected version from ISO 5674:2004 (July 2005). This revision will adopt the corrected version of ISO 5674:2004 and renumber it to the current ASABE format for ISO adoptions.

Interest Categories: Academia, Design, General Interest, Producer, Research, Safety

This document specifies tests for determining the strength and wear resistance of guards for power take-off (PTO) drive-shafts on tractors and machinery used in agriculture and forestry, and their acceptance criteria. It is intended to be used in combination with ISO 5673-1:2005. It is applicable to the testing of PTO drive-shaft guards and their restraining means. It is not applicable to the testing of guards designed and constructed to be used as steps. This document is not applicable to guards for power take-off drive shafts that are manufactured before the date of publication of this document.

#### ASABE (American Society of Agricultural and Biological Engineers)

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#### Revision

BSR/ASABE/ISO 500-3-202x MONYEAR, Agricultural tractors — Rear-mounted power take-off types 1, 2, 3 and 4 — Part 3: Main PTO dimensions and spline dimensions, location of PTO (revision and redesignation of ANSI/ASABE/ISO 500-3-2014 MAR2015 (R2024))

Stakeholders: Users and manufacturers of PTO shafts and mating components per this standard.

Project Need: Revise Type II male spline minor tolerance from 0/-.025 to 0/-.25 to match ISO 500-3. This discrepancy was introduced during the ASABE/ISO 500-3 initial adoption.

Interest Categories: Academia; Compliance; Design; General Interest; Producer; Safety; User

Specifies manufacturing requirements for, and the location of, rear-mounted power take-offs (PTOs) of types 1, 2, 3, and 4 on agricultural tractors.

#### ASABE (American Society of Agricultural and Biological Engineers)

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#### National Adoption

BSR/ASABE/ISO 5700-2025 MONYEAR-202x, Tractors for agriculture and forestry — Roll-over protective structures — Static test method and acceptance conditions (identical national adoption of ISO 5700:2025 and revision of ANSI/ASABE/ISO 5700--2013 SEP2017 (R2022))

Stakeholders: Agricultural tractor manufacturers, end users, OSHA.

Project Need: All the US driven corrections of the current standard ASABE/ISO 5700:2013 SEP2017 (R2022) are now included in the latest version of ISO 5700:2025. Need to adopt ISO 5700:2025 identically.

Interest Categories: Academia, Design, General Interest, Producer, Research, Safety

This International Standard specifies a static test method and the acceptance conditions for roll-over protective structures (cab or frame) of wheeled or tracked tractors for agriculture and forestry. It is applicable to tractors having at least two axles for wheels mounted with pneumatic tyres, or having tracks instead of wheels, with an unballasted tractor mass of not less than 600 kg and a minimum track width of the rear wheels greater than 1,150 mm. It is not applicable to tractors having a mass ratio (maximum permissible mass/reference mass) greater than 1.75.

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

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#### Revision

BSR/ASHRAE 139-202x, Method of Testing for Rating Desiccant Dehumidifiers Utilizing Heat for the Regeneration Process (revision of ANSI/ASHRAE Standard 139-2022)

Stakeholders: Equipment manufacturers and testing laboratories

Project Need: The project need is to update the outdated references.

Interest Categories: General, User and Manufacturer

The purpose of this standard is to provide test methods for determining the moisture removal capacity of heatregenerated desiccant dehumidifiers as well as the coincident thermal energy performance so that comparative evaluations of capacity and performance can

be made irrespective of the type or make of the device.

### ASSP (ASC A10) (American Society of Safety Professionals)

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#### Revision

BSR/ASSP A10.11-203X-202x, Safety Requirements for Personnel Nets (revision and redesignation of ANSI/ASSP A10.11-2025)

Stakeholders: Occupational Safety and Health Professionals working with construction and demolition operations and affiliated stakeholders

Project Need: Based upon the consensus of the A10 Committee and Occupational Safety and Health Professionals working in the construction and demolition industry.

Interest Categories: Occupational Safety and Health Professionals working with construction and demolition operations and affiliated stakeholders

This standard establishes safety requirements for the selection, installation, and use of personnel nets during construction, repair, and demolition operations.

### AWPA (ASC 05) (American Wood Protection Association)

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#### Revision

BSR 05.3-202X, Solid Sawn Wood Crossarms, Braces, and Ground Wire Moulding: Specifications and Dimensions (revision of ANSI 05.3-2021)

Stakeholders: Utility crossarm manufacturers and electric/telecommunications utilities.

Project Need: General technical review and update of existing American National Standards.

Interest Categories: Producers, Consumers, General Interest

This standard establishes specifications and dimensions for solid sawn wood crossarms and braces manufactured from coastal Douglas-fir grown in the West Coast region and from dense Southern pine, as well as wood ground wire moulding manufactured from Douglas-fir or red oak.

#### BHMA (Builders Hardware Manufacturers Association)

Tony Gambrall <agambrall@kellencompany.com> | 529 14th Street NW, Suite 1280 | Washington, DC 20045 www. buildershardware.com

#### Revision

BSR/BHMA A156.6-202x, Standard for Architectural Door Trim (revision of ANSI/BHMA A156.6-2021) Stakeholders: Consumers, door and hardware manufacturers, building and construction

Project Need: Update per five-year revision cycle

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

This Standard contains requirements for door protection plates, door & wall edgings, push plates, door pulls, push & pull bars, and vertical rod covers & guards. Included are strength, dimensional, and material criteria plus environmental performance.

#### **BHMA (Builders Hardware Manufacturers Association)**

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#### Revision

BSR/BHMA A156.23-202x, Standard for Electromagnetic Locks (revision of ANSI/BHMA A156.23-2021) Stakeholders: Consumers, door and hardware manufacturers, building and construction

Project Need: Update per five-year revision cycle.

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

This Standard establishes requirements for electromagnetic locks and includes cyclical, dynamic, operational, and strength tests. This product is used for access control.

#### **CTA (Consumer Technology Association)**

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#### National Adoption

BSR/CTA 6005-202x, Multimedia systems and equipment — Colour measurement and management — Part 2-4: Colour management — Extended-gamut YCC colour space for video (same as IEC 61966-2-4:2006) (identical national adoption of IEC 61966-2-4:2006, Multimedia systems and equipment - Colour measurement and management - Part 2-4: Colour management - Extended-gamut YCC colour space for video)

Stakeholders: Consumers, manufacturers, retailers

Project Need: To nationally adopt IEC 61966-2-4:2006, Multimedia systems and equipment — Colour measurement and management — Part 2-4: Colour management — Extended-gamut YCC colour space for video, which is normatively referenced in CTA-861-I Errata, A DTV Profile for Uncompressed High Speed Digital Interfaces).

Interest Categories: General interest, producer, user

IEC 61966-2-4:2006 is applicable to the encoding and communication of YCC colours used in video systems and similar applications by defining encoding transformations for use in defined reference capturing conditions. If actual conditions differ from the reference conditions, additional rendering transformations may be required. Such additional rendering ...

#### **CTA (Consumer Technology Association)**

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#### National Adoption

BSR/CTA 6006-202x, Digital Audio Interface — Part 1: General (same as IEC 60958-1:2021) (identical national adoption of IEC 60958-1:2021, Digital Audio Interface)

Stakeholders: Consumers, manufacturers, retailers

Project Need: To nationally adopt IEC 60958-1:2021, Digital Audio Interface — Part 1: General, which is informatively referenced in CTA-861-I Errata, A DTV Profile for Uncompressed High Speed Digital Interfaces.

Interest Categories: General interest, producer, user

IEC 60958-1:2021 describes a serial, uni-directional, self-clocking interface for the interconnection of digital audio equipment for consumer and professional applications. It provides the basic structure of the interface. Separate documents define items specific to particular applications.

### **CTA (Consumer Technology Association)**

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#### National Adoption

BSR/CTA 6007-202x, Multimedia systems - Guide to the Recommended Characteristics of Analogue Interfaces to Achieve Interoperability (same as IEC 61938:2018) (identical national adoption of IEC 61938:2018, Multimedia systems - Guide to the Recommended Characteristics of Analogue Interfaces to Achieve Interoperability) Stakeholders: Consumers, manufacturers, retailers

Project Need: To nationally adopt IEC 61938:2018, Multimedia systems - Guide to the Recommended Characteristics of Analogue Interfaces to Achieve Interoperability, which is informatively referenced in CTA-CEB11-D, NTSC/ATSC Loudness Matching).

Interest Categories: General interest, producer, user

IEC 61938:2018 gives guidance on current practice for the characteristics of multimedia analogue interfaces to achieve interoperability between equipment from different manufacturers. It is not a performance standard. Recommendations for interfaces for equipment used in vehicles, and for analogue video interfaces for broadcast and similar equipment, are not given.

### **CTA (Consumer Technology Association)**

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#### National Adoption

BSR/CTA 6008-202x, Portable multimedia equipment - Determination of battery duration - Part 1: Powered loudspeaker equipment (same as IEC 63296-1:2021) (identical national adoption of IEC 63296-1:2021, Portable multimedia equipment - Determination of battery duration)

Stakeholders: Consumers, manufacturers, retailers

Project Need: To nationally adopt IEC 63296-1:2021, Portable multimedia equipment - Determination of battery duration - Part 1: Powered loudspeaker equipment.

Interest Categories: General interest, producer, user

IEC 63296-1:2021 specifies the methods for measuring the battery duration at defined sound-pressure levels for continuous music playback of battery-powered loudspeaker equipment. A primary battery or secondary battery can be used as a power source for the loudspeaker and its composite equipment. In the case of composite equipment, this method for the measurement of battery duration can be applied under the condition of powered loudspeaker playback only.

### **CTA (Consumer Technology Association)**

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#### National Adoption

BSR/CTA 6009-202x, LCD multi-screen display terminals - Part 2: Measuring methods (same as IEC 63181-2:2020) (identical national adoption of IEC 63181-2:2020, LCD multi-screen display terminals - Part 2: Measuring methods) Stakeholders: Consumers, manufacturers, retailers

Project Need: To nationally adopt IEC 63181-2:2020, LCD multi-screen display terminals - Part 2: Measuring methods.

Interest Categories: General interest, producer, user

IEC 63181-2:2020 specifies measuring methods for LCD multi-screen display terminals. To evaluate the characteristics of LCD multi-screen display terminals, the following measurement items are specified:

- gap (physical, optical): detailed splicing precision;
- splicing deviation: splicing accuracy of active areas of LCD splicing screen;
- installation deviation: the flatness of terminal surfaces in vertical and horizontal directions;
- luminance uniformity: luminance uniformity of adjacent LCD units;
- chromatic uniformity: chromatic uniformity of adjacent LCD units.

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

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#### New Standard

BSR/ISA 75.26.01 (R202x), Control Valve Diagnostic Data Acquisition and Reporting (new standard) Stakeholders: All sectors of the manufacturing and processing industries

Project Need: To provide users of diagnostic products with a uniform means of acquiring and reporting data used for diagnosing valve operability. This is necessary to provide the end user with a means of easily and accurately comparing diagnostic results from acquisition devices made by various manufacturers.

Interest Categories: Architect-engineer, engineer-constructors, integrators; general; producer; and user

This document applies to all pneumatically operated, automated rotary or reciprocating, on/off, or modulating valves. It also includes automation components (i.e., positioners, transducers, and solenoids) as applicable. It provides a methodology for standardizing the acquisition and reporting of data used in assessing valve condition.

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

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#### Revision

BSR/ISEA 107-202x, High-Visibility Safety Apparel (revision of ANSI/ISEA 107-2020)

Stakeholders: High-visibility material and end-product suppliers; test labs, end-product wearers including but not limited to, those in the construction, utility, transportation and mining segments.

Project Need: To revise the current standard with updated relevant information.

Interest Categories: Users, producers, manufacturers, government, general interest

This standard specifies performance requirements for high-visibility safety apparel. For the purpose of this standard, the term "high-visibility safety apparel (HVSA)" shall be used to mean apparel PPE intended to provide conspicuity to the user in hazardous situations under any light conditions by day and under illumination by vehicle headlights in the dark or other low light conditions. Performance requirements are included for color, retroreflection, physical properties and minimum areas of background, retroreflective and combined-performance materials, as well as the recommended configuration of the materials. Test methods are provided in the standard to ensure that a minimum level of visibility is maintained when garments are subjected to ongoing care procedures. These specifications may prescribe a wide variety of occupational HVSA but shall not be applied to firefighter turnout gear.

### MSS (Manufacturers Standardization Society)

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#### Revision

BSR/MSS 135-202x, High Pressure Knife Gate Valves (revision of ANSI/MSS SP-135-2022) Stakeholders: Paper, chemical, petro-chemical, hydroelectric power, mining and mineral processing, and fossil-fuel power valve and fittings systems.

Project Need: This MSS Standard Practice, first published in 2006, is widely accepted and used in multiple valve and piping industries and is the only standard that covers the construction requirements for ASME Class rated Knife Gate Valves. As such, this Standard Practice warrants elevation to national approval status; offering a national standard for NPS 2 to NPS 48, ASME Classes 150, 300, and 600 Knife Gate Valves.

Interest Categories: Paper, chemical, petro-chemical, hydroelectric power, mining and mineral processing, and fossilfuel power valve and fittings systems.

This Standard Practice covers the construction requirements for wafer- and flange-type knife gate valves made from ASME Code materials and meeting the applicable gate valve requirements of ASME B16.34.

1.2 This Standard Practice covers flanged body designs compatible with ASME B16.5 flanges for NPS 2 (DN 50) through NPS 24 (DN 600) and ASME B16.47 Series A flanges for NPS 26 (DN 650) through NPS 48 (DN 1200).

1.3 As an alternative to Section 1.1, this Standard Practice also covers valves that do not meet the body wall thickness of ASME B16.34 but shall be qualified by a proof test. The Class 150, 300, and 600 dimensional, material, and other requirements of this Standard Practice, shall apply to these valves.

#### **RIC (Remanufacturing Industries Council)**

Michelle Hayes <mhayes@remancouncil.org> | 150 Lucius Gordon Drive, Suite 127 | West Henrietta, NY 14586 www. remancouncil.org

#### Revision

BSR/RIC001.3-202x, Specifications for the Process of Remanufacturing (revision of ANSI/RIC 001.2-2021) Stakeholders: The 12 recognized sectors of remanufacturing are: aerospace, automotive, electrical apparatus, consumer products, restaurant equipment, heavy duty & off-road equipment, information technology products, locomotives, machinery, medical devices, office furniture, and retreaded tires.

Project Need: There are many reprocessing terms that are often used interchangeably, notably reconditioning, refurbishing, and remanufacturing. This standard defines the process of remanufacturing to establish it as the most rigorous of these processes. In addition, there are 12 recognized sectors of remanufacturing. This standard ensures that all of the sectors are able to speak a common language and follow the same steps, regardless of what products they are remanufacturing.

Interest Categories: Producer, User, General Interest

Define and provide the benchmark for the process of remanufacturing; enhance the understanding and grow the credibility of the remanufacturing industry; establish specifications or elements that characterize the remanufacturing process and differentiate it from other practices; promote continual improvement in the remanufacturing industry and ensure that the products provided to customers are dependable and of a consistent high quality.

# **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: June 1, 2025**

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

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

#### Addenda

BSR/ASHRAE Addendum 62.2u-202x, Ventilation and Acceptable Indoor Air Quality in Residential Buildings (addenda to ANSI/ASHRAE Standard 62.2-2022)

This list of "other factors" in Section 2.2b that may affect occupant perception and acceptance of IAQ can be confusing to the user. This proposed addendum revises the list to broaden the language.

#### Click here to view these changes in full

Send comments (copy psa@ansi.org) to: Online Comment Database at https://www.ashrae.org/technicalresources/standards-and-guidelines/public-review-drafts

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

180 Technology Parkway, Peachtree Corners, GA 20092 | knguyen@ashrae.org, www.ashrae.org

#### Addenda

BSR/ASHRAE Addendum ac to ANSI/ASHRAE Standard 15-2024, Safety Standard for Refrigeration Systems (addenda to ANSI/ASHRAE 15-2024)

This proposed Addendum ac to ASHRAE Standard 15-2024 modifies Section 7.6.2.5(d) to resolve an internal conflict within the standard.

#### Click here to view these changes in full

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

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

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

#### Addenda

BSR/ASHRAE/ICC/IES/USGBC Addendum o to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2023, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2023)

This proposed addendum introduces a new jurisdictional option with requirements for bird-friendly glazing design in buildings. Bird collisions with buildings are the second principal cause of avian mortality in the United States, second only to cats. Primary risk areas are addressed including glazing in vertical fenestration, spandrel, skylights, glazed corners, fly-through conditions, and glazed railings up to 75 ft above grade, as well as glazing adjacent to roof areas with vegetation or water features. Different options are provided for compliant bird-friendly characteristics including glazing with a prescriptively specified pattern of visual markers, glazing compliant with the CSA A460:19 standard, or exterior attachments such as metal screens mounted over glazing. 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

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

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

#### Addenda

BSR/ASHRAE/IES Addendum bu to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2022) This independent substantive change to Addendum bu clarifies a few details in Table G3.2.3.17 for elevator consumption calculations.

#### 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

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

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

#### Addenda

BSR/ASHRAE/IES Addendum cm to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2022) This addendum modifies Table 6.8.1-7 for "adiabatic fluid coolers, integral pad type" to provide new rating conditions for entering and leaving water because the previous values were not representative of the operating conditions for a substantial number of models

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

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

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

#### Addenda

BSR/ASHRAE/IES Addendum co to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2022) This addendum revises the wattage threshold for requiring automatic daylight responsive controls in sidelighted areas.

#### 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

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

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

#### Addenda

BSR/ASHRAE/IES Addendum cp to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2022) This addendum clarifies that gross lighted floor area in a multifamily building does not include dwelling units. 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

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

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

#### Addenda

BSR/ASHRAE/IES Addendum cq to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2022) This addendum adds the Cool Roof Rating Council (CRRC) S100-2025 standard as an alternative compliance path for determining the solar reflectance and thermal emittance of walls.

#### 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

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

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

#### Addenda

BSR/ASHRAE/IES Addendum cu to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2022) This addendum provides changes to the EV readiness language to align with the NEC 2023. 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

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

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

#### Addenda

BSR/ASHRAE/IES Addendum cz to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2022) This addendum modifies appropriate parts of Sections 3 and 6 of the standard to require air-circulating fans in the U.S. to be tested and rated in accordance with 10 CFR Part 431 (Subpart J to Appendix B). Click here to view these changes in full

Send comments (copy psa@ansi.org) to: Send public review comments to https://www.ashrae.org/technicalresources/standards-and-guidelines/public-review-drafts

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

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

#### Addenda

BSR/ASHRAE/IES Addendum da to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2022) This addendum clarifies the requirements in Section 6.1 for alterations by aligning the structure of Section 6.1.4 with similar sections covering alterations in Sections 5.1.4, 7.1.4, 8.1.4, and 9.1.1.3 of the standard. 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 2-202x (i48r4), Food Equipment (revision of ANSI/NSF 2-2022)

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

#### Click here to view these changes in full

Send comments (copy psa@ansi.org) to: Allan Rose <arose@nsf.org>

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

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

#### Revision

BSR/NSF 4-202x (i39r4), Commercial Cooking, Rethermalization, and Powered Hot Food Holding and Transportation Equipment (revision of ANSI/NSF 4-2024)

Equipment covered by this standard includes, but is not limited to, ranges, ovens, fat/oil fryers, fat/oil filters, griddles, tilting griddle skillets, broilers, steam and pressure cookers, kettles, rotisseries, toasters, coffee makers and other hot-beverage makers, component water heating equipment, proofing boxes and cabinets, hot-food holding equipment, rethermalization equipment, and hot-food transport cabinets.

Click here to view these changes in full

Send comments (copy psa@ansi.org) to: Allan Rose <arose@nsf.org>

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

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

#### Revision

BSR/NSF 49-202x (i199r1), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2024)

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.

Click here to view these changes in full

Send comments (copy psa@ansi.org) to: Allan Rose <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 (i28r4), Food Equipment Materials (revision of ANSI/NSF 51-2023)

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: Allan Rose <arose@nsf.org>

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

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

#### Revision

BSR/NSF 170-202x (i36r4), Glossary of Food Equipment Terminology (revision of ANSI/NSF 170-2024) Definitions covered by this standard consist of terminology related to food equipment, including terms describing equipment, materials, design, construction, and performance testing.

Click here to view these changes in full

Send comments (copy psa@ansi.org) to: Allan Rose <arose@nsf.org>

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

100 Queen Street, Suite 1040, Ottawa, ON K1P 1J9 Canada | celine.eid@ul.org, https://ulse.org/

#### Revision

BSR/UL 651A-202x, Standard for Schedule 40 and 80 High Density Polyethylene (HDPE) Conduit (revision of ANSI/UL 651A-2024)

Clarification to Resistance to impact test Clause 7.2.2

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/ProposalAvailable

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

12 Laboratory Drive, Research Triangle Park, NC | akhira.watson@ul.org, https://ulse.org/

#### Revision

BSR/UL 943-202x, Standard for Safety for Ground-Fault Circuit-Interrupters (revision of ANSI/UL 943-2023) A proposed revision to UL 943, Standard for Ground-Fault Circuit-Interrupters, which includes the following: (1) Optional Rating: UL 943 for other than 60 Hz – High Frequency HF, (3) Remote Critical Software Update Functionality: UL 5500 and UL 60730-1/ CAN/CSA E60730-1, Annex H.11.12.4, and (5) EMC Proposal -Immunity Update.

#### Click here to view these changes in full

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

12 Laboratory Drive, Research Triangle Park, NC | akhira.watson@ul.org, https://ulse.org/

#### Revision

BSR/UL 1699-202x, Standard for Safety for Arc-Fault Circuit-Interrupters (revision of ANSI/UL 1699-2022) A proposed revision to UL 1699, Standard for Safety for Arc-Fault Circuit-Interrupters, which includes the following: (1) Expanded EMC Requirements, (2) Editorial Updates, and (3) Alternative indicator for the Dust Test – Talcum Powder.

#### Click here to view these changes in full

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

12 Laboratory Drive, RTP, NC 27709 | sean.mcalister@ul.org, https://ulse.org/

#### Revision

BSR/UL 1740-202x, Standard for Safety Robots and Robotic Equipment (revision of ANSI/UL 1740-2023) (1) Removal of word "referee"; (2) Removal of Appendix A.

