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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.

AAFS (American Academy of Forensic Sciences)

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

New Standard

BSR/ASB Std 197-202x, Standard for the Examination of Digitally Captured Signatures (new standard)

Stakeholders: Forensic Document Examiners in the private and public sectors, businesses, financial institutions, and the technology developers.

Project Need: DCSs are being increasingly deployed and used as an alternative to pen & paper signatures, hence there is an increasing demand for the forensic examination of such signatures. There is a need for a scientific standardized approach to the forensic examination and comparison of DCSs.

Interest Categories: Academics and Researchers, General Interest, Jurisprudence and Criminal Justice, Organizations, Producer, User - Government, User - Non-Government

This standard provides procedures for forensic document examiners to conduct examinations and comparisons of Digitally Captured Signatures (DCSs).

AAMI (Association for the Advancement of Medical Instrumentation)

Chenai Maguwah <cmaguwah@aami.org> | 901 N. Glebe Road, Suite 300 | Arlington, VA 22203 www.aami.org

National Adoption

BSR/AAMI/ISO 10993-2-202x, Biological evaluation of medical devices — Part 2: Animal welfare requirements (identical national adoption of ISO 10993-2:2022 and revision of ANSI/AAMI/ISO 10993-2-2006 (R2014))

Stakeholders: Regulators, Medical Device Manufacturers, Toxicologists

Project Need: AAMI adopts the ISO 10993 series of documents to standardize requirements for biological and clinical evaluation of medical devices

Interest Categories: Industry, User, Regulatory, General and Other

This document specifies the minimum requirements to be satisfied to ensure and demonstrate that proper provision has been made for the welfare of animals used in animal tests to assess the biocompatibility of materials used in medical devices. It is aimed at those who commission, design and perform tests or evaluate data from animal tests undertaken to assess the biocompatibility of materials intended for use in medical devices, or that of the medical devices themselves.

AAMI (Association for the Advancement of Medical Instrumentation)

Chenai Maguwah <cmaguwah@aami.org> | 901 N. Glebe Road, Suite 300 | Arlington, VA 22203 www.aami.org

National Adoption

BSR/AAMI/ISO 10993-10-202x, Biological evaluation of medical devices — Part 10: Tests for skin sensitization (identical national adoption of ISO 10993-10:2021 and revision of ANSI/AAMI/ISO 10993-10:2010 (R2014))

Stakeholders: Regulators, Medical Device Manufacturers, Toxicologists

Project Need: AAMI adopts the ISO 10993 series of documents to standardize requirements for biological and clinical evaluation of medical devices

Interest Categories: Industry, User, Regulatory, General and Other

This document specifies the procedure for the assessment of medical devices and their constituent materials with regard to their potential to induce skin sensitization.

This document includes:

- details of in vivo skin sensitization test procedures;
- key factors for the interpretation of the results.

AAMI (Association for the Advancement of Medical Instrumentation)

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National Adoption

BSR/AAMI/ISO 10993-12-202x, Biological evaluation of medical devices — Part 12: Sample preparation and reference materials (identical national adoption of ISO 10993-12:2021 and revision of ANSI/AAMI/ISO 10993-12:2012)

Stakeholders: Regulators, Medical Device Manufacturers, Toxicologists

Project Need: AAMI adopts the ISO 10993 series of documents to standardize requirements for biological and clinical evaluation of medical devices

Interest Categories: Industry, User, Regulatory, General and Other

This document specifies requirements and gives guidance on the procedures in the preparation of samples and the selection of reference materials for medical device testing primarily in biological test systems primarily in accordance with one or more parts of the ISO 10993 series. Specifically, this document addresses the following:

- test sample selection;
- selection of representative portions from a medical device;
- test sample preparation;
- experimental controls;
- selection of, and requirements for, reference materials;
- preparation of extracts.

AAMI (Association for the Advancement of Medical Instrumentation)

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National Adoption

BSR/AAMI/ISO 22442-1-202x, Medical devices utilizing animal tissues and their derivatives — Part 1: Application of risk management (identical national adoption of ISO 22442-1:2020 and revision of ANSI/AAMI/ISO 22442-1-2016)

Stakeholders: Regulators, Medical Device Manufacturers, Toxicologists

Project Need: AAMI adopts the ISO 22442 series of documents to standardize requirements for biological and clinical evaluation of medical devices

Interest Categories: Industry, User, Regulatory, General and Other

This document applies to medical devices other than in vitro diagnostic medical devices manufactured utilizing materials of animal origin, which are non-viable or have been rendered non-viable. It specifies, in conjunction with ISO 14971, a procedure to identify the hazards and hazardous situations associated with such devices, to estimate and evaluate the resulting risks, to control these risks, and to monitor the effectiveness of that control. Furthermore, it outlines the decision process for the residual risk acceptability, taking into account the balance of residual risk, as defined in ISO 14971, and expected medical benefit as compared to available alternatives.

AAMI (Association for the Advancement of Medical Instrumentation)

Chenai Maguwah <cmaguwah@aami.org> | 901 N. Glebe Road, Suite 300 | Arlington, VA 22203 www.aami.org

National Adoption

BSR/AAMI/ISO 22442-2-202x, Medical devices utilizing animal tissues and their derivatives — Part 2: Controls on sourcing, collection and handling (identical national adoption of ISO 22442-2:2020 and revision of ANSI/AAMI/ISO 22442-2-2016)

Stakeholders: Regulators, Medical Device Manufacturers, Toxicologists

Project Need: AAMI adopts the ISO 22442 series of documents to standardize requirements for biological and clinical evaluation of medical devices

Interest Categories: Industry, User, Regulatory, General and Other

This document specifies requirements for controls on the sourcing, collection, and handling (which includes storage and transport) of animals and tissues for the manufacture of medical devices utilizing materials of animal origin other than in vitro diagnostic medical devices. It applies where required by the risk management process as described in ISO 22442 1.

AWS (American Welding Society)

Kevin Bulger <kbulger@aws.org> | 8669 NW 36th Street, Suite 130 | Miami, FL 33166-6672 www.aws.org

Revision

BSR/AWS A5.31M/A5.31-202x, Specification for Fluxes for Brazing and Braze Welding (revision of ANSI/AWS A5.31M/A5.31-2022)

Stakeholders: Brazers, Manufacturers, Consumers

Project Need: This specification prescribes the requirements for the classification of brazing fluxes used with brazing or braze welding filler metals such as those classified in AWS A5.8M/A5.8, Specification for Filler Metals for Brazing and Braze Welding.

Interest Categories: Producers, users, educators, general interest, and distributors.

This specification prescribes the requirements for classification of eighteen fluxes for brazing and braze welding. They are classified according to the filler metal, form, and activity temperature range. Classification is in accordance with a classification system that employs the designator "FB" to indicate fluxes for brazing and braze welding applications. In addition to selected tests for each classification, major topics include general requirements, testing procedures, and packaging requirements. A guide is appended to the specification as a source of information concerning the classification system employed and the intended use of the brazing fluxes. This specification makes use of both U.S. Customary Units and the International System of Units (SI). Since these are not equivalent, each system must be used independently of the other.

CSA (CSA America Standards Inc.)

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

National Adoption

BSR/CSA FC 6 CSA C22.2 No. 62282-2-100-202x, Fuel cell technologies - Part 2-100: Fuel cell modules - Safety (IEC 62282-2-100:2020, MOD) (national adoption of IEC 62282-2-100 with modifications and revision of ANSI/CSA FC 6 -2018)

Stakeholders: Consumers, manufacturers, regulators, and users.

Project Need: The development of this standard will support the safe deployment and the use of product which utilize fuel cell and water electrolysis modules. This conformity assessment standard will be updated to include technology advancement since the previous edition, CSA/ANSI FC 6. It will meet the strategic needs of the following key interests: a) ensuring that the latest innovative/technology/safety features are available for users, b) addressing needs of regulators by providing suitable requirements; and c) supporting certification bodies.

Interest Categories: Consumers, manufacturers, regulators, and users.

This part of IEC 62282 provides safety related requirements for construction, operation under normal and abnormal conditions and the testing of fuel cell and water electrolysis modules. It applies to fuel cell and water electrolysis modules with the following electrolyte chemistry: alkaline; polymer electrolyte (including direct methanol fuel cells); phosphoric acid; molten carbonate; solid oxide; aqueous solution of salts. Fuel cell and water electrolysis modules can be provided with or without an enclosure and can be operated at significant pressurization levels or close to ambient pressure. This document deals with conditions that can yield hazards to persons and cause damage outside the fuel cell and water electrolysis modules. Protection against damage inside the fuel cell and water electrolysis modules are not addressed in this document, provided it does not lead to hazards outside the module. These requirements can be superseded by other standards for equipment containing fuel cell modules or water electrolysis modules as required for particular applications. This document does not cover fuel cell road vehicle applications. The fuel cell modules and water electrolysis modules are components of final products. These products require evaluation according to appropriate end-product safety requirements.

ICC (International Code Council)

Karl Aittaniemi <kaittaniemi@iccsafe.org> | 4051 Flossmoor Road | Country Club Hills, IL 60478 www.iccsafe.org

New Standard

BSR/ICC 1500-202x, Standard for Existing Building Safety Inspection (new standard)

Stakeholders: Public health officials, engineers, designers, contractors, consultants, inspectors, manufacturers, operators, builders, owners, standard development organizations, users, building and fire officials and other governmental (or regulatory) authorities.

Project Need: Maintaining the integrity of the structural, fire/life safety, envelope, plumbing, mechanical, electric, and fuel gas equipment of a building throughout its life is of significant importance. Inspections could identify where unsafe conditions may exist. The International Property Maintenance Code (IPMC) requires both the interior and exterior of the building to be maintained in good repair and structurally sound and not pose a threat to public health, safety and welfare. Unsafe structures and equipment are addressed in Section 111 of the IPMC.

Interest Categories: Manufacturer, Builder, Test Laboratory/Standards Promulgator, User, Utility, Consumer, Govt Regulator, Insurance

As an ANSI-accredited SDO, ICC is developing a new standard to provide the framework for the regular inspection of structural elements, egress components, active and passive fire protection systems, the building envelope (including the roof), electrical, plumbing, mechanical and fuel gas equipment and systems in order to assess whether an unsafe condition exists.

ISA (Organization) (International Society of Automation)

Charley Robinson <crobinson@isa.org> | 3252 S. Miami Blvd, Suite 102 | Durham, NC 27703 www.isa.org

Revision

BSR/ISA 96.03.02-202x, Guidelines for the Specification of Pneumatic Rack and Pinion Valve Actuators (revision of ANSI/ISA 96.03.02-2015)

Stakeholders: Primarily manufacturers and users of Pneumatic Rack and Pinion Valve Actuators in industrial applications.

Project Need: Revise and update 2015 version.

Interest Categories: Producers/manufacturers, end-users, general/consultants, and architects-engineers.

This standard provides general requirements for the development of specifications for pneumatic rack and pinion valve actuators.

ISA (Organization) (International Society of Automation)

Charley Robinson <crobinson@isa.org> | 3252 S. Miami Blvd, Suite 102 | Durham, NC 27703 www.isa.org

New Standard

BSR/ISA 96.03.03-202x, Guidelines for the Specification of Pneumatic Vane Type Valve Actuators (new standard)

Stakeholders: Primarily manufacturers and users of pneumatic vane type valve actuators in industrial applications.

Project Need: Create a new standard to replace the 2013 version that is no longer an ANSI standard.

Interest Categories: Producers/manufacturers, end-users, general/consultants, and architects-engineers.

The standard will provide guidelines for specifying pneumatic vane type valve actuators used in industrial applications.

NEMA (ASC C136) (National Electrical Manufacturers Association)

David Richmond <David.Richmond@nema.org> | 1300 North 17th Street, Suite 900 | Rosslyn, VA 22209 www.nema.org

Revision

BSR C136.22-202X, Roadway and Area Lighting Equipment - Internal Labeling of Luminaires (revision of ANSI C136.22-2019)

Stakeholders: Luminaire Manufactures, Utilities, End Users

Project Need: The language in this document needs to updated to reflect the use of new lighting technologies and control schemes.

Interest Categories: Producer Luminaire, Producer Other, Producer Poles, User, and General Interest

This Standard covers internal luminaire identification labels for all styles of luminaires used for roadway lighting.

NEMA (ASC C136) (National Electrical Manufacturers Association)

David Richmond <David.Richmond@nema.org> | 1300 North 17th Street, Suite 900 | Rosslyn, VA 22209 www.nema.org

Revision

BSR C136.25-202x, Roadway And Area Lighting - Ingress Protection (Resistance To Dust, Solid Objects, And Moisture) For Luminaire Enclosures And Devices (revision of ANSI C136.25-2019)

Stakeholders: Luminaire Manufacturers, Utilities, End Users

Project Need: This document needs to be updated to add ingress requirements for new roadway and area luminaire types.

Interest Categories: Producer Luminaire, Producer Other, Producer Polls, User, General Interest

This Standard details the requirements for ingress protection of luminaires in roadway and area lighting equipment, installed for their intended use and specified by end-user. While these requirements are suitable for most types of lighting equipment, it should not be assumed that all the listed degrees of protection apply to a particular type of equipment. The manufacturer of the equipment should be consulted to determine the degrees of protection available.

NEMA (ASC C136) (National Electrical Manufacturers Association)

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Revision

BSR C136.42-202X, Roadway and Area Lighting Equipment - Solid State Lighting Retrofit Kits (revision of ANSI C136.42-2018)

Stakeholders: Outdoor Lighting manufacturers, Authorities Having Jurisdiction (AHJ), Public Utilities, municipalities

Project Need: This project is needed to update the standard to address changes to normative references.

Interest Categories: Producer Luminaire, Producer Other, Producer Poles, User, and General Interest

This Standard defines the mechanical and electrical requirements for transforming an installed HID roadway and area luminaire to a Solid State roadway and area luminaire. This Standard is limited to non-screw-base retrofit kits only.

SAIA (ASC A11) (Scaffold & Access Industry Association)

Celeste Ortiz <celeste@saiaonline.org> | 400 Admiral Boulevard | Kansas City, MO 64106 www.saiaonline.org

Revision

BSR/SAIA A11.1-202x, Standards for Testing and Rating Scaffold Assemblies and Components (revision of ANSI/SAIA A11.1-2019)

Stakeholders: Manufacturers, purchasers and users of scaffold assemblies and components

Project Need: To test and rate scaffold components and assemblies

Interest Categories: Producers, users, and general interest.

This standard provides methods for testing and rating the performance of the following:

- Tube and Coupler Scaffold Components
- Welded Frame Scaffold Assemblies
- System Scaffold Assemblies and Components
- Guardrail Scaffold Components
- Screwjack Scaffold Components
- Caster (with Lever Actuated Brake and Swivel Lead) Scaffold Components
- Putlog Scaffold Assemblies
- Side and End Bracket Scaffold Components
- Mobile Work Stands
- Attachable Ladder Scaffold Assemblies and Components
- Base Widening Outrigger Scaffold Components
- Stair Units

SAIA (ASC A11) (Scaffold & Access Industry Association)

Celeste Ortiz <celeste@saiaonline.org> | 400 Admiral Boulevard | Kansas City, MO 64106 www.saiaonline.org

Revision

BSR/SAIA A11.2-202x, Standards for Testing & Rating Shoring Equipment (revision of ANSI/SAIA A11.2-2023)

Stakeholders: Manufacturers, purchasers and users of shoring equipment.

Project Need: This standard contains procedures for testing and rating shoring equipment.

Interest Categories: Producer, User, General Interest.

This standard provides methods for testing and rating the following:

- Vertical shoring posts, frames, assemblies, and components
- Horizontal shoring beams and assemblies
- Truss assemblies used with horizontal shoring
- Column or wall mounted shoring

SAIA (ASC A92) (Scaffold & Access Industry Association)

Celeste Ortiz <celeste@saiaonline.org> | 400 Admiral Boulevard | Kansas City, MO 64106 www.saiaonline.org

Revision

BSR/SAIA A92.2-202x, Standard for Vehicle-Mounted Elevating and Rotating Aerial Devices (revision of ANSI/SAIA A92.2-2021)

Stakeholders: Manufacturers, dealers, brokers, installers, lessees, lessors, maintenance personnel, operators, owners, and users

Project Need: To revise a previously approved standard.

Interest Categories: Consumer/Users; Directly Affected Public Distributors and Dealers; Consultants; Government (users, general interest); Industrial/Commercial; Labor; Manufacturers; Regulatory Agencies; Testing Laboratories; Not-For-Profit/Professional Societies; Component ManufacturersA

This standard relates to the following types of vehicle-mounted aerial devices: (1) Extensible boom; (2) Aerial ladders; (3) Articulating boom; (4) Vertical towers; (5) A combination of any of the above. The vehicle may be a truck, a trailer, or an all-terrain vehicle.

SAIA (ASC A92) (Scaffold & Access Industry Association)

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Revision

BSR/SAIA A92.20-202x, Design, Calculations, Safety Requirements and Test Methods for Mobile Elevating Work Platforms (MEWPs) (revision of ANSI/SAIA A92.20-2021)

Stakeholders: Manufacturers, remanufacturers, engineers and designers of MEWPs

Project Need: To revise a previously approved standard.

Interest Categories: Consumer/Users; Directly Affected Public Distributors and Dealers; Consultants; Government (users, general interest); Industrial/Commercial; Labor; Manufacturers; Regulatory Agencies; Testing Laboratories; Not-For-Profit/Professional Societies; Component Manufacturers

Specifies safety requirements and preventive measures, and the means for their verification, for certain types and sizes of mobile elevating work platforms (MEWPs) intended to position personnel, along with their necessary tools and materials, at work locations. It contains the structural design calculations and stability criteria, construction, safety examinations and tests that shall be applied before a MEWP is first put into service

SAIA (ASC A92) (Scaffold & Access Industry Association)

Celeste Ortiz <celeste@saiaonline.org> | 400 Admiral Boulevard | Kansas City, MO 64106 www.saiaonline.org

Revision

BSR/SAIA A92.22-202x, Safe Use of Mobile Elevating Work Platforms (MEWPs) (revision of ANSI/SAIA A92.22-2021)

Stakeholders: Designers, Manufacturers, Dealers, Owners, Users, Supervisors, Operators, Lessors, Lessees and Brokers of Mobile Elevating Work Platforms (MEWPs) within the standard(s) scope(s).

Project Need: To revise a previously approved standard.

Interest Categories: Consumer/Users; Directly Affected Public Distributors and Dealers; Consultants; Government (users, general interest); Industrial/Commercial; Labor; Manufacturers; Regulatory Agencies; Testing Laboratories; Not-For-Profit/Professional Societies; Component Manufacturers

Specifies requirements for application, inspection, training, maintenance, repair and safe operation of Mobile Elevating Work Platforms (hereafter known as MEWPs).

SAIA (ASC A92) (Scaffold & Access Industry Association)

Celeste Ortiz <celeste@saiaonline.org> | 400 Admiral Boulevard | Kansas City, MO 64106 www.saiaonline.org

Revision

BSR/SAIA A92.24-202x, Training Requirements for the Use, Operation, Inspection, Testing and Maintenance of Mobile Elevating Work Platforms (MEWPs) (revision of ANSI/SAIA A92.24-2018)

Stakeholders: manufacturers, dealers, owners, users, supervisors, operators, occupants, lessors, lessees, and brokers

Project Need: To revise a previously approved standard.

Interest Categories: Consumer/Users; Directly Affected Public Distributors and Dealers; Consultants; Government (users, general interest); Industrial/Commercial; Labor; Manufacturers; Regulatory Agencies; Testing Laboratories; Not-For-Profit/Professional Societies; Component Manufacturers

Provides methods and guidelines to prepare MEWP training materials, defines administrative criteria, and delivers elements required for proper training and familiarization. It applies to all types and sizes of MEWPs as specified in ANSI/SAIA A92.20 (design, calculations, safety requirements and test methods) that are intended to position personnel, along with their necessary tools and materials, at work locations.

SCTE (Society of Cable Telecommunications Engineers)

Natasha Aden <naden@scte.org> | 140 Philips Road | Exton, PA 19341-1318 www.scte.org

Revision

BSR/SCTE 172 202x-202x, Constraints on NAL Structured Video Coding for Digital Program Insertion (revision of ANSI/SCTE 172-2017)

Stakeholders: Cable Telecommunications Industry

Project Need: Update to current technology

Interest Categories: General Interest, Producer, User

This document defines additional video coding and transport constraints on [SCTE 128-1] and [SCTE 128-2] (which constrains ITU-T H.264/ ISO/IEC [14496-10] (“AVC”) video compression [14496-10] or on [SCTE 215-1], [SCTE 215-1-1] [SCTE 215-1-1], and [SCTE 215-2] (which constrains ITU-T H.265/ISO/IEC [23008-2] (“HEVC”) video compression [23008-2]) or on [SCTE 281-1] and [SCTE 281-2] (which constrains ITU-T H.266/ ISO/IEC [23090-3] (“VVC”) video compression [23090-3]) for Digital Program Insertion applications using SCTE 35 messaging [SCTE 35] AVC, HEVC, VVC video uses a network abstraction layer structure to carry video and in this document “NAL structured video” will collectively refer to AVC, HEVC, and VVC Video. NOTE: This standard applies only when both the insertion content and the network both use AVC video coding, or both use HEVC video coding, or both use VVC video coding.

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: July 9, 2023

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/ASHE Addendum 170j-202x, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Standard 170-2021)

The standard currently addresses single occupancy patient care spaces for behavioral health settings in hospitals but does not address spaces where patient care areas where multiple patients assemble. This proposed addendum addresses the pressure relationship, ventilation, filtration, temperature, and humidity requirements for behavioral health multiple patient assembly areas by adding to Table 7-1.

[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 | etoto@ashrae.org, www.ashrae.org

Addenda

BSR/ASHRAE/IES Addendum h to ANSI/ASHRAE/IES Standard 90.1-202x, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2022)

This addendum adds language throughout the 90.1 mechanical provisions to clarify that on-site renewable energy used to meet the requirements of Section 10 or to gain energy credits in Section 11 cannot also be used to meet the exceptions to efficiency requirements in Sections 6 and 7.

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

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

Comment Deadline: July 9, 2023

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 i to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2022)

This addendum modifies the service water heating energy credit (measure W08) to reduce the maximum showerhead flow rate from 2.0 to 1.8 gpm, as 2.0 gpm is now the International Plumbing Code standard rate. Flow reduction replaces the previous method for meeting W08 which involved resizing the piping to reduce heat loss, a less effective strategy for saving energy.

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

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.)

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Addenda

BSR/ASHRAE/IES Addendum j to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2022)

Adds a new energy credit measure H01 for projects that use the Mechanical System Performance Rating Method for compliance. The addendum specifies how this measure can be achieved with a proposed system performance ratio that exceeds the required target, as well as the number of energy credits awarded per building type.

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

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

NSF (NSF International)

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

Revision

BSR/NSF 350-202x (i77r1), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2022)

This standard contains minimum requirements for onsite residential and commercial water reuse treatment systems. Systems include greywater treatment systems; residential wastewater treatment systems; and commercial treatment systems.

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

Send comments (copy psa@ansi.org) to: Jason Snider <jsnider@nsf.org>

Comment Deadline: July 9, 2023

ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Annabelle.Hollen@ul.org, <https://ulse.org/>

Revision

BSR/UL 401-202x, Standard for Portable Spray Hose Nozzles for Fire-Protection Service (revision of ANSI/UL 401-2022)

These requirements cover portable hand line spray hose nozzles intended for general fire fighting or for use with fire hose mounted on standpipe systems. Requirements for the installation and use of spray nozzles used in standpipe systems are intended to be in accordance with the Standard for Standpipe, and Hose Systems, NFPA 14. Nozzles covered by this Standard are intended to be inspected and maintained in accordance with Standard for the Inspection, Care and Use of Fire Hose, Couplings and Nozzles and the Service Testing of Fire Hose, NFPA 1962, and the Standard for the Inspection, Testing and Maintenance of Water-Based Fire Protection Systems, NFPA 25, when used in standpipe systems. Nozzles covered by this Standard are intended for use on: a) Class A common combustibles such as wood and paper, and B flammable liquid fires; or b) Class A, B, and C, if suitable for use on electrically energized fires.

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

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

ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | haley.callahan@ul.org, <https://ulse.org/>

Revision

BSR/UL 1740-202x, Standard for Safety for Robots and Robotic Equipment (revision of ANSI/UL 1740-2020)

The following changes in requirements are being proposed for your review: 1. General requirements for integration of robots 2. Requirements for end-effectors 3. Batteries and Battery Circuits 4. Clarification of water exposure requirements

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

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

Comment Deadline: July 24, 2023

AAMI (Association for the Advancement of Medical Instrumentation)

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

Reaffirmation

BSR/AAMI/ISO 10993-3-2014 (R202x), Biological evaluation of medical devices - Part 3: Tests for genotoxicity, carcinogenicity and reproductive toxicity (reaffirm a national adoption ANSI/AAMI/ISO 10993-3-2014)

Specifies strategies for hazard identification and tests on medical devices for genotoxicity, carcinogenicity, and reproductive and developmental toxicity.

Single copy price: \$266.00 (149.00 with AAMI membership)

Obtain an electronic copy from: <https://store.aami.org/s/store#/store/browse/detail/a152E000006j5rtQAA>

Send comments (copy psa@ansi.org) to: Chenai Maguwah <cmaguwah@aami.org>

Comment Deadline: July 24, 2023

AAMI (Association for the Advancement of Medical Instrumentation)

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

Reaffirmation

BSR/AAMI/ISO 10993-4-2017 (R202x), Biological evaluation of medical devices - Part 4: Selection of tests for interactions with blood (reaffirm a national adoption ANSI/AAMI/ISO 10993-4-2017)

This document specifies general requirements for evaluating the interactions of medical devices with blood.

Single copy price: \$266.00 (\$149.00 with AAMI membership)

Obtain an electronic copy from: <https://store.aami.org/s/store#/store/browse/detail/a152E000006j62oQAA>

Send comments (copy psa@ansi.org) to: Chenai Maguwah <cmaguwah@aami.org>

AAMI (Association for the Advancement of Medical Instrumentation)

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

Reaffirmation

BSR/AAMI/ISO 10993-5-2009 (R202x), Biological evaluation of medical devices - Part 5: Tests for in vitro cytotoxicity (reaffirm a national adoption ANSI/AAMI/ISO 10993-5-2009 (R2014))

This standard describes test methods to assess the in vitro cytotoxicity of devices. These methods specify the incubation of cultured cells either directly or through diffusion with extracts of the device, and/or in contact with a device. These methods are designed to determine the biological response of mammalian cells in vitro using appropriate biological parameters.

Single copy price: \$177.00 (\$102.00 with AAMI membership)

Obtain an electronic copy from: <https://store.aami.org/s/store#/store/browse/detail/a152E000006j62pQAA>

Send comments (copy psa@ansi.org) to: Chenai Maguwah <cmaguwah@aami.org>

AAMI (Association for the Advancement of Medical Instrumentation)

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

Reaffirmation

BSR/AAMI/ISO 10993-13-2010 (R202x), Biological evaluation of medical devices - Part 13: Identification and quantification of degradation products from polymeric medical devices (reaffirm a national adoption ANSI/AAMI/ISO 10993-13-2010 (R2014))

This standard describes general requirements for the design of tests in a simulated environment for identifying and quantifying degradation products from finished polymeric medical devices ready for clinical use.

Single copy price: \$125.00 (\$71.00 with AAMI membership)

Obtain an electronic copy from: <https://store.aami.org/s/store#/store/browse/detail/a152E000006j5roQAA>

Send comments (copy psa@ansi.org) to: Chenai Maguwah <cmaguwah@aami.org>

AAMI (Association for the Advancement of Medical Instrumentation)

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

Reaffirmation

BSR/AAMI/ISO 10993-14-2001 (R202x), Biological evaluation of medical devices - Part 14: Identification and quantification of degradation products from ceramics (reaffirm a national adoption ANSI/AAMI/ISO 10993-14-2001 (R2011))

This standard specifies two methods for obtaining solutions of degradation products from ceramics (including glasses) for the purposes of quantification.

Single copy price: \$125.00 (\$71.00 with AAMI membership)

Obtain an electronic copy from: <https://store.aami.org/s/store#/store/browse/detail/a152E000006j5rpQAA>

Send comments (copy psa@ansi.org) to: Chenai Maguwah <cmaguwah@aami.org>

Comment Deadline: July 24, 2023

AAMI (Association for the Advancement of Medical Instrumentation)

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

Reaffirmation

BSR/AAMI/ISO 10993-16-2020 (R202x), Biological evaluation of medical devices - Part 16: Toxicokinetic study design for degradation products and leachables (reaffirm a national adoption ANSI/AAMI/ISO 10993-16-2020)
This document provides principles on designing and performing toxicokinetic studies relevant to medical devices. Annex A describes the considerations for inclusion of toxicokinetic studies in the biological evaluation of medical devices.

Single copy price: \$143.00 (\$80.00 with AAMI membership)

Obtain an electronic copy from: <https://store.aami.org/s/store#/store/browse/detail/a152E00000A5cyZQAR>

Send comments (copy psa@ansi.org) to: Chenai Maguwah <cmaguwah@aami.org>

AAMI (Association for the Advancement of Medical Instrumentation)

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

Reaffirmation

BSR/AAMI/ISO 13022-2012 (R202x), Medical products containing viable human cells - Application of risk management and requirements for processing practices (reaffirm a national adoption ANSI/AAMI/ISO 13022-2012)

Specifies a procedure to identify the hazards and hazardous situations and to manage the risk associated with viable cellular component(s) of products regulated as medicinal products, biologics, medical devices and active implantable medical devices or combinations thereof. Covers viable human materials of autologous as well as allogeneic human origin.

Single copy price: \$266.00 (\$149.00 with AAMI membership)

Obtain an electronic copy from: <https://store.aami.org/s/store#/store/browse/detail/a152E000006j5rxQAA>

Send comments (copy psa@ansi.org) to: Chenai Maguwah <cmaguwah@aami.org>

AAMI (Association for the Advancement of Medical Instrumentation)

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

Reaffirmation

BSR/AAMI/ISO 22442-3-2007 (R202x), Medical devices utilizing animal tissues and their derivatives - Part 3: Validation of the elimination and/or inactivation of viruses and transmissible spongiform encephalopathy (TSE) agents (reaffirm a national adoption ANSI/AAMI/ISO 22442-3-2007 (R2016))

Specifies requirements for the validation of the elimination and/or inactivation of viruses and TSE agents during the manufacture of medical devices (excluding in-vitro diagnostic medical devices) utilizing animal tissue or products derived from animal tissue, which are non-viable or have been rendered non-viable. Does not cover other transmissible and non-transmissible agents.

Single copy price: \$177.00 (\$102.00 with AAMI membership)

Obtain an electronic copy from: <https://store.aami.org/s/store#/store/browse/detail/a152E000006j5sAQAA>

Send comments (copy psa@ansi.org) to: Chenai Maguwah <cmaguwah@aami.org>

Comment Deadline: July 24, 2023

ASABE (American Society of Agricultural and Biological Engineers)

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

Reaffirmation

BSR/ASABE/ISO 5687-202x OCT2018 (R202x), Equipment For Harvesting - Combine Harvesters - Determination And Designation Of Grain Tank Capacity And Unloading Device Performance (reaffirm a national adoption ANSI/ASAE 5687-OCT2018)

This standard specifies a preferred method for determining and designating the capacity and unloading rate of combine harvester grain tanks and unloading systems.

Single copy price: ASABE Members: \$54.00; Non ASABE Members: \$78.00

Obtain an electronic copy from: companion@asabe.org

Send comments (copy psa@ansi.org) to: Carla Companion <companion@asabe.org>

ASME (American Society of Mechanical Engineers)

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

Revision

BSR/ASME A17.2-202x, Guide for Inspection of Elevators, Escalators, and Moving Walks (revision of ANSI/ASME A17.2-2020)

This Guide covers recommended inspection and testing procedures for electric and hydraulic elevators, escalators, and moving walks required to conform to the Safety Code for Elevators and Escalators.

Single copy price: Free

Obtain an electronic copy from: <https://cstools.asme.org/cconnect/PublicReviewPage.cfm>

Send comments (copy psa@ansi.org) to: Riad Mohamed

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

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

Revision

BSR/ASSP A10.48-202X, Criteria for Safety Practices with the Construction, Demolition, Modification and Maintenance of Communication Structures (revision and redesignation of ANSI/ASSE A10.48-2016)

This standard establishes minimum criteria for safe work practices and training for personnel performing work on communication structures including antenna and antenna supporting structures, broad-cast and other similar structures supporting communication related equipment.

Single copy price: \$140.00

Obtain an electronic copy from: Tim Fisher at TFisher@ASSP.Org

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

ATIS (Alliance for Telecommunications Industry Solutions)

1200 G Street NW, Suite 500, Washington, DC 20005 | jhuynh@atis.org, www.atis.org

Stabilized Maintenance

BSR ATIS 0900101-2013 (S202x), Synchronization Interface Standard (stabilized maintenance of ANSI ATIS 0900101-2013 (R2018))

The revised standard describes synchronization interfaces for the North American digital telecommunication hierarchy. Compliance with this standard is necessary to achieve satisfactory interworking of telecommunications networks.

Single copy price: Free

Obtain an electronic copy from: jhuynh@atis.org

Send comments (copy psa@ansi.org) to: Jen Huynh <jhuynh@atis.org>

Comment Deadline: July 24, 2023

ATIS (Alliance for Telecommunications Industry Solutions)

1200 G Street NW, Suite 500, Washington, DC 20005 | jhuynh@atis.org, www.atis.org

Stabilized Maintenance

BSR ATIS 0900105.03-2013 (S202x), Synchronous Optical Network (SONET) - Jitter at Network Interfaces (stabilized maintenance of ANSI ATIS 0900105.03-2013 (R2018))

The purpose of this standard is to specify the mapping of payload signals into SONET signals, described in ATIS -0900105. These payload signals include time division multiplexed signals such as those from the asynchronous digital hierarchy described in ATIS-0600107, and packet-or cell-orientated payload data.