#### Click here to view these changes in full

Send comments (copy psa@ansi.org) to: Follow the instructions at the following website to enter comments into the CSDS Work Area: https://csds.ul.com/ProposalAvailable

#### 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 173-202x, Standard for Education, Training, Continuing Education, and Certification of Forensic Toxicology Laboratory Personnel (new standard)

This document provides minimum requirements for educational qualifications, training, competency, experience, continuing education, and certification of laboratory personnel performing, interpreting, or overseeing forensic toxicology analyses, as well as anyone performing breath alcohol instrument calibration. This applies to the following sub-disciplines: postmortem toxicology, human performance toxicology (e.g., drug-facilitated crimes and driving-under-the-influence of alcohol or drugs), non-regulated employment drug testing, and other forensic testing (e.g., court-ordered toxicology, general forensic toxicology). The following are outside the scope of this document: laboratory personnel that exclusively perform administrative or non-technical duties; individuals working as breath alcohol instrument operators; individuals performing calibration adjustments to breath alcohol instruments, individuals who solely perform instrument maintenance activities, or individuals engaged in expert consultation outside of a forensic toxicology laboratory.

Single copy price: Free

Obtain an electronic copy from: Document will be provided electronically on AAFS Academy Standards Board website (https://www.aafs.org/academy-standards-board) free of charge. Send comments (copy psa@ansi.org) to: asb@aafs.org

#### **ACP (American Clean Power Association)**

1299 Pennsylvania Ave. NW, Suite 1300, Washington, DC 20004 | dbrown@cleanpower.org, www.cleanpower.org

#### New Standard

BSR/ACP 6000-2-202x, Solar Photovoltaic (PV) Energy Entry-Level Technician Minimum Standard (new standard) A competency standard to serve as the recommended curriculum for prospective or new solar technicians. To assist employers, workforce development and training professionals, academia, and others with the minimum educational and training-related requirements for entry level Solar Photovoltaic (PV) Energy Technicians. This standard will outline the minimum requirements for educational and training program's learning objectives, knowledge, and skills needed for an entry-level solar energy technician position. Single copy price: Free

Obtain an electronic copy from: https://cleanpower.org/standards-development/ Send comments (copy psa@ansi.org) to: standards@cleanpower.org

#### ACP (American Clean Power Association)

1299 Pennsylvania Ave. NW, Suite 1300, Washington, DC 20004 | dbrown@cleanpower.org, www.cleanpower.org

#### New Standard

BSR/ACP 7000-2-202x, Battery and Energy Storage System (BESS) Technician Entry-Level Minimum Standard (new standard)

A competency standard to serve as the recommended curriculum for prospective or new battery energy storage system (BESS) technicians. To assist employers, workforce development and training professionals, academia, and others with the minimum educational and training-related requirements for entry-level BESS technicians. This standard will outline the minimum requirements for educational and training program's learning objectives, knowledge, and skills needed for an entry-level BESS technician position.

Single copy price: Free

Obtain an electronic copy from: https://cleanpower.org/standards-development/ Send comments (copy psa@ansi.org) to: standards@cleanpower.org

#### ACP (American Clean Power Association)

1299 Pennsylvania Ave. NW, Suite 1300, Washington, DC 20004 | dbrown@cleanpower.org, www.cleanpower.org

#### New Standard

BSR/ACP OCRP-4-202x, U.S. Recommended Practices for Geotechnical and Geophysical Investigations and Design (new standard)

The recommended practices will focus on:

- Offshore wind facilities that may potentially be installed in U.S. state and federal waters in the continental United States, Hawaii, and Alaska, including inland bodies of water such as the Great Lakes;

- Fresh and salt water at any water depth;
- All wind turbine generating (WTG) substructures and foundations in contact with the sea floor;

- All offshore substations, meteorological towers and other offshore wind components in contact with the sea floor;

- Fixed bottom and floating structure associated with offshore wind components;

- All phases of project life: planning, designing, constructing, operating, decommissioning, and re-powering. Single copy price: Free

Obtain an electronic copy from: https://cleanpower.org/standards-development/

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

#### AGMA (American Gear Manufacturers Association)

1001 N. Fairfax Street, Suite 500, Alexandria, VA 22314 | olson@agma.org, www.agma.org

#### Reaffirmation

BSR/AGMA 9002-C14, Bores and Keyways for Flexible Couplings (Inch Series) (reaffirmation of ANSI/AGMA 9002-C14 (R2020))

This standard describes sizes and tolerances for straight and tapered bores and the associated keys and keyways, as furnished in flexible couplings. The data in the standard considers commercially standard coupling bores and keyways, not special coupling bores and keyways that may require special tolerances.

Single copy price: \$230.00

Obtain an electronic copy from: tech@agma.org

Send comments (copy psa@ansi.org) to: Todd Praneis, tech@agma.org

#### AGMA (American Gear Manufacturers Association)

1001 N. Fairfax Street, Suite 500, Alexandria, VA 22314 | olson@agma.org, www.agma.org

#### Reaffirmation

BSR/AGMA 9112-B15, Bores and Keyways for Flexible Couplings (Metric Series) (reaffirmation of ANSI/AGMA 9112-B15 (R2020))

This standard describes sizes and tolerances for straight and tapered bores and the associated keys and keyways, as furnished in flexible couplings. The data in the standard considers commercially standard coupling bores and keyways, not special coupling bores and keyways that may require special tolerances.

Single copy price: \$230.00

Obtain an electronic copy from: tech@agma.org

Send comments (copy psa@ansi.org) to: Todd Praneis, tech@agma.org

### AGSC (Auto Glass Safety Council)

PO Box 569, Garrisonville, VA 22463 | kbimber@glass.com, www.agsc.org

#### Revision

BSR/AGSC/NWRD/ROLAGS 002-202x, Auto Glass Safety Council/National Windshield Repair Division/Repair of Laminated Auto Glass Standard (revision of ANSI/AGSC/NWRD/ROLAGS 002-2022) A laminated automotive glass repair standard addressing procedures, education, and products. Focused on repair, not replacement. Single copy price: \$39.00 Obtain an electronic copy from: kbimber@agsc.org Send comments (copy psa@ansi.org) to: Same

### ASABE (American Society of Agricultural and Biological Engineers)

2590 Niles Road, Saint Joseph, MI 49085 | stell@asabe.org, https://www.asabe.org/

#### Reaffirmation

BSR/ASABE/ISO 14269-3-1997 SEP2006 (R202x), Tractors and self-propelled machines for agriculture and forestry - Operator enclosure environment, Part 3: Determination of effect of solar heating (reaffirm a national adoption ANSI/ASABE/ISO 14269-3-SEP2006 (R2020))

This standard specifies a test method for simulating solar heating in the laboratory and measuring the radiant heat energy from a natural or simulated source. This standard is applicable to tractors and self-propelled machines for agriculture and forestry when equipped with an operator enclosure.

Single copy price: Free

Obtain an electronic copy from: Stell@asabe.org

Send comments (copy psa@ansi.org) to: Sadie Stell <stell@asabe.org>

#### ASABE (American Society of Agricultural and Biological Engineers)

2590 Niles Road, Saint Joseph, MI 49085 | stell@asabe.org, https://www.asabe.org/

#### Reaffirmation

BSR/ASABE/ISO 3776-3-2009 OCT2015 (R202x), Tractors and machinery for agriculture - Seat belts - Part 3: Requirements for assemblies (reaffirm a national adoption ANSI/ASABE/ISO 3776-3-2009 OCT2015 (R2019)) This standard specifies the requirements for pelvic restraint (seat) belt assemblies intended to be used by the operators of agricultural tractors and self-propelled machinery.

Single copy price: Free

Obtain an electronic copy from: Stell@asabe.org

Send comments (copy psa@ansi.org) to: Sadie Stell <stell@asabe.org>

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

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

#### Addenda

BSR/ASHRAE/IES Addendum ae to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2022) This revision to proposed Addendum ae provides some necessary corrections and updates to values in Tables 6.8.1-1 and 6.8.1-2. Single copy price: \$35.00 Obtain an electronic copy from: standards.section@ashrae.org Send comments (copy psa@ansi.org) to: https://www.ashrae.org/technical-resources/standards-andguidelines/public-review-drafts

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

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

#### Addenda

BSR/ASHRAE/IES Addendum on to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2022) This addendum adds one additional energy credit for HVAC heating thermal storage systems and updates the current energy credit for HVAC cooling thermal storage based on additional studies performed by PNNL. Single copy price: \$35.00

Obtain an electronic copy from: standards.section@ashrae.org

Send comments (copy psa@ansi.org) to: https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts

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

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

#### Addenda

BSR/ASHRAE/IES Addendum cr to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2022) This addendum adds a new baseline HVAC system in Appendix G to differentiate between single zone VAV systems that use a fossil fuel boiler versus electric resistance heating. This addendum also modifies requirements for setting up HVAC zones and thermal blocks when a system uses different economizers. Single copy price: \$35.00

Obtain an electronic copy from: https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts

Send comments (copy psa@ansi.org) to: https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts

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

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

#### New Standard

BSR/ASHRAE Standard 145.4-202x, Method of Test for Assessing the Gas-Phase Performance of Air Cleaning Devices and Systems in a Duct-Chamber Apparatus (new standard)

The purpose of Standard 145.4-202x is to provide a laboratory test method for evaluating air cleaning devices for challenge gas removal in a combined duct-chamber system with continuous recirculation. Single copy price: \$35.00

Obtain an electronic copy from: http://www.ashrae.org/standards-research--technology/public-review-drafts Send comments (copy psa@ansi.org) to: https://www.ashrae.org/standards-research--technology/public-reviewdrafts

#### AWWA (American Water Works Association)

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

#### Revision

BSR/AWWA G520-202x, Wastewater Collection System Operation and Management (revision of ANSI/AWWA G520-2017)

This standard describes the critical requirements for the effective operation and management of a wastewater collection system.

Single copy price: Free

Obtain an electronic copy from: ETSsupport@awwa.org

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

#### **HSI (Healthcare Standards Institute)**

3004 Sea Pines Place, League City, TX 77573 | lwebster@ingenesis.com, www.hsi.health/

#### New Standard

BSR/HSI 2200-202x, Healthcare organization management - Telehealth Management - Requirements (new standard)

This document is designed to benefit those who implement and use telehealth for patient care. Many forms of telehealth exist, and a wide array of rules regulates its use. Telehealth rapidly advanced in the wake of the public health emergency due to the COVID-19 pandemic. The need for telehealth was already growing in underserved areas of the United States, especially in rural settings. The pandemic also added to long-standing evidence that telehealth is a readily available tool that can be leveraged to address some of the challenges within the current healthcare system. Telehealth continues to transform healthcare delivery in these key ways:

- Increasing access to care for patients unable to connect with a healthcare professional physically;

- Assisting rural hospitals and clinics by creating networks to connect primary care with specialists otherwise unavailable in underserved settings;

- Creating new workflows that integrate telehealth and traditional care options.

Telehealth quickly became an accepted norm for patients and physicians, therefore guidance on compliant use is necessary. For telehealth to be a widespread solution, clinicians and patients need resources, education, and support to implement these tools successfully in modern medical practice. By acting as a resource to guide the provision of these services, this Standard aims to improve access to care across the country. This Standard does not include every nuance of every regulation and instance related to the use of telehealth. Still, it is designed to raise awareness and consider how to implement telehealth compliantly for the patient's benefit.

Single copy price: \$175.00

Obtain an electronic copy from: info@hsi.health

Send comments (copy psa@ansi.org) to: Lee Webster, info@hsi.health

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

4755 East Philadelphia Street, Ontario, CA 91761 | standards@iapmostandards.org, https://www.iapmostandards.org

#### New Standard

BSR/IAPMO Z1065-202x, Air Gap Units for Water Conditioning Equipment Installation (new standard) This Standard covers air gap units, with one or more ports, integrated into larger housings intended for waterconditioning equipment installation and specifies requirements for materials, physical characteristics, performance testing, and markings.

Single copy price: Free

Obtain an electronic copy from: standards@iapmostandards.org

### IICRC (The Institute of Inspection, Cleaning and Restoration Certification)

4043 S Eastern Ave.,, Las Vegas, NV 89119 | mwashington@iicrcnet.org, https://www.iicrc.org

#### New Standard

BSR/IICRC S530-202x, Standard for Indoor Environmental Assessment of Suspected Mold Contaminated Structures (new standard)

This Standard establishes a proper methodology and procedure for the assessment of a structure that is known or suspected to have visible mold growth (Condition 3). This Standard represents the standard of care for all mold assessment activities, including the site assessment, the assessment report, the remediation protocol, and the Post-Remediation Verification (PRV).

Single copy price: Free Obtain an electronic copy from: https://iicrc.org/iicrcstandards/ Send comments (copy psa@ansi.org) to: Same

#### ISDI (ASC MH2) (Industrial Steel Drum Institute)

818 Providence Road, Towson, MD 21286 | reitenbach@industrialpackaging.org, www.whysteeldrums.org

#### Revision

BSR MH2-2024-202x, Materials Handling (Containers) - Steel Drums and Pails (revision of ANSI ASC MH2-2018) An engineering guide for the manufacture of steel drums and pails including specific definitions and drawings outlining material specifications, container dimensions, and the styles of container closures and their assembly. The glossary provides important references related to steel drum and pail applications and manufacture. Links are provided in specific portions of the standard when additional clarification is required.

Single copy price: \$50.00 (Member copy price); \$100.00 (Non-member copy price); Draft copy is available free of charge.

Obtain an electronic copy from: rlreitenbachconsulting@gmail.com Send comments (copy psa@ansi.org) to: Same

#### NENA (National Emergency Number Association)

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

#### Revision

BSR/NENA STA-013.3-202x, NENA Public Safety Communications & Railroad Interaction Standard Operating Procedures (revision of ANSI/NENA STA-013.2-2016)

It is of benefit to both railroad and PSAP personnel to have standardized national recommendations and procedures, ensuring a quick and accurate information exchange and coordination of response. NENA, with input from the Federal Railroad Administration, will provide updated information and guidance for operational interaction between PSAPs, railroad call centers, railroad-sworn personnel in the field, and related railroad responders.

Single copy price: Free

Obtain an electronic copy from: Download and submit comments at https://dev.nena. org/higherlogic/ws/public/document?document\_id=36514&wg\_id=9a5ad5bd-9f8c-4610-81b6-1f767ba9074b

#### **NFRC (National Fenestration Rating Council)**

6305 Ivy Lane, Suite 140, Greenbelt, MD 20770 | jpadgett@nfrc.org, www.nfrc.org

#### Revision

BSR/NFRC-202x, Procedure for Determining Fenestration Product U-factors (revision of ANSI/NFRC 100-2023 E0A3)

To specify a method of determining fenestration product Ufactor (thermal transmittance). Single copy price: Free Obtain an electronic copy from: https://nfrccommunity.org/page/DPR Send comments (copy psa@ansi.org) to: Same

#### NFRC (National Fenestration Rating Council)

6305 Ivy Lane, Suite 140, Greenbelt, MD 20770 | jpadgett@nfrc.org, www.nfrc.org

#### Revision

BSR/NFRC 200-202x E0A4, Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (revision of ANSI/NFRC 200-2023 E0A4)

To specify a method for calculating solar heat gain coefficient (SHGC) and visible transmittance (VT) at normal (perpendicular) incidence for fenestration products containing glazings or glazing with applied films, with specular optical properties calculated in accordance with ISO 15099 (except where noted) or tested in accordance with NFRC 201, NFRC 202, and NFRC 203.

Single copy price: Free

Obtain an electronic copy from: https://nfrccommunity.org/page/DPR Send comments (copy psa@ansi.org) to: Same

#### PDA (Parenteral Drug Association)

Bethesda Towers, 4350 East-West Highway, Suite 600, Bethesda, MD 20814 | roberts@pda.org, www.pda.org

#### New Standard

BSR/PDA Standard 07-202x, Analytical Procedure Transfer, Comparability and the Use of Platform Analytical Procedures for Biologics (new standard)

This standard draft provides best practices for designing scientifically rigorous and risk-based studies to support Analytical Method Transfer (AMT), Analytical Method Comparison (AMC), and Platform Analytical Procedures (PAP). The goal is to provide clear, practical, and technical guidance to ensure the successful execution of these studies, promoting efficient implementation in accordance with regulatory expectations. It is also intended to compliment principles described in the ICH Q2(R2), Q12, and/or ICH Q14 guidance documents, offering practical, technical information that aligns with industry best practices. While not representing an official regulatory position, the principles reflect a consensus-driven approach for applying risk-based approaches for AMT, AMC, and PAP studies.

Single copy price: Free

Obtain an electronic copy from: standards@pda.org

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

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

#### New Standard

BSR/TIA 758-C-202x, Customer-Owned Outside Plant Telecommunications Infrastructure Standard (new standard)

The purpose of this Standard is to enable the planning and installation of an outside plant structured cabling system infrastructure. This Standard establishes the recommendations and requirements used in the design of the telecommunication pathways and spaces, and the cabling installed between buildings or points in a customer-owned campus environment. Customer-owned campus facilities are typically termed "outside plant" (OSP). For the purpose of this Standard, they are termed "customer-owned OSP". The entire document is open for comment.

Single copy price: \$184.00

Obtain an electronic copy from: standards-process@tiaonline.org Send comments (copy psa@ansi.org) to: Same

# **Comment Deadline: July 1, 2025**

### **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

BSR/ASME B46.1-2019 (R202x), Surface Texture (Surface Roughness, Waviness, and Lay) (reaffirmation of ANSI/ASME B46.1-2019)

This Standard is concerned with the geometric irregularities of surfaces. It defines surface texture and its constituents: roughness, waviness, and lay. It also defines parameters for specifying surface texture. The terms and ratings in this Standard relate to surfaces produced by such means as abrading, casting, coating, cutting, etching, plastic deformation, sintering, wear, and erosion.

Single copy price: \$215.00

Order from: https://cstools.asme.org/csconnect/PublicReviewPage.cfm Send comments (copy psa@ansi.org) to: Shaimaa Khalifa

#### **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

BSR/ASME MFC 21.1-2015 (R202x), Measurement of Gas Flow by Means of Capillary Tube Thermal Mass Flowmeters and Mass Flow Controllers (reaffirmation of ANSI/ASME MFC 21.1-2015 (R2020))

This Standard establishes common terminology and provides guidelines for the quality, description, principle of operation, selection, operation, installation, and flow calibration of capillary tube thermal mass flowmeters and mass flow controllers for the measurement and control of the mass flow rate of gases. The content of this Standard applies to single-phase flows of pure gases and gas mixtures of known composition. Single copy price: \$45.00

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

Send comments (copy psa@ansi.org) to: Shaimaa Khalifa

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

700 K Street NW, Suite 600, Washington, DC 20001 | kquigley@itic.org, www.incits.org

#### Withdrawal

INCITS/ISO/IEC 7816-1:2011 [R2024], Identification cards - Integrated circuit cards - Part 1: Cards with contacts - Physical characteristics (withdrawal of INCITS/ISO/IEC 7816-1:2011 [R2024])

Specifies the physical characteristics of integrated circuit cards with contacts. It applies to identification cards of the ID-1 card type, which can include embossing and/or a magnetic stripe and/or tactile identifier mark as specified in ISO/IEC 7811. Test methods are specified in ISO/IEC 10373-1. Applies to cards which have a physical interface with electrical contacts. It does not, however, define the nature, number, and position of the integrated circuits in the cards.

Single copy price: \$48.60 Obtain an electronic copy from: http://webstore.ansi.org/ Order from: http://webstore.ansi.org/ Send comments (copy psa@ansi.org) to: incits@itic.org

#### **OPEI (Outdoor Power Equipment Institute)**

1605 King Street, Alexandria, VA 22314 | dmustico@opei.org, www.opei.org

#### Reaffirmation

BSR/OPEI B71.7-2018 (R202x), Powered Consumer Ram-Type Log Splitters - Safety Specifications (reaffirmation of ANSI/OPEI B71.7-2018)

The safety specifications given in this standard are for powered consumer (a) hydraulic-ram log splitters and (b) mechanical-ram log splitters. Power may be supplied by an internal-combustion engine or an electric motor. These specifications are intended to provide safety requirements and to help ensure uniform operator environments. They are intended to apply to products specifically intended as consumer products for the personal use of a consumer around the home. This standard applies to all aftermarket parts, attachments, and accessories. Any manufacturer of after-market parts, attachments, and accessories is responsible for ensuring compliance to this standard. Safety specifications in this standard apply only to a configuration of attachments/implements/accessories approved by their respective manufacturers. These specifications are not intended to apply to commercial products customarily used by hired operators or to products designed primarily for agricultural purposes such as those defined in SAE J1116 or three-point-hitch-mounted machines. Single copy price: Free Order from: Dan Mustico, OPEI; dmustico@opei.org

#### **OPEI (Outdoor Power Equipment Institute)**

1605 King Street, Alexandria, VA 22314 | dmustico@opei.org, www.opei.org

#### Reaffirmation

BSR/OPEI B71.8-2016 (R202x), Powered Walk-Behind Rotary Tillers and Hand-Supported Cultivators - Safety Specifications (reaffirmation of ANSI/OPEI B71.8-2016)

The requirements provided in this standard are for powered walk-behind rotary tillers and hand-supported cultivators. This standard is intended to provide safety and design requirements to help ensure uniform operator environments, exclusive of the power source. This standard shall apply to machines specifically marketed for consumer/personal use. This standard does not apply to commercial or agricultural machines or machines primarily for agricultural purposes such as defined in ANSI/SAE J1116 or SAE J1150. This standard does not apply to tractor-mounted or -drawn tillers or to cultivator attachments which are adaptations of, or accessories to, handheld string trimmers and brushcutters covered by the applicable ANSI/OPEI B175 standards. This standard is not intended to completely cover electrical requirements.

Single copy price: Free

Order from: Dan Mustico, OPEI; dmustico@opei.org Send comments (copy psa@ansi.org) to: Same

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

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Doreen.Stocker@ul.org, https://ulse.org/

#### National Adoption

BSR/UL 62841-2-20-202x, Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 2-20: Particular requirements for hand-held band saws (identical national adoption of IEC 62841-2-20)

Proposed adoption of IEC 62841-2-20 1st Ed as the First Edition of UL 62841-2-20, Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-20: Particular requirements for hand-held band saws.

Single copy price: Free

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

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

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

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Doreen.Stocker@ul.org, https://ulse.org/

#### National Adoption

BSR/UL 62841-2-23-202x, Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 2-23 Particular Requirements for Hand-Held Die Grinders and Small Rotary Tools (identical national adoption of IEC 62841-2-23)

Proposed adoption of IEC 62841-2-23 1st edition, as UL 62841-2-23 Ed. 1, Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-23: Particular requirements for hand-held die grinders and small rotary tools.