Single copy price: Free

Obtain an electronic copy from: jhuynh@atis.org

Send comments (copy psa@ansi.org) to: Jen Huynh <jhuynh@atis.org>

ATIS (Alliance for Telecommunications Industry Solutions)

1200 G Street NW, Suite 500, Washington, DC 20005 | jhuynh@atis.org, www.atis.org

Stabilized Maintenance

BSR ATIS 0900105.09-2013 (S202x), Synchronous Optical Network (SONET) - Network Element Timing and Synchronization (stabilized maintenance of ANSI ATIS 0900105.09-2013 (R2018))

This standard provides timing and synchronization specifications for SONET interfaces. Compliance with this standard is necessary to achieve satisfactory interworking of telecommunications networks. Formerly known as T1.105.09-1996(R2008).

Single copy price: Free

Obtain an electronic copy from: jhuynh@atis.org

Send comments (copy psa@ansi.org) to: Jen Huynh <jhuynh@atis.org>

AWWA (American Water Works Association)

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

Revision

BSR/AWWA B511-202x, Potassium Hydroxide (revision of ANSI/AWWA B511-2017)

This standard describes the use of potassium hydroxide (KOH), dry and liquid, for use in the treatment of potable water, wastewater, and reuse or reclaimed water.

Single copy price: Free

Obtain an electronic copy from: ETSsupport@awwa.org

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

AWWA (American Water Works Association)

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

Revision

BSR/AWWA B550-202x, Calcium Chloride (revision of ANSI/AWWA B550-2017)

This standard describes calcium chloride, CaCl₂, in powder, pellet, granule, flake, or briquette form for use in the treatment of potable water, wastewater, and reuse or reclaimed water.

Single copy price: Free

Obtain an electronic copy from: ETSsupport@awwa.org

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

Comment Deadline: July 24, 2023

NEMA (ASC C136) (National Electrical Manufacturers Association)

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

Revision

BSR C136.31-202X, Roadway and Area Lighting Equipment - Luminaire Vibration (revision of ANSI C136.31-2018)

This Standard covers the minimum vibration withstand capability and vibration test methods for roadway and area luminaires. This Standard is not intended to address natural or catastrophic disasters.

Single copy price: \$62.00

Obtain an electronic copy from: david.richmond@nema.org

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

ULSE (UL Standards & Engagement)

47173 Benicia Street, Fremont, CA 94538 | Derrick.L.Martin@ul.org, <https://ulse.org/>

New Standard

BSR/UL 746S-202x, Standard for Safety for the Evaluation of Sustainable Polymeric Materials for Use in Electrical Equipment (new standard)

The intent of this proposal is to publish a First Edition of the Standard for the Evaluation of Sustainable Polymeric Materials for use in Electrical Equipment, UL 746S.

Single copy price: Free

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

Send comments (copy psa@ansi.org) to: Derrick Martin; Derrick.L.Martin@ul.org

ULSE (UL Standards & Engagement)

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

New Standard

BSR/UL 2996-202X, Standard for Safety for In-Ground Boxes (new standard)

Topic 1. Proposed First Edition of the Standard for Safety for In-Ground Outlet Boxes

Single copy price: Free

Obtain an electronic copy from: csds.ul.com/home/proposalsdefault.aspx

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)

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

Reaffirmation

BSR/UL 1650-2019 (R202x), Standard for Portable Power Cable (reaffirmation of ANSI/UL 1650-2019)

This proposal covers: 1. Reaffirmation and continuance of the First Edition of the Standard for Portable Power Cable, UL 1650, as a standard.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/ProposalAvailable>

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>.

Comment Deadline: July 24, 2023

ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709 | ashley.seward@ul.org, <https://ulse.org/>

Reaffirmation

BSR/UL 60745-2-16-2018 (R202x), Hand-Held Motor-Operated Electric Tools - Safety - Part 2-16: Particular Requirements for Tackers (reaffirm a national adoption ANSI/UL 60745-2-16-2018)

1. Reaffirmation and continuance of the First Edition of the Standard for Hand-Held Motor-Operated Electric Tools - Safety - Part 2-16: Particular Requirements for Tackers, UL 60745-2-16, as an standard.

Single copy price: Free

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

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 | ashley.seward@ul.org, <https://ulse.org/>

Reaffirmation

BSR/UL 60745-2-16-2018 (R202x), Hand-Held Motor-Operated Electric Tools - Safety - Part 2-16: Particular Requirements for Tackers (reaffirmation of ANSI/UL 60745-2-16-2018)

1. Reaffirmation and continuance of the First Edition of the Standard for Hand-Held Motor-Operated Electric Tools - Safety - Part 2-16: Particular Requirements for Tackers, UL 60745-2-16, as an standard.

Single copy price: Free

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

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 | Annabelle.Hollen@ul.org, <https://ulse.org/>

Revision

BSR/UL 752-202x, Standard for Bullet-Resisting Equipment (revision of ANSI/UL 752-2006 (R2021))

These requirements cover materials, devices, and fixtures used to form bullet-resisting barriers which protect against robbery, holdup, or armed attack such as those by snipers. This standard can also be used to determine the bullet resistance of building components that do not fit the definition of equipment, such as windows, walls, or barriers made out of bullet resistant materials. This standard does not address personal protective equipment, such as body armor, helmets, and shields. As used in these requirements, the term “bullet-resisting” signifies that protection is provided against complete penetration, passage of fragments of projectiles, or spalling (fragmentation) of the protective material to the degree that injury would not be caused to a person standing directly behind the bullet-resisting barrier. These requirements also cover electrically-operated equipment, such as teller’s fixtures using electrically-driven deal trays or package passers, and intercommunication or other electrical equipment that is an integral part of the bullet-resisting product. The term “product” as used in this standard refers to all bullet-resisting equipment or any part thereof covered by this standard unless specifically noted otherwise.

Single copy price: Free

Obtain an electronic copy from: Annabelle Hollen, Annabelle.Hollen@ul.org, <https://csds.ul.com/Home/ProposalsDefault.aspx>

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

Comment Deadline: August 8, 2023

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 B1.20.3-1976 (R202x), Dryseal Pipe Threads (reaffirmation of ANSI/ASME B1.20.3-1976 (R2018))

This standard covers specifications for Dryseal Pipe Threads that are designed to seal pressure-tight joints without the necessity of using sealing compounds.

Single copy price: \$43.00

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

Send comments (copy psa@ansi.org) to: Daniel Papert <papertd@asme.org>

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 B94.9-2008 (R202x), Taps: Ground Thread with Cut Thread Appendix (Inch and Metric Sizes) (reaffirmation of ANSI/ASME B94.9-2008 (R2018))

This Standard covers various designs of standard taps, nomenclature, and definitions; the standard system of marking; and dimensions and tolerance tables for the types and styles of taps listed below.

Single copy price: \$65.00

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

Send comments (copy psa@ansi.org) to: Daniel Papert <papertd@asme.org>

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 B107.56-2018 (R202x), Body Repair Tools (reaffirmation of ANSI/ASME B107.56-2018)

"This Standard provides performance and safety requirements for body repair hammers, dolly blocks, and spoons that are intended specifically for the reshaping of sheet metal panels normally found on bodies and fenders of motor vehicles."

Single copy price: \$42.00

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

Send comments (copy psa@ansi.org) to: Daniel Papert <papertd@asme.org>

ASME (American Society of Mechanical Engineers)

Two Park Avenue, 6th Floor, New York, NY 10016-5990 | ansibox@asme.org, www.asme.org

Reaffirmation

BSR/ASME B107.400-2018 (R202x), Striking Tools (reaffirmation of ANSI/ASME B107.400-2018)

This Standard provides performance and safety requirements for striking tools including hammers, hatchets, axes, sledges, and mauls listed in Table 1-1.

Single copy price: \$75.00

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

Send comments (copy psa@ansi.org) to: Daniel Papert <papertd@asme.org>

Comment Deadline: August 8, 2023

ASME (American Society of Mechanical Engineers)

Two Park Avenue, 6th Floor, New York, NY 10016-5990 | ansibox@asme.org, www.asme.org

Reaffirmation

BSR/ASME B107.410-2018 (R202x), Struck Tools (reaffirmation of ANSI/ASME B107.410-2018)

This Standard provides performance and safety requirements for struck tools, including splitting wedges; glaziers' chisels; wood chisels; ripping chisels; flooring/electricians' chisels; handheld screw and pipe extractors; handheld and handled metal chisels, punches, and drift pins; nail sets; brick chisels, brick sets, and handheld star drills; nail-puller bars; pry bars; and slugging and striking wrenches.

Single copy price: \$90.00

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

Send comments (copy psa@ansi.org) to: Daniel Papert <papertd@asme.org>

ULSE (UL Standards & Engagement)

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

Revision

BSR/UL 213-202X, Standard for Rubber Gasketed Fittings for Fire-Protection Service (revision of ANSI/UL 213-2022)

1. Side Outlet Fittings with Proprietary Connections 2. Metallic Materials

Single copy price: Free

Order from: <https://csds.ul.com/Login>

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/Login>

ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | haley.callahan@ul.org, <https://ulse.org/>

Revision

BSR/UL 3100-202x, Standard for Safety for Automated Mobile Platforms (AMPs) (revision of ANSI/UL 3100-2021)

The following changes in requirements are being proposed for your review: 1. Revision of spacing requirements 2. Removal of Section 35.7

Single copy price: Free

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

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

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

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

ISA (International Society of Automation)

3252 S. Miami Blvd, Suite 102, Durham, NC 27703 | ebrazda@isa.org, www.isa.org

ANSI/ISA 96.03.03-2013, Guidelines for the Specification of Pneumatic Vane Type Valve Actuators (new standard)

Send comments (copy psa@ansi.org) to: Eliana Brazda <ebrazda@isa.org>

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

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

LEO (Leonardo Academy Inc.)

8401 Excelsior Drive, Madison, WI 53717 | michaelarny@leonardoacademy.org, www.leonardoacademy.org

ANSI/LEO 5000-2011, LEO 5000 - Standard for Emissions Inventories, Offsets and Reduction Credits (new standard)

Send comments (copy psa@ansi.org) to: Michael Army <michaelarny@leonardoacademy.org>

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

TIA (Telecommunications Industry Association)

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

ANSI/TIA 41.321-E-1 [E]-2012, Mobile Application Part (MAP) - Voice Feature Scenarios: Call Delivery (addenda to ANSI/TIA 41.321-E-2007)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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

TIA (Telecommunications Industry Association)

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

ANSI/TIA 41.324-E-1 [E]-2012, Mobile Application Part (MAP) - Voice Feature Scenarios: Calling Number Identification Presentation, Calling Number Identification Restriction (addenda to ANSI/TIA 41.324-E-2007)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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

TIA (Telecommunications Industry Association)

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

ANSI/TIA 41.550-E-2 [E]-2012, Mobile Application Part (MAP) - Parameters Signaling Protocols (addenda to ANSI/TIA 41.550-E-2004 (R2010))

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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

TIA (Telecommunications Industry Association)

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

ANSI/TIA 41.550-E-3 [E]-2012, Mobile Application Part (MAP) -PARAMETERS SIGNALING PROTOCOLS (addenda to ANSI/TIA 41.550-E-2004)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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ANSI/TIA 41.630-E-1 [E]-2012, Mobile Application Part (MAP) - Basic Call Processing (addenda to ANSI/TIA 41.630-E-2005)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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ANSI/TIA 41.630-E-2 [E]-2012, Mobile Application Part: Basic Call Processing (addenda to ANSI/TIA 41.630-E-2005)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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ANSI/TIA 41.640-E-1 [E]-2012, Mobile Application Part (MAP) - Intersystem Operations (addenda to ANSI/TIA 41.640-E-2005)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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ANSI/TIA 41.641-E-1 [E]-2012, Mobile Application Part (MAP) - SMS (addenda to ANSI/TIA 41.641-E-2005)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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ANSI/TIA 41.691-E-1 [E]-2012, Wireless Radiotelecommunications Intersystem Operations - Annexes (addenda to ANSI/TIA 41.691-E-201x)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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ANSI/TIA 41.691-E-2 [E]-2012, Mobile Application Part (MAP) - Annexes for the 6XX Series (addenda to ANSI/TIA 41.691-E-2013)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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

ANSI/TIA 41.325-E-2012, Mobile Application Part: Voice Feature Scenarios: Conference Calling (new standard)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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

ANSI/TIA 41.326-E-2012, Mobile Application Part: Voice Feature Scenarios: Do Not Disturb (new standard)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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

ANSI/TIA 41.327-E-2012, Mobile Application Part: Voice Feature Scenarios: Flexible Alerting (new standard)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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ANSI/TIA 41.328-E-2012, Mobile Application Part (MAP) - Voice Feature Scenarios: Mobile Access Hunting (new standard)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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ANSI/TIA 41.328-E-1 [E]-2012, Mobile Application Part (MAP) - Voice Feature Scenarios: Mobile Access Hunting (new standard)

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ANSI/TIA 41.329-E-2012, Mobile Application Part (MAP) - Voice Feature Scenarios: Message Waiting Notification (new standard)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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ANSI/TIA 41.330-E-2012, Mobile Application Part (MAP) - Voice Feature Scenarios: Password Call Acceptance / Selective Call Acceptance (new standard)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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ANSI/TIA 41.331-E-2012, Mobile Application Part: Voice Feature Scenarios: Priority Access and Channel Assignment (PACA) (new standard)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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

ANSI/TIA 41.332-E-2012, Mobile Application Part: Voice Feature Scenarios: Remote Feature Control (new standard)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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

ANSI/TIA 41.333-E-2012, Mobile Application Part: Voice Feature Scenarios - Subscriber PIN Access/Subscriber PIN Intercept (new standard)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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

ANSI/TIA 41.334-E-2012, Mobile Application Part: Voice Feature Scenarios - Voice Message Retrieval (new standard)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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ANSI/TIA 41.335-E-2012, Mobile Application Part (MAP) - Voice Feature Scenarios: Calling Name Presentation, Calling Name Restriction (new standard)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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ANSI/TIA 41.336-E-2012, Mobile Application Part (MAP) - Voice Feature Scenarios: Wireless Emergency Services (new standard)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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ANSI/TIA 41.350-E-2012, Mobile Application Part (MAP) - Voice Feature Scenarios: MDN-Based Validation (new standard)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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

ANSI/TIA 41.371-E-2012, Mobile Application Part (MAP) - Broadcast Teleservice Transport Capability (new standard)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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TIA (Telecommunications Industry Association)

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

ANSI/TIA 41.372-E-2012, Mobile Application Part (MAP) - Border MSC SMS Scenarios (new standard)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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ANSI/TIA 41.520-E-1 [E]-2012, Mobile Application Part (MAP) - TCAP Application Signaling Protocols (new standard)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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ANSI/TIA 41.540-E-1 [E]-2012, Mobile Application Part (MAP) - Operations Signaling Protocols (new standard)

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ANSI/TIA 41.550-E-1 [E]-2012, Mobile Application Part (MAP) - Parameters Signaling Protocols (new standard)

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ANSI/TIA 41.651-E-1 [E]-2012, Mobile Application Part (MAP) - Voice Features (new standard)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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ANSI/TIA 41.690-E-1 [E]-2012, Mobile Application Part (MAP) - Timers (new standard)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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ANSI/TIA 41.691-E-2013, Mobile Application Part (MAP) Procedure Annexes (new standard)

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ANSI/TIA 41.200-E-2007 (R2012), Mobile Application Part (MAP) - Intersystem Handoff (reaffirmation of ANSI/TIA 41.200-E-2007)

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ANSI/TIA 41.290-E-2007 (R2013), Mobile Application Part (MAP) - Intersystem Handoff - Annex A (reaffirmation of ANSI/TIA 41.290-E-2007)

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ANSI/TIA 41.321-E-2007 (R2013), Mobile Application Part (MAP): Voice Feature Scenarios: Call Delivery (reaffirmation of ANSI/TIA 41.321-E-2007)

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ANSI/TIA 41.322-E-2007 (R2013), Mobile Application Part (MAP) - Voice Feature Scenarios: Call Forwarding (reaffirmation of ANSI/TIA 41.322-E-2007)

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ANSI/TIA 41.323-E-2007 (R2013), Mobile Application Part (MAP) - Voice Feature Scenarios: Call Waiting (reaffirmation of ANSI/TIA 41.323-E-2007)

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ANSI/TIA 41.324-E-2007 (R2013), MOBILE APPLICATION PART (MAP)-VOICE FEATURE SCENARIOS: Calling Number Identification Presentation, Calling Number Identification Restriction (reaffirmation of ANSI/TIA 41.324-E-2007)

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ANSI/TIA 41.400-E-2005 (R2012), Wireless Radiotelecommunications Intersystem Operations: Operations, Administration and Maintenance (reaffirmation of ANSI/TIA 41.400-E-2005)

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ANSI/TIA 41.500-E-2004 (R2010), Mobile Application Part - Introduction to Signaling Protocols (reaffirmation of ANSI/TIA 41.500-E-2004)

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ANSI/TIA 41.510-E-2004 (R2010), Mobile Application Part - X.25 Transport Signaling Protocols (reaffirmation of ANSI/TIA 41.510-E-2004)

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ANSI/TIA 41.511-E-2004 (R2010), Mobile Application Part - ANS/SS7 Transport Signaling Protocols (reaffirmation of ANSI/TIA 41.511-E-2004)

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ANSI/TIA 41.512-E-2004 (R2010), Mobile Application Part - Parameter Types Signaling Protocols (reaffirmation of ANSI/TIA 41.512-E-2004)