Single copy price: Free

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

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

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

12 Laboratory Drive, RTP, NC 27709 | sean.mcalister@ul.org, https://ulse.org/

#### New Standard

BSR/UL 2941-202X, Standard for Cybersecurity of Distributed Energy and Inverter-Based Resources (new standard)

This Standard describes the minimum basic and advanced cybersecurity requirements. This Standard does not contain the methods of validation of these requirements. This Standard is written in a way that the choice of implemented technology is the manufacturer's decision.

Single copy price: Free

Order from: https://csds.ul.com/Home/ProposalsDefault.aspx

Send comments (copy psa@ansi.org) to: Follow the instructions on the following website to enter comments into the CSDS Work Area: https://csds.ul.com/ProposalAvailable

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

100 Queen Street, Suite 1040, Ottawa, ON K1P 1J9 Canada | sabrina.khrebtov@ul.org, https://ulse.org/

#### Revision

BSR/UL 30-202X, Standard for Safety for Metallic and Nonmetallic Safety Cans for Flammable and Combustible Liquids (revision of ANSI/UL 30-2025)

(1) Type 1 Safety Can; (2) Stability Test.

Single copy price: Free

Order from: https://csds.ul.com/ProposalAvailable

Send comments (copy psa@ansi.org) to: Follow the instructions on the following website to enter comments into the CSDS Work Area: https://csds.ul.com/ProposalAvailable

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

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | johnny.hall@ul.org, https://ulse.org/

#### Revision

BSR/UL 2152-202x, Special Purpose Nonmetallic Containers and Tanks for Specific Combustible or Noncombustible Liquids (revision of ANSI/UL 2152-2021)

We are adding an allowance for non-UL 2583 listed venting, an allowance for specific fuel ratings, a stability test, adding and removing applicable references, and clarifying French language markings.

Single copy price: Free

Order from: https://csds.ul.com/ProposalAvailable

Send comments (copy psa@ansi.org) to: Follow the instructions on the following website to enter comments into the CSDS Work Area: https://csds.ul.com/ProposalAvailable

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

100 Queen Street, Suite 1040, Ottawa, ON K1P 1J9 Canada | hilal.elmisilmani@ul.org, https://ulse.org/

#### Revision

BSR/UL 9990-202x, Standard for Safety for Information and Communication Technology (ICT) Power Cables (revision of ANSI/UL 9990-2024)

This Standard covers the power handling capabilities of Information and Communication Technology (ICT) cable assemblies when used for powering or charging Audio/Video, Information, and Communication Technology Equipment applications. This does not include Power Over Ethernet cables that are permanently installed to power equipment installed on the network. The signal transmission performance of the cable assemblies is not within the scope of these requirements. The proposed revision adds alternative test methods. Single copy price: Free

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

Send comments (copy psa@ansi.org) to: Follow the instructions on the following website to enter comments into the CSDS Work Area: https://csds.ul.com/ProposalAvailable

# **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:

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

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

BSR/ASB BPR 177-202x, Canine Detection of Scent Identification Line-Ups (new standard) Send comments (copy psa@ansi.org) to: Teresa Ambrosius <tambrosius@aafs.org>

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

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

BSR/ASB STD 083-202x, Contraband Canine Detection (new standard) Send comments (copy psa@ansi.org) to: Teresa Ambrosius <tambrosius@aafs.org>

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

351 N. Williamson Boulevard, Daytona Beach, FL 32114-1112 | lawrencec@apcointl.org; standards@apcointl.org, www. apcolntl.org

BSR/APCO 1.108.2-202x, Minimum Operational Standard for the Use of TTY/TDD or Similar Device in the Emergency Communications Center (revision of ANSI/APCO 1.108.1-2018) Send comments (copy psa@ansi.org) to: Crystal Lawrence <lawrencec@apcointl.org; standards@apcointl.org>

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

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

BSR/INFOCOMM 6M-202x, Sound Pressure Level Optimization in Audiovisual Systems (new standard) Send comments (copy psa@ansi.org) to: Loanna Overcash <lovercash@avixa.org>

# **Project Withdrawn**

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

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

BSR/INFOCOMM 7M-202x, Reproduced Speech and Reproduced Music Quality (new standard) Send comments (copy psa@ansi.org) to: Loanna Overcash <lovercash@avixa.org>

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

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

BSR/INFOCOMM 9M-202x, Undesirable Sound (new standard) Send comments (copy psa@ansi.org) to: Loanna Overcash <lovercash@avixa.org>

## Withdrawal of an ANS by ANSI-Accredited Standards Developer

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

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201 | kcarlson@ahrinet.org, www.ahrinet.org

ANSI/AHRI Standard 1350 (I-P)-2014, Mechanical Performance Rating of Central Station Air-handling Unit Casings (new standard) Send comments (copy psa@ansi.org) to: Ouestions may be directed to: Kristin Carlson <kcarlson@ahrinet.org>

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201 | kcarlson@ahrinet.org, www.ahrinet.org

ANSI/AHRI Standard 1351 (SI)-2015, Mechanical Performance Rating of Central Station Air-handling Unit Casings (new standard)

Send comments (copy psa@ansi.org) to: Questions may be directed to: Kristin Carlson <kcarlson@ahrinet.org>

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201 | kcarlson@ahrinet.org, www.ahrinet.org

ANSI/AHRI Standard 1250 (I-P)-2014, Performance Rating of Walk-In Coolers and Freezers (revision of ANSI/AHRI Standard 1250-2010)

Send comments (copy psa@ansi.org) to: Questions may be directed to: Kristin Carlson <kcarlson@ahrinet.org>

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201 | kcarlson@ahrinet.org, www.ahrinet.org

ANSI/AHRI Standard 1251 (SI)-2014, Performance Rating of Walk-In Coolers and Freezers (revision of ANSI/AHRI Standard 1251-2010)

Send comments (copy psa@ansi.org) to: Questions may be directed to: Kristin Carlson <kcarlson@ahrinet.org>

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

200 Massachusetts Avenue NW, Washington, DC 20001 | watkinsp@api.org, www.api.org

ANSI/API SPEC 7-1/ISO 10424-1-2004 (R2021), Specification for Rotary Drill Stem Elements (reaffirm a national adoption ANSI/API Spec 7-1/ISO 10424-1-2004-2018)

Send comments (copy psa@ansi.org) to: Questions may be directed to: Paula Watkins <watkinsp@api.org>

# **Final Actions on American National Standards**

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

### AAMI (Association for the Advancement of Medical Instrumentation)

901 N. Glebe Road, Suite 300, Arlington, VA 22203 | tkim@aami.org, www.aami.org

ANSI/AAMI/ISO 11140-3 (R2025), Sterilization of health care products - Chemical indicators - Part 3: Class 2 indicator systems for use in the Bowie and Dick-type steam penetration test (reaffirm a national adoption ANSI/AAMI/ISO 11140-3-2012 (R2015)) Final Action Date: 4/28/2025 | *Reaffirmation* 

ANSI/AAMI/ISO 11140-1-2014 (R2025), Sterilization of health care products - Chemical indicators - Part 1: General requirements (reaffirm a national adoption ANSI/AAMI/ISO 11140-1-2014) Final Action Date: 4/28/2025 | Reaffirmation

#### AGMA (American Gear Manufacturers Association)

1001 N. Fairfax Street, Suite 500, Alexandria, VA 22314 | praneis@agma.org, www.agma.org

ANSI/AGMA 1010-F14 (R2025), Appearance of Gear Teeth - Terminology of Wear and Failure (reaffirmation of ANSI/AGMA 1010-14 (R2020)) Final Action Date: 4/23/2025 | *Reaffirmation* 

ANSI/AGMA 2004-C08 (R2025), Gear Materials, Heat Treatment and Processing Manual (reaffirmation of ANSI/AGMA 2004-C08 (R2020)) Final Action Date: 4/21/2025 | *Reaffirmation* 

#### APTech (ASC CGATS) (Association for Print Technologies)

450 Rev Kelly Smith Way, Nashville, TN 37203 | jshaffer@aptech.org, www.printtechnologies.org

ANSI CGATS/ISO 12640-2-2022 (R2025), Graphic technology - Prepress digital data exchange - Part 2: XYZ/sRGB encoded standard colour image data (XYZ/SCID) (reaffirm a national adoption ANSI CGATS/ISO 12640-2-2022) Final Action Date: 4/21/2025 | *Reaffirmation* 

ANSI CGATS/ISO 15930-3 (R2025), Graphic technology - Prepress digital data exchange - Use of PDF - Part 3: Complete exchange suitable for colour-managed workflows (PDF/X-3) (reaffirm a national adoption ANSI CGATS/ISO 15930-3 -2004/ISO 15930-3-2002 (R2022)) Final Action Date: 4/21/2025 | *Reaffirmation* 

ANSI CGATS-ISO 15930-4 (R2025), Graphic technology - Prepress digital data exchange using PDF - Part 4: Complete exchange of CMYK and spot colour printing data using PDF 1.4 (PDF/X-1a) (reaffirm a national adoption ANSI/CGATS/ISO 15930-4-2004 (R2021)) Final Action Date: 4/21/2025 | *Reaffirmation* 

ANSI/CGATS/ISO 15930-6-2004 (R2025), Graphic technology - Prepress digital data exchange using PDF - Part 6: Complete exchange of printing data suitable for colour-managed workflows using PDF 1.4 (PDF/X-3) (reaffirm a national adoption ANSI/CGATS/ISO 15930-6-2004 (R2018)) Final Action Date: 4/21/2025 | *Reaffirmation* 

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

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

ANSI/ASME BPVC Section VI-2025, Recommended Rules for the Care and Operation of Heating Boilers (revision of ANSI/ASME BPVC Section VI-2023) Final Action Date: 4/28/2025 | *Revision* 

### **CRSI (Concrete Reinforcing Steel Institute)**

933 N Plum Grove Rd, Schaumburg, IL 60173 | nwestin@crsi.org, www.crsi.org

ANSI/CRSI CG1.3-2025, Epoxy Coating Plant: Straight Bar, Custom, and Textured Lines (new standard) Final Action Date: 4/24/2025 | New Standard

### IEEE (Institute of Electrical and Electronics Engineers)

445 Hoes Lane, Piscataway, NJ 08854-4141 | s.merten@ieee.org, www.ieee.org

ANSI/IEEE 1680.2-2025, Standard for Environmental Assessment of Imaging Equipment (revision of ANSI/IEEE 1680.2 -2012) Final Action Date: 4/28/2025 | *Revision* 

#### **MSS (Manufacturers Standardization Society)**

441 North Lee Street, Alexandria, VA 22314 | Isoderberg@msshq.org, www.mss-hq.org

ANSI/MSS SP-55-2025, Quality Standard for Iron and Steel Castings for Valves, Flanges, Fittings, and Other Piping Components (new standard) Final Action Date: 4/23/2025 | *New Standard* 

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

1300 North 17th Street, Suite 900, Rosslyn, VA 22209 | Pau\_orr@nema.org, www.nema.org

ANSI C12.6-1987 (S2025), Phase-Shifting Devices Used In Metering, Marking and Arrangement of Terminals (stabilized maintenance of ANSI C12.6-1987 (R2016)) Final Action Date: 4/23/2025 | *Stabilized Maintenance* 

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

1300 North 17th Street, Suite 900, Arlington, VA 22209 | Khaled.Masri@nema.org, www.nema.org

ANSI ICEA S-110-717-2025, Standard for Optical Fiber Drop Cable (revision of ANSI ICEA S-110-717-2019) Final Action Date: 4/28/2025 | *Revision* 

#### **RESNET (Residential Energy Services Network, Inc.)**

P.O. Box 4561, Oceanside, CA 92052 | rick.dixon@resnet.us, www.resnet.us.com

ANSI/RESNET/ICC 850-2025, Standard for the Calculation and Labeling of the Water Use Performance of Dwelling and Sleeping Units Using a Water Rating Index (revision of ANSI/RESNET/ICC 850-2020) Final Action Date: 4/23/2025 | *Revision* 

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

1603 Orrington Ave, Suite 20000, Evanston, IL 60201 | Susan.P.Malohn@ul.org, https://ulse.org/

ANSI/UL 3001-2025, Standard for Safety for Distributed Energy Resource Systems (new standard) Final Action Date: 4/24/2025 | *New Standard* 

ANSI/UL 385-2020 (R2025), Standard for Play Pipes for Water Supply Testing in Fire Protection Service (reaffirmation of ANSI/UL 385-2020) Final Action Date: 4/28/2025 | *Reaffirmation* 

ANSI/UL 635-2012 (R2025), Standard for Safety for Insulating Bushings (reaffirmation of ANSI/UL 635-2012 (R2021)) Final Action Date: 4/24/2025 | *Reaffirmation* 

ANSI/UL 60335-2-52-2020 (R2025), Standard for Safety for Household and Similar Electrical Appliances - Safety - Part 2 -52: Particular Requirements for Oral Hygiene Appliances (reaffirmation of ANSI/UL 60335-2-52-2020) Final Action Date: 4/28/2025 | *Reaffirmation* 

ANSI/UL 1008S-2025, Standard for Safety for Standard for Solid-State Transfer Switches (revision of ANSI/UL 1008S -2012 (R2023)) Final Action Date: 4/22/2025 | *Revision* 

ANSI/UL 1484-2025a, Standard for Fuel Gas Alarms (revision of ANSI/UL 1484-2022a) Final Action Date: 4/28/2025 | Revision

ANSI/UL 3703-2025, Standard for Safety for Solar Trackers (revision of ANSI/UL 3703-2015a (R2020)) Final Action Date: 4/22/2025 | *Revision* 

# **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.

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

Membership in the INCITS Executive Board is open to all directly and materially interested parties in accordance with INCITS membership rules. To find out more about participating on the INCITS Executive Board, contact Jennifer Garner at jgarner@itic.org or visit http://www.incits.org/participation/membership-info for more information. Membership in all interest categories is always welcome; however, the INCITS Executive Board seeks to broaden its membership base in the following underrepresented categories:

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

## **ANSI Accredited Standards Developer**

### SCTE (Society of Cable Telecommunications Engineers)

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

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

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

More information is available at www.scte.org or by e-mail from standards@scte.org.

#### ACMA (American Composites Manufacturers Association)

200 N. 15th Street, Suite 250, Arlington, VA 22201 | shilaski@acmanet.org, www.acmanet.org

BSR/ACMA P01-202X, Code of Standard Practice - Industry Guidelines for Fabrication and Installation of Pultruded FRP Structures (new standard)

#### **ACP (American Clean Power Association)**

1299 Pennsylvania Ave. NW, Suite 1300, Washington, DC 20004 | dbrown@cleanpower.org, www.cleanpower.org BSR/ACP 6000-2-202x, Solar Photovoltaic (PV) Energy Entry-Level Technician Minimum Standard (new standard)

#### ACP (American Clean Power Association)

1299 Pennsylvania Ave. NW, Suite 1300, Washington, DC 20004 | dbrown@cleanpower.org, www.cleanpower.org BSR/ACP 7000-2-202x, Battery and Energy Storage System (BESS) Technician Entry-Level Minimum Standard (new standard)

#### **ACP (American Clean Power Association)**

1299 Pennsylvania Ave. NW, Suite 1300, Washington, DC 20004 | dbrown@cleanpower.org, www.cleanpower.org

BSR/ACP OCRP-4-202x, U.S. Recommended Practices for Geotechnical and Geophysical Investigations and Design (new standard)

#### AGMA (American Gear Manufacturers Association)

1001 N. Fairfax Street, Suite 500, Alexandria, VA 22314 | olson@agma.org, www.agma.org

BSR/AGMA 9002-C14, Bores and Keyways for Flexible Couplings (Inch Series) (reaffirmation of ANSI/AGMA 9002-C14 (R2020))

#### AGMA (American Gear Manufacturers Association)

1001 N. Fairfax Street, Suite 500, Alexandria, VA 22314 | olson@agma.org, www.agma.org

BSR/AGMA 9112-B15, Bores and Keyways for Flexible Couplings (Metric Series) (reaffirmation of ANSI/AGMA 9112-B15 (R2020))

#### AGSC (Auto Glass Safety Council)

PO Box 569, Garrisonville, VA 22463 | kbimber@glass.com, www.agsc.org

BSR/AGSC/NWRD/ROLAGS 002-202x, Auto Glass Safety Council/National Windshield Repair Division/Repair of Laminated Auto Glass Standard (revision of ANSI/AGSC/NWRD/ROLAGS 002-2022)

#### ASABE (American Society of Agricultural and Biological Engineers)

2590 Niles Road, Saint Joseph, MI 49085 | stell@asabe.org, https://www.asabe.org/

BSR/ASABE AD5674-2024 MONYEAR-202x, Tractors and machinery for agricultural and forestry - Guards for power take-off (PTO) drive shafts - Strength and wear tests and acceptance criteria (national adoption of ISO 5674:2024 with modifications and revision of ANSI/ASABE AD5674-2004 SEP2015 (R2025))
#### ASABE (American Society of Agricultural and Biological Engineers)

2590 Niles Road, Saint Joseph, MI 49085 | stell@asabe.org, https://www.asabe.org/

BSR/ASABE/ISO 14269-3-1997 SEP2006 (R202x), Tractors and self-propelled machines for agriculture and forestry - Operator enclosure environment, Part 3: Determination of effect of solar heating (reaffirm a national adoption ANSI/ASABE/ISO 14269-3-SEP2006 (R2020))

#### ASABE (American Society of Agricultural and Biological Engineers)

2590 Niles Road, Saint Joseph, MI 49085 | stell@asabe.org, https://www.asabe.org/

BSR/ASABE/ISO 3776-3-2009 OCT2015 (R202x), Tractors and machinery for agriculture - Seat belts - Part 3: Requirements for assemblies (reaffirm a national adoption ANSI/ASABE/ISO 3776-3-2009 OCT2015 (R2019))

#### ASABE (American Society of Agricultural and Biological Engineers)

2590 Niles Road, Saint Joseph, MI 49085 | stell@asabe.org, https://www.asabe.org/

BSR/ASABE/ISO 500-3-202x MONYEAR, Agricultural tractors - Rear-mounted power take-off types 1, 2, 3 and 4 - Part 3: Main PTO dimensions and spline dimensions, location of PTO (revision and redesignation of ANSI/ASABE/ISO 500-3-2014 MAR2015 (R2024))

#### ASABE (American Society of Agricultural and Biological Engineers)

2590 Niles Road, Saint Joseph, MI 49085 | stell@asabe.org, https://www.asabe.org/

BSR/ASABE/ISO 5700-2025 MONYEAR-202x, Tractors for agriculture and forestry - Roll-over protective structures -Static test method and acceptance conditions (identical national adoption of ISO 5700:2025 and revision of ANSI/ASABE/ISO 5700-2013 SEP2017 (R2022))

#### ASSP (ASC A10) (American Society of Safety Professionals)

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

BSR/ASSP A10.11-203X-202x, Safety Requirements for Personnel Nets (revision and redesignation of ANSI/ASSP A10.11-2025)

#### AWPA (ASC 05) (American Wood Protection Association)

2430 US Highway 27 STE #330-223, Clermont, FL 34714 | email@awpa.com, www.awpa.com

BSR 05.3-202X, Solid Sawn Wood Crossarms, Braces, and Ground Wire Moulding: Specifications and Dimensions (revision of ANSI 05.3-2021)

#### BHMA (Builders Hardware Manufacturers Association)

529 14th Street NW, Suite 1280, Washington, DC 20045 | agambrall@kellencompany.com, www.buildershardware.com BSR/BHMA A156.6-202x, Standard for Architectural Door Trim (revision of ANSI/BHMA A156.6-2021)

#### BHMA (Builders Hardware Manufacturers Association)

529 14th Street NW, Suite 1280, Washington, DC 20045 | agambrall@kellencompany.com, www.buildershardware.com BSR/BHMA A156.23-202x, Standard for Electromagnetic Locks (revision of ANSI/BHMA A156.23-2021)

#### **CTA (Consumer Technology Association)**

1919 S Eads St, Arlington, VA 22202 | kbelsky@cta.tech, www.cta.tech

BSR/CTA 6005-202x, Multimedia systems and equipment - Colour measurement and management - Part 2-4: Colour management - Extended-gamut YCC colour space for video (same as IEC 61966-2-4:2006) (identical national adoption of IEC 61966-2-4:2006, Multimedia systems and equipment - Colour measurement and management -Part 2-4: Colour management - Extended-gamut YCC colour space for video)

#### **CTA (Consumer Technology Association)**

1919 S Eads St, Arlington, VA 22202 | kbelsky@cta.tech, www.cta.tech

BSR/CTA 6006-202x, Digital Audio Interface - Part 1: General (same as IEC 60958-1:2021) (identical national adoption of IEC 60958-1:2021, Digital Audio Interface)

#### **CTA (Consumer Technology Association)**

1919 S Eads St, Arlington, VA 22202 | kbelsky@cta.tech, www.cta.tech

BSR/CTA 6007-202x, Multimedia systems - Guide to the Recommended Characteristics of Analogue Interfaces to Achieve Interoperability (same as IEC 61938:2018) (identical national adoption of IEC 61938:2018, Multimedia systems - Guide to the Recommended Characteristics of Analogue Interfaces to Achieve Interoperability)

#### **CTA (Consumer Technology Association)**

1919 S Eads St, Arlington, VA 22202 | kbelsky@cta.tech, www.cta.tech

BSR/CTA 6008-202x, Portable multimedia equipment - Determination of battery duration - Part 1: Powered loudspeaker equipment (same as IEC 63296-1:2021) (identical national adoption of IEC 63296-1:2021, Portable multimedia equipment - Determination of battery duration)

#### **CTA (Consumer Technology Association)**

1919 S Eads St, Arlington, VA 22202 | kbelsky@cta.tech, www.cta.tech

BSR/CTA 6009-202x, LCD multi-screen display terminals - Part 2: Measuring methods (same as IEC 63181-2:2020) (identical national adoption of IEC 63181-2:2020, LCD multi-screen display terminals - Part 2: Measuring methods)

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

3252 S. Miami Blvd, Suite 102, Durham, NC 27703 | Ifranke@isa.org, www.isa.org BSR/ISA 75.26.01 (R202x), Control Valve Diagnostic Data Acquisition and Reporting (new standard)

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

1101 Wilson Blvd, Suite 1425, Arlington, VA 22209 | ajarrell@safetyequipment.org, www.safetyequipment.org BSR/ISEA 107-202x, High-Visibility Safety Apparel (revision of ANSI/ISEA 107-2020)

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

700 K Street NW, Suite 600, Washington, DC 20001 | kquigley@itic.org, www.incits.org INCITS/ISO/IEC 7816-1:2011 [R2024], Identification cards - Integrated circuit cards - Part 1: Cards with contacts -Physical characteristics (withdrawal of INCITS/ISO/IEC 7816-1:2011 [R2024])

#### **MSS (Manufacturers Standardization Society)**

441 N. Lee Street, Alexandria, VA 22314 | standards@msshq.org, www.mss-hq.org BSR/MSS 135-202x, High Pressure Knife Gate Valves (revision of ANSI/MSS SP-135-2022)

#### NFRC (National Fenestration Rating Council)

6305 Ivy Lane, Suite 140, Greenbelt, MD 20770 | jpadgett@nfrc.org, www.nfrc.org

BSR/NFRC-202x, Procedure for Determining Fenestration Product U-factors (revision of ANSI/NFRC 100-2023 E0A3)

#### NFRC (National Fenestration Rating Council)

6305 Ivy Lane, Suite 140, Greenbelt, MD 20770 | jpadgett@nfrc.org, www.nfrc.org

BSR/NFRC 200-202x E0A4, Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (revision of ANSI/NFRC 200-2023 E0A4)

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

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | arose@nsf.org, www.nsf.org BSR/NSF 2-202x (i48r4), Food Equipment (revision of ANSI/NSF 2-2022)

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

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | arose@nsf.org, www.nsf.org BSR/NSF 4-202x (i39r4), Commercial Cooking, Rethermalization, and Powered Hot Food Holding and Transportation Equipment (revision of ANSI/NSF 4-2024)

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

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | arose@nsf.org, www.nsf.org BSR/NSF 49-202x (i199r1), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2024)

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

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | arose@nsf.org, www.nsf.org BSR/NSF 51-202x (i28r4), Food Equipment Materials (revision of ANSI/NSF 51-2023)

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

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

BSR/NSF 170-202x (i36r4), Glossary of Food Equipment Terminology (revision of ANSI/NSF 170-2024)

#### **OPEI (Outdoor Power Equipment Institute)**

1605 King Street, Alexandria, VA 22314 | dmustico@opei.org, www.opei.org

BSR/OPEI B71.7-2018 (R202x), Powered Consumer Ram-Type Log Splitters - Safety Specifications (reaffirmation of ANSI/OPEI B71.7-2018)

Interest Categories: Solicitation of new consensus body members is specific to stakeholders in the supplier, retailer, and government agency categories.