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ANSI/TIA 41.520-E-2004 (R2010), Mobile Application Part - TCAP Application Signaling Protocols (reaffirmation of ANSI/TIA 41.520-E-2004)

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ANSI/TIA 41.540-E-2004 (R2010), Mobile Application Part - MAP Operations Signaling Protocols (reaffirmation of ANSI/TIA 41.540-E-2004)

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ANSI/TIA 41.550-E-2004 (R2010), Mobile Application Part - MAP Parameters Signaling Protocols (reaffirmation of ANSI/TIA 41.550-E-2004)

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ANSI/TIA 41.551-E-2004 (R2010), Mobile Application Part - Parameter Types Signaling Protocols (reaffirmation of ANSI/TIA 41.551-E-2004)

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ANSI/TIA 41.590-E-2004 (R2010), Mobile Application Part - MAP Operations Signaling Protocols (reaffirmation of ANSI/TIA 41.590-E-2004)

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ANSI/TIA 41.600-E-2005 (R2012), Wireless Radiotelecommunications Intersystems - Introduction to Procedures (reaffirmation of ANSI/TIA 41.600-E-2005)

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ANSI/TIA 41.630-E-2005 (R2012), Wireless Radiotelecommunications Intersystem - Basic Call Procedures (reaffirmation of ANSI/TIA 41.630-E-2005)

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ANSI/TIA 41.640-E-2005 (R2012), Wireless Radiotelecommunications Intersystems - Intersystem Procedures (reaffirmation of ANSI/TIA 41.640-E-2005)

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ANSI/TIA 41.641-E-2005 (R2012), Wireless Radiotelecommunications Intersystems - SMS (reaffirmation of ANSI/TIA 41.641-E-2005)

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ANSI/TIA 41.642-E-2005 (R2012), Wireless Radiotelecommunications Intersystem - Segmentation (reaffirmation of ANSI/TIA 41.642-E-2005)

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ANSI/TIA 41.650-E-2005 (R2012), Wireless Radiotelecommunications Intersystems - Common Voice Feature Procedures (reaffirmation of ANSI/TIA 41.650-E-2005)

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

ANSI/TIA 41.651-E-2005 (R2012), Wireless Radiotelecommunications Intersystems - Voice Features (reaffirmation of ANSI/TIA 41.651-E-2005)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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ANSI/TIA 41.660-E-2005 (R2012), Wireless Radiotelecommunications Intersystem - WIN (reaffirmation of ANSI/TIA 41.660-E-2005)

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ANSI/TIA 41.690-E-2005 (R2012), Wireless Radiotelecommunications Intersystem - Timers (reaffirmation of ANSI/TIA 41.690-E-2005)

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ANSI/TIA 41.700-E-2004 (R2010), Mobile Application Part - introduction to WIN Functional Plane (reaffirmation of ANSI/TIA 41.700-E-2004)

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ANSI/TIA 41.730-E-2004 (R2010), Mobile Application Part - WIN Distributed Plane and Model (reaffirmation of ANSI/TIA 41.730-E-2004)

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ANSI/TIA 41.750-E-2004 (R2010), Mobile Application Part - SSF/CCF Call and Service Logic Model (reaffirmation of ANSI/TIA 41.750-E-2004)

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ANSI/TIA 41.790-E-2004 (R2010), Mobile Application Part - Annexes (reaffirmation of ANSI/TIA 41.790-E-2004)

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ANSI/TIA 93-B-1-2006 (R2012), Wireless Telecommunications Ai - Di Interfaces Standard - Addendum 1 (reaffirmation of ANSI/TIA 93-B-1-2006)

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ANSI/TIA 124-E-2006 (R2011), Wireless Radio Telecommunications Intersystem Non-Signaling Data Communication, DMH(Data Message Handler) (reaffirmation of ANSI/TIA 124-E-2006)

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ANSI/TIA 664-000-B-2003 (R2013), Wireless Features Description (reaffirmation of ANSI/TIA 664-000-B-2003)

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ANSI/TIA 664-000-B-3-2007 (R2013), Wireless Features Description - Addendum 3 (reaffirmation of ANSI/TIA 664-000-B-3-2007)

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ANSI/TIA 664-100-B-2007 (R2013), Wireless Features Description: Background and Assumptions (reaffirmation of ANSI/TIA 664-100-B-2007)

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ANSI/TIA 664-501-B-2007 (R2013), Wireless Features Description: Call Delivery (CD) (reaffirmation of ANSI/TIA 664-501-B-2007)

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ANSI/TIA 664-502-B-2007 (R2013), Wireless Features Description: Call Forwarding-Busy (CFB) (reaffirmation of ANSI/TIA 664-502-B-2007)

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ANSI/TIA 664-503-B-2007 (R2013), Wireless Features Description: Call Forwarding-Default (CFD) (reaffirmation of ANSI/TIA 664-503-B-2007)

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ANSI/TIA 664-504-B-2007 (R2013), Wireless Features Description: Call Forwarding-No Answer (CFNA)
(reaffirmation of ANSI/TIA 664-504-B-2007)

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ANSI/TIA 664-505-B-2007 (R2013), Wireless Features Description: Call Forwarding-Unconditional (CFU)
(reaffirmation of ANSI/TIA 664-505-B-2007)

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ANSI/TIA 664-506-B-2007 (R2013), Wireless Features Description: Call Transfer (CT) (reaffirmation of ANSI/TIA 664-506-B-2007)

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ANSI/TIA 664-507-B-2007 (R2012), Wireless Features Description: Call Waiting (CW) (reaffirmation of ANSI/TIA 664-507-B-2007)

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ANSI/TIA 664-508-B-2007 (R2013), Wireless Features Description: Calling Number Identification Presentation (CNIP) (reaffirmation of ANSI/TIA 664-508-B-2007)

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ANSI/TIA 664-509-B-2007 (R2013), Wireless Features Description: Calling Number Identification Restriction (CNIR) (reaffirmation of ANSI/TIA 664-509-B-2007)

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ANSI/TIA 664-510-B-2007 (R2013), Wireless Features Description: Conference Calling (CC) (reaffirmation of ANSI/TIA 664-510-B-2007)

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ANSI/TIA 664-511-B-2007 (R2013), Wireless Features Description: Do Not Disturb (DND) (reaffirmation of ANSI/TIA 664-511-B-2007)

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ANSI/TIA 664-512-B-2007 (R2013), Wireless Features Description: Flexible Alerting (FA) (reaffirmation of ANSI/TIA 664-512-B-2007)

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ANSI/TIA 664-513-B-2007 (R2013), Wireless Features Description: Message Waiting Notification (MWN) (reaffirmation of ANSI/TIA 664-513-B-2007)

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ANSI/TIA 664-514-B-2007 (R2013), Wireless Features Description: Mobile Access Hunting (MAH) (reaffirmation of ANSI/TIA 664-514-B-2007)

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ANSI/TIA 664-515-B-2007 (R2013), Wireless Features Description: Password Call Acceptance (PCA) (reaffirmation of ANSI/TIA 664-515-B-2007)

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ANSI/TIA 664-516-B-2007 (R2013), Wireless Features Description: Preferred Language (PL) (reaffirmation of ANSI/TIA 664-516-B-2007)

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ANSI/TIA 664-517-B-2007 (R2013), Wireless Features Description: Priority Access and Channel Assignment (PACA) (reaffirmation of ANSI/TIA 664-517-B-2007)

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ANSI/TIA 664-518-B-2007 (R2013), Wireless Features Description: Remote Feature Control (RFC) (reaffirmation of ANSI/TIA 664-518-B-2007)

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ANSI/TIA 664-519-B-2007 (R2013), Wireless Features Description: Selective Call Acceptance (SCA) (reaffirmation of ANSI/TIA 664-519-B-2007)

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ANSI/TIA 664-520-B-2007 (R2013), Wireless Features Description: Subscriber PIN Access (SPINA) (reaffirmation of ANSI/TIA 664-520-B-2007)

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ANSI/TIA 664-521-B-2007 (R2013), Wireless Features Description: Subscriber PIN Intercept (SPINI)" (reaffirmation of ANSI/TIA 664-521-B-2007)

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ANSI/TIA 664-522-B-2007 (R2013), Wireless Features Description: Three-Way Calling (3WC) (reaffirmation of ANSI/TIA 664-522-B-2007)

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ANSI/TIA 664-523-B-2007 (R2013), Wireless Features Description: Voice Message Retrieval (VMR) (reaffirmation of ANSI/TIA 664-523-B-2007)

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ANSI/TIA 664-524-B-2007 (R2013), Wireless Features Description: Voice Privacy (VP)" (reaffirmation of ANSI/TIA 664-524-B-2007)

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ANSI/TIA 664-525-B-2007 (R2013), Wireless Features Description: Asynchronous Data Service (ADS) (reaffirmation of ANSI/TIA 664-525-B-2007)

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ANSI/TIA 664-526-B-2007 (R2013), Wireless Features Description: Calling Name Presentation (CNAP) (reaffirmation of ANSI/TIA 664-526-B-2007)

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ANSI/TIA 664-527-B-2007 (R2013), Wireless Features Description: Calling Name Presentation (CNAP) (reaffirmation of ANSI/TIA 664-527-B-2007)

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ANSI/TIA 664-528-B-2007 (R2013), Wireless Features Description: Data Privacy (DP) (reaffirmation of ANSI/TIA 664-528-B-2007)

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ANSI/TIA 664-529-B-2007 (R2013), Wireless Features Description: Emergency Services (9-1-1) (reaffirmation of ANSI/TIA 664-529-B-2007)

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ANSI/TIA 664-530-B-2007 (R2013), Wireless Features Description: Group 3 Facsimile Service (G3 Fax) (reaffirmation of ANSI/TIA 664-530-B-2007)

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ANSI/TIA 664-531-B-2007 (R2013), Wireless Features Description: Network Directed System Selection (NDSS) (reaffirmation of ANSI/TIA 664-531-B-2007)

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ANSI/TIA 664-532-B-2007 (R2013), Wireless Features Description: Non-public Service Mode (NP) (reaffirmation of ANSI/TIA 664-532-B-2007)

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ANSI/TIA 664-533-B-2007 (R2013), Wireless Features Description: Over-the-Air Service Provisioning (OTASP) (reaffirmation of ANSI/TIA 664-533-B-2007)

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ANSI/TIA 664-534-B-2007 (R2013), Wireless Features Description: Service Negotiation (SN) (reaffirmation of ANSI/TIA 664-534-B-2007)

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ANSI/TIA 664-535-B-2007 (R2013), Wireless Features Description: User Group (UG) (reaffirmation of ANSI/TIA 664-535-B-2007)

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ANSI/TIA 664-536-B-2007 (R2013), Wireless Features Description: Group 3 Analog Facsimile Service (G3 AFax) (reaffirmation of ANSI/TIA 664-536-B-2007)

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ANSI/TIA 664-537-B-2007 (R2013), Wireless Features Description: Wireless Intelligent Network Feature Descriptions (reaffirmation of ANSI/TIA 664-537-2007)

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TIA (Telecommunications Industry Association)

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

ANSI/TIA 664-601-B-2007 (R2013), Wireless Features Description: Short Message Delivery (reaffirmation of ANSI/TIA 664-601-B-2007)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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

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

TIA (Telecommunications Industry Association)

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

ANSI/TIA 664-602-B-2007 (R2013), Wireless Features Description: Wireless Messaging Teleservice (reaffirmation of ANSI/TIA 664-602-B-2007)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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

TIA (Telecommunications Industry Association)

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

ANSI/TIA 664-603-B-2007 (R2013), Wireless Features Description: Wireless Paging Teleservice (reaffirmation of ANSI/TIA 664-603-B-2007)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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

TIA (Telecommunications Industry Association)

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

ANSI/TIA 664-701-B-2007 (R2013), Wireless Features Description: Mobile Station Functionality (reaffirmation of ANSI/TIA 664-701-B-2007)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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

TIA (Telecommunications Industry Association)

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

ANSI/TIA 664-801-B-2007 (R2013), Wireless Features Description: System Functionality (reaffirmation of ANSI/TIA 664-801-B-2007)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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

TIA (Telecommunications Industry Association)

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

ANSI/TIA 664-802-B-2007 (R2013), Wireless Features Description: Subscriber Confidentiality (reaffirmation of ANSI/TIA 664-802-B-2007)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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

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

TIA (Telecommunications Industry Association)

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

ANSI/TIA 664-803-B-2007 (R2013), Wireless Features Description: Network Services (reaffirmation of ANSI/TIA 664-803-B-2007)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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

TIA (Telecommunications Industry Association)

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

ANSI/TIA 664-804-A-2007 (R2013), Wireless Features Description: Enhanced Security (reaffirmation of ANSI/TIA 664-804-A-2007)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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

TIA (Telecommunications Industry Association)

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

ANSI/TIA 664-805-A-2007 (R2013), Wireless Features Description: CDMA Packet Data Service (reaffirmation of ANSI/TIA 664-805-A-2007)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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

TIA (Telecommunications Industry Association)

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

ANSI/TIA 664-806-2007 (R2013), Wireless Features Description: Over-the-Air Parameter Administration (reaffirmation of ANSI/TIA 664-806-2007)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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

TIA (Telecommunications Industry Association)

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

ANSI/TIA 895-A-2002 (R2013), CDMA Tandem Free Operation (reaffirmation of ANSI/TIA 895-A-2002)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

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

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

TIA (Telecommunications Industry Association)

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

ANSI/TIA 41.000-E-9-2012, Mobile Application Part (MAP) Introduction (supplement to ANSI/TIA 41.000-E-2004)

Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

Final Actions on American National Standards

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

AAMI (Association for the Advancement of Medical Instrumentation)

901 North Glebe Road, Suite 300, Arlington, VA 22203 | MWilliams@aami.org, www.aami.org

ANSI/AAMI/ISO 11137-3-2017 (R2023), Sterilization of health care products - Radiation - Part 3: Guidance on dosimetric aspects (reaffirmation of ANSI/AAMI/ISO 11137-3-2017) Final Action Date: 6/1/2023 | *Reaffirmation*

AARST (American Association of Radon Scientists and Technologists)

527 N. Justice Street, Hendersonville, NC 28739 | StandardsAssist@gmail.com, www.aarst.org

ANSI/AARST CCAH-2023, Reducing Radon in New Construction of 1 & 2 Family Dwellings and Townhouses (revision of ANSI/AARST CCAH-2022) Final Action Date: 6/5/2023 | *Revision*

ANSI/AARST CC-1000-2023, Soil Gas Control Systems in New Construction of Buildings (revision of ANSI/AARST CC-1000-2018) Final Action Date: 6/5/2023 | *Revision*

ANSI/AARST MA-MFLB-2023, Protocol for Conducting Measurements of Radon and Radon Decay Products in Multifamily, School, Commercial and Mixed-Use Buildings (revision and redesignation of ANSI/AARST MA-MFLB-2022) Final Action Date: 6/5/2023 | *Revision*

ANSI/AARST MAH-2023, Protocol for Conducting Measurements of Radon and Radon Decay Products in Homes (revision of ANSI/AARST MAH-2022) Final Action Date: 6/5/2023 | *Revision*

ANSI/AARST MS-QA-2023, Radon Measurement Systems Quality Assurance (revision of ANSI/AARST MS-QA-2022) Final Action Date: 6/5/2023 | *Revision*

ANSI/AARST SGM-MFLB-2022, Soil Gas Mitigation Standards for Existing Multifamily, School, Commercial and Mixed-Use Buildings (revision, redesignation and consolidation of ANSI/AARST RMS-MF-2020, ANSI/AARST RMS-LB-2020) Final Action Date: 6/5/2023 | *Revision*

ANSI/AARST SGM-SF-2023, Soil Gas Mitigation Standards for Existing Homes (revision of ANSI/AARST SGM-SF-2020) Final Action Date: 6/5/2023 | *Revision*

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

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

ANSI/AHRI Standard 1160-2023 (I-P), Performance Rating of Heat Pump Pool Heaters (revision of ANSI/AHRI Standard 1160 (I-P)-2014) Final Action Date: 6/5/2023 | *Revision*

ANSI/AHRI Standard 550/590-2023 (I-P), Performance Rating of Water-Chilling and Heat Pump Water-Heating Packages Using the Vapor Compression Cycle (revision of ANSI/AHRI Standard 550/590 (I-P)-2012 with Addendum 1) Final Action Date: 6/5/2023 | *Revision*

ANSI/AHRI Standard 551/591-2023 (SI), Performance Rating of Water-Chilling and Heat Pump Water-Heating Packages Using the Vapor Compression Cycle (revision of ANSI/AHRI Standard 551/591 (SI) with Addendum 1-2012) Final Action Date: 6/5/2023 | *Revision*

AMCA (Air Movement and Control Association)

30 West University Drive, Arlington Heights, IL 60004-1893 | shrutik@amca.org, www.amca.org

ANSI/AMCA 270-2023, Laboratory Methods of Aerodynamic Testing Fan Arrays for Rating (new standard) Final Action Date: 6/1/2023 | *New Standard*

ANS (American Nuclear Society)

555 North Kensington Avenue, La Grange Pk, IL 60526 | pschroeder@ans.org, www.ans.org

ANSI/ANS 8.1-2014 (R2023), Nuclear Criticality Safety in Operations with Fissionable Material Outside Reactors (reaffirmation of ANSI/ANS 8.1-2014 (R2018)) Final Action Date: 6/5/2023 | *Reaffirmation*

ARESCA (American Renewable Energy Standards and Certification Association)

256 Farrell Farm Road, Norwich, VT 05055 | secretary@aresca.us, www.aresca.us

ANSI/ARESCA 61400-12-2023, Wind energy generation systems - Part 12: Power performance measurements of electricity producing wind turbines - Overview (identical national adoption of IEC 61400-12:2022) Final Action Date: 6/5/2023 | *National Adoption*

ASABE (American Society of Agricultural and Biological Engineers)

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

ANSI/ASABE S613-1.1-MAY2023, Tractors and Self-Propelled Machinery for Agriculture - Air Quality Systems for Cabs - Part 1: Terminology and Overview (revision and redesignation of ANSI/ASABE S613-1-FEB2009 (R2018)) Final Action Date: 5/30/2023 | *Revision*

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

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

ANSI/ASHRAE/ICC/IES/USGBC Addendum af to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020) Final Action Date: 5/31/2023 | *Addenda*

ANSI/ASHRAE/ICC/IES/USGBC Addendum aj to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020) Final Action Date: 5/31/2023 | *Addenda*

ANSI/ASHRAE/ICC/IES/USGBC Addendum au to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020) Final Action Date: 5/31/2023 | *Addenda*

ANSI/ASHRAE/ICC/IES/USGBC Addendum av to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020) Final Action Date: 5/31/2023 | *Addenda*

ANSI/ASHRAE/ICC/IES/USGBC Addendum ay to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020) Final Action Date: 5/31/2023 | *Addenda*

ANSI/ASHRAE/ICC/IES/USGBC Addendum az to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020) Final Action Date: 5/31/2023 | *Addenda*

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

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

ANSI/ASHRAE Standard 41.13-2023, Standard Methods for Fuel Higher Heating Value Measurement (new standard)
Final Action Date: 5/31/2023 | *New Standard*

ANSI/ASHRAE/ACCA Standard 211-2018 (R2023), Standard for Commercial Building Energy Audits (reaffirmation of ANSI/ASHRAE/ACCA Standard 211-2018) Final Action Date: 5/31/2023 | *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 SBS-2023, Structures For Bulk Solids (new standard) Final Action Date: 5/30/2023 | *New Standard*

ASTM (ASTM International)

100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 | accreditation@astm.org, www.astm.org

ANSI/ASTM F3648-2023, Guide for Maintenance of Marine Sanitation Devices (MSDs) and the Effects of Cleaning Agents on MSD Operations (new standard) Final Action Date: 5/23/2023 | *New Standard*

ANSI/ASTM F3649-2023, Guide for Continuity of Maritime Operations During the Onset of a Pandemic (new standard)
Final Action Date: 5/23/2023 | *New Standard*

ANSI/ASTM F682-1982A (R2023), Specification for Wrought Carbon Steel Sleeve-Type Pipe Couplings (reaffirmation of ANSI/ASTM F682-1982A (R2018)) Final Action Date: 5/23/2023 | *Reaffirmation*

ANSI/ASTM F956-1991 (R2023), Specification for Bell, Cast, Sound Signalling (reaffirmation of ANSI/ASTM F956-1991 (R2018)) Final Action Date: 5/23/2023 | *Reaffirmation*

ANSI/ASTM F957-1991 (R2023), Specification for Gong, Sound Signaling (reaffirmation of ANSI/ASTM F957-1991 (R2018)) Final Action Date: 5/23/2023 | *Reaffirmation*

ANSI/ASTM F1030-1986 (R2023), Practice for Selection of Valve Operators (reaffirmation of ANSI/ASTM F1030-1986 (R2018)) Final Action Date: 5/23/2023 | *Reaffirmation*

ANSI/ASTM F1099M-2018 (R2023), Specification for Rat Guards, Ships (Metric) (reaffirmation of ANSI/ASTM F1099M-2018) Final Action Date: 5/23/2023 | *Reaffirmation*

ANSI/ASTM F1173-2001 (R2023), Specification for Thermosetting Resin Fiberglass Pipe Systems to Be Used for Marine Applications (reaffirmation of ANSI/ASTM F1173-2001 (R2018)) Final Action Date: 5/23/2023 | *Reaffirmation*

ANSI/ASTM F1182-2007 (R2023), Specification for Anodes, Sacrificial Zinc Alloy (reaffirmation of ANSI/ASTM F1182-2007 (R2019)) Final Action Date: 5/23/2023 | *Reaffirmation*

ANSI/ASTM F1270-1997 (R2023), Practice for Preparing and Locating Emergency Muster Lists (reaffirmation of ANSI/ASTM F1270-1997 (R2019)) Final Action Date: 5/23/2023 | *Reaffirmation*

ANSI/ASTM F1271-1990 (R2023), Specification for Spill Valves for Use in Marine Tank Liquid Overpressure Protections Applications (reaffirmation of ANSI/ASTM F1271-1990 (R2018)) Final Action Date: 5/23/2023 | *Reaffirmation*

ANSI/ASTM F1297-1999 (R2023), Guide for Location and Instruction Symbols for Evacuation and Lifesaving Equipment (reaffirmation of ANSI/ASTM F1297-1999 (R2018)) Final Action Date: 5/23/2023 | *Reaffirmation*

ANSI/ASTM F1298-1990 (R2023), Specification for Flexible, Expansion-Type Ball Joints for Marine Applications (reaffirmation of ANSI/ASTM F1298-1990 (R2018)) Final Action Date: 5/23/2023 | *Reaffirmation*

ANSI/ASTM F1311-1990 (R2023), Specification for Large Diameter Fabricated Carbon Steel Flanges (reaffirmation of ANSI/ASTM F1311-1990 (R2018)) Final Action Date: 5/23/2023 | *Reaffirmation*

ASTM (ASTM International)

100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 | accreditation@astm.org, www.astm.org

ANSI/ASTM F1312-2020 (R2023), Specification for Brick, Insulating, High Temperature, Fire Clay (reaffirmation of ANSI/ASTM F1312-2019) Final Action Date: 5/23/2023 | *Reaffirmation*

ANSI/ASTM F1330-1991 (R2023), Guide for Metallic Abrasive Blasting to Descale the Interior of Pipe (reaffirmation of ANSI/ASTM F1330-1991 (R2018)) Final Action Date: 5/23/2023 | *Reaffirmation*

ANSI/ASTM F1511-2018 (R2023), Specification for Mechanical Seals for Shipboard Pump Applications (reaffirmation of ANSI/ASTM F1511-2018) Final Action Date: 5/23/2023 | *Reaffirmation*

ANSI/ASTM F1548-2001 (R2023), Specification for Performance of Fittings for Use with Gasketed Mechanical Couplings Used in Piping Applications (reaffirmation of ANSI/ASTM F1548-2001 (R2018)) Final Action Date: 5/23/2023 | *Reaffirmation*

ANSI/ASTM F1994-2000 (R2023), Test Method for Shipboard Fixed Foam Firefighting Systems (reaffirmation of ANSI/ASTM F1994-1999 (R2019)) Final Action Date: 5/23/2023 | *Reaffirmation*

ANSI/ASTM F2798-2009 (R2023), Specification for Sealless Lube Oil Pump with Oil Through Motor for Marine Applications (reaffirmation of ANSI/ASTM F2798-2009 (R2018)) Final Action Date: 5/23/2023 | *Reaffirmation*

ANSI/ASTM F2934-2012 (R2023), Specification for Circular Metallic Bellows Type Expansion Joint for HVAC Piping Applications (reaffirmation of ANSI/ASTM F2934-2012 (R2018)) Final Action Date: 5/23/2023 | *Reaffirmation*

ANSI/ASTM F3285-2018 (R2023), Guide for Installation and Application of Type C Portable Tanks for Marine LNG Service (reaffirmation of ANSI/ASTM F3285-2018) Final Action Date: 5/23/2023 | *Reaffirmation*

ANSI/ASTM D6259-2023, Practice for Determination of a Pooled Limit of Quantitation for a Test Method (revision of ANSI/ASTM D6259-2015 (R2019)) Final Action Date: 5/23/2023 | *Revision*

ANSI/ASTM E84-2023a, Test Method for Surface Burning Characteristics of Building Materials (revision of ANSI/ASTM E84-2023) Final Action Date: 6/1/2023 | *Revision*

ANSI/ASTM E574-2023, Specification for Duplex, Base Metal Thermocouple Wire with Glass Fiber or Silica Fiber Insulation (revision of ANSI/ASTM E574-2019) Final Action Date: 5/23/2023 | *Revision*

ANSI/ASTM E3197-2023, Terminology Relating to Examination of Fire Debris (revision of ANSI/ASTM E3197-2020) Final Action Date: 6/1/2023 | *Revision*

ANSI/ASTM F683-2023, Practice for Selection and Application of Thermal Insulation for Piping and Machinery (revision of ANSI/ASTM F683-2021) Final Action Date: 5/23/2023 | *Revision*

ANSI/ASTM F1347-2023, Specification for Manually Operated Fueling Hose Reels (revision of ANSI/ASTM F1347-1991 (R2018)) Final Action Date: 5/23/2023 | *Revision*

ANSI/ASTM F1546-2023, Specification for Fire Hose Nozzles (revision of ANSI/ASTM F1546-1996 (R2018)) Final Action Date: 5/23/2023 | *Revision*

ANSI/ASTM F2016-2023, Practice for Establishing Shipbuilding Quality Requirements for Hull Structure, Outfitting, and Coatings (revision of ANSI/ASTM F2016-2000 (R2018)) Final Action Date: 5/23/2023 | *Revision*

ANSI/ASTM F2935-2023, Specification for Chocks, Panama, Mooring Cast Steel (revision of ANSI/ASTM F2935-2012) Final Action Date: 5/23/2023 | *Revision*

ANSI/ASTM F2936-2023, Specification for Chocks, Ship Mooring, Cast Steel (revision of ANSI/ASTM F2936-2012 (R2018)) Final Action Date: 5/23/2023 | *Revision*

ATIS (Alliance for Telecommunications Industry Solutions)

1200 G Street NW, Suite 500, Washington, DC 20005 | dgreco@atis.org, www.atis.org

ANSI/ATIS 0600015.13-2017 (R2023), Energy Efficiency for Telecommunication Equipment: Methodology for Measurement and Reporting for Router and Ethernet Switch Products Energy Efficiency for Telecommunication Equipment: Methodology for Measurement and Reporting of 802.11xx WiFi Access Points (reaffirmation of ANSI/ATIS 0600015.13-2017) Final Action Date: 5/30/2023 | *Reaffirmation*

CSA (CSA America Standards Inc.)

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

ANSI Z21.89-2023, Outdoor cooking specialty gas appliances (same as CSA 1.18-2023) (revision of ANSI Z21.89-2017) Final Action Date: 5/30/2023 | *Revision*

CTA (Consumer Technology Association)

1919 South Eads Street, Arlington, VA 22202 | cakers@cta.tech, www.cta.tech

ANSI/CTA 490-B-2023, Test Methods of Measurement for Audio Amplifiers (new standard) Final Action Date: 6/1/2023 | *New Standard*

ECIA (Electronic Components Industry Association)

13873 Park Center Road, Suite 315, Herndon, VA 20171 | ldonohoe@ecianow.org, www.ecianow.org

ANSI/EIA 948-2004 (R2023), Component Tray for Automated Handling (reaffirmation of ANSI/EIA 948-2004 (R2017)) Final Action Date: 6/1/2023 | *Reaffirmation*

ANSI/EIA 960-B-2017 (R2023), Assembly Component Tray - ACT (reaffirmation of ANSI/EIA 960-B-2017) Final Action Date: 6/1/2023 | *Reaffirmation*

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

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

ANSI/CAN/ASSE/IAPMO 1055-2023, Performance Requirements for Chemical Dispensers with Integral Backflow Protection (revision of ANSI/CAN/ASSE/IAPMO 1055-2020) Final Action Date: 5/26/2023 | *Revision*

NISO (National Information Standards Organization)

3600 Clipper Mill Road, Suite 302, Baltimore, MD 21211 | kbailey@niso.org, www.niso.org

ANSI/NISO Z39.106-2023, Peer Review Terminology (new standard) Final Action Date: 6/5/2023 | *New Standard*

NSF (NSF International)

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

ANSI/NSF/CAN 50-2023 (i200r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2021) Final Action Date: 5/30/2023 | *Revision*

PHTA (Pool and Hot Tub Alliance)

2111 Eisenhower Avenue, Alexandria, VA 22314 | bpavlik@phta.org, www.PHTA.org

ANSI/APSP/ICC 3-2014 (R2023), Standard for Permanently Installed Residential Spas and Swim Spas (reaffirmation of ANSI/APSP/ICC 3-2013) Final Action Date: 6/1/2023 | *Reaffirmation*

ULSE (UL Standards & Engagement)

333 Pfingsten Road, Northbrook, IL 60062-2096 | Susan.P.Malohn@ul.org, <https://ulse.org/>

ANSI/UL 62790-2023, Standard for Junction Boxes for Photovoltaic Modules - Safety Requirements and Tests (national adoption with modifications of IEC 62790) Final Action Date: 5/26/2023 | *National Adoption*

ANSI/UL 62841-3-5-2023, Standard for Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-5: Particular requirements for transportable band saws (identical national adoption of IEC 62841-3-5) Final Action Date: 5/26/2023 | *National Adoption*

ANSI/UL 20-2023, Standard for Safety for General-Use Snap Switches (revision of ANSI/UL 20-2021) Final Action Date: 5/31/2023 | *Revision*

ANSI/UL 94-2023, Standard for Safety for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances (revision of ANSI/UL 94-2023) Final Action Date: 5/31/2023 | *Revision*

ANSI/UL 268-2023, Standard for Safety for Smoke Detectors for Fire Alarm Systems (revision of ANSI/UL 268-2021) Final Action Date: 6/2/2023 | *Revision*

ANSI/UL 498-2023, The Standard for Safety for Attachment Plugs and Receptacles (revision of ANSI/UL 498-2022) Final Action Date: 5/31/2023 | *Revision*

ANSI/UL 499-2023, Standard for Electric Heating Appliances (revision of ANSI/UL 499-2022) Final Action Date: 5/31/2023 | *Revision*

ANSI/UL 1191-2023, Standard for Components for Personal Flotation Devices (revision of ANSI/UL 1191-2022) Final Action Date: 5/30/2023 | *Revision*

ANSI/UL 1480-2023, Standard for Safety for Speakers for Fire Alarm and Signaling Systems, Including Accessories (revision of ANSI/UL 1480-2017) Final Action Date: 5/26/2023 | *Revision*

VITA (VMEbus International Trade Association (VITA))

929 W. Portobello Avenue, Mesa, AZ 85210 | jing.kwok@vita.com, www.vita.com

ANSI/VITA 65.0-2023, OpenVPX System Standard (revision of ANSI/VITA 65.0-2021) Final Action Date: 6/5/2023 | *Revision*

ANSI/VITA 65.1-2023, OpenVPX System Standard - Profile Tables (revision of ANSI/VITA 65.1-2021) Final Action Date: 5/30/2023 | *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.