#### **OPEI (Outdoor Power Equipment Institute)**

1605 King Street, Alexandria, VA 22314 | dmustico@opei.org, www.opei.org

BSR/OPEI B71.8-2016 (R202x), Powered Walk-Behind Rotary Tillers and Hand-Supported Cultivators - Safety Specifications (reaffirmation of ANSI/OPEI B71.8-2016)

Interest Categories: Solicitation of new consensus body members is specific to stakeholders in the supplier, retailer, and government agency categories.

#### **RIC (Remanufacturing Industries Council)**

150 Lucius Gordon Drive, Suite 127, West Henrietta, NY 14586 | mhayes@remancouncil.org, www.remancouncil.org BSR/RIC001.3-202x, Specifications for the Process of Remanufacturing (revision of ANSI/RIC 001.2-2021)

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

1320 North Courthouse Road, Suite 200, Arlington, VA 22201-2598 | tjenkins@tiaonline.org, www.tiaonline.org BSR/TIA 758-C-202x, Customer-Owned Outside Plant Telecommunications Infrastructure Standard (new standard)

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

100 Queen Street, Suite 1040, Ottawa, ON K1P 1J9 Canada | hilal.elmisilmani@ul.org, https://ulse.org/

BSR/UL 9990-202x, Standard for Safety for Information and Communication Technology (ICT) Power Cables (revision of ANSI/UL 9990-2024)

Interest Categories: ULSE is currently seeking participants for TC 9990 in the following interest categories: Authorities Having Jurisdiction, Commercial/Industrial Users, Consumer, General Interest, and Government.

### **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:

https://www.ansi.org/portal/psawebforms/

• Information about standards Incorporated by Reference (IBR):

https://ibr.ansi.org/

• ANSI - Education and Training:

www.standardslearn.org

### **Accreditation Announcements (Standards Developers)**

#### **Approval of Reaccreditation – ASD**

#### **RVIA - Recreational Vehicle Industry Association**

#### Effective April 25, 2025

The reaccreditation of **RVIA - Recreational Vehicle Industry Association** has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on RVIA-sponsored American National Standards, effective **April 25, 2025**. For additional information, please contact: Tyler Reamer, Recreational Vehicle Industry Association (RVIA) | 2465 J-17 Centreville Road, #801, Herndon, VA 20171 | (574) 549-9081, treamer@rvia.org

#### **Public Review of Application for ASD Accreditation**

#### ABAA - ABAA Standards Institute, Inc.

#### Comment Deadline: 6/2/2025

The ABAA Standards Institute, Inc. has submitted an application for accreditation as a developer of American National Standards. ABAA's proposed scope of activity is:

The scope of the standards to be developed are focused on material specifications, material test methods, sub assembly test methods and system test methods along with project specifications, installation standards, application standards for the building envelope industry

As the application materials are available electronically, the public review period is 30 days. You may download a copy of ABAA's application and proposed operating procedures during the public review period by clicking here.

Please send any comments by the June 2, 2025 public review deadline to: Laverne Dalgleish, AABA Standards Institute, Inc. (ABAA) | 1600 Boston Providence Hwy, Walpole, MA 02081 | (866) 956-5888, Idalgleish@airbarrier.org (please copy jthompso@ansi.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)

PHTA (Pool and Hot Tub Alliance)

RESNET (Residential Energy Services Network, Inc.)

SAE (SAE International)

TCNA (Tile Council of North America)

TIA (Telecommunications Industry Association)

TMA (The Monitoring Association)

ULSE (UL Standards & Engagement)

To obtain additional information with regard to these standards, including contact information at the ANSI Accredited Standards Developer, please visit ANSI Online at www.ansi.org/asd, 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.

#### AAFS

American Academy of Forensic Sciences 410 North 21st Street Colorado Springs, CO 80904 www.aafs.org

Teresa Ambrosius tambrosius@aafs.org

#### AAMI

Association for the Advancement of Medical Instrumentation 901 N. Glebe Road, Suite 300 Arlington, VA 22203 www.aami.org

Thomas Kim tkim@aami.org

#### ACMA

American Composites Manufacturers Association 200 N. 15th Street, Suite 250 Arlington, VA 22201 www.acmanet.org

Susan Hilaski shilaski@acmanet.org

#### ACP

American Clean Power Association 1299 Pennsylvania Ave. NW, Suite 1300 Washington, DC 20004 www.cleanpower.org

Duane Brown dbrown@cleanpower.org

#### ADA (Organization)

American Dental Association 211 E. Chicago Avenue Chicago, IL 60611 www.ada.org

Mary Swick swickm@ada.org

#### AGMA

American Gear Manufacturers Association 1001 N. Fairfax Street, Suite 500 Alexandria, VA 22314 www.agma.org Phillip Olson olson@agma.org Todd Praneis praneis@agma.org

#### AGSC

Auto Glass Safety Council PO Box 569 Garrisonville, VA 22463 www.agsc.org

Kathy Bimber kbimber@glass.com

#### ANS

American Nuclear Society 1111 Pasquinelli Drive, Suite 350 Westmont, IL 60559 www.ans.org

Kathryn Murdoch kmurdoch@ans.org

#### APTech (ASC CGATS)

Association for Print Technologies 450 Rev Kelly Smith Way Nashville, TN 37203 www.printtechnologies.org

Julie Shaffer jshaffer@aptech.org

#### ASABE

American Society of Agricultural and Biological Engineers 2590 Niles Road Saint Joseph, MI 49085 https://www.asabe.org/

Sadie Stell stell@asabe.org

#### ASHRAE

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. 180 Technology Parkway Peachtree Corners, GA 30092 www.ashrae.org

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Kai Nguyen knguyen@ashrae.org

Mark Weber mweber@ashrae.org Thomas Loxley tloxley@ashrae.org

#### ASME

American Society of Mechanical Engineers Two Park Avenue, M/S 6-2B New York, NY 10016 www.asme.org

Terrell Henry ansibox@asme.org

#### ASSP (Safety)

American Society of Safety Professionals 520 N. Northwest Highway Park Ridge, IL 60068 www.assp.org

Tim Fisher TFisher@ASSP.org

#### AWPA (ASC 05)

American Wood Protection Association 2430 US Highway 27 STE #330-223 Clermont, FL 34714 www.awpa.com

Nicole Butler email@awpa.com

#### AWWA

American Water Works Association 6666 W. Quincy Avenue Denver, CO 80235 www.awwa.org

Madeline Rohr mrohr@awwa.org

#### BHMA

Builders Hardware Manufacturers Association 529 14th Street NW, Suite 1280 Washington, DC 20045 www.buildershardware.com

Tony Gambrall agambrall@kellencompany.com

#### CRSI

Concrete Reinforcing Steel Institute 933 N Plum Grove Rd Schaumburg, IL 60173 www.crsi.org

Nathan Westin nwestin@crsi.org

#### CTA

Consumer Technology Association 1919 S Eads St Arlington, VA 22202 www.cta.tech

Kayla Belsky kbelsky@cta.tech

#### HSI

Healthcare Standards Institute 3004 Sea Pines Place League City, TX 77573 www.hsi.health/

Lee Webster lwebster@ingenesis.com

#### IAPMO (Z)

International Association of Plumbing & Mechanical Officials 4755 East Philadelphia Street Ontario, CA 91761 https://www.iapmostandards.org

Terry Burger standards@iapmostandards.org

#### IEEE

Institute of Electrical and Electronics Engineers 445 Hoes Lane Piscataway, NJ 08854 www.ieee.org

Suzanne Merten s.merten@ieee.org

#### IICRC

The Institute of Inspection, Cleaning and Restoration Certification 4043 S Eastern Ave., Las Vegas, NV 89119 https://www.iicrc.org

Mili Washington mwashington@iicrcnet.org

#### ISA (Organization)

International Society of Automation 3252 S. Miami Blvd, Suite 102 Durham, NC 27703 www.isa.org

Lynne Franke Ifranke@isa.org

#### ISDI (ASC MH2)

Industrial Steel Drum Institute 818 Providence Road Towson, MD 21286 www.whysteeldrums.org

Ralph Reitenbach reitenbach@industrialpackaging.org

#### ISEA

International Safety Equipment Association 1101 Wilson Blvd, Suite 1425 Arlington, VA 22209 www.safetyequipment.org

Aimee Jarrell ajarrell@safetyequipment.org

#### ITI (INCITS)

InterNational Committee for Information Technology Standards 700 K Street NW, Suite 600 Washington, DC 20001 www.incits.org

Kim Quigley kquigley@itic.org

#### MSS

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Lorna Soderberg lsoderberg@msshq.org

#### MSS

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#### NEMA (ASC C12)

National Electrical Manufacturers Association 1300 North 17th Street, Suite 900 Rosslyn, VA 22209 www.nema.org Paul Orr

Pau\_orr@nema.org

#### NEMA (ASC C8)

National Electrical Manufacturers Association 1300 North 17th Street, Suite 900 Arlington, VA 22209 www.nema.org

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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 the USNC/IEC team at ANSI's New York offices (usnc@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**

#### Additive manufacturing (TC 261)

ISO/ASTM DIS 52946, Additive manufacturing of metals - Powder bed fusion - Material properties of stainless steel alloys -7/12/2025, \$67.00

#### Agricultural food products (TC 34)

- ISO/DIS 11133, Microbiology of the food chain, animal feed and water - Preparation, production, storage and performance testing of culture media and reagents - 7/17/2025, \$165.00
- ISO/DIS 20680, White tea Definition and basic requirements  $7/13/2025,\,\$53.00$
- ISO/DIS 5565-1, Vanilla [Vanilla fragrans (Salisbury) Ames, syn. Vanilla planifolia Andrews and Vanilla x tahitensis JW Moore] -Part 1: Specification - 7/11/2025, \$40.00

#### Air quality (TC 146)

ISO/DIS 16000-3, Indoor air - Part 3: Determination of formaldehyde and other carbonyl compounds in indoor air and test chamber air - Active sampling method - 7/13/2025, \$98.00

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

- ISO/DIS 15858.2, UV-C Devices Safety information Permissible human exposure 5/3/2025, \$67.00
- ISO/DIS 10121-2, Test methods for assessing the performance of gas-phase air cleaning media and devices for general ventilation Part 2: Gas-phase air cleaning devices (GPACD) 7/11/2025, \$107.00

#### Equipment for fire protection and fire fighting (TC 21)

- ISO 21805:2023/DAmd 1, Amendment 1: Guidance and recommendations on design, selection and installation of vents to safeguard the structural integrity of enclosures protected by gaseous fire-extinguishing systems - Amendment 1 -7/12/2025, \$29.00
- ISO/DIS 15779.2, Condensed aerosol fire extinguishing systems -Requirements and test methods for components and system design, installation and maintenance - General requirements -5/4/2025, \$146.00

#### Fasteners (TC 2)

ISO/DIS 16224, Fasteners - Calculation methods for bolt/nut assemblies - Nut design - 6/30/2025, \$93.00

#### Fluid power systems (TC 131)

ISO/DIS 20145, Pneumatic fluid power - Test methods for measuring acoustic emission pressure levels of exhaust silencers - 7/12/2025, \$102.00

#### Mining (TC 82)

ISO/DIS 20305, Mine closure and reclamation - Vocabulary - 7/13/2025, \$77.00

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

ISO/DIS 11990, Lasers and laser-related equipment -Determination of laser resistance of tracheal tube shaft and tracheal tube cuffs - 7/17/2025, \$82.00

#### Paints and varnishes (TC 35)

ISO/DIS 21025, Paints and varnishes - Assessment of formaldehyde purification effect of interior wall coatings by bag method - 7/11/2025, \$53.00

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

#### Prosthetics and orthotics (TC 168)

ISO/DIS 10328, Prosthetics - Structural testing of lower-limb prostheses - Requirements and test methods - 7/11/2025, \$175.00

#### **Refrigeration (TC 86)**

ISO/DIS 19424, Refrigerated food lockers - Thermal and energy performance, ratings, environmental test conditions and associated testing methods - 7/12/2025, \$112.00

#### Soil quality (TC 190)

ISO/DIS 23611-1, Soil quality - Sampling of soil invertebrates -Part 1: Hand-sorting and extraction of earthworms -7/14/2025, \$62.00

#### Solid biofuels (TC 238)

ISO/DIS 16994, Solid biofuels and pyrogenic biocarbon -Determination of sulfur and chlorine content - 7/13/2025, \$53.00

#### (TC 322)

ISO/DIS 32212, Sustainable finance - Net zero transition planning for financial institutions - 7/14/2025, \$107.00

#### Thermal insulation (TC 163)

ISO/DIS 20812.2, Thermal insulation products for buildings -Cellular glass products - Specification - 5/3/2025, \$53.00

#### Traditional Chinese medicine (TC 249)

ISO/DIS 19661, Traditional Chinese Medicine - Anemarrhena asphodeloides rhizome - 7/13/2025, \$53.00

ISO/DIS 21315, Traditional Chinese medicine - Ganoderma lucidum fruiting body - 7/11/2025, \$62.00

ISO/DIS 24900, Traditional Chinese medicine - Sophora tonkinensis root and rhizome - 7/12/2025, \$62.00

ISO/DIS 24902, Traditional Chinese medicine - Zanthoxylum nitidum root - 7/13/2025, \$62.00

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

ISO/DIS 12768-1, Intelligent transport systems - Automated Valet Driving Systems (AVDS) - Part 1: Requirements, System Framework, Communication Interfaces and Test Procedures -7/17/2025, \$155.00

#### Water quality (TC 147)

ISO/DIS 18191, Water quality - Determination of pHT in sea water - Method using the indicator dye m-cresol purple - 7/11/2025, \$62.00

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

- ISO/IEC 39794-2:2023/DAmd 1, Amendment 1: Information technology - Extensible biometric data interchange formats -Part 2: Finger minutiae data - Amendment 1: Handling of the on-card biometric comparison format - 7/14/2025, \$33.00
- ISO/IEC DIS 24956, Information technology 3D printing and scanning - Phantom-based evaluation methods for 3D printing modeling software - 7/14/2025, \$88.00
- ISO/IEC DIS 25098, Information technology 3D printing and scanning - Overview and vocabulary on 3D scanning -7/13/2025, \$77.00

### **IEC Standards**

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

46/1051/DTR, IEC TR 62839-1 ED2: Environmental declaration -Part 1: Communication wires and cables - Product specific rules, 06/20/2025

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

- 3/1708/CDV, IEC 81346-14 ED1: Industrial systems, installations and equipment and industrial products -Structuring principles and reference designation - Part 14: Manufacturing and processing systems, 07/18/2025
- 3D/438/NP, PNW 3D-438 ED1: Digitalization of Carbon Footprint of Products (CFP) - Part 1: Exchange data model for carbon footprint of products, 05/23/2025

#### Electric cables (TC 20)

- 20/2242/CD, IEC 61138 ED4: Cables for portable earthing and short-circuiting equipment, 08/15/2025
- 20/2243/NP, PNW 20-2243 ED1: FLAT AND ROUND FLEXIBLE CABLES OF RATED VOLTAGE UP TO AND INCLUDING 450/750V, 07/18/2025

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

69/1053/CD, IEC TS 62840-3 ED1: ELECTRIC VEHICLE BATTERY SWAP SYSTEM - Part 3: Specific requirements for battery swap system operating with handheld swappable battery systems, 06/20/2025

#### Electric traction equipment (TC 9)

9/3212(F)/FDIS, IEC 63341-1 ED1: Railway applications -Hydrogen and fuel cell systems for rolling stock - Part 1: Fuel cell power system, 05/23/2025

- 9/3220/FDIS, IEC 63341-2 ED1: Railway applications Hydrogen and fuel cell systems for rolling stock - Part 2: Hydrogen fuel system, 06/06/2025
- 9/3211(F)/FDIS, IEC 63536 ED1: Railway applications -Signalling and control systems for non UGTMS urban rail systems, 05/16/2025

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

64/2755/CDV, IEC 60364-8-82/AMD1 ED1: Amendment 1 - Lowvoltage electrical installations - Part 8-82: Functional aspects -Prosumer's low-voltage electrical installations, 07/18/2025

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

- 18/1961/CDV, IEC 61892-1 ED5: Mobile and fixed offshore units
  Electrical installations Part 1: General requirements and conditions, 07/18/2025
- 18/1962/CDV, IEC 61892-2 ED4: Mobile and fixed offshore units - Electrical installations - Part 2: System design, 07/18/2025
- 18/1963/CDV, IEC 61892-3 ED5: Mobile and fixed offshore units - Electrical installations - Part 3: Equipment, 07/18/2025
- 18/1964/CDV, IEC 61892-4 ED3: Mobile and fixed offshore units - Electrical installations - Part 4: Cables, 07/18/2025
- 18/1965/CDV, IEC 61892-5 ED5: Mobile and fixed offshore units - Electrical installations - Part 5: Mobile units, 07/18/2025
- 18/1966/CDV, IEC 61892-6 ED5: Mobile and fixed offshore units - Electrical installations - Part 6: Installation, 07/18/2025

## Environmental conditions, classification and methods of test (TC 104)

104/1111/FDIS, IEC 60068-2-30 ED4: Environmental testing -Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle), 06/06/2025

#### Fibre optics (TC 86)

- 86A/2574/CD, IEC 60793-1-47 ED5: Optical fibres Part 1-47: Measurement methods and test procedures - Macrobending loss, 06/20/2025
- 86A/2573/FDIS, IEC 60794-1-119 ED1: Optical fibre cables -Part 1-119: Generic specification - Basic optical cable test procedures - Mechanical tests methods - Aeolian Vibration, Method E19, 06/06/2025
- 86A/2554/CDV, IEC 60794-1-210 ED1: Optical fibre cables Part 1-210: Generic specification - Basic optical cable test procedures - Environmental test methods - Underwater cable resistance to hydrostatic pressure, Method F10, 07/18/2025
- 86B/5058/CD, IEC 60876-1 ED6: Fibre optic interconnecting devices and passive components - Fibre optic spatial switches -Part 1: Generic specification, 06/20/2025

- 86B/5059/CD, IEC 61202-1 ED5: Fibre optic interconnecting devices and passive components Fibre optic isolators Part 1: Generic specification, 06/20/2025
- 86B/5026/CDV, IEC 61300-1/AMD2 ED5: Amendment 2 Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 1: General and guidance, 07/18/2025
- 86B/5060/CD, IEC 61300-2-44 ED5: Fibre optic interconnecting devices and passive components Basic test and measurement procedures Part 2-44: Tests Flexing of the strain relief of fibre optic devices and components, 06/20/2025
- 86B/5054/NP, PNW 86B-5054 ED1: Fibre optic interconnecting devices and passive components - Performance standard - Part 088-03: Non-connectorized single-mode fibre optic O-band DWDM devices with channel spacing of 800 GHz for category OP - Outdoor protected environment, 07/18/2025
- 86B/5055/NP, PNW 86B-5055 ED1: Fibre optic interconnecting devices and passive components - Performance standard - Part 088-06: Non-connectorized single-mode fibre optic O-band DWDM devices with channel spacing of 800 GHz for category OP+ - Extended outdoor protected environment, 07/18/2025

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

10/1261(F)/CDV, IEC 63585 ED1: Interpretation of Dissolved Gas Analysis in natural and synthetic esters, 07/11/2025

#### Fuel Cell Technologies (TC 105)

105/1120/DTS, IEC TS 62282-7-1 ED3: Fuel cell technologies -Part 7-1: Test methods - Single cell performance tests for polymer electrolyte fuel cells (PEFC), 06/20/2025

#### Hydraulic turbines (TC 4)

4/522(F)/CDV, IEC 63230 ED1: Fatigue assessment of hydraulic turbine runners: from design to quality assurance, 06/13/2025

#### Laser equipment (TC 76)

76/771/NP, PNW TS 76-771 ED1: Safety of laser products - Part 22: Laser lamp products, 06/20/2025

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

113/903/CD, IEC TS 62607-6-38 ED1: Nanomanufacturing - Key control characteristics - Part 6-38: Graphen- related products - Schottky barrier heights of 2D material-based field-effect transistors, 06/20/2025

#### Nuclear instrumentation (TC 45)

45/1005/CD, IEC 63048-2 ED1: Mobile remotely controlled systems for nuclear and radiological applications - Particular requirements for aerial surveillance, 06/20/2025

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

- 59A/273(F)/FDIS, IEC 60436 ED5: Electric dishwashers for household use - Methods for measuring the performance, 05/16/2025
- 59N/69/CDV, IEC 63086-2-2 ED1: Household and similar electrical air cleaning appliances - Method for measuring performance - Part 2-2: Particular requirements for determination of gas-phase pollutant reduction, 07/18/2025