AAMI (Association for the Advancement of Medical Instrumentation)

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

BSR/AAMI/ISO 10993-2-202x, Biological evaluation of medical devices - Part 2: Animal welfare requirements (identical national adoption of ISO 10993-2:2022 and revision of ANSI/AAMI/ISO 10993-2-2006 (R2014))

AAMI (Association for the Advancement of Medical Instrumentation)

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

BSR/AAMI/ISO 10993-10-202x, Biological evaluation of medical devices - Part 10: Tests for skin sensitization (identical national adoption of ISO 10993-10:2021 and revision of ANSI/AAMI/ISO 10993-10:2010 (R2014))

AAMI (Association for the Advancement of Medical Instrumentation)

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

BSR/AAMI/ISO 10993-12-202x, Biological evaluation of medical devices - Part 12: Sample preparation and reference materials (identical national adoption of ISO 10993-12:2021 and revision of ANSI/AAMI/ISO 10993-12-2012)

AAMI (Association for the Advancement of Medical Instrumentation)

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

BSR/AAMI/ISO 10993-23-202x, Biological evaluation of medical devices - Part 23: Tests for irritation (identical national adoption of ISO 10993-23:2021 and revision of ANSI/AAMI/ISO 10993-10:2010 (R2014))

AAMI (Association for the Advancement of Medical Instrumentation)

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

BSR/AAMI/ISO 10993-3-2014 (R202x), Biological evaluation of medical devices - Part 3: Tests for genotoxicity, carcinogenicity and reproductive toxicity (reaffirm a national adoption ANSI/AAMI/ISO 10993-3-2014)

AAMI (Association for the Advancement of Medical Instrumentation)

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

BSR/AAMI/ISO 10993-4-2017 (R202x), Biological evaluation of medical devices - Part 4: Selection of tests for interactions with blood (reaffirm a national adoption ANSI/AAMI/ISO 10993-4-2017)

AAMI (Association for the Advancement of Medical Instrumentation)

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

BSR/AAMI/ISO 10993-5-2009 (R202x), Biological evaluation of medical devices - Part 5: Tests for in vitro cytotoxicity (reaffirm a national adoption ANSI/AAMI/ISO 10993-5-2009 (R2014))

AAMI (Association for the Advancement of Medical Instrumentation)

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

BSR/AAMI/ISO 10993-13-2010 (R202x), Biological evaluation of medical devices - Part 13: Identification and quantification of degradation products from polymeric medical devices (reaffirm a national adoption ANSI/AAMI/ISO 10993-13-2010 (R2014))

AAMI (Association for the Advancement of Medical Instrumentation)

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

BSR/AAMI/ISO 10993-14-2001 (R202x), Biological evaluation of medical devices - Part 14: Identification and quantification of degradation products from ceramics (reaffirm a national adoption ANSI/AAMI/ISO 10993-14-2001 (R2011))

AAMI (Association for the Advancement of Medical Instrumentation)

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

BSR/AAMI/ISO 10993-16-2020 (R202x), Biological evaluation of medical devices - Part 16: Toxicokinetic study design for degradation products and leachables (reaffirm a national adoption ANSI/AAMI/ISO 10993-16-2020)

AAMI (Association for the Advancement of Medical Instrumentation)

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

BSR/AAMI/ISO 13022-2012 (R202x), Medical products containing viable human cells - Application of risk management and requirements for processing practices (reaffirm a national adoption ANSI/AAMI/ISO 13022-2012)

AAMI (Association for the Advancement of Medical Instrumentation)

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

BSR/AAMI/ISO 22442-1-202x, Medical devices utilizing animal tissues and their derivatives - Part 1: Application of risk management (identical national adoption of ISO 22442-1:2020 and revision of ANSI/AAMI/ISO 22442-1-2016)

AAMI (Association for the Advancement of Medical Instrumentation)

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

BSR/AAMI/ISO 22442-2-202x, Medical devices utilizing animal tissues and their derivatives - Part 2: Controls on sourcing, collection and handling (identical national adoption of ISO 22442-2:2020 and revision of ANSI/AAMI/ISO 22442-2-2016)

AAMI (Association for the Advancement of Medical Instrumentation)

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

BSR/AAMI/ISO 22442-3-2007 (R202x), Medical devices utilizing animal tissues and their derivatives - Part 3: Validation of the elimination and/or inactivation of viruses and transmissible spongiform encephalopathy (TSE) agents (reaffirm a national adoption ANSI/AAMI/ISO 22442-3-2007 (R2016))

ASABE (American Society of Agricultural and Biological Engineers)

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

BSR/ASABE/ISO 5687-202x OCT2018 (R202x), Equipment For Harvesting - Combine Harvesters - Determination And Designation Of Grain Tank Capacity And Unloading Device Performance (reaffirm a national adoption ANSI/ASAE 5687-OCT2018)

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

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

BSR/ASSP A10.48-202X, Criteria for Safety Practices with the Construction, Demolition, Modification and Maintenance of Communication Structures (revision and redesignation of ANSI/ASSE A10.48-2016)

ATIS (Alliance for Telecommunications Industry Solutions)

1200 G Street NW, Suite 500, Washington, DC 20005 | jhuynh@atis.org, www.atis.org

BSR ATIS 0900101-2013 (S202x), Synchronization Interface Standard (stabilized maintenance of ANSI ATIS 0900101-2013 (R2018))

ATIS (Alliance for Telecommunications Industry Solutions)

1200 G Street NW, Suite 500, Washington, DC 20005 | jhuynh@atis.org, www.atis.org

BSR ATIS 0900105.03-2013 (S202x), Synchronous Optical Network (SONET) - Jitter at Network Interfaces (stabilized maintenance of ANSI ATIS 0900105.03-2013 (R2018))

ATIS (Alliance for Telecommunications Industry Solutions)

1200 G Street NW, Suite 500, Washington, DC 20005 | jhuynh@atis.org, www.atis.org

BSR ATIS 0900105.09-2013 (S202x), Synchronous Optical Network (SONET) - Network Element Timing and Synchronization (stabilized maintenance of ANSI ATIS 0900105.09-2013 (R2018))

AWS (American Welding Society)

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | kbulger@aws.org, www.aws.org

BSR/AWS A5.31M/A5.31-202x, Specification for Fluxes for Brazing and Braze Welding (revision of ANSI/AWS A5.31M/A5.31-2022)

ISA (International Society of Automation)

3252 S. Miami Blvd, Suite 102, Durham, NC 27703 | crobinson@isa.org, www.isa.org

BSR/ISA 96.03.02-202x, Guidelines for the Specification of Pneumatic Rack and Pinion Valve Actuators (revision of ANSI/ISA 96.03.02-2015)

ISA (International Society of Automation)

3252 S. Miami Blvd, Suite 102, Durham, NC 27703 | crobinson@isa.org, www.isa.org

BSR/ISA 96.03.03-202x, Guidelines for the Specification of Pneumatic Vane Type Valve Actuators (new standard)

NSF (NSF International)

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

BSR/NSF 350-202x (i77r1), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2022)

SAIA (ASC A11) (Scaffold & Access Industry Association)

400 Admiral Boulevard, Kansas City, MO 64106 | celeste@saiasonline.org, www.saiasonline.org

BSR/SAIA A11.1-202x, Standards for Testing and Rating Scaffold Assemblies and Components (revision of ANSI/SAIA A11.1-2019)

SAIA (ASC A11) (Scaffold & Access Industry Association)

400 Admiral Boulevard, Kansas City, MO 64106 | celeste@saiasonline.org, www.saiasonline.org

BSR/SAIA A11.2-202x, Standards for Testing & Rating Shoring Equipment (revision of ANSI/SAIA A11.2-2023)

SAIA (ASC A92) (Scaffold & Access Industry Association)

400 Admiral Boulevard, Kansas City, MO 64106 | celeste@saiaonline.org, www.saiaonline.org

BSR/SAIA A92.2-202x, Standard for Vehicle-Mounted Elevating and Rotating Aerial Devices (revision of ANSI/SAIA A92.2-2021)

SAIA (ASC A92) (Scaffold & Access Industry Association)

400 Admiral Boulevard, Kansas City, MO 64106 | celeste@saiaonline.org, www.saiaonline.org

BSR/SAIA A92.22-202x, Safe Use of Mobile Elevating Work Platforms (MEWPs) (revision of ANSI/SAIA A92.22-2021)

SAIA (ASC A92) (Scaffold & Access Industry Association)

400 Admiral Boulevard, Kansas City, MO 64106 | celeste@saiaonline.org, www.saiaonline.org

BSR/SAIA A92.24-202x, Training Requirements for the Use, Operation, Inspection, Testing and Maintenance of Mobile Elevating Work Platforms (MEWPs) (revision of ANSI/SAIA A92.24-2018)

ULSE (UL Standards & Engagement)

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

BSR/UL 213-202X, Standard for Rubber Gasketed Fittings for Fire-Protection Service (revision of ANSI/UL 213-2022)

ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Annabelle.Hollen@ul.org, <https://ulse.org/>

BSR/UL 401-202x, Standard for Portable Spray Hose Nozzles for Fire-Protection Service (revision of ANSI/UL 401-2022)

ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Annabelle.Hollen@ul.org, <https://ulse.org/>

BSR/UL 752-202x, Standard for Bullet-Resisting Equipment (revision of ANSI/UL 752-2006 (R2021))

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 link is 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.standardstolearn.org

Accreditation Announcements (Standards Developers)

Approval of Accreditation – ASD

SEIA - Solar Energy Industries Association

Effective May 31, 2023

ANSI's Executive Standards Council has approved **SEIA - Solar Energy Industries Association**, as an ANSI Accredited Standards Developer (ASD) under its proposed operating procedures for documenting consensus on SEIA -sponsored American National Standards, effective **May 31, 2023**. For additional information, please contact: Evelyn Butler, Solar Energy Industries Association (SEIA) | 1425 K Street, NW, Suite 1000, Washington, DC 20005 | (202) 681-4156, ebutler@seia.org

Approval of Reaccreditation – ASD

NETA - InterNational Electrical Testing Association

Effective June 2, 2023

The reaccreditation of **NETA - InterNational Electrical Testing Association** has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on NETA-sponsored American National Standards, effective **June 2, 2023**. For additional information, please contact: Tania Brammer, InterNational Electrical Testing Association (NETA) | 3050 Old Centre Road, Suite 101, Portage, MI 49024 | (888) 300-6382, tbrammer@netaworld.org

Meeting Notices (Standards Developers)

ANSI Accredited Standards Developer

B11 - B11 Standards, Inc.

August 2023 Meetings

B11.1 and B11.2

The B11.1 Subcommittee (mechanical power press safety) and the B11.2 Subcommittee (hydraulic and pneumatic press safety) will hold a joint revision meeting to facilitate improved alignment on 1-2 August 2023 at Hyson in Brecksville, OH.

If you have an interest in participating in this meeting as an observer or would like more information, please contact David Felinski at (dfelinski@b11standards.org).

ANSI Accredited Standards Developer

B11 - B11 Standards, Inc.

July 2023 Meetings

B11 Standards Development Committee

The ANSI B11 Standards Development Committee, administered by the Secretariat (B11 Standards, Inc.), will hold its semi-annual meeting on 26-27 July 2023 at the Precision Metalforming Association in Independence, OH.

The B11 SDC is an ANSI-accredited standards committee on the broad topic of machinery safety, and the purpose of this meeting is to discuss ongoing issues and the business of the B11 SDC. This meeting is open to anyone with an interest in safety and the safe use of machines, however, any voting will be restricted to full members of this Committee. If you have an interest in participating in this meeting as an observer or would like more information, please contact David Felinski at (dfelinski@b11standards.org).

B11.18

The B11.18 Subcommittee (Machines Processing or Slitting Coiled or Non-Coiled Metal) will hold an initial revision meeting on 24-25 July 2023 at PMA in Independence, OH.

If you have an interest in participating in this meeting as an observer or would like more information, please contact David Felinski at (dfelinski@b11standards.org).

B11.26

The B11.26 Subcommittee (Functional Safety for Equipment / Machine Control Systems) will hold an initial revision meeting on 27-28 July 2023 at PMA in Independence, OH.

If you have an interest in participating in this meeting as an observer or would like more information, please contact David Felinski at (dfelinski@b11standards.org).

Meeting Notices (Standards Developers)

ANSI Accredited Standards Developer

CSA - CSA America Standards Inc.

July - August 2023 Meetings

The Joint Binational (U.S. and Canada) Technical Committee for Carbon Intensity of Hydrogen will hold a committee meeting on the following dates:

July 11th, 2023 at 1 PM – 4 PM ET

WebEx meeting

For more information contact Anna Copeland, CSA Group at anna.copeland@csagroup.org

August 8th, 2023 at 1 PM – 4 PM ET

WebEx meeting

For more information contact Anna Copeland, CSA Group at anna.copeland@csagroup.org

ANSI Accredited Standards Developer

CSA - CSA America Standards Inc.

Meeting Time: June 22, 2023 at 11:30 am EDT

CSA Group Hydrogen Transportation Technical Committee will meet virtually on June 22, 2023 at 11:30 am EDT via Teleconference/WebEx. For those interested in participating or for additional information, contact Iris Monner at iris.monner@csagroup.org.

American National Standards Under Continuous Maintenance

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

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

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

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AAMI

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Matthew Williams
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AARST

American Association of Radon Scientists
and Technologists
527 N. Justice Street
Hendersonville, NC 28739
www.aarst.org

Gary Hodgden
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AHRI

Air-Conditioning, Heating, and Refrigeration
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2311 Wilson Boulevard, Suite 400
Arlington, VA 22201
www.ahrinet.org

Karl Best
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AMCA

Air Movement and Control Association
30 West University Drive
Arlington Heights, IL 60004
www.amca.org

Shruti Kohli-Bhargava
shrutik@amca.org

ANS

American Nuclear Society
555 North Kensington Avenue
La Grange Pk, IL 60526
www.ans.org

Patricia Schroeder
pschroeder@ans.org

ARESCA

American Renewable Energy Standards
and Certification Association
256 Farrell Farm Road
Norwich, VT 05055
www.aresca.us

George Kelly
secretary@aresca.us

ASABE

American Society of Agricultural and
Biological Engineers
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<https://www.asabe.org/>

Carla Companion
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ASHRAE

American Society of Heating, Refrigerating
and Air-Conditioning Engineers, Inc.
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ASME

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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
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ASTM

ASTM International
100 Barr Harbor Drive
West Conshohocken, PA 19428
www.astm.org

Laura Klineburger
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ATIS

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Washington, DC 20005
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AWS

American Welding Society
8669 NW 36th Street, Suite 130
Miami, FL 33166
www.aws.org

Kevin Bulger
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AWWA

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

Paul Olson
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CSA

CSA America Standards Inc.
8501 East Pleasant Valley Road
Cleveland, OH 44131
www.csagroup.org
Debbie Chesnik
ansi.contact@csagroup.org

CTA

Consumer Technology Association
1919 South Eads Street
Arlington, VA 22202
www.cta.tech
Catrina Akers
cakers@cta.tech

ECIA

Electronic Components Industry
Association
13873 Park Center Road, Suite 315
Herndon, VA 20171
www.ecianow.org
Laura Donohoe
ldonohoe@ecianow.org

IAPMO (ASSE Chapter)

ASSE International Chapter of IAPMO
18927 Hickory Creek Drive, Suite 220
Mokena, IL 60448
www.asse-plumbing.org
Terry Burger
terry.burger@asse-plumbing.org

ICC

International Code Council
4051 Flossmoor Road
Country Club Hills, IL 60478
www.iccsafe.org
Karl Aittaniemi
kaittaniemi@iccsafe.org

ISA (Organization)

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

NEMA (ASC C136)

National Electrical Manufacturers
Association
1300 North 17th Street, Suite 900
Rosslyn, VA 22209
www.nema.org
David Richmond
David.Richmond@nema.org

NISO

National Information Standards
Organization
3600 Clipper Mill Road, Suite 302
Baltimore, MD 21211
www.niso.org
Keondra Bailey
kbailey@niso.org

NSF

NSF International
789 N. Dixboro Road
Ann Arbor, MI 48105
www.nsf.org
Jason Snider
jsnider@nsf.org

PHTA

Pool and Hot Tub Alliance
2111 Eisenhower Avenue
Alexandria, VA 22314
www.PHTA.org
Blake Pavlik
bpavlik@phta.org

SAIA (ASC A11)

Scaffold & Access Industry Association
400 Admiral Boulevard
Kansas City, MO 64106
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Celeste Ortiz
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SAIA (ASC A92)

Scaffold & Access Industry Association
400 Admiral Boulevard
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SCTE

Society of Cable Telecommunications
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ULSE

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Information Concerning

Correction - BSR/BIFMA X10.1-202X

BIFMA - Business and Institutional Furniture Manufacturers Association

Price Correction for Draft BIFMA Standard Announced for Public Comment

The draft price announced in the May 26, 2023 issue of Standards Action for BSR/BIFMA X10.1-202X *Ergonomics Requirements for Furniture Designed for Computer Use* has been updated. The correct price is \$150. Questions may be directed to Steve Kooy skooy@bifma.org.

ANSI Accredited Standards Developer - Stabilized Maintenance

ABMA - American Brush Manufacturers Association

ANS Under Stabilized Maintenance (See 4.7.3 Stabilized maintenance of ANS of the ANSI Essential Requirements)

The following ANS will continue to be maintained under Continuous Maintenance:

- ANSI/ABMA 4-1994 (**S2013**) Tolerance Definitions and Gauging Practices for Ball and Roller Bearings
- ANSI/ABMA 7-1995 (**S2013**) Shaft and Housing Fits for Metric Radial Ball and Roller Bearings - Metric
- ANSI/ABMA 18.1-1982 (**S2013**) Needle Roller Bearings Radial – Metric Design
- ANSI/ABMA 18.2-1982 (**S2013**) Needle Roller Bearings Radial – Inch Design
- ANSI/ABMA 26.2-1994 (**S2013**) Thin Section Ball Bearings - Inch Design

ISO & IEC Draft International Standards



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

COMMENTS

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

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

ORDERING INSTRUCTIONS

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

ISO Standards

Acoustics (TC 43)

ISO 7029:2017/DAMd 1, - Amendment 1: Acoustics - Statistical distribution of hearing thresholds related to age and gender - Amendment 1: Correction of parameter values for estimating the hearing threshold distribution - 8/20/2023, \$33.00

Agricultural food products (TC 34)

ISO 6887-1:2017/DAMd 1, - Amendment 1: Microbiology of the food chain - Preparation of test samples, initial suspension and decimal dilutions for microbiological examination - Part 1: General rules for the preparation of the initial suspension and decimal dilutions - Amendment 1: Requirements and guidance on the use of larger test portion size for qualitative methods - 8/24/2023, \$53.00

ISO/DIS 5642, Tea polyphenol extracts - Definition and basic requirements - 8/18/2023, \$33.00

Aircraft and space vehicles (TC 20)

ISO/DIS 9621, Space systems - Methods to decide thermal vacuum test cycles of recurring production according to precipitation efficiency and reliability - 8/24/2023, \$62.00

ISO/DIS 14953, Space systems - Structural design - Determination of loading levels for static qualification testing of launch vehicles - 8/19/2023, \$33.00

Analysis of gases (TC 158)

ISO/DIS 6143, Gas analysis - Comparison methods for determining and checking the composition of calibration gas mixtures - 8/24/2023, \$107.00

ISO/DIS 14912, Gas analysis - Conversion of gas mixture composition data - 8/24/2023, \$125.00

Cleaning equipment for air and other gases (TC 142)

ISO/DIS 23742, Test method for the evaluation of permeability and filtration efficiency distribution of bag filter medium - 8/18/2023, \$77.00

Concrete, reinforced concrete and pre-stressed concrete (TC 71)

ISO/DIS 22040-2, Life cycle management of concrete structures - Part 2: Structural planning and design stage - 8/20/2023, \$46.00

Industrial automation systems and integration (TC 184)

ISO/DIS 10303-239, Industrial automation systems and integration - Product data representation and exchange - Part 239: Application protocol: Product life cycle support (PLCS) - 8/21/2023, \$203.00

Industrial trucks (TC 110)

ISO/DIS 10896-8, Rough-terrain trucks - Safety requirements and verification - Part 8: Requirements for trucks designed for towing - 8/19/2023, \$82.00

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

ISO/DIS 15590-1, Oil and gas industries including lower carbon energy - Factory bends, fittings and flanges for pipeline transportation systems - Part 1: Induction bends - 8/17/2023, \$102.00

Rubber and rubber products (TC 45)

ISO/DIS 19983, Rubber - Determination of precision of test methods - 8/24/2023, \$107.00

ISO/DIS 3384-1, Rubber, vulcanized or thermoplastic - Determination of stress relaxation in compression - Part 1: Testing at constant temperature - 8/20/2023, \$67.00

Tractors and machinery for agriculture and forestry (TC 23)

ISO/DIS 4254-19.2, Agricultural machinery - Safety - Part 19:
Feed mixing machines - 6/12/2023, \$119.00

Transport information and control systems (TC 204)

ISO/DIS 14813-1, Intelligent transport systems - Reference model
architecture(s) for the ITS sector - Part 1: ITS service domains,
service groups and services - 8/19/2023, \$175.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 23008-6:2021/DAmD 1, - Amendment 1: Information
technology - High efficiency coding and media delivery in
heterogeneous environments - Part 6: 3D audio reference
software - Amendment 1: Corrections for closest loudspeaker
layout and increased software resilience - 8/18/2023,
\$29.00

ISO/IEC DIS 21794-5, Information technology - Plenoptic image
coding system (JPEG Pleno) - Part 5: Holography - 8/19/2023,
\$134.00

ISO/IEC DIS 14496-26, Information technology - Coding of audio-
visual objects - Part 26: Audio conformance - 8/19/2023,
\$215.00

ISO/IEC DIS 23090-31, Information technology - Coded
representation of immersive media - Part 31: Haptics coding -
8/19/2023, \$165.00

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

94/904/CD, IEC 61810-7-33 ED1: Electrical relays - Tests and
Measurements - Part 7-33: Continuity of protective earth
connection, 07/28/2023

94/905/CD, IEC 61810-7-34 ED1: Electrical relays - Testing and
Measurement - Part 7-34: Fluid contamination, 07/28/2023

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

100/3912/CDV, IEC 62889 ED2: Digital video interface - Gigabit
video interface for multimedia systems, 08/25/2023

Capacitors and resistors for electronic equipment (TC 40)

40/3058/FDIS, IEC 60393-3 ED3: Potentiometers for use in
electronic equipment - Part 3: Sectional specification: Rotary
precision potentiometers, 07/14/2023

Electric road vehicles and electric industrial trucks (TC 69)

69/900/CD, IEC 61851-1 ED4: Electric vehicle conductive
charging system - Part 1: General requirements, 09/22/2023

Electric traction equipment (TC 9)

9/2974/FDIS, IEC 62973-5 ED1: Railway applications - Rolling
stock - Batteries for auxiliary power supply systems - Part 5:
Lithium-ion batteries, 07/14/2023

9/2958/CDV, IEC 63438 ED1: Railway applications - Fixed
installations - Protection principles for AC and DC electric
traction power supply systems, 08/25/2023

Electrical accessories (TC 23)

23B/1466/CD, IEC 60669-2-1/AMD1 ED5: Amendment 1 -
Switches for household and similar fixed electrical installations
- Part 2-1: Particular requirements - Electronic control devices,
09/22/2023

23H/529/CD, IEC TS 63379 ED1: Plugs, socket-outlets, vehicle
connectors and vehicle inlets - conductive charging of electric
vehicles - Vehicle connector, vehicle inlet and cable assembly
for Megawatt DC charging, 09/22/2023

Electrical apparatus for explosive atmospheres (TC 31)

31/1706/CD, IEC 60079-42 ED1: Explosive atmospheres - Part
42: Electrical safety devices for the control of potential ignition
sources for Ex-Equipment, 09/22/2023

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

18/1833/CD, IEC 61892-1 ED5: Mobile and fixed offshore units -
Electrical installations - Part 1: General requirements and
conditions, 09/22/2023

18/1834/CD, IEC 61892-2 ED4: Mobile and fixed offshore units -
Electrical installations - Part 2: System design, 09/22/2023

18/1835/CD, IEC 61892-3 ED5: Mobile and fixed offshore units -
Electrical installations - Part 3: Equipment, 09/22/2023

18/1836/CD, IEC 61892-4 ED3: Mobile and fixed offshore units -
Electrical installations - Part 4: Cables, 09/22/2023

18/1837/CD, IEC 61892-5 ED5: Mobile and fixed offshore units -
Electrical installations - Part 5: Mobile units, 09/22/2023

18/1832/CD, IEC 61892-6 ED5: Mobile and fixed offshore units -
Electrical installations - Part 6: Installation, 09/22/2023

18/1838/CD, IEC 61892-7 ED5: Mobile and fixed offshore units -
Electrical installations - Part 7: Hazardous areas, 09/22/2023

Electroacoustics (TC 29)

29/1153/CD, IEC 61252 ED2: Electroacoustics - Personal sound
exposure meters, 08/25/2023

Fibre optics (TC 86)

86B/4756/CDV, IEC 61754-13 ED3: Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 13: Type FC-PC connector family, 08/25/2023

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

115/337A/NP, DC side harmonics & filtering in HVDC transmission systems, 08/18/2023

Industrial-process measurement and control (TC 65)

65/1012(F)/FDIS, IEC 63278-1 ED1: Asset Administration Shell for industrial applications - Part 1: Asset Administration Shell structure, 06/23/2023

Insulating materials (TC 15)

15/1006(F)/FDIS, IEC 60455-2 ED4: Resin based reactive compounds used for electrical insulation - Part 2: Methods of test, 06/30/2023

Insulators (TC 36)

36/569(F)/FDIS, IEC 62772 ED2: Composite hollow core station post insulators for substations with a.c. voltage greater than 1 000 V and d.c. voltage greater than 1 500 V - Definitions, test methods and acceptance criteria, 06/30/2023

Magnetic components and ferrite materials (TC 51)

51/1443/CD, IEC/IEEE 61007-389 ED1: Transformers and inductors for use in electronic and telecommunication equipment - Measuring methods and test procedures, 08/25/2023

Measuring equipment for electromagnetic quantities (TC 85)

85/881/NP, PNW TS 85-881 ED1: Guidance for the verification of residual current monitoring devices (RCMs) in low voltage electrical installations, 08/25/2023

Performance of household electrical appliances (TC 59)

59M/155/CDV, IEC 60704-2-14/AMD2 ED2: Amendment 2 - Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-14: Particular requirements for refrigerators, frozen-food storage cabinets and food freezers, 08/25/2023

Power transformers (TC 14)

14/1115/CD, IEC 60076-1 ED4: Power transformers - Part 1: General, 08/25/2023

14/1114/CD, IEC 60076-2 ED4: Power transformers - Part 2: Temperature rise for liquid-immersed transformers, 08/25/2023

Safety of measuring, control, and laboratory equipment (TC 66)

66/786/FDIS, IEC 61010-2-030 ED3: Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits, 07/14/2023

66/787/FDIS, IEC 61010-2-033 ED3: Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-033: Particular requirements for hand-held multimeters and other meters for domestic and professional use, capable of measuring mains voltage, 07/14/2023

Secondary cells and batteries (TC 21)

21/1170/CD, IEC 62902 ED2: Secondary cells and batteries - Marking symbols for identification of their chemistry, 08/25/2023

Semiconductor devices (TC 47)

47F/431/CDV, IEC 62047-45 ED1: Semiconductor devices - Micro-electromechanical devices - Part 45: Silicon based MEMS fabrication technology - Measurement method of impact resistance of nanostructures, 08/25/2023

47F/432/CDV, IEC 62047-46 ED1: Semiconductor devices - Micro-electromechanical devices - Part 46: Silicon based MEMS fabrication technology - Measurement method of tensile strength of nanoscale membrane, 08/25/2023

47F/433/CDV, IEC 62047-47 ED1: Semiconductor devices - Micro-electromechanical devices - Part 47: Silicon based MEMS fabrication technology - Measurement method of bending strength of microstructures, 08/25/2023

Standard voltages, current ratings and frequencies (TC 8)

8/1663/DTS, IEC TS 62786-3 ED1: Distributed energy resources connection with the grid - Part 3 Additional requirements for Stationary Battery Energy Storage System, 08/25/2023

8B/174/DTS, IEC TS 62898-3-1/AMD1 ED2: Microgrids - Part 3 -1: Technical requirements - Protection and dynamic control, 08/25/2023

Surface mounting technology (TC 91)

91/1868/FDIS, IEC 61523-1 ED3: Delay and power calculation standards - Part 1: Integrated Circuit (IC) Open Library Architecture (OLA), 07/14/2023

91/1870/FDIS, IEC 61523-4 ED2: Delay and power calculation standards - Part 4: Design and Verification of Low-Power, Energy-Aware Electronic Systems, 07/14/2023

91/1871/FDIS, IEC 61691-1-1 ED3: Behavioural languages - Part 1-1: VHDL Language Reference Manual, 07/14/2023

91/1872/FDIS, IEC 62530-2 ED2: SystemVerilog - Part 2:
Universal Verification Methodology Language Reference
Manual, 07/14/2023

91/1869/FDIS, IEC 63055 ED2: Format for LSI-Package-Board
Interoperable design, 07/14/2023

91/1867/FDIS, IEC 63501 ED1: Power Modeling to Enable
System Level Analysis, 07/14/2023

91/1873/FDIS, IEC 63504 ED1: Software-Hardware Interface for
Multi-Many-Core, 07/14/2023

Switchgear and controlgear (TC 17)

17C/897/CD, IEC 62271-201 ED3: High-voltage switchgear and
controlgear - Part 201: AC solid-insulation enclosed switchgear
and controlgear for rated voltages above 1 kV and up to and
including 52 kV, 08/25/2023

17C/898/CD, IEC TR 62271-307 ED2: High-voltage switchgear
and controlgear - Part 307: Guidance for the extension of
validity of type tests of AC metal and solid-insulation enclosed
switchgear and controlgear for rated voltages above 1 kV and
up to and including 52 kV, 08/25/2023

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

121/141/CD, IEC TR 63482 ED1: Maintenance of low voltage
switchgear and controlgear and their assemblies., 08/25/2023

UHV AC transmission systems (TC 122)

122/155/CD, IEC TS 63042-103 ED1: UHV AC transmission
systems - Security and Stability Requirements for System
Planning and Design, 07/28/2023

ISO/IEC JTC 1, Information Technology

(TC)

JTC1-SC41/350/CD, ISO/IEC TR 30189-1 ED1: Internet of Things
(IoT) - IoT-based cultural heritage management - Part 1:
Framework, 07/28/2023



Newly Published ISO & IEC Standards

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

ISO Standards

Agricultural food products (TC 34)

[ISO 16657:2023](#), Sensory analysis - Apparatus - Olive oil tasting glass, \$51.00

Aircraft and space vehicles (TC 20)

[ISO 5491:2023](#), Vertiports - Infrastructure and equipment for vertical take-off and landing (VTOL) of electrically powered cargo unmanned aircraft systems (UAS), \$77.00

[ISO 23460:2023](#), Space projects - Programme management - Dependability assurance requirements, \$116.00

[ISO 14624-5:2023](#), Space systems - Safety and compatibility of materials - Part 5: Determination of reactivity of system/component materials with aerospace propellants, \$77.00

Biotechnology (TC 276)

[ISO 24190:2023](#), Biotechnology - Analytical methods - Risk-based approach for method selection and validation for rapid microbial detection in bioprocesses, \$210.00

Cleaning equipment for air and other gases (TC 142)

[IEC/PAS 63086-3-1:2023](#), \$222.00

Healthcare organization management (TC 304)

[ISO 6028:2023](#), Healthcare organization management - Pandemic response - Functional requirements for self-symptom checker app, \$116.00

Human resource management (TC 260)

[ISO 30405:2023](#), Human resource management - Guidelines on recruitment, \$116.00

Information and documentation (TC 46)

[ISO 11620:2023](#), Information and documentation - Library performance indicators, \$263.00

[ISO 11798:2023](#), Information and documentation - Permanence and durability of writing, printing and copying on paper - Requirements and test methods, \$183.00

Mining (TC 82)

[ISO 22932-3:2023](#), Mining - Vocabulary - Part 3: Rock mechanics, \$51.00

Nuclear energy (TC 85)

[ISO 20045:2023](#), Measurement of the radioactivity in the environment - Air: tritium - Test method using bubbler sampling, \$183.00

Petroleum products and lubricants (TC 28)

[ISO 4266-1:2023](#), Petroleum and liquid petroleum products - Measurement of level and temperature in storage tanks by automatic methods - Part 1: Measurement of level in atmospheric tanks, \$157.00

Pigments, dyestuffs and extenders (TC 256)

[ISO 3262-8:2023](#), Extenders - Specifications and methods of test - Part 8: Natural clay, \$77.00

Plastics (TC 61)

[ISO 180:2023](#), Plastics - Determination of Izod impact strength, \$116.00

[ISO 179-1:2023](#), Plastics - Determination of Charpy impact properties - Part 1: Non-instrumented impact test, \$157.00

[ISO 2113:2023](#), Reinforcement fibres - Woven fabrics - Requirements and specifications, \$77.00

[ISO 6603-2:2023](#), Plastics - Determination of puncture impact behaviour of rigid plastics - Part 2: Instrumented impact testing, \$183.00

[ISO 22526-4:2023](#), Plastics - Carbon and environmental footprint of biobased plastics - Part 4: Environmental (total) footprint (Life cycle assessment), \$157.00

Road vehicles (TC 22)

[ISO 10605:2023](#), Road vehicles - Test methods for electrical disturbances from electrostatic discharge, \$237.00

[ISO 23150:2023](#), Road vehicles - Data communication between sensors and data fusion unit for automated driving functions - Logical interface, \$263.00

Ships and marine technology (TC 8)

[ISO 5556:2023](#), Ships and marine technology - Sea-going vessels - Single-drum winches for oceanographic research, \$77.00

[ISO 24569:2023](#), Ships and marine technology - External firefighting system test methods, \$77.00

Solid mineral fuels (TC 27)

[ISO 4077:2023](#), Coal - Guidance for sampling in coal preparation plants, \$237.00

Textiles (TC 38)

[ISO 9073-1:2023](#), Nonwovens - Test methods - Part 1: Determination of mass per unit area, \$51.00

[ISO 9073-13:2023](#), Nonwovens - Test methods - Part 13: Repeated liquid strike-through time (simulated urine), \$116.00

[ISO 9073-14:2023](#), Nonwovens - Test methods - Part 14: Coverstock wetback (simulated urine), \$116.00

Tractors and machinery for agriculture and forestry (TC 23)

[ISO 6534:2023](#), Forestry machinery - Portable chain-saw hand-guards - Mechanical strength, \$51.00

[ISO 23117-1:2023](#), Agricultural and forestry machinery - Unmanned aerial spraying systems - Part 1: Environmental requirements, \$77.00

Water quality (TC 147)

[ISO 23256:2023](#), Water quality - Detection of selected congeners of polychlorinated dibenzo-p-dioxins and polychlorinated biphenyls - Method using a flow immunosensor technique, \$210.00

Water re-use (TC 282)

[ISO 24575:2023](#), General principles and guidelines for cost analysis in planning of decentralized wastewater treatment and/or reuse, \$157.00

Welding and allied processes (TC 44)

[ISO 13920:2023](#), Welding - General tolerances for welded constructions - Dimensions for lengths and angles, shape and position, \$77.00

ISO Technical Reports**Blockchain and distributed ledger technologies (TC 307)**

[ISO/TR 6039:2023](#), Blockchain and distributed ledger technologies - Identifiers of subjects and objects for the design of blockchain systems, \$210.00

Building construction (TC 59)

[ISO/TR 5202:2023](#), Buildings and civil engineering works - Building resilience strategies related to public health emergencies - Compilation of relevant information, \$183.00

ISO/IEC JTC 1, Information Technology

[ISO/IEC 9075-1:2023](#), Information technology - Database languages SQL - Part 1: Framework (SQL/Framework), \$237.00

[ISO/IEC 9075-2:2023](#), Information technology - Database languages SQL - Part 2: Foundation (SQL/Foundation), \$263.00

[ISO/IEC 9075-3:2023](#), Information technology - Database languages SQL - Part 3: Call-Level Interface (SQL/CLI), \$263.00

[ISO/IEC 9075-4:2023](#), Information technology - Database languages SQL - Part 4: Persistent stored modules (SQL/PSM), \$263.00