#### **Printed Electronics (TC 119)**

119/545/NP, PNW 119-545 ED1: Measurement of the shear contact strength and resistance changes of conductive layer under thermal conditions, 07/18/2025

#### Rotating machinery (TC 2)

2/2235(F)/FDIS, IEC 60034-30-1 ED2: Rotating electrical machines - Part 30-1: Efficiency classes of line operated AC motors (IE code), 05/09/2025

#### Safety of hand-held motor-operated electric tools (TC 116)

116/898/FDIS, IEC 62841-4-3/AMD1 ED1: Amendment 1 -Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-3: Particular requirements for pedestrian controlled walk-behind lawnmowers, 06/06/2025

#### Secondary cells and batteries (TC 21)

- 21/1254/CD, IEC 62932-2-2 ED2: Flow battery energy systems for stationary applications - Part 2-2: Safety requirements, 06/20/2025
- 21A/933/CD, IEC 63056 ED2: Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries for use in electrical energy storage systems, 06/20/2025

#### Semiconductor devices (TC 47)

47A/1181A/NP, PNW 47A-1181 ED1: Integrated Circuits -Electronic fuses for low voltage automotive power distribution networks, 05/09/2025

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

- 82/2412/CD, IEC 63409-6 ED1: Photovoltaic power generating systems connection with grid - Conformity assessment for power conversion equipment - Part 6: Power control functions and grid support, 06/20/2025
- 82/2413/CD, IEC TS 63564 ED1: Electrical safety of Snow melting photovoltaic (Snow PV) module - Requirements for construction and testing, 06/20/2025
- 82/2414/NP, PNW 82-2414 ED1: Carbon Footprint Product Category Rules for Photovoltaic Products - Part 1: Photovoltaic (PV) Modules, 06/20/2025

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

121A/682/CD, IEC 60947-7-2 ED4: Low-voltage switchgear and controlgear - Part 7-2: Ancillary equipment - Protective conductor terminal blocks for copper conductors, 07/18/2025

#### (TC 127)

127/71/DTS, IEC TS 63346-2-2 ED1: Low-voltage auxiliary power systems - Part 2-2: Design criteria - Low-voltage DC auxiliary power systems for substations, 06/20/2025

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

#### (TC )

- JTC1-SC25/3319/CD, ISO/IEC 15045-5-1 ED1: Information Technology - Home Electronic System (HES) gateway -Application services - Part 5-1: Overview, foundation, and requirements, 06/20/2025
- JTC1-SC25/3320/CD, ISO/IEC 15045-5-2 ED1: Information Technology - Home Electronic System (HES) gateway -Application services - Part 5-2: Energy management and measurement application (EMMA), 06/20/2025

# **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**

#### Aircraft and space vehicles (TC 20)

- ISO 15964:2025, Detection and avoidance systems for uncrewed aircraft systems, \$127.00
- ISO 17666:2025, Space systems Programme management -Risk management, \$172.00

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

ISO 29461-4:2025, Air intake filter systems for rotary machinery -Part 4: Test methods for static filter systems in coastal and offshore environments, \$201.00

#### Essential oils (TC 54)

ISO 24608:2025, Essential oil of lavandin super [Lavandula x intermedia Emeric ex Loisel. 'super' (Ex Lavandula angustifolia Mill. x Lavandula latifolia Medik. 'super')], \$84.00

#### Gears (TC 60)

IEC 61400-4:2025, \$500.00

#### Nuclear energy (TC 85)

ISO 18510-1:2025, Measurement of radioactivity in the environment - Bioindicators - Part 1: General guidance to the sampling, conditioning and pre-treatment, \$127.00

#### Personal safety - Protective clothing and equipment (TC 94)

- ISO 11999-3:2025, PPE for firefighters Test methods and requirements for PPE used by firefighters who are at risk of exposure to high levels of heat and/or flame while fighting fires occurring in structures - Part 3: Clothing, \$172.00
- ISO 11999-9:2025, PPE for firefighters Test methods and requirements for PPE used by firefighters who are at risk of exposure to high levels of heat and/or flame while fighting fires occurring in structures - Part 9: Fire hoods, \$127.00

#### Plastics (TC 61)

- ISO 3451-5:2025, Plastics Determination of ash Part 5: Poly (vinyl chloride), \$84.00
- ISO 6721-10:2025, Plastics Determination of dynamic mechanical properties - Part 10: Complex shear viscosity using a parallel-plate and a cone-and-plate oscillatory rheometer, \$172.00

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

- ISO 3135:2025, Marking pens Durability of written line Documentary use (DOC), \$56.00
- ISO 14617-2:2025, Graphical symbols for diagrams Part 2: Graphical symbols, \$287.00

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

ISO 7176-21:2025, Wheelchairs - Part 21: Requirements and test methods for electromagnetic compatibility of electrically powered wheelchairs and scooters, and battery chargers, \$172.00

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

ISO 15638-23:2025, Intelligent transport systems - Framework for collaborative telematics applications for regulated commercial freight vehicles (TARV) - Part 23: Tyre pressure monitoring (TPM), \$259.00

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

ISO 5175-3:2025, Gas welding equipment - Safety devices - Part 3: Decomposition blockers for low-pressure acetylene, \$56.00

#### **ISO Technical Specifications**

#### Road vehicles (TC 22)

 ISO/TS 23520:2025, Road vehicles - EQuipment eXchange (EQX)
 Data format specification for operational information relevant for equipment exchange and test conduction, \$84.00

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

- ISO/IEC 18670:2025, Information technology SoftWare Hash IDentifier (SWHID) Specification V1.2, \$127.00
- ISO/IEC 25390:2025, Information technology Financial information exchange - Simple binary encoding, \$259.00

#### ISO/IEC 11770-3:2021/Amd 1:2025, - Amendment 1: Information security - Key management - Part 3: Mechanisms using asymmetric techniques - Amendment 1: TFNS identitybased key agreement, \$23.00

ISO/IEC 21122-4:2025, Information technology - JPEG XS lowlatency lightweight image coding system - Part 4: Conformance testing, \$172.00

### **IEC Standards**

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

- IEC 63522-16 Ed. 1.0 b:2025, Electrical relays Tests and measurements - Part 16: Soldering, \$103.00
- IEC 63522-20 Ed. 1.0 b:2025, Electrical relays Tests and measurements - Part 20: Mechanical endurance, \$26.00
- IEC 63522-22 Ed. 1.0 b:2025, Electrical relays Tests and measurements - Part 22: Limiting continuous current, \$26.00
- IEC 63522-24 Ed. 1.0 b:2025, Electrical relays Tests and measurements - Part 24: Load transfer, \$26.00
- IEC 63522-27 Ed. 1.0 b:2025, Electrical relays Testing and measurement Part 27: Electrical contact noise, \$26.00
- IEC 63522-28 Ed. 1.0 b:2025, Electrical relays Tests and measurement - Part 28: Thermoelectric electromotive force (e. m.f.), \$26.00
- IEC 63522-37 Ed. 1.0 b:2025, Electrical relays Tests and measurements - Part 37: Terminal temperature rise at rated load, \$52.00
- IEC 63522-38 Ed. 1.0 b:2025, Electrical relays Testing and measurement Part 38: Mechanical interlock, \$26.00
- IEC 63522-44 Ed. 1.0 b:2025, Electrical relays Tests and measurements - Part 44: Corrosive atmosphere due to salt mist, \$52.00
- IEC 63522-48 Ed. 1.0 b Cor.1:2025, Corrigendum 1 Electrical relays Tests and measurements Part 48: Contact failure rate test, \$0.00
- IEC 63522-49 Ed. 1.0 b:2025, Electrical relays Tests and measurements - Part 49: Long term stability of sealing, \$52.00
- IEC 63522-56 Ed. 1.0 b:2025, Electrical relays Tests and measurements - Part 56: Ball Pressure test, \$52.00

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

IEC 60092-376 Ed. 4.0 en:2025, Electrical installations in ships -Part 376: Cables for control and instrumentation circuits 150/250 V (300 V), \$200.00

S+ IEC 60092-376 Ed. 4.0 en:2025 (Redline version), Electrical installations in ships - Part 376: Cables for control and instrumentation circuits 150/250 V (300 V), \$340.00

#### Fibre optics (TC 86)

IEC 60794-1-208 Ed. 1.0 b:2025, Optical fibre cables - Part 1 -208: Generic specification - Basic optical cable test procedures - Environmental test methods - Pneumatic resistance, Method F8, \$26.00 IEC 60794-1-216 Ed. 1.0 b:2025, Optical fibre cables - Part 1 -216: Generic specification - Basic optical cable test procedures - Environmental test methods - Compound flow (drip), Method F16, \$52.00

#### **Printed Electronics (TC 119)**

IEC 62899-202-11 Ed. 1.0 en:2025, Printed electronics - Part 202-11: Materials - Conductive ink - Measurement method of electrical resistance uniformity for large area printed conductive layer, \$103.00

#### Semiconductor devices (TC 47)

IEC 62047-46 Ed. 1.0 en:2025, Semiconductor devices - Microelectromechanical devices - Part 46: Silicon based MEMS fabrication technology - Measurement method of tensile strength of nanoscale thickness membrane, \$103.00

#### Switchgear and controlgear (TC 17)

IEC 62271-214 Ed. 2.0 b Cor.1:2025, Corrigendum 1 - Highvoltage switchgear and controlgear - Part 214: Internal arc classification for AC metal-enclosed pole-mounted switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV, \$0.00

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

- IEC 60947-3 Amd.1 Ed. 4.0 b:2025, Amendment 1 Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units, \$258.00
- IEC 60947-3 Ed. 4.1 en:2025, Low-voltage switchgear and controlgear Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units, \$1327.00

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

IEC 61400-12-3 Ed. 1.0 b Cor.1:2025, Corrigendum 1 - Wind energy generation systems - Part 12-3: Power performance -Measurement based site calibration, \$0.00

### **International Organization for Standardization (ISO)**

#### **Call for International (ISO) Secretariat**

#### ISO/TC 8/SC 25 – Maritime GHG reduction

#### Reply Deadline: May 2, 2025

Currently, the U.S. holds a leadership position as Secretariat of ISO/TC 8/SC 25 – *Maritime GHG reduction*. ANSI has delegated the responsibility for the administration of the Secretariat for ISO/TC 8/SC 25 to the U.S. Coast Guard (USCG). The USCG has advised ANSI of its intent to relinquish its role as delegated Secretariat for this committee.

ISO/TC 8/SC 25 operates under the following scope:

Standardization of ship GHG assessment and documentation procedures; bunkering and/or charging operations associated, and on-dock power generation.

ANSI is seeking organizations in the U.S. that may be interested in assuming the role of delegated Secretariat for ISO/TC 8/SC 25. Alternatively, ANSI may be assigned the responsibility for administering an ISO Secretariat. Any request that ANSI accept the direct administration of an ISO Secretariat shall demonstrate that:

1. The affected interests have made a financial commitment for not less than three years covering all defined costs incurred by ANSI associated with holding the Secretariat;

2. the affected technical sector, organizations or companies desiring that the U.S. hold the Secretariat request that ANSI perform this function;

- 3. the relevant U.S. TAG has been consulted with regard to ANSI's potential role as Secretariat; and
- 4. ANSI is able to fulfill the requirements of a Secretariat.

If no U.S. organization steps forward to assume the ISO/TC 8/SC 25 Secretariat, or if there is insufficient support for ANSI to assume direct administration of this activity **by Friday, May 2, 2025**, then ANSI will inform the ISO Central Secretariat that the U.S. will relinquish its leadership of the committee. This will allow ISO to solicit offers from other countries interested in assuming the Secretariat role.

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

### **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, trade associations, U.S domiciled standards development organizations and conformity assessment bodies, consumers, or U.S. government agencies may be interested in proposed foreign technical regulations notified by Member countries of the World Trade Organization (WTO). In accordance with the WTO Agreement on Technical Barriers to Trade (TBT Agreement), Members are required to notify to the WTO Secretariat in Geneva, Switzerland proposed technical regulations that may significantly affect trade. In turn, the Secretariat circulates the notifications along with the full texts. The purpose of the notification requirement is to provide global trading partners with an opportunity to review and comment on the regulations before they become final. The USA Enquiry Point for the WTO TBT Agreement is located at the National Institute of Standards and Technology (NIST) in the Standards Coordination Office (SCO). The Enquiry Point relies on the WTO's ePing SPS&TBT platform to distribute the notified proposed foreign technical regulations (notifications) and their full texts available to U.S. stakeholders. Interested U.S. parties can register with ePing to receive e-mail alerts when notifications are added from countries and industry sectors of interest to them. The USA WTO TBT Enquiry Point is the official channel for distributing U.S. comments to the network of WTO TBT Enquiry Points around the world. U.S. business contacts interested in commenting on the notifications are asked to review the comment guidance prior to submitting comments. For nonnotified foreign technical barriers to trade for non-agricultural products, stakeholders are encouraged to reach out as early as possible to the Office of Trade Agreements Negotiations and Compliance (TANC) in the International Trade Administration (ITA) at the Department of Commerce (DOC), which specializes in working with U.S. stakeholders to remove unfair foreign government-imposed trade barriers. The U.S. Department of Agriculture's Foreign Agricultural Service actively represents the interests of U.S. agriculture in the WTO committees on Agriculture, Sanitary and Phytosanitary (SPS) measures and Technical Barriers to Trade (TBT). FAS alerts exporters to expected changes in foreign regulations concerning food and beverage and nutrition labeling requirements, food packaging requirements, and various other agriculture and food related trade matters. Working with other Federal agencies and the private sector, FAS coordinates the development and finalization of comments on measures proposed by foreign governments to influence their development and minimize the impact on U.S. agriculture exports. FAS also contributes to the negotiation and enforcement of free trade agreements and provides information about tracking regulatory changes by WTO Members. The Office of the United States Trade Representative (USTR) WTO & Multilateral Affairs (WAMA) office has responsibility for trade discussions and negotiations, as well as policy coordination, on issues related technical barriers to trade and standards-related activities.

#### **Online Resources:**

WTO's ePing SPS&TBT platform: <a href="https://epingalert.org/">https://epingalert.org/</a>

Register for ePing: https://epingalert.org/en/Account/Registration

WTO committee on Agriculture, Sanitary and Phytosanitary (SPS) measures:

https://www.wto.org/english/tratop\_e/sps\_e/sps\_e.htm

WTO Committee on Technical Barriers to Trade (TBT): <u>https://www.wto.org/english/tratop\_e/tbt\_e/tbt\_e.htm</u> USA TBT Enquiry Point: <u>https://www.nist.gov/standardsgov/usa-wto-tbt-enquiry-point</u> Comment guidance:

https://www.nist.gov/standardsgov/guidance-us-stakeholders-commenting-notifications-made-wto-members-tbt-committee NIST: https://www.nist.gov/

TANC: https://www.trade.gov/office-trade-agreements-negotiation-and-compliance-tanc

Examples of TBTs: https://tcc.export.gov/report a barrier/trade barrier examples/index.asp.

Report Trade Barriers: <u>https://tcc.export.gov/Report\_a\_Barrier/index.asp</u>.

USDA FAS: https://www.fas.usda.gov/about-fas

FAS contribution to free trade agreements: <u>https://www.fas.usda.gov/topics/trade-policy/trade-agreements</u> Tracking regulatory changes: <u>https://www.fas.usda.gov/tracking-regulatory-changes-wto-members</u>

USTR WAMA: https://ustr.gov/trade-agreements/wto-multilateral-affairs/wto-issues/technical-barriers-trade

Contact the USA TBT Enquiry Point at (301) 975-2918; E <u>usatbtep@nist.gov</u> or <u>notifyus@nist.gov</u>.



# BSR/ASHRAE Addendum u to ANSI/ASHRAE Standard 62.2-2022

## **Public Review Draft**

# Proposed Addendum u to Standard 62.2-2022, Ventilation and Acceptable Indoor Air Quality in Residential Buildings

**First** Public Review (February 2025) (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 <u>www.ashrae.org/standards-research--technology/public-review-drafts</u> 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 <u>www.ashrae.org/bookstore</u> or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

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

BSR/ASHRAE Addendum u to ANSI/ASHRAE Standard 62.2-2022, Ventilation and Acceptable Indoor Air Quality in Residential Buildings First Public Review Draft

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

#### FOREWORD

This list of "other factors" in Section 2.2b that may affect occupant perception and acceptance of IAQ can be confusing to the user. This proposed addendum revises the list to broaden the language.

[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by <u>underlining</u> (for additions) and <del>strikethrough</del> (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 u to 62.2-2022

#### Revise Section 2.2 Scope as shown below.

**2.2** While acceptable IAQ is the goal of this standard, it will not necessarily be achieved even if all requirements are met

- a. because of the diversity of sources and contaminants in indoor air and the range of susceptibility in the population;
- b. because of the many other factors that may affect occupant perception and acceptance of IAQ, such as air temperature, humidity, noise, lighting, thermal environment, acoustical environment, visual environment, and psychological stress-factors;
- c. if the ambient air is unacceptable and this air is brought into the building without first being cleaned (ambient outdoor air cleaning is not required by this standard);
- d. if the system or systems are not operated and maintained as designed; or
- e. when high-polluting events occur.





BSR/ASHRAE Addendum ac to ANSI/ASHRAE Standard 15-2024

### **First Public Review Draft**

# Proposed Addendum ac to Standard 15-2024, Safety Standard for Refrigeration Systems

First Publication Public Review (April, 2025) (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 <a href="http://www.ashrae.org/standards-research--technology/public-review-drafts">www.ashrae.org/standards-research--technology/public-review-drafts</a> 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 <a href="http://www.ashrae.org/bookstore">www.ashrae.org/bookstore</a> or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

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

BSR/ASHRAE Addendum ac to ASHRAE Standard 15-2024, *Safety Standard for Refrigeration Systems* First Public Review Draft

#### **First Public Review Draft**

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#### FOREWORD

This proposed Addendumac to ASHRAE Standard 15-2024 modifies Section 7.6.2.5(d) to resolve an internal conflict within the standard. Section 7.6.3.3 of the standard states that it is acceptable to use hot surfaces exceeding 1290°F (700°C) so long as there is a minimum face velocity of 200 ft/min. The requirement is based on experimental testing that demonstrated the difficulty in igniting refrigerant with sufficient airflow. Section 7.6.2.5(d) of the standard requires deenergizing the hot surface even though Section 7.6.3.3 states the installation is acceptable provided that there is sufficient airflow. The solution is to only require disabling devices not complying with Section 7.6.3.3.

**Note:** This addendum makes proposed changes to the current standard. These changes are indicated in the text by <u>underlining</u> (for additions) and <u>strikethrough</u> (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 ac to Standard 15-2024

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

**7.6.2.5\* Mitigation Action Requirements.** The following *mitigation actions shall* be completed in not more than 15 seconds a fter the initiation of the output signal of Section 7.6.2.4(h), and *shall* be maintained for at least five (5) minutes after the output signal has reset:

a.[...]

b. [...]

c.\* [...]

d. De-energize electric resistance heat installed in the *air duct* that is connected to the *refrigeration system*.

**Exception to (d):** De-energization of electric resistance heaters *shall not* be required when both of the following are met:

1. There is proof of airflow before and while energizing the electric resistance heater

2. Airflow through the electric resistance heater is proven greater than 200 ft/min (1.0 m/s)

e.\* [...] f.\* [...]

[...]

**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 an the average airflow velocity is proven not less than 200 ft/min (1.0 m/s) across the heating device(s) and there is proof of airflow before and while energizing the heating device(s) is energized. Average airflow velocity *shall* be determined by volumetric airflow rate divided by *duct* flow area.

# **Public Review Draft**

Proposed Addendum o to Standard 189.1-2023

# Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings

First Public Review (May, 2025) (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 <u>www.ashrae.org/standards-research--technology/public-review-drafts</u> 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 <u>www.ashrae.org/bookstore</u> or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

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#### Foreword

This proposed addendum introduces a new jurisdictional option with requirements for bird-friendly glazing design in buildings. Birds play an important role in our world and have a strong influence on the way we manage our environment. Birds help us understand changes in biodiversity, are useful barometers of variations in environmental conditions, help control insect populations, play a role in plant pollination, and contribute to our social and economic lives. However, bird collisions with buildings are the second principal cause of avian mortality in the United States, second only to cats. Birds may perceive transparent and reflective surfaces together with views of vegetation or sky in the built environment as flythrough conditions, resulting in up to 1 billion deaths from collisions with buildings annually in North America.

Research on bird-glazing collision prevention has guided the development of birdfriendly building design. Interrupting reflections and see-through conditions by creating visual markers on the glass at a specific spacing and geometry has been shown to significantly reduce bird collisions. This addendum specifies requirements for the location and characteristics of this type of glass, termed bird-friendly glazing. Primary risk areas are addressed including glazing in vertical fenestration, spandrel, skylights, glazed corners, flythrough conditions, and glazed railings up to 75 ft above grade, as well as glazing adjacent to roof areas with vegetation or water features. Different options are provided for compliant bird-friendly characteristics including glazing with a prescriptively specified pattern of visual markers, glazing compliant with the CSA A460:19 standard, or exterior attachments such as metal screens mounted over glazing.

The first option specifying a prescriptive pattern of visual markers is based on 2" spacing for lines, and on the '2 x 2' inch rule used for grid patterns but written in language that can apply to patterns other than just square grids. Following the approach taken with code requirements for railing openings in the building code, this specifies the maximum size circle (instead of a sphere as used with railings) that will fit between discrete visual markers. As shown in the figure below, the 2 x 2 grid results in a 2.7" diameter circle, but this approach has the advantage of also allowing other marker patterns with the same effectiveness in terms of openness.

As the risk of bird collisions can vary by location due to different bird populations, migratory patterns, and local environment, this addendum is written as a jurisdictional option.

Example of largest circle that will fit between markers in a 2 x 2 inch grid.



[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by <u>underlining</u> (for additions) and <del>strikethrough</del> (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 o to 189.1-2023

Modify Section 4.2 and Table 4.2

#### Modify the standard as follows:

**4.2 Jurisdictional Options.** The jurisdictional options listed in Table 4.2 provide jurisdictions the flexibility to adopt the code in a manner that is best suited to meet their unique environmental and regional goals and needs. The informative symbol "[JO]" after the section number indicates jurisdictional option provisions.

Table 4.2 may be used for the code adoption ordinance:

- a. Where "No" boxes are provided, the jurisdiction checks the box to indicate where that section is not to be enforced as a requirement in the jurisdiction. Where the "No" box is not checked, that section is adopted.
- b. Where a numerical value is listed to specify the level of performance, the jurisdiction shall indicate the required value to be adopted. Where a numerical value is not indicated, the value in the text is adopted without change.

In addition to the jurisdictional options listed in Table 4.2, the standard also provides for optional jurisdictional adoption of Informative Appendix G, "Option for Energy Efficiency Using the IECC Prescriptive Compliance Path." Where the jurisdiction adopts Appendix G, compliance with Sections 7.3 and 7.4 of Standard 189.1 shall be as specified in Appendix G.

Table 4.2 Requirements Determined by the Jurisdiction (Normative in the IgCC)

Section	Section Title, Description and Directives	Jurisdictional Requirement
<u>5.3.7</u>	Bird-Friendly Design	<u>□ No</u>

(Portions of table not shown are unchanged)

#### *Modify Section 5.1 and insert new section 5.3.7*:

**5.1 Scope.** This section addresses requirements for *building projects* that pertain to site selection, site development, mitigation of *heat island effect*, light pollution reduction, <u>bird-friendly design</u>, and mitigation of transportation impacts.

• • ••

#### 5.3.7 [JO] Bird-friendly Design.

**5.3.7.1 Bird-Friendly Glazing Required Locations.** Bird-friendly glazing shall be installed in new buildings and additions, and where 25% or more of the *vertical fenestration area* is being replaced during existing building alterations. Bird-friendly glazing compliant with Section 5.3.7.2 shall be installed in the following locations:

- <u>a. Not less than 90% of the area of *vertical fenestration*, glass spandrel, and *skylights* <u>below 75 feet (23 m) above grade.</u></u>
- b. For existing buildings, not less than 90% of the area of *vertical fenestration* being replaced below 75 feet (23 m) above grade.
- c. Not less than 90% of the area of *vertical fenestration*, glass spandrel, and *skylights* adjacent to and three *stories* or fewer above roof areas with vegetation or water features.
- d. Where glazed, all glazed corners, fly-through conditions, glazing adjacent to courtyards, skywalks, building connectors, railings, noise barriers, and wind barriers below 75 feet (23 m) above grade.

#### Exceptions to 5.3.7.1:

1. Buildings listed on the National Register of Historic Places.

2. Places of religious worship.

#### 5.3.7.2 Bird-Friendly Glazing Characteristics

Where required by Section 5.3.7.1, qualifying bird-friendly glazing shall comply with not less than one of the following:

- <u>a. The first or second surface of the glazing shall have solid fill visual markers not</u> <u>smaller than 1/8" (3 mm), not more than 2" (50 mm) between linear continuous visual</u> <u>markers, and a density pattern such that a circle with diameter no more than 2.7"</u> <u>(69 mm) will fit between discrete point visual markers.</u>
- b. Clauses 3.3.1 through 3.3.3 of CSA A460.
- <u>c. Glazing shall be covered by permanently-attached exterior building-integrated</u> <u>structures that do not have gaps larger than 2" (50 mm) in any dimension, including</u> <u>metal screens and fixed solar shading.</u>
- d. Glazing shall have a bird-friendly configuration including markers and surface orientation approved by the *AHJ*.

(Informative Note: Refer to NGA DG01-21 Best Practices for Bird-Friendly Glazing Design in Informative Appendix L.)

*Renumber subsequent subsections as 5.3.8 Mitigation of Transportation Impacts and 5.3.9 Building Project Site Waste Management* 

Insert Informative Note after Section 7.4.2.9

*In Section 7, insert informative note at end of fenestration-related items after Section 7.4.2.9:* 

(Informative Note: Refer to Section 5.3.7 regarding bird-friendly design for fenestration. Where selected as a jurisdictional option, bird-friendly glazing will be required for fenestration in specified locations.)

*Add new normative and Informative References in Section 11 and Appendix L: Add new normative and informative references in Section 11 and Appendix L:* 

#### **11. NORMATIVE REFERENCES**

Reference	Title	Section				
Canadian Standards Association (CSA) 178 Rexdale Blvd. Toronto, ON, M9W 1-800-463-6727 and	1R3, Canada 1 1-416-747-4000; www.csa.ca					
CSA A460:19	Bird-Friendly Building Design	5.3.7				
INFORMATIVE APPENDIX L INFORMATIVE REFERENCES AND BIBLIOGRAPHY						
Reference		Section				
National Glass Association 344 Maple Avenue West, Suite 272 Vienna, VA 22180, United States 1-703-442-4890; www.glass.org						
NGA DG01-21	Best Practices for Bird-Friendly Glazing Design	5.3.7				



BSR/ASHRAE/IES Addendum bu to ANSI/ASHRAE/IES Standard 90.1-2022

### **Public Review Draft**

# **Proposed Addendum bu to**

# Standard 90.1-2022, Energy Standard

# for Sites and Buildings Except Low-

# **Rise Residential Buildings**

#### Second Public Review (April 2025) (Draft Shows Proposed Independent Substantive 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 <u>www.ashrae.org/standards-research--technology/public-review-drafts</u> 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 <u>www.ashrae.org/bookstore</u> or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

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BSR/ASHRAE/IES Addendum bu to ANSI/ASHRAE/IES Standard 90.1-2022, *Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings* Second Public Review Draft – Independent Substantive Changes

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#### FOREWORD

This ISC to addendum BU revises Table G3.2.3.17, Inputs for Elevator Consumption Calculations, to correctly specify the input for buildings taller than three stories. The informative note now provides further guidance on how to select the elevator usage category.

[Note to Reviewers: This public review draft makes proposed independent substantive changes to the previous public review draft. These changes are indicated in the text by <u>underlining</u> (for additions) and <del>strikethrough</del> (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the previous draft 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 substantive changes.]

Table G3.2.3.17 Inputs for Elevator Consumption Calculations						
Usage category	Very low	Low	Low Medium High Very high Extremely hi			Extremely high
Trips per day (nd)	50	125	300	750	1500	2500
Number of stopping floors	Percentage of Average Travel Distance					
2	1	1	1	1	1	1
3	0.67	0.67	0.67	0.67	0.67	0.67
4 <mark>&gt;3</mark>	0.49	0.49	0.49	0.44	0.39	0.32

#### Addendum bu to 90.1-2022

Informative Note: Below are the buildings typically associated with each usage category in Table G3.2.3.17. <u>Projects should pick the usage category</u> that best aligns with expected building operation.

Usage						Extremely
category	Very low	Low	Medium	High	Very high	high
Typical buildings	Residential building up to 6 dwellings Residential care home Small office or administrative building with few operations Suburban railway stations	Residential building up to 20 dwellings Small office or administrative building with 2 to 5 floors Small hotels Office parking lots General parking lots Library Entertainment centers Main line railway stations Stadia	Residential building with up to 50 dwellings Medium-sized office or administrative building with up to 10 floors Medium-sized hotel Airports University Small hospital Shopping center	Residential building with more than 50 dwellings  Large office or administrative building with more than 10 floors  Large hotel	• very large office or administrative building over 328 ft (100 m) height	• very large office or administrative building over 328 ft (100 m) height



BSR/ASHRAE/IES Addendum cm to ANSI/ASHRAE/IES Standard 90.1-2022

## **Public Review Draft**

# **Proposed Addendum cm to**

# Standard 90.1-2022, Energy Standard

# for Sites and Buildings Except Low-Rise Residential Buildings

#### First Public Review (April 2025) (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 <u>www.ashrae.org/standards-research--technology/public-review-drafts</u> 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 <u>www.ashrae.org/bookstore</u> or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

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BSR/ASHRAE/IES Addendum cm to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings First Public Review Draft

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#### FOREWORD

Addendum "q" added pad-type (wetted media) adiabatic fluid coolers along with a minimum efficiency and the CTI Acceptance Test Code to Table 6.8.1-7 Heat Rejection Equipment. A definition for pad-type adiabatic fluid coolers was also being added to Section 3 for clarity and the new test code for adiabatic fluid coolers, CTI ATC-105 Adiabatic, was added to Section 13, Normative References. This follow-on Addendum proposes modifying the thermal rating point for pad-type adiabatic fluid coolers.

The reason for this change is based on analyses by several heat rejection equipment manufacturers. During development of the new CTI rating standard for adiabatic fluid coolers, it was found that at the temperature conditions currently listed in Table 6.8.7-1 (as added by Addendum "q"), the process fluid velocity and corresponding pressure drop for many heat-exchanger configurations will be very high and beyond the typical application range for these devices. This is especially pronounced in models with a higher number of rows, fewer circuits, and / or long coil lengths. Therefore, it would not be appropriate to use a rating condition where a substantial number of models would not be able to be rated at the standard rating condition.

A new thermal duty has been selected  $(105^{\circ}F \text{ inlet }/95^{\circ}F \text{ outlet }/95^{\circ}F \text{ dry bulb }/75^{\circ}F \text{ wet bulb})$  to replace the original thermal duty in Addendum "q"  $(110^{\circ}F \text{ inlet }/100^{\circ}F \text{ outlet }/95^{\circ}F \text{ dry bulb }/75^{\circ}F \text{ wet bulb})$ . This updated thermal condition in more challenging thermally and will allow the vast majority of models currently on the market to be rated for comparison purposes.

As there currently are no performance requirements for adiabatic fluid coolers, Addendum "q" provided a minimum efficiency along with a test code to confirm the thermal performance of pad-type adiabatic fluid coolers. This new Addendum simply updates the thermal condition for Table 6.8.1-7. Based on this, no cost impact is anticipated at this time but compliance with industry performance expectations will improve relative to adiabatic fluid coolers. Note that the Cooling Technology Institute is currently working on extending its thermal certification program to include adiabatic fluid coolers, anticipated for late 2026. Finally, adiabatic systems that result in a wetted heat exchange surface continue to be outside of the scope of the listed CTI test code and should be evaluated as closed-circuit fluid coolers.

This proposal was developed at the request of the CTI Adiabatic Certification Committee and submitted by the ASHRAE TC8.6 Subcommittee on Codes and Standards, who both unanimously support this modification to the Standard.

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#### Addendum cm to 90.1-2022

Update Table 6.8.1-7 as shown (IP):

#### Table 6.8.1-7 Performance Requirements for Heat Rejection Equipment—Minimum Efficiency Requirements

Equipment Type	Total System Heat-Rejection Capacity at Rated Conditions	Subcategory or Rating Condition <sup>h</sup>	Performance Required <sup>a,b,c,f,g<u>, i</u></sup>	Test Procedure <sup>d,e</sup>
Propeller or axial fan adiabatic fluid coolers, integral pad type	All	<del>110<u>105</u>°F entering water <u>10095</u>°F leaving water 95°F entering db 75°F entering wb</del>	≥6.2 gpm/hp	CTI ATC-105 Adiabatic

Update Table 6.8.1-7 as shown (SI):

#### Table 6.8.1-7 Performance Requirements for Heat Rejection Equipment—Minimum Efficiency Requirements

Equipment Type	Total System Heat-Rejection Capacity at Rated Conditions	Subcategory or Rating Condition <sup>h</sup>	Performance Required <sup>a,b,c,f,g<u>, i</u></sup>	Test Procedure <sup>d,e</sup>
Propeller or axial fan adiabatic fluid coolers, integral pad type	All	4 <del>3.3<u>40.6</u>°C entering water <u>37.835.0°</u>C leaving water 35.0°C entering db 23.9°F entering wb</del>	≥0.52 L/(s· <i>kW</i> )	CTI ATC-105 Adiabatic

Note: As Addendum "q" has been published, only the changes proposed by this new Addendum are shown above.



BSR/ASHRAE/IES Addendum co to ANSI/ASHRAE/IES Standard 90.1-2022

# **Public Review Draft**

# **Proposed Addendum co to**

# Standard 90.1-2022, Energy Standard

# for Sites and Buildings Except Low-Rise Residential Buildings

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#### FOREWORD

This proposed revision to the wattage threshold to the automatic daylight responsive controls for sidelighted areas in in Section 9.4.1.1(e) will simplify the enforcement of the standard and avoid requiring an additional sidelighted control areas for situations where there is not much power. Currently in addition to a requirement for daylighting controls in the primary sidelighting which have a threshold of 75 watts the general lighting power threshold for daylighting controls in both secondary and primary sidelighted daylight areas is 150 watts regardless of the wattage split between the two areas. Under the current requirements, a daylight responsive control could be required for a few watts in the primary sidelighted daylight areas as long as there is 150 watts in the secondary sidelighted daylight areas or vice versa. This proposal removes the combined primary and secondary sidelighted daylight areas wattage threshold and replaces this with a simplified requirement of a 75-watt controls threshold for the primary sidelighted daylight areas, and a 75-watt controls threshold for the primary sidelighted daylight areas.

This does not add cost in material and labor and therefore no cost effectiveness calculation is performed.

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#### Addendum co to 90.1-2022

[...]

**9.4.1.1 Interior Lighting Controls.** For each *space* in the *building*, all of the lighting control functions indicated in Tables 9.4.1-1 and 9.4.1-2, for the appropriate *space* type in the first column, and as described below, shall be implemented. All control functions indicated as "REQ" are mandatory and shall be implemented. If a *space* type has control functions indicated as "ADD1," then at least one of those functions shall be implemented. If a *space* type has control functions indicated as "ADD2," then at least one of those functions shall be implemented. For *space* types not listed, select a reasonably equivalent type.

If using the Space-by-Space Method, the *space* type used for determining control requirements shall be the same *space* type that is used for determining the *LPD* allowance.

[...]

e. Automatic daylight responsive controls for sidelighting: In any *space* where the combined input power of all *general lighting* completely or partially within the *primary sidelighted areas* is 75 W or greater, the *general lighting* in the *primary sidelighted areas* shall be controlled by photocontrols. In any *space* where the combined input power of all *general lighting* completely or partially within the *primary sidelighted area* and *secondary sidelighted areas* is 150 75 W or greater, the *general lighting* in the *primary sidelighted area* and *secondary sidelighted areas* areas shall be

controlled by photocontrols. *General lighting* in the *secondary sidelighted* <u>area</u> <u>areas</u> shall be controlled independently of the *general lighting* in the *primary sidelighted* <u>area</u> <u>areas</u>. The control *system* shall have the following characteristics:

- 1. The calibration adjustment control shall be located no higher than 11 ft above the finished floor. Calibration shall not require the physical presence of a person at the sensor while it is processing.
- 2. The photocontrol shall reduce electric lighting power in response to available daylight using *continuous daylight dimming* to 20% 10% or less and off.
- 3. When an *automatic* reduction control has reduced the lighting power to the unoccupied *set point* in accordance with Section 9.4.1.1(g), the daylight responsive control shall adjust the electric light in response to available daylight, but it shall not allow the lighting power to be above the unoccupied *set point*.

Exceptions to 9.4.1.1(e): The following areas are exempted from Section 9.4.1.1(e):

- 1. *Primary sidelighted areas* where the top of any existing adjacent *structure* or natural object is at least twice as high above the windows as its horizontal distance away from the windows.
- 2. Sidelighted areas where the total glazing area is less than  $20 \text{ ft}^2$ .
- 3. *Primary sidelighted areas* adjacent to *vertical fenestration* that have external projections and no *vertical fenestration* above the external projection, where the external projection has a *projection factor* greater than 1.0 for *north-oriented* projections or where the external projection has a *projection factor* greater than 1.5 for all other *orientations* (see Figure 3.2-6).


### BSR/ASHRAE/IES Addendum cp to ANSI/ASHRAE/IES Standard 90.1-2022

### **Public Review Draft**

## **Proposed Addendum cp to**

## Standard 90.1-2022, Energy Standard

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### FOREWORD

This addendum clarifies that the gross lighted floor area in multifamily buildings does not include the area dwelling spaces.

This addresses an unofficial interpretation and is consistent with other codes.

*This addendum also adds another unofficial interpretation related to power and energy recording and reporting. interpretation.* 

The cost – effectiveness analysis was not needed as this is a clarification of an existing requirement.

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### Addendum cp to 90.1-2022

### *Modify the section 8.4 as follows:*

**8.4.3.2** Recording and Reporting. The electrical *energy* use for all loads specified in Section 8.4.3.1 shall be recorded a minimum of every in <u>not more than 15-minutes</u> intervals and reported at least hourly, daily, monthly, and annually. The data for each tenant space shall be made available to that tenant. In *buildings* with a digital control *system* installed to comply with Section 6.4.3.10, the *energy* use data shall be transmitted to the digital control *system* and graphically displayed. The *system* shall be capable of maintaining all data collected for a minimum of <u>not less than 36</u> months.

### Exceptions to 8.4.3.1 and 8.4.3.2:

- 1.  $Building less than 25,000 \, \text{ft}^2$ .
- 2. Individual tenant *spaces* less than 10,000 ft<sup>2</sup>.
- 3. *Dwellingunits*.
- 4. *Residential* Multifamily buildings with less than 10,000 ft<sup>2</sup> of common a rea. gross floor area excluding dwelling units.
- 5. Critical *equipment* and life-safety branches of NFPA 70, Article 517.

[...]

### Modify the section 9.5 as follows:

**9.5 Prescriptive Compliance Path.** Interior lighting power shall comply with either Section 9.5.1 or 9.5.2. Lighting control requirements shall comply with Section 9.4.1 and Tables 9.4.1-1 and 9.4.1-2.

Exterior lighting power shall comply with Section 9.5.3. Trade-offs between the *installed interior lighting power* and *installed exterior lighting power* are not allowed.

- **9.5.1** Building Area Method Compliance Path. Use the following steps to determine the *interior lighting power allowance* by the Building Area Method:
- a. Determine the appropriate *building* area type from Table 9.5.1 and the corresponding *LPD* value. For *building* area types not listed, selection of a reasonably equivalent type shall be permitted.
- b. Determine the gross lighted floor area in  $ft^2$  of the building area type. For multifamily buildings, the gross lighted floor area does not include the area of the dwelling units.
- c. Multiply the gross lighted floor areas of the building area types times the LPD value.

[...]

### Modify the table 9.5.1 as follows:

9.5.1 **Building Area Method Compliance Path**. Use the following steps to determine the *interior lighting power allowance* by the Building Area Method:

### Table 9.5.1 Lighting Power Density Using the Building Area Method

Building Area Type <sup>a</sup>	LPD, W/ft <sup>2</sup>
Manufacturing facility	0.77
Motion picture theater	0.39
Multifamily <sup><u>b</u></sup>	0.44
Museum	0.52

a. In cases where both a general *building* area type and a specific *building* area type are listed, the specific *building* area type shall apply.

b. Do not include the area of the *dwelling units* in the *gross lighted floor area*.

### Modify the table 10.4 as follows:

10.4.7.2 Recording and Reporting. The energy use of each building on the building site shall be recorded at a minimum of in not more than every 60-minutes intervals and reported at least hourly, daily, monthly, and annually. The recording system shall be capable of maintaining all data collected for a minimum of not less than 36 months and creating user reports showing at least hourly, daily, monthly, and annual intervals energy consumption and *demand*.[...]

Exceptions to 10.4.7.1 and 10.4.7.2:

- 1. Buildings or additions less than 25,000 ft<sup>2</sup>.
- 2. Individual tenant spaces less than 10,000 ft<sup>2</sup>.
- 3. Dwelling units.
- 4. *idential* Multifamily\_buildings with less than 10,000 ft<sup>2</sup> of common area. gross floor area excluding dwelling units. Re
- 5. Fuel used for on-site emergency equipment.

[...]

### Modify the table 9.5.1 as follows (SI):

9.5.1Building Area Method Compliance Path. Use the following steps to determine the interior *lighting power allowance* by the Building Area Method:

Table 9.5.1 Lighting Power Density Using the Building Area Method	
Building Area Type <sup>a</sup>	LPD, W/m <sup>2</sup>
Manufacturing facility	8.3
Motion picture theater	4.2
Multifamily	4.7
Museum	5.6

. . .

In cases where both a general building area type and a specific building area type are listed, the specific building area type shall a. apply.

...

Do not include the area of the dwelling spaces in the gross lighted floor area. b.



### BSR/ASHRAE/IES Addendum cq to ANSI/ASHRAE/IES Standard 90.1-2022

## Public Review Draft Proposed Addendum cq to Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings

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### FOREWORD

This addendum adds the Cool Roof Rating Council (CRRC) S100 standard as an alternative compliance path for determining the solar reflectance and thermal emittance of walls. The updated year for the standard is also included, as well as some general editorial updates.

[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by <u>underlining</u> (for additions) and <del>strikethrough</del> (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 cq to 90.1-2022

*Revise text as follows:* 

- **5.5.3.2.2 Wall Solar Reflectance**, and Thermal Emittance, and Shading. For Climate Zone 0, *above-grade east-*, *south-*, and *west-oriented walls*, shall comply with subparagraph (a) or (b):
  - a. <u>A minimum of Not less than 75% of the opaque wall area shall have an a minimum area-weighted initial solar reflectance of not less than 0.30 and an emittance or emissivity of not less than 0.75. Initial solar reflectance shall be determined using one of the following: when where tested in accordance with ASTM C1549 with AM1.5GV output; or ASTM E903 with the AM1.5GV output; <u>CRRC S100; or determined in accordance with generally accepted engineering standards.</u>, and a minimum emittance or emissivity of 0.75 <u>Emittance or emissivity shall be determined by testing in accordance with one of the following</u>: when ASTM C835, C1371, E408, <u>CRRC S100; or determined in accordance engineering standards</u>. For the portion of the opaque wall that is glass spandrel area, a solar reflectance of 0.29 or greater, determined in accordance with NFRC 300 or ISO 9050, shall be permitted. Area-weighting is permitted only between the south-, east-, and west-oriented walls and only between walls of enclosing the same space conditioning category.</u>
  - b. A minimum of Not less than 30% of the *above-grade wall* area shall be shaded by through the use of human-made structures, existing buildings, hillsides, permanent building projections, on-site renewable energy systems, or a combination of these. Shade coverage shall be calculated by projecting the shading surface downward on the *wall* at an angle of 45 degrees

Exception to 5.5.3.2.2: Exterior walls of semiheated spaces.

### **13. NORMATIVE REFERENCES**

### Cool Roof Rating Council (CRRC) 2435 N. Lombard St., Portland, OR 97217, United States

ANSI/CRRC S100 (20212025) Standard Test Methods for Determining Radiative Properties of Materials

5.5.3.1.4, 5.5.3.2.2



BSR/ASHRAE/IES Addendum cu to ANSI/ASHRAE/IES Standard 90.1-2022

### **Public Review Draft**

## **Proposed Addendum cu to**

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### FOREWORD

This addendum provides changes to the EV readiness language to align with the NEC 2023. This modifies addendum AZ that is published online at <u>https://www.ashrae.org/technical-resources/standards-and-guidelines/standards-addenda</u>

<u>Cost Effectiveness</u> There is no cost impact.

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### Addendum cu to 90.1-2022

### 3. DEFINITIONS, ABBREVIATIONS, AND ACRONYMS

[...]

*electric vehicle space (EV space):* a parking space that is provided with a dedicated means of power transfer between an *EV* and power supply for the purpose of charging *EV* batteries.

[...]

3.3 Abbreviations and Acronyms

[...]

8.2 Compliance Paths.

8.4 Mandatory Provisions
[...]

**8.4.5 Minimum Requirements for** AC-Electric Vehicle Spaces. Electric vehicle spaces shall comply with all of the following:

BSR/ASHRAE/IES Addendum cu to ANSI/ASHRAE/IES Standard 90.1-2022, *Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings* First Public Review Draft

- a. Branch circuits serving EV spaces shall have a rated voltage of not less than 208 V.
- b. In *nonresidential* buildings, branch circuits serving <u>EV spaces</u> charging of electric vehicles shall have conductors sized to deliver a continuous duty load of not less than 6.6 7.2 kVA or the nameplate of the equipment, whichever is larger, to each EV space and shall have circuit overcurrent protection sized to serve the load in accordance with NFPA 70.
- c. Each *EVSE* shall be capable of being controlled by a building management system or grid services aggregator.

**13. NORMATIVE REFERENCES** [...]

Reference

National Electric Code

6.5.1, 8.4.3.1, 8.4.3.2, 8.4.5

NFPA 70-202<del>0</del>3

National Elect

Section



BSR/ASHRAE/IES Addendum cz to ANSI/ASHRAE/IES Standard 90.1-2022

### **Public Review Draft**

## Proposed Addendum cz to

## Standard 90.1-2022, Energy Standard

# for Sites and Buildings Except Low-Rise Residential Buildings

### First Public Review (April 2025) (Draft Shows Proposed Changes to Current Standard)

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### FOREWORD

This update is needed to replace the Standard's reference to AMCA 208 for calculating Fan Energy Index (FEI) to the Energy Conservation Program: Test Procedure for Fans and Blowers, published by the U.S. Department of Energy (DOE), on May 1, 2023.

The test procedure establishes separate methods of test for "general fans and blowers", as Appendix A, and "air circulating fans (ACF)" as Appendix B.

In January of 2025, the U.S. DOE <u>withdrew</u> the proposed minimum efficiency standards for both fans and blowers as well as air circulating fans.

Compliance with the Code of Federal Regulations (CFR) test procedures is required within the U.S. and U.S. territories; however, the proposed addendum continues the allowance of AMCA 208 to calculate Fan Energy Index (FEI) ratings for fans sold for use outside the U.S. There is no significant anticipated cost impact related to increased efficiency of fans and blowers, as this addendum does not change the minimum FEI levels.

The proposed addendum seeks to require air circulating fans (ACF) be tested and rated per the requirements of the CFR and in a manner consistent with fans and blowers and ceiling fans.

The proposed addendum adds definitions established by the CFR test procedure as necessary and to provide clarity and efficiency. For example, DOE established a statutory definition for "safety fan" that allows the list of exemptions for the fans and blowers provision to be shortened, and which provides clarity for certain conditions, such as what is meant by "explosion proof."

The proposed addendum would require that FEI values be indicated on the construction documents to allow for compliance verification by the authority having jurisdiction.

BSR/ASHRAE/IES Addendum cz to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings First Public Review Draft

[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by <u>underlining</u> (for additions) and <del>strikethrough</del> (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 cz to 90.1-2022

Add the following definitions to Section 3.2 (I-P and SI): Note to reviewers: the following definitions are taken straight from 10 CFR Part 431.

*air circulating fan*: a *fan* that has no provision for connection to ducting or separation of the *fan* inlet from its outlet using a pressure boundary, operated against zero external pressure loss, and is not a *jet fan* or a *ceiling fan*.

*ceiling fan:* a nonportable (permanently installed) device <u>that is</u> suspended from a ceiling <del>or overhead structure</del> for circulating air via the rotation of fan blades. For the purpose of this definition, circulating air means the discharge of air in an upward or downward direction. A ceiling fan that has a ratio of fan blade span (in inches) to maximum rotation rate (in revolutions per minute) greater than 0.06 (1.524 mm/rpm) provides circulating air.

*fan*: a rotary bladed machine used to convert electrical or mechanical power to air power, with an energy output limited to 25 kilojoule (kJ)/kilogram (kg) (10.75 Btu/lb<sub>m</sub>) of air. It consists of an impeller, a shaft and bearings and/or driver to support the impeller, as well as a structure or housing. A fan or blower may include a transmission, driver, and/or motor controller.

*fan energy index (FEI)*: the ratio of the electric input power of a reference fan to the electric input power of the actual fan as calculated per AMCA 208 10 CFR Part 431 for U.S. applications or per AMCA 208 for applications outside the U.S.

*induced flow fan:* a type of laboratory exhaust fan with nozzle and windband; the fan's outlet airflow is greater than the inlet airflow due to induced airflow. All airflow entering the inlet exits through the nozzle. Airflow exiting the windband includes the nozzle airflow as well as the induced airflow.

*jet fan*: a *fan* designed and marketed specifically for producing a high velocity air jet in a space to increase its air momentum. Jet *fans* are rated using thrust. Inlets and outlets are not ducted but include acoustic silencers.

*radial housed fan:* a *fan* with a radial impeller in which airflow exits into a housing that is generally scroll-shaped to direct the air through a single *fan* outlet. Inlets and outlets can optionally be ducted.

*radial housed unshrouded fan:* a *radial housed fan* for which the impeller blades are attached to a backplate and hub (i.e., open radial blade), or to a hub only (i.e., open paddle wheel), and with an open front at the impeller's inlet.

### safety fan:

(1) a reversible axial fan in cylindrical housing that is designed and marketed for use in ducted tunnel ventilation that will reverse operations under an emergency ventilation condition;

(2) a fan for use in explosive atmospheres tested and marked according to ISO 80079-36:2016, Explosive atmospheres -- Part 36: Non-electrical equipment for explosive atmospheres -- Basic method and requirements;

(3) an electric-motor-driven-Positive Pressure Ventilator as defined AMCA 240; or

(4) fans complying with ANSI/UL 705 Standard for Safety for Power Ventilators and listed as "Power Ventilators for Smoke Control Systems"; or

(5) a laboratory exhaust fan designed and marketed specifically for exhausting contaminated air vertically away from a building using high-velocity discharge.

*Make the following changes to Section 6.4.7(I-P and SI):* 

Table 6.4.7 Performance Rating Procedures for <u>Equipment Without Minimum Efficiency Requirements</u> <del>System</del> <del>Components</del>

Equipment	Rating Procedure
Plate-type liquid-to-liquid heat exchangers	AHRI 400
Fin-and-tube heating and cooling coils (hydronic and DX)	AHRI 410
Exhaust air energy recovery heat exchangers	AHRI 1060
<u>Air circulating fans with input power <math>\geq 200W</math></u>	Subpart J to Appendix B of 10 CFR Part 431

### 6.4.7 Performance Rating Requirements for <u>Equipment Without Minimum Efficiency Requirements</u> System

**Components.** The *equipment* listed in Table 6.4.7 shall be rated in accordance with the rating procedure listed.

*Make the following changes to Section 6.5.3.1.3 (I-P and SI):* 

**6.5.3.1.3 Fan Efficiency.** Each fan and *fan array* shall have a *fan energy index (FEI)* of 1.00 or higher at its highest design airflow rate. Each fan and *fan array*-used for a *variable-air-volume system* that meets the requirements of Section 6.5.3.2.1 shall have an *FEI* of 0.95 or higher at its highest design airflow rate. The *FEI* for *fan arrays* shall be calculated in accordance with AMCA 208 Annex C.

**6.5.3.1.3.1** The FEI for individual fans shall be determined in accordance with 10 CFR Part 431 or AMCA 208, outside of the U.S. The fan *FEI* shall be indicated on the construction documents to allow for compliance verification by the *AHJ*.

**6.5.3.1.3.2** *Fan Array* Efficiency. *Fan arrays* with a combined motor *nameplate horsepower* greater than 5 hp or with a *fan system electrical input power* greater than 4.1 *kW* shall have an *FEI* of 1.00 or greater calculated in accordance with AMCA 208 Annex C. Any fan in the fan array with a shaft input power greater than or equal to 1 hp or with a fan electrical input power greater than or equal to 0.89 *kW* shall have an *FEI* of 1.00 or greater. Each fan and fan array used for a variable-air-volume system that meets the requirements of Section 6.5.3.2.1 shall have an *FEI* of 0.95 or higher at its highest design airflow rate. <u>All fan array FEI</u> values shall be indicated on the *construction documents*.

### Exceptions to 6.5.3.1.3:

1. Fans that are not *embedded fans* with a motor *nameplate horsepower* of less than 1.0 hp or with a *fan nameplate electrical input power* of less than 0.89 kW or where airpower at the design airflow results in greater than 150 hp (111 kW).

2. *Embedded fans* and *fan arrays* with a combined motor *nameplate horsepower* of 5 hp or less or with a *fan system electrical input power* of 4.1 kW or less.

3. *Embedded fans* that are part of *equipment* listed under Section 6.4.1.1.

4. *Embedded fans* included in *equipment* bearing a third-party-certified seal for air performance or *energy* performance of the *equipment* package.

5. Ceiling fans.

6. Fans used for moving gases at temperatures above 482°F (250°C).

7. Fans used for operation in explosive atmospheres.

8. Reversible fans used for tunnel ventilation.

97. Fans outside the scope of AMCA 208.

108. Fans when operating during emergency conditions.

119. <u>Radial housed unshrouded fans with blade diameter at tip less than 30 inches [76 cm] or a blade width of</u> less than 3 inches [76 mm].

1110. <u>Safety fans</u>.

1211 Induced flow

<u>12</u>11. Induced flow fans.

BSR/ASHRAE/IES Addendum cz to ANSI/ASHRAE/IES Standard 90.1-2022, *Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings* First Public Review Draft

### 12. Jet fans.

Add the following to Section 13 (I-P and SI):

ANSI/AMCA 230-23 with Errata Laboratory Methods of Testing Air Circulating Fans for Rating and Certification

ISO 80079-36:2016, Explosive atmospheres -- Part 36: Non-electrical equipment for explosive atmospheres -- Basic method and requirements

ANSI/AMCA 240-15 Laboratory Methods of Testing Positive Pressure Ventilators for Aerodynamic Performance Rating.

ANSI/UL 705 Standard for Safety for Power Ventilator



BSR/ASHRAE/IES Addendum da to ANSI/ASHRAE/IES Standard 90.1-2022

### **Public Review Draft**

## Proposed Addendum da to

## Standard 90.1-2022, Energy Standard

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### FOREWORD

This addendum clarifies the requirements in Section 6.1 for alterations by aligning the structure of Section 6.1.4 with similar sections covering alterations in Sections 5.1.4, 7.1.4, 8.1.4, and 9.1.1.3 of the standard. The prior text for Section 6 was unclear regarding alterations other than direct replacements. The requirements for new buildings and additions are unchanged.

### Cost justification:

There is no substantial change to the requirements, so the cost of construction is unchanged

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### Addendum da to 90.1-2022

### 6.1 General

6.1.1 Scope. Section 6 specifies requirements for mechanical *equipment* and systems.

**6.1.2 New Buildings.** Mechanical *equipment* and *systems* serving the heating, cooling, ventilating, or refrigeration needs of new *buildings* shall comply with the requirements of this section as described in accordance with Section 6.2.

**6.1.3** Additions to Existing Buildings. Mechanical *equipment* and *systems* serving the heating, cooling, ventilating, or refrigeration needs of *additions* to *existing buildings* shall comply with the requirements of this section as described in accordance with Section 6.2.

**Exception to 6.1.3:** When Where HVACR to an *addition* is provided by existing HVACR *systems* and *equipment*, <u>unaltered portions of</u> such *existing systems* and *equipment* shall not be required to comply with this standard. However, any new New systems or equipment installed must shall comply with specific requirements applicable to those systems and equipment.

**6.1.4** Alterations to Heating, Ventilating, Air Conditioning, and Refrigeration in Existing Buildings All *alterations* shall comply with Section 6.2 and Sections 6.1.4.1 to 6.1.4.3. Other than where required for compliance with Sections 6.1.4.1 to 6.1.4.3, *equipment, controls, piping,* and ducts within the alteration area or served by the altered *system* that are not replaced or altered shall not be required to comply with Section 6.2.

<u>Alterations to existing cooling systems shall not decrease economizer capability except where the altered</u> <u>system complies with Section 6.5.1.</u>

### Exceptions to 6.1.4: Compliance shall not be required

1. for *equipment* that is being modified or repaired but not replaced, provided that such modifications and/or *repairs* will not result in an increase in the annual *energy* consumption <u>or capacity</u> of the *equipment* using the same *energy* type;

BSR/ASHRAE/IES Addendum da to ANSI/ASHRAE/IES Standard 90.1-2022, *Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings* First Public Review Draft

- 2. <u>minor alterations limited to *ductwork* or *piping* within a single room that do not increase the energy consumed by the HVAC system. where a replacement or *alteration* of *equipment* requires extensive revisions to other *systems, equipment*, or elements of a *building*, and such replaced or altered *equipment* is a like-for-like replacement;</u>
- 3. for a refrigerant changes of existing equipment;
- 4. for the relocation of existing equipment within a single space; or
- 5. for ducts and *piping* where there is insufficient *space* or access to meet these requirements.
- 5. <u>Replacement equipment located indoors shall not be required to comply with Section 6.5.1.1, "Air Economizers." where the equipment being replaced did not comply.</u>
- 6. compliance with Section 6.4.3.3.4, "Zone Isolation"
- 7. compliance with Section 6.5.1.2, "Fluid Economizers.," for alterations to cooling systems that do not include a *fluid economizer*.
- 8. compliance with Section 6.4.3.8, "Ventilation Controls for High-Occupancy Areas" within an altered zone shall not require alterations to the common multiple zone fan system controls where the associated common equipment or its controls are not altered.

<u>6.1.4.1</u> New HVAC equipment is as a direct replacement of existing HVAC equipment, <u>Alterations</u> shall comply with the following sections as applicable within the alteration area or altered equipment serving the <u>alteration area</u> for the equipment being replaced.

a. 6.3, "Simplified Approach Building Compliance Path for HVAC Systems"

b. 6.4.1, "Equipment Efficiencies, Verification, and Labeling Requirements"

ea. 6.4.3.1, "Zone Thermostatic Controls" for altered equipment and spaces. In multiple zone systems terminal controls need not be altered in spaces that are not part of the alteration area where the multiple zone system is altered.

d-b. 6.4.3.2, "Set-Point Overlap Restrictions" where terminals are altered, where *space* heating or cooling *systems* or *equipment* that are dedicated to the altered space and at least one of these is altered, or where zone thermostatic controls are altered.

e-c. 6.4.3.3, "Off-Hour Controls" except for Section 6.4.3.3.4, "Zone Isolation"

fd. 6.4.3.4, "Ventilation System Controls"

g. 6.4.3.7, "Freeze Protection and Snow/Ice Melting Systems"

h. 6.4.3.8, "Ventilation Controls for High-Occupancy Areas" only for single-zone equipment

i. 6.4.3.9, "Heated or Cooled Vestibules or Air Curtains with Integral Heating"

e. 6.4.3.10 "Direct Digital Control Requirements"

k. 6.4.5, "Walk-In Coolers and Walk In Freezers"

1. 6.5.1.1, "Air Economizers" for units located outdoors

m. 6.5.1.3, "Integrated Economizer Control"

n. 6.5.1.4, "Economizer Heating System Impact"

o. 6.5.3.1.1 "Fan Power Limits"

p. 6.5.3.1.3, "Fan Efficiency"

q. 6.5.3.2.1, "Supply Fan Airflow Control"

r. 6.5.3.6, "Fractional Horsepower Fan Motors"

s. 6.5.4.1, "Boiler Turndown"

tf. 6.5.4.3, "Chiller and Boiler Isolation"

u. 6.5.5.2, "Fan Speed Control"

**6.1.4.2** New cooling systems installed to serve previously uncooled spaces shall comply with this section as described in Section 6.2.

**6.1.4.3** Alterations to existing cooling systems shall not decrease economizer capability except where the altered system complies with Section 6.5.1.

6.1.4.42 New and replacement ductwork shall comply with Sections 6.4.4.1 and 6.4.4.2.

6.1.4.53 New and replacement *piping* shall comply with Section 6.4.4.1.

Revision to NSF/ANSI 2 – 2022 Issue 48, Revision 4 (April 2025)

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NSF/ANSI Standard for Food Equipment –

### Food Equipment

- •
- 4 Materials
  - •

### 4.8 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.

### 4.9 Glass and glass-like coatings

Glass and glass-like coatings including, but not limited to, porcelain enamel or ceramic coatings may be permitted on direct food contact surfaces of pots and pans.

**Rationale**: Adding new language to NSF/ANSI 2 to permit the use of glass-like coatings on cooking surfaces in cookware. Cookware is not subject to the same level of impact by hard objects during use as griddles and are easily replaced if damaged.

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NSF/ANSI Standard for Food Equipment –

### Commercial Cooking, Rethermalization, and Powered Hot Food Holding and Transportation Equipment

- 4 Materials
- 4.7 Glass and glass-like coatings

Glass and glass-like coatings including, but not limited to, porcelain enamel or ceramic coatings may be permitted on direct food contact surfaces of panini grills, roller grills, rice cookers, and waffle irons. The coated food contact parts shall be removable.

**Rationale**: Adding new language to NSF/ANSI 4 to permit the use of glass-like coatings on cooking surfaces on panini grills and waffle irons. These products are not subject to impact by hard objects during normal use.

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NSF/ANSI Standard for Food Equipment –

### Food Equipment Materials

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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 direct food contact surfaces of the following equipment: 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

- <del>2.</del>
- countertops; or
- tabletops; or
- cutting boards; or
- sinks; or
- cooking surfaces; or
- mixer bowls
- other equipment surfaces subject to impact by hard objects during use

**Rationale:** Converts informative examples of equipment items restricted from using glass-like materials to normative requirements for the restriction of glass-like materials on specific equipment types.

**4.2.4.1** Glass and glass-like materials may be used on direct food contact surfaces in the following applications: grated cooking surfaces.

- Grated cooking surfaces; or
- As permitted in NSF/ANSI 2 or NSF/ANSI 4; or
  - Equipment surfaces not subject to impact by hard objects during use

**Rationale:** Restructured to include all permissible uses of glass-like materials under the same subsection. Adding exception to NSF/ANSI 4 to allow glass-like coatings on cooking surfaces for panini grills and waffle irons since these applications would not be subject to impact by hard objects during use.

**4.2.4.2** When used on splash zone and food zone nondirect food contact surfaces that may be subject to impact by hard objects during use, glass and glass-like coatings shall meet the impact resistance requirements in Section 9.3.

**4.2.4.3** When used on direct food contact surfaces that are not subject to impact, glass and glass-like coatings shall meet the impact resistance requirements in Section 9.4. Glass-like coatings shall yield an adherence rating of 3 or better when tested according to ASTM B916.

**Rationale:** Removing language that indicates use conditions to clarify that the impact tests should always be performed when such coatings are in a food or splash zone.

Revision to NSF/ANSI 2 – 2022 Issue 48, Revision 3 (December 2024)

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NSF/ANSI Standard for Food Equipment –

### **Glossary of Food Equipment Terminology**

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3 Definitions

**x.x panini grill:** A contact grill with heated bottom and top plate that heats sandwiches from both sides.

**x.x roller grill:** A cooking device that supports cylindrical shaped food items on a series of parallel, rotating tubes to cook the food uniformly.

**x.x waffle iron:** A cooking device with a heated pan that holds and cooks waffle batter from both sides creating a desired surface pattern in the cooked batter.

x.x rice cooker: A cooking device with a heated pan that holds rice and water to steam and cook the rice.

Rationale: New terms being proposed for NSF/ANSI 4.

Revision to NSF/ANSI 49 – 2024 Issue 199, Revision 1 (April 2025)

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## NSF/ANSI International Standard for Biosafety Cabinetry —

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

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### Design and construction

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5

### 5.22.4 Types A1 or A2 canopy exhaust alarm

Types A1 or A2 cabinets may be connected to an exhaust system via a canopy connection and exhausted by a remote fan. Once the cabinet and canopy is set or certified in its acceptable airflow range, audible and visual alarms shall be required to indicate within 15 s a loss of capture of room air using a visible medium to verify at the canopy air intake(s). The cabinet fan(s) must shall remain in operation when the alarm is activated. Canopy connections listed as acceptable options for a BSC shall have a manufacturer specified set up instructions separate from the BSC's inflow and downflow set points, to ensure proper setup and function in the field.

### Normative Annex 1

### Performance tests

### N-1.13 Canopy connection test

### N-1.13.1 Purpose

This test demonstrates the ability of a Types A1, A2, or C1 BSC to maintain inflow velocity during a facility exhaust system failure.

### N-1.13.2 Method

a) Connect the BSC to a facility exhaust system via the BSC manufacturer's canopy connection.

b) Adjust facility exhaust flow according to the BSC manufacturer's instructions Setup the canopy connection and airflows according to the manufactuer's instructions using the provided canopy connection set up instructions and balance the cabinet inflow and downflow velocities at the manufacturer's recommended nominal set points ± 2 ft/min (0.01 m/s).

c) Follow the BSC / canopy connection manufacturer's instructions to calibrate the canopy alarm if needed.

Revision to NSF/ANSI 49 – 2024 Issue 199, Revision 1 (April 2025)

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d) Reduce facility exhaust flow until a loss of capture of room air at the canopy intake slots is verified using a visible medium.

- e) Measure the amount of time from loss of capture to canopy alarm activation.
- f) Restore facility exhaust flow to the previous setting.
- g) Measure the inflow velocity using a DIM.
- h) Turn off the facility exhaust fan. Do not close any valves in the facility exhaust ductwork.

i) Wait 15 s after the canopy exhaust alarm is activated and then measure the inflow velocity again, using a DIM instrument.

#### N-1.13.3 Acceptance

**N-1.13.4** The canopy alarm shall activate within 15 s of loss of capture of the visible medium.

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**Rationale**: this language is intended to establish a set point to help ensure the canopy connection will function the same in the field as tested in the lab.

BSR/UL 651A, Standard for Safety for Schedule 40 and 80 High Density Polyethylene (HDPE) Conduit

### 1. Clarification to Resistance to impact test Clause 7.2.2

### PROPOSAL

7.2.2 Test three specimens of conduit. Each specimen shall be cut from finished lengths of each trade size of conduit and shall exhibiting no cracks, tears, or other imperfections. The specimens shall be equal in length to the nominal outside diameter but not less than 6 in (152 mm) in length. Condition the specimens at a temperature of  $-4 \pm 3.6$  °F ( $-20 \pm 2$  °C) for a minimum of 5 h. Conduct the test within 30 seconds after removal from the cold chamber. In a case of disagreement, conduct the tests at a maximum ambient temperature of in a room maintained at 73.4 ±3.6 °F ( $-23 \pm 2$  °C) 77 °F (25 °C) or less.

Note: To facilitate testing, it has been found that using an insulated box packed with freezer packs and conditioned at the conditioning temperature, can be used to transport specimens to the test equipment.

### BSR/UL 943, Standard for Safety for Ground-Fault Circuit-Interrupters

### 1. Optional Rating: UL 943 for other than 60 Hz – High Frequency HF

### PROPOSAL

SB1.1 These requirements cover a supplemental test procedure for a ground-fault circuit interrupter HF

# 3. Remote Critical Software Update Functionality: UL 5500 and UL 60730-1/ CAN/CSA E60730-1, Annex H.11.12.4 ion from

SD3.2 The following clauses Sections SD4 – SD8 apply when the manufacturer declares that the GFCI has safety software in accordance with the Standard for Software in Programmable Components, UL 1998 or UL 60730-1 / CSA E60730-1, Annex H.11.12, and has the functionality to remotely update this software.

NOTE 1: An update occurs when software replaces or modifies the previous version of the safety software of complying with UL 1998 or UL 60730-1 / CSA E60730-1, Annex H.11.12. Additionally, it is considered an update occurs when the with UL 1998 or UL 60730-1 / USA E00730-1, Annex 11, 11, 2, 1984 and 1, 1998 same version of safety software is replaced during the remote update process.

SD5.6 The remote update of software shall occur when the GFCI is in a risk addressed state. See SD4.1 inthetrepro - SD4.4.

### 5. EMC Proposal - Immunity Update

### PROPOSAL

6.9.1.3 The device shall be tested as described in each clause of 6.9, Resistance to Environmental sult c sult c utsetme.constituted material Not antimotive utsetme.constituted material Not antipoted and the second seco Noise, and shall not false trip as a result of the electromagnetic event.

### BSR/UL1699, Standard for Safety for Arc-Fault Circuit-Interrupters

### **1. Expanded EMC Requirements**

### PROPOSAL

44.3.1 The Standard for Electromagnetic compatibility (EMC) Part 4: Testing and measurement techniques - Section 3: Radiated, radio frequency, electromagnetic field immunity test, IEC 61000-4-3, is to be the test measurement reference. The frequency range to be investigated evaluated is to be from 80 MHz to 4 6 GHz. The exposure is to be level 2 3, 3 10 V/m modulated with 80 percent AM modulation at 1 kHz. The protective device shall not false trip when exposed to these fields. The frequencies to be used encompass the standard broadcast frequency ranges for commercial and amateur ("ham") radio and television. The step size for the test frequency ranges is to be 1 percent of fundamental. In addition, the device should be exposed to radiated electromagnetic fields that simulate those generated by digital radio telephones (commonly known as "cell phones"). This test consists of exposure to 10 V/m field using a 200 Hz digital modulation technique with a 50 percent duty cycle on one frequency between 895 MHz and 905 MHz. Other frequency ranges that are used in the United States are to be considered.

44.6.1 The test method described in the Standard for Electromagnetic compatibility (EMC) Part 4: Testing and measurement techniques - Section 6, Immunity to conducted disturbances, induced by radiofrequency fields, IEC 61000-4-6, are to be followed. The representative product is to be subjected to a conducted disturbance at 3 10 V over a frequency range of 150 kHZ to 80 MHz.

### 2. Editorial Updates

### PROPOSAL

1.2 This Standard covers AFCIs that have a maximum rating of 20 A and are intended for use in 120-V ac, 60-HZ circuits. Cord This Standard also covers cord AFCIs are rated up to 30 A.

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1.5 An AFCI that is also intended to perform other functions, such as overcurrent protection, ground-fault circuit-interruption, surge suppression, any other similar functions, or any combination thereof, shall comply additionally with the requirements of the applicable Standard or Standards that cover devices that provide those functions.

1.6 This standard contains a supplement covering the Standard includes requirements for Leakage-Current Detector-Interrupters as opecified in Annex B.

### **3 Components**

3.1 Except as indicated in 3.2, a component of a product covered by this standard shall comply with the requirements for that component. See Appendix A for a list of standards covering components generally used in the products covered by this standard.

component is not required to comply with a specific requirement that:

a) Involves a feature or characteristic not required in the application of the component in the product covered by this standard, or

b) Is superseded by a requirement in this standard.

ULSEINC 3.3 A component shall be used in accordance with its rating established for the intended conditions of use.

3.4 Specific components are incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions.

ion ULSE Inc.

### **5 Undated References**

5.1 Any undated reference to a code or standard appearing in the requirements of this standard shall be interpreted as referring to the latest edition of that code or standard.

### **3A Components**

3A.1 A component of a product covered by this Standard shall:

- a) Comply with the requirements for that component as specified in this Standard:
- b) Be used in accordance with its ratings(s) established for the intended conditions of use; and
- c) Be used within its established use limitations or conditions of acceptability

<u>3A.2 A component of a product covered by this Standard is not required to comply with a specific component requirement that:</u>

a) Involves a feature or characteristic not required in the application of the component in the product;

b) Is superseded by a requirement in this Standard; or,

c) Is separately evaluated when forming part of another component, provided the component is used in accordance with its established ratings and limitations.

<u>3A.3 Specific components are incomplete in construction features or restricted in performance capabilities.</u> Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions.

<u>3A.4</u> A component that is also intended to perform other functions such as overcurrent protection, groundfault circuit-interruption, surge suppression, any other similar functions, or any combination thereof, shall comply additionally with the requirements of the applicable standard(s) that cover devices that provide those functions.

### 5 Undated References 5 Referenced Publications

5.1 Any undated reference to a code or standard appearing in the requirements of this Standard shall be interpreted as referring to the latest edition of that code or standard.

5.2 The following publications are referenced in this Standard:

ANSI 2535.4, Product Safety Signs and Labels

STM E230/E230M. Standard Specification for Temperature-Electromotive Force (emf) Tables for Standardized Thermocouples

IEC 60529, Degrees of Protection Provided by Enclosures (IP Code)

<u>IEC 61000-4-2, Electromagnetic compatibility (EMC) – Part 4-2: Testing and measurement techniques – Electrostatic discharge immunity test</u>

<u>IEC 61000-4-3</u>, <u>Electromagnetic compatibility (EMC) – Part 4-3</u>: <u>Testing and measurement techniques –</u> <u>Radiated</u>, <u>radio-frequency electromagnetic field immunity test</u>

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IEC 61000-4-4, Electromagnetic compatibility (EMC) – Part 4-4: Testing and measurement techniques – Electrical fast transient/burst immunity test

IEC 61000-4-5, Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test

IEC 61000-4-6, Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques -Immunity to conducted disturbances, induced by radio-frequency fields

IEC 61000-4-11, Electromagnetic compatibility (EMC) – Part 4-11: Testing and measurement technique Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase

IEC 62443-2-1, Security for industrial automation and control systems Part 2-1: Security program out permit requirements for IACS asset owners

NFPA 70, National Electrical Code (NEC)

UL 20, General-Use Snap Switches

UL 50, Enclosures for Electrical Equipment, Non-Environmental Consideration

UL 50E, Enclosures for Electrical Equipment, Environmental

UL 62, Flexible Cords and Cables

UL 486A-486B, Wire Connectors

et reproduction UL 486E. Equipment Wiring Terminals for Use with Aluminum and/or Copper Conductors

UL 498, Attachment Plugs and Receptacles

UL 510, Polyvinyl Chloride, Polyethylene, and Rubber Insulating Tape

UL 746C, Polymeric Materials – Use in Electrical Equipment Evaluations

UL 758, Appliance Wiring Materia

UL 817, Cord Sets and Power-Supply Cords

UL 840. Insulation Coordination Including Clearances and Creepage Distances for Electrical Equipment

UL 969, Marking and Labeling Systems

UL 1998. Software in Programmable Components

Software Cybersecurity for Network-Connectable Products, Part 1: General Requirements **UL 5500, Remote Software Updates** 

10.1 The gauge and insulation of wires shall withstand the mechanical and electrical stresses of service. Wires smaller than 24 AWG (0.21 mm<sup>2</sup>) shall be investigated evaluated for the application.

14.1 An arc-fault circuit-interrupter that employs a programmable component such as a microprocessor shall be investigated in accordance with the Standard for Software in Programmable Components, evaluated to UL 1998, as defined in 14.2 – 14.8.

17.4.2 The tightening torgue for a field wiring terminal shall be in accordance with the Standard for Wire Connectors, UL 486A-486B, the Standard for Equipment Wiring Terminals for Use with Aluminum and/or Copper Conductors, UL 486E, UL 486A-486B, UL 486E, or as specified by the device manufacturer, and the device shall be marked as required by <u>63.5</u>. The specified tightening torque shall not be less than 90 percent and not more than 100 percent of the value used in the static heating test as specified in UL 486A-486B or UL 486E, for the wire size corresponding to the ampere rating of the device. See fromulseine Mechanical Tests, Section 55. Torque values shall be permitted to be less than 90 percent if the connector is investigated in accordance evaluated with the lesser assigned torque value.

### 68 Installation Instructions/Owner's Manual Installation Instructions and Owner's Manual

- 68.1 The installation instructions of an arc-fault circuit-interrupter shall contain the following:
  - a) Manufacturer's name and complete address.

ssion b) Type designation (such as Branch/Feeder AFCI) and catalog number or other specific identification.;

c) Intended conductor material, wire type, and wire size-;

d) Electrical ratings in amperes, volts, and frequency. The load capacity as required by 61.2 shall be in watts-;

- e) Cable preparation (strip length, required slack, tools, and the like)-

Note from Project Manager: The following Supplements will be re-titled as Annexes. Each Annex must be designated as Normative or Informative. The modifications to the titles of the Supplements are shown below.

### SUPPLEMENT SA ANNEXA (Normative) – AFCIs RATED 120/240 V

SA1.3 Arc-fault circuit-interrupters meeting the requirements of this Supplement Annex shall be suitable for use on only 120/240 v single-phase systems unless they also meet the additional requirements of SA4.4.

SA4.4 An AFC intended for use on 208Y/120 V three-phase systems shall also meet the performance requirements of this Supplement Annex when connected to a 208Y/120 V power supply.

#### SUPPL EMENT SB ANNEX B (Normative) – LEAKAGE-CURRENT DETECTOR-INTERRUPTERS (LCDIs)

SB1.2 Leakage-Current Detector-Interrupters (LCDIs) shall comply with the preceding section of this Standard, as modified or supplemented by the requirements of this Supplement in this Annex.

SB2.1 For the purposes of this Supplement Annex, the following definitions apply.

### SUPPLEMENT SC ANNEX C (Normative) – REMOTE UPDATE OF SAFETY SOFTWARE

SC3.1 An AFCI that employs a programable component capable of remote software updates. shall be investigated in accordance with the Standard for Software in Programmable Components, shall be

evaluated to UL 1998, except as modified by this Supplement Annex. These requirements supersede the Programmable Components requirements in the main section of UL 1699.

SC3.3 The remote software update shall comply with the Standard for Remote Software Updates, UL 5500, as modified by this Supplement Annex.

fromulseine SC7.1 The product instructions shall follow the appropriate standards referenced in this Supplement SC Annex.

### APPENDIX A

#### **Standards for Components**

Standards under which components of the products covered by this standard following:

Title of Standard - UL Standard Designation

evaluated include Appliance Wiring Material - UL 758 Attachment Plugs and Receptacles - UL 498 Cord Sets and Power-Supply Cords - UL 817 Enclosures for Electrical Equipment, Non-Environmental 111 50E Enclosures for Electrical Equipment, Environmental Considerati Flexible Cords and Cables - UL 62 Insulation Coordination Including Clearances and Creepage Distances for Electrical Equipment - UL 840 Marking and Labeling Systems - UL 969 Polymeric Materials - Use in Electrical Equipment 746C Switches, Snap, General-Use - UL 20 Tape, Polyvinyl Chloride, Polyethylene, and Rubber Insulating 510 Wire Connectors - UL 486A-486B Wiring Terminals for Use with Aluminum or Copper Conductors Equipment - UL 486E

### 3. Alternative indicator for the Dust Test – Talcum Powder

### PROPOSAL

57.4 As an alternative to the Dost Test procedure using cement dust in 57.1 - 57.3, the devices may be ULSE INC. CODVIDENTED MALE subjected to the Dust Test using talcum powder for the first characteristic numeral 5 as specified in Table

### BSR/UL 1740, Standard for Safety for Safety for Robotics and Robotic Equipment

### 1. Removal of word "referee"

### PROPOSAL

ission from U.St. Inc. 45.11 When thermocouples are used to determine temperatures in electrical equipment, it is common practice to employ thermocouples consisting of iron and constantan wires (Type J), or similar suitable types, and a potentiometer-type instrument. Such equipment is to be used whenever referee temperature measurements by thermocouples are necessary.

### 2. Removal of Appendix A

### PROPOSAL

### **5 Undated References**

5.1 Any undated reference to a code or standard appearing in the requirements of this standard shall be interpreted as referring to the latest edition of that code or standard.

5.2 The following publications are referenced in this Standard:

ANSI Z97.1, Safety Glazing Materials Used in Buildings – Safety Performance Specifications and Methods of Test

ANSI/CSA FC 1, Fuel cell technologies - Part 3-100: Stationary fuel cell power systems

ASTM E230/E230M, Standard Specification for Temperature-Electromotive Force (emf) Tables for Standardized Thermocouples

IEC 60529, Degrees of protection provided by enclosures (IP Code)

IEC 60584-1, Thermocouples - Part 1: EMF specifications and tolerances

<u>IEC 60947-1. Low-voltage switchgear and controlgear - Part 1: General rules</u>

ISA 12.12.01, Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III. Divisions 1 and 2 Hazardous (Classified) Locations

ISO 10218-1, Robots and robotic devices - Safety requirements for industrial robots - Part 1: Robots ISO 10218-2, Robots and robotic devices - Safety requirements for industrial robots - Part 2: Robot systems and integration

<u>ISO 13850, Safety of machinery — Emergency stop function — Principles for design</u>

JIS C 1602, Thermocouples

NFPA 70, National Electric Code

NFPA 79, Electrical Standard for Industrial Machinery

NPFA 496, Standard for Purged and Pressurized Enclosures for Electrical Equipment

UL 50, Enclosures for Electrical Equipment, Non-Environmental Considerations

UL 50E, Enclosures for Electrical Equipment, Environmental Considerations

UL 94, Standard for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances

UL 310, Standard for Electrical Quick-Connect Terminals

UL 508, Standard for Industrial Control Equipment

UL 508A, Standard for Industrial Control Panels

UL 674, Electric Motors and Generators for Use in Hazardous (Classified) Locations

UL 746C, Standard for Polymeric Materials - Use in Electrical Equipment Evaluations

UL 796, Standard for Printed-Wiring Boards

UL 840, Standard for Insulation Coordination Including Clearances and Creepage Distances for Electrical <u>Equipment</u>

UL 900, Air Filter Units

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

UL 969, Standard for Marking and Labeling Systems

UL 1004-1, Rotating Electrical Machines - General Requirements

UL 1004-3, Thermally Protected Motors

UL 1063, Standard for Machine-Tool Wires and Cables

UL 1203, Explosion Proof and Dust-Ignition Proof Electrical Equipment for Use in Hazardous (Classified) Locations

UL 1642, Standard for Lithium Batteries

UL 1973, Batteries for Use in Stationary and Motive Auxiliary Power Applications

UL 1989. Standard for Valve Regulated or Vented Batteries with Agueous Electrolytes

UL 2054, Standard for Household and Commercial Batteries

UL 2267, Standard for Fuel Cell Power Systems for Installation in Industrial Electric Trucks

UL 2271, Batteries for Use in Light Electric Vehicle (LEV) Applications

UL 2580, Batteries for Use in Electric Vehicles

UL 60086-4, Primary Batteries - Part 4: Safety of Lithium Batteries

UL 60384-14, Safety Requirements for Fixed Capacitors for Use in Electronic Equipment - Part 14:

UL 62133-2, Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from Them, for Use in Portable Applications - Part 2: Lithium Systems 21 CFR Part 1020, Performance Standards for leaders .permission from

21 CFR Part 1040, Performance Standards for Light-Emitting Products

### Appendix A

### Standards for Components

Standards under which components of the products covered by this standard are evaluated include the following: ctionwith following:

Title of Standard - UL Standard Designation

Air Filter Units - UL 900

Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy - UL 61800-5-1

Adjustable Speed Electrical Power Drive Systems - Part 5-2: Safety Requirements - Functional -UL 61800-5-2

Audio, Video and Similar Electronic Apparatus – Safety Requirements – UL 60065 Batteries, Lithium - UL 1642

Batteries for Use in Light Electric Rail (LER) Applications and Stationary Applications – UL 1973-Batteries for Use In Light Electric Vehicle (LEV) Applications - UL 2271

Batteries for Use In Electric Vehicles - UL 2580

Cable Assemblies and Fittings for Industrial Control and Signal Distribution - UL 2238-Capacitors - UL 810

Circuit Breakers, Molded-Case, Molded-Case Switches, and Circuit-Breaker Enclosures -- UL 489-

Component Connectors for Use in Data, Signal, Control and Power Applications - UL 1977

Controllers. Programmable – Part 2: Equipment Requirements and Tests – UL 61131-2

Controls for Household and Similar Use, Part 1: General Requirements, Automatic Electrical - UL 60730-1 and/or the applicable Part 2 standard from the UL 60730 series

Electrical Equipment for Measurement, Control, and Laboratory Use, Safety Requirements for - Part 2-201: Particular Requirements for Control Equipment – UL 61010-2-201

Electro-Sensitive Protective Equipment, Part 1: General Requirements and Tests - UL 61496-1-

Electro-Sensitive Protective Equipment, Part 2: Particular Requirements for Equipment Using Active Opto-Electronic Protective Devices (AOPDs) – UL 61496-2

Electromagnetic Interference Filters – UL 1283

Electrical Systems for Personal E-Mobility Devices – UL 2272

Enclosures for Electrical Equipment, Environmental Considerations – UL 50E

Enclosures for Electrical Equipment, Non-Environmental Considerations – UL 50

Eittings, Conduit, Tubing, and Cable – UL 514B

Fixed Capacitors for Use in Electronic Equipment - Part 14: Sectional Specification: Fixed Capacitors for Electromagnetic Interference Suppression and Connection to the Supply Mains - UL 60384-14

Flexible Cords and Cables - UL 62

Fuel Cell Power Systems for Installation in Industrial Electric Trucks – UL 2267

Fuseholders - Part 1: General Requirements - UL 4248-1

Fuses, Low Voltage, Part 1: General Requirements - UL 248-1

- Fuses, Low Voltage, Part 4: Class CC UL 248-4-
- Fuses, Low Voltage, Part 8: Class J UL 248-8
- Fuses, Low Voltage, Part 9: Class K UL 248-9

Fuses, Low Voltage, Part 10: Class L – UL 248-10

Fuses, Low Voltage, Part 12: Class R - UL 248-12 Fuses, Low Voltage, Part 13: Semiconductor Fuses-UL 248-13 Fuses, Low Voltage, Part 14: Supplemental Fuses - UL 248-14 Fuses, Low Voltage, Part 15: Class T - UL 248-15 Household and Commercial Batteries – UL 2054 Impedance Protected Motors – UL 1004-2 Industrial Control Equipment – UL 508 Elne Information Technology Equipment - Safety - Part 1: General Requirements - UL 60950-1 Insulation Coordination Including Clearances and Creepage Distances for Electrical Equipment -840 Low-Voltage Switchgear and Controlgear - Part 4-1: Contactors and Motor-Starters - Electromechanical Contactors and Motor-Starters - UL 60947-4-1 Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements Electromechanical Control Circuit Devices - UL 60947-5-1 Low-Voltage Switchgear and Controlgear - Part 5-2: Control Circuit Devices and Switching Elements Proximity Switches – UL 60947-5-2 Marking and Labeling Systems – UL 969 Multi-Point Interconnection Power Cable Assemblies For Industrial Machinery, Outline of Investigation for <u>\_11 2237</u> Plastic Materials for Parts in Devices and Appliances, Tests for Flammability of UL 94 ithou Polymeric Materials - Long Term Property Evaluations - UL 746B Polymeric Materials - Short Term Property Evaluations - UL 746A Polymeric Materials – Use in Electrical Equipment Evaluations – UL 746C-Portable Sealed Secondary Cells, and for Batteries Made From Them, for Use in Portable Applications -UL 62133 Power Units Other Than Class 2 – UL 1012 Printed-Wiring Boards – UL 796 Protectors, for Use in Electrical Equipment, Supplementary – UL 1077 Rotating Electrical Machines – General Requirements – UL 1004-1 Service Equipment, Reference Standard for - UL 869A Software in Programmable Components - UL 1998 Surge Protective Devices - UL 1449 Switches, Enclosed and Dead-Front - UL 98-Switchgear and Controlgear, Low-Voltage - Part 1: General Rules - UL 60947-1 Systems of Insulating Materials - General - UL 1446-Temperature-Indicating and -Regulating Equipment – UL 8731) Terminal Blocks – UL 1059 Terminals, Electrical Quick-Connect UL 310-Tests for Safety-Related Controls Employing Solid-State Devices – UL 991 Thermally Protected Motors – UL 1004-3 Transformers, Low Voltage Part 1: General Requirements – UL 5085-1 Transformers, Low Voltage - Part 2: General Purpose Transformers - UL 5085-2 Transformers, Low Voltage – Part 3: Class 2 and Class 3 Transformers – UL 5085-3 Wire Connectors - UL 486A-486B-Wires and Cables, Machine Tool – UL 1063 Wires and Cables, Thermoplastic-Insulated – UL 83-Wires, Electrical, Cables, and Flexible Cords, Reference Standard for - UL 1581 Wiring Terminals for Use With Aluminum and/or Copper Conductors, Equipment – UL 486E 1) Note: Compliance with the UL 60730-1, and/or the applicable Part 2 standard from the UL 60730 series fulfills these requirements. ULSEINC