[ISO/IEC 9075-9:2023](#), Information technology - Database languages SQL - Part 9: Management of External Data (SQL/MED), \$263.00

[ISO/IEC 9075-10:2023](#), Information technology - Database languages SQL - Part 10: Object language bindings (SQL/OLB), \$263.00

[ISO/IEC 9075-11:2023](#), Information technology - Database languages SQL - Part 11: Information and definition schemas (SQL/Schemata), \$263.00

[ISO/IEC 9075-13:2023](#), Information technology - Database languages SQL - Part 13: SQL Routines and types using the Java™ programming language (SQL/JRT), \$263.00

[ISO/IEC 9075-14:2023](#), Information technology - Database languages SQL - Part 14: XML-Related Specifications (SQL/XML), \$263.00

[ISO/IEC 9075-15:2023](#), Information technology - Database languages SQL - Part 15: Multidimensional arrays (SQL/MDA), \$263.00

[ISO/IEC 9075-16:2023](#), Information technology - Database languages SQL - Part 16: Property Graph Queries (SQL/PGQ), \$263.00

[ISO/IEC 15944-10:2023](#), Information technology - Business operational view - Part 10: IT-enabled coded domains as semantic components in business transactions, \$263.00

[ISO/IEC 23090-14:2023](#), Information technology - Coded representation of immersive media - Part 14: Scene description, \$237.00

[ISO/IEC/IEEE 24748-9:2023](#), Systems and software engineering - Life cycle management - Part 9: Application of system and software life cycle processes in epidemic prevention and control systems, \$210.00

IEC Standards**Electric cables (TC 20)**

[IEC 60840 Amd.1 Ed. 5.0 en:2023](#), Amendment 1 - Power cables with extruded insulation and their accessories for rated voltages above 30 kV (Um= 36 kV) up to 150 kV (Um = 170 kV) - Test methods and requirements, \$278.00

[IEC 60840 Ed. 5.1 en:2023](#), Power cables with extruded insulation and their accessories for rated voltages above 30 kV (Um= 36 kV) up to 150 kV (Um = 170 kV) - Test methods and requirements, \$974.00

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

[IEC 62208 Ed. 3.0 b:2023](#), Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements, \$234.00

[IEC 62208 Ed. 3.0 en:2023 CMV](#), Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements, \$398.00

Accreditation Announcements (U.S. TAGs to ISO)

Approval of Accreditation – U.S. TAG to ISO

TC 287, Sustainable processes for wood and wood-based products

Effective June 1, 2023

ANSI's Executive Standards Council (ExSC) has formally approved the accreditation of the U.S. Technical Advisory Group to ISO **TC 287, Sustainable processes for wood and wood-based products** and the appointment of the ASTM International as TAG Administrator, effective **June 1, 2023**. The TAG will operate under the Model Operating Procedures for U.S. Technical Advisory Groups to ANSI for ISO Activities as contained in Annex A of the ANSI International Procedures. For additional information, please contact: Melissa Marcinowski, ASTM International: P: (610) 832-9626 E: MMarcinowski@astm.org

International Organization for Standardization (ISO)

ISO New Work Item Proposal

Sustainable Raw Materials

Comment Deadline: June 30, 2023

DIN, the ISO member body for Germany, has submitted to ISO a new work item proposal for the development of an ISO standard on Sustainable Raw Materials, with the following scope statement:

This document specifies criteria for sustainable raw materials along industry best practices and is intended to be used for mineral-, raw iron- and non-iron-metals. It is applicable to the full value chain of all raw materials, from extraction (mining) to processing, to refining, to final product manufacturing, thereby including the full upstream and downstream value chain. It does not apply to the mine closure and/or mine reclamation stage activities as these stages are not considered integral parts of the value chain.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on **Friday, June 30, 2023**.

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 non-notified 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: <https://epingalert.org/>

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): https://www.wto.org/english/tratop_e/tbt_e/tbt_e.htm

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

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: https://tcc.export.gov/Report_a_Barrier/index.asp.

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

FAS contribution to free trade agreements: <https://www.fas.usda.gov/topics/trade-policy/trade-agreements>

Tracking regulatory changes: <https://www.fas.usda.gov/tracking-regulatory-changes-wto-members>

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 usatbtep@nist.gov or notifyus@nist.gov.



**BSR/ASHRAE/ASHE Addendum j
to ANSI/ASHRAE/ASHE Standard 170-2021**

Public Review Draft

**Proposed Addendum j to
Standard 170-2021, Ventilation of
Health Care Facilities**

**First Public Review (May 2023)
(Draft shows Proposed Changes to Current Standard)**

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

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FOREWORD

The standard currently addresses single occupancy patient care spaces for behavioral health settings in hospitals but does not address spaces where patient care areas where multiple patients assemble. This proposed addendum addresses the pressure relationship, ventilation, filtration, temperature, and humidity requirements for behavioral health multiple patient assembly areas by adding to Table 7-1.

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Addendum j to 170-2021

Revise Table 7-1 as shown below. The remainder of Table 7-1 is unchanged.

Table 7-1 Design Parameters—Inpatient Spaces (Continued)

| Function of Space (ee) | Pressure Relationship to Adjacent Areas (n) | Minimum Outdoor ach | Minimum Total ach | All Room Air Exhausted Directly to Outdoors (j) | Air Recirculated by Means of Room Units (a) | Unoccupied Turndown | Minimum Filter Efficiencies (cc) | Design Relative Humidity (k), % | Design Temperature (l), °F/°C |
|-------------------------------------------------------------------------------|---------------------------------------------|---------------------|-------------------|-------------------------------------------------|---------------------------------------------|---------------------|----------------------------------|---------------------------------|-------------------------------|
| BEHAVIORAL AND MENTAL HEALTH FACILITIES (k) | | | | | | | | | |
| Patient bedroom, resident room (<i>FGI 2.2–2.12.2 & 2.5–2.2.2</i>) | NR | 2 | 2 | NR | NR | Yes | MERV-8 | NR | NR |
| Seclusion room (<i>FGI 2.1–2.4.3 & 2.2–2.12.4.3</i>) | NR | 2 | 4 | NR | NR | Yes | MERV-8 | NR | NR |
| <u>Resident Group/Multi- Purpose/Activity/Dining (<i>FGI 2.2-3.2.2.3</i>)</u> | <u>NR</u> | <u>2</u> | <u>4</u> | <u>NR</u> | <u>NR</u> | <u>Yes</u> | <u>MERV-8</u> | <u>NR</u> | <u>NR</u> |



**BSR/ASHRAE/IES Addendum h
to ANSI/ASHRAE/IES Standard 90.1-2022**

Public Review Draft

**Proposed Addendum h to
Standard 90.1-2022, Energy Standard
for Sites and Buildings Except Low-
Rise Residential Buildings**

**First Public Review (June 2023)
(Draft Shows Proposed Changes to Current Standard)**

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FOREWORD

Chapter 6, *Heating, Ventilation, and Air Conditioning*, and Chapter 7, *Service Water Heating*, have many efficiency requirements where an exception is provided if some portion of the annual space heating or service water heating provided by a given system is met with on-site renewables.

With the addition of on-site renewable energy requirements in Section 10.5 and the opportunity to use on-site renewable energy to earn energy credits in Chapter 11, the current language could allow double counting, where the on-site renewable energy is used both to meet requirements and gain an exception to efficiency requirements. This addendum removes that possibility by adding language that states that on-site renewable energy used to meet the requirements in Chapter 10 or to gain energy credits in Chapter 11 cannot be used to meet the exception.

The addendum's intent is only to address the potential double counting of efficiency exceptions for on-site renewable resources. The subsections to which the exception applies are shown in their entirety to provide context to commenters and are not in the scope of this proposed addendum. Subsequently, this addendum clarifies the energy use discussed in each exception as annual energy. Commenters who want to suggest changes to the main text are encouraged to submit a Continuous Maintenance Proposal (link below), taken up by SSPC 90.1.

<https://www.ashrae.org/technical-resources/standards-and-guidelines/standards-and-guidelines-under-continuous-maintenance>

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Addendum h to 90.1-2022

Modify Section 6.5.2.1 as follows (I-P and SI):

6.5.2.1 Zone Controls. Zone *thermostatic control* shall prevent *reheating*;

- a. *recooling*;
- b. mixing or simultaneously supplying air that has been previously mechanically heated and air that has been previously cooled, either by *mechanical cooling* or by *economizer systems*; and
- c. other simultaneous operation of heating and cooling *systems* to the same zone.

Exceptions to 6.5.2.1:

...

4. Zones where at least 75% of the annual energy for *reheating* or for providing warm air in mixing *systems* is provided from *site-recovered energy* (including condenser heat) or *on-site renewable energy*. The portion of *on-site renewable energy* used to meet this exception shall not be used to meet the *on-site renewable energy* requirements in Section 10 or to earn *on-site renewable energy* credits in Section 11.

Modify Section 6.5.2.3 as follows (I-P and SI):

6.5.2.3 Dehumidification. Where humidity controls are provided, such controls shall prevent *reheating*, mixing of hot and cold airstreams, or other means of simultaneous heating and cooling of the same airstream.

Exceptions to 6.5.2.3:

...

5. At least 90% of the annual energy for reheating or for providing warm air in mixing systems is provided from site-recovered energy (including condenser heat) or *on-site renewable energy*. The portion of *on-site renewable energy* used to meet this exception shall not be used to meet the *on-site renewable energy* requirements in Section 10 or to earn *on-site renewable energy* credits in Section 11.

Modify Section 6.5.3.5 as follows (I-P and SI):

6.5.3.5 Supply Air Temperature Reset Controls. Multiple zone *HVAC systems* shall include controls that are capable of and configured to *automatically reset* the supply air temperature in response to representative *building loads* or *outdoor air* temperature. The controls shall *reset* the supply air temperature at least 25% of the difference between the design supply air temperature and the design room air temperature. Controls that adjust the *reset* based on zone humidity are allowed in Climate Zones 0B, 1B, 2B, 3B, 3C, and 4 through 8. *HVAC zones* that are expected to experience relatively constant loads shall have maximum air- flow designed to accommodate the fully *reset* supply air temperature.

Exceptions to 6.5.3.5:

...

5. *Systems* in which at least 75% of the annual energy for *reheating* (~~on an annual basis~~) is from *site recovered energy* or *on-site renewable energy*. The portion of *on-site renewable energy* used to meet this exception shall not be used to meet the *on-site renewable energy* requirements in Section 10 or to earn *on-site renewable energy* credits in Section 11.

Modify Section 6.5.4.8 as follows (I-P and SI):

6.5.4.8 Buildings with High-Capacity Space-Heating Gas Boiler Systems. New *buildings* with gas hot-water *boiler systems* for *space* heating with a total *system* input of at least 1,000,000 Btu/h but not more than 10,000,000 Btu/h shall comply with Sections 6.5.4.8.1 and 6.5.4.8.2.

Exceptions to 6.5.4.8:

1. Where 25% of the annual *space* heating requirement is provided by *on-site renewable energy*, *site-recovered energy*, or heat recovery chillers. The portion of *on-site renewable energy* used to meet this exception shall not be used to meet the *on-site renewable energy* requirements in Section 10 or to earn *on-site renewable energy* credits in Section 11.

Modify Section 6.5.6.1.2 as follows (I-P and SI):

6.5.6.1.2 Spaces Other than Nontransient Dwelling Units. Each fan *system* serving *spaces* other than *nontransient dwelling units* shall have an *energy* recovery *system* where the design supply fan airflow rate exceeds the value listed in Tables 6.5.6.1.2-1 and 6.5.6.1.2-2, based on the climate zone and percentage of *outdoor air* at design airflow conditions. Table 6.5.6.1.2-1 shall be used for all *ventilation systems* that operate less than 8000 hours per year, and Table 6.5.6.1.2-2 shall be used for all *ventilation systems* that operate 8000 or more hours per year.

Exceptions to 6.5.6.1.2:

...

1. Heating *energy* recovery where more than 60% of the annual *outdoor air* heating *energy* is provided from *site-recovered energy* or *on-site renewable energy* in Climate Zones 5 through 8. The portion of *on-site renewable energy* used to meet this exception shall not be used to meet the *on-site renewable energy* requirements in Section 10 or to earn *on-site renewable energy* credits in Section 11.

Modify Section 6.5.6.2 as follows (I-P and SI):

6.5.6.2 Heat Recovery for Service Water Heating

6.5.6.2.1 Condenser heat recovery *systems* shall be installed for heating or preheating of service hot water provided all of the following are true:

- a. The facility operates 24 hours a day.
- b. The total installed heat-rejection capacity of the water-cooled *systems* exceeds 6,000,000 Btu/h of heat rejection.
- c. The design *service water-heating* load exceeds 1,000,000 Btu/h.

6.5.6.2.2 The required heat recovery *system* shall have the capacity to provide the smaller of

- a. 60% of the peak heat-rejection load at *design conditions* or
- b. preheat of the peak service hot water draw to 85°F.

Exceptions to 6.5.6.2.2:

1. Facilities that employ condenser heat recovery for *space* heating with a heat recovery design exceeding 30% of the peak water-cooled condenser load at *design conditions*.
2. Facilities that provide 60% of their annual *service water heating* from *on-site renewable energy* or *site-recovered energy* or from other sources. The portion of *on-site renewable energy* used to meet this exception shall not be used to meet the *on-site renewable energy* requirements in Section 10 or to earn *on-site renewable energy* credits in Section 11.

Modify Section 7.4.5.2 as follows (I-P and SI):

7.4.5.2 Pool Covers. Heated *pools* shall be equipped with a vapor retardant *pool* cover on or at the water surface. *Pools* heated to more than 90°F shall have a *pool* cover with a minimum insulation value of R-12.

Exception to 7.4.5.2: *Pools* deriving over 60% of the annual energy for heating from *site-recovered energy* or *on-site renewable energy*. The portion of *on-site renewable energy* used to meet this exception shall not be used to meet the *on-site renewable energy* requirements in Section 10 or to earn *on-site renewable energy* credits in Section 11.



**BSR/ASHRAE/IES Addendum i
to ANSI/ASHRAE/IES Standard 90.1-2022**

Public Review Draft

**Proposed Addendum i to
Standard 90.1-2022, Energy Standard
for Sites and Buildings Except
Low-Rise Residential Buildings**

**First Public Review (June 2023)
(Draft Shows Proposed Changes to Current Standard)**

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FOREWORD

This addendum modifies service water heating energy credit measure W08. The International Plumbing Code has revised the maximum flow rate for showerheads down from 2.5 gpm (0.16 L/s) to 2.0 gpm (0.13 L/s). Further, a review of the piping resizing measure found that the anticipated heat loss reduction from the smaller piping was a very small savings in relation to the fixture flow reduction savings. This addendum reduces the showerhead flow rate required for energy credits from 2.0 gpm (0.13 L/s) to 1.8 gpm (0.11 L/s), removes the requirements and savings related to the hot water piping resizing, and adjusts base credits achieved accordingly.

This is an optional energy credit choice and the showerhead flow of 1.8 gpm (0.11 L/s) matches new construction showerhead requirements in several states: California (since 2018), Washington, Oregon, Hawaii, Maine, and some local municipalities. Where low water supply pressures are anticipated, user satisfaction may be enhanced if flow restrictors or fixtures are specified to provide $\geq 80\%$ of the rated flow at 20 psi (140 kPa).

There are also revisions to the abbreviated measure name.

Cost-effectiveness was not considered for this measure, as it is an option that can be applied to meeting energy credit requirements, and those requirements are not increased by this addendum. Generally, there is no price premium for low flow plumbing fixtures.

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Addendum i to 90.1-2022

Modify the standard as follows (IP and SI Units)

11.5.2.3.5: W08: ~~Right Sizing the~~ Reduce Residential Service Hot Water Fixture Flow Distribution System

To achieve this credit, where multifamily, dormitory, retirement, or hotel/motel buildings are served by a central service hot water system, the ~~distribution system~~ serving dwelling units and guest rooms shall be sized using IAPMO/ANSI WE●Stand—2017 Water Efficiency and Sanitation Standard for the Built Environment,



**BSR/ASHRAE/IES Addendum j
to ANSI/ASHRAE/IES Standard 90.1-2022**

Public Review Draft

**Proposed Addendum j to
Standard 90.1-2022, Energy Standard
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FOREWORD

This proposal adds the Mechanical System Performance Rating Method as a more flexible HVAC energy credit measure. This is an alternative to the simplified efficiency measures H02 and H03, and also is an alternative to measure H05 ground source heat pump and measure H06 dedicated outdoor system. Those measures remain in the energy credits, so they can be used alternatively for a project without using the Mechanical System Performance Rating Method.

Similar to the Improved Envelope Performance energy credit measure (E01), H01 reflects the system energy impact of the proposed mechanical system compared to a target system. When the total system performance ratio (TSPR) is greater than the target system, it indicates energy savings. Energy credits based on a 5% overall increase in delivered HVAC ideal energy are included in the tables. Since the change in TSPR reflects the change in HVAC energy cost, energy credits are determined based on the HVAC percentage of total building energy cost. HVAC energy cost is calculated based on the 90.1-2022 progress indicator prototype simulations with the following results:

HVAC energy cost as a percentage of total building energy cost.

| Bldg. Use CZ: | 0A | 1A | 2A | 3A | 4A | 5A | 6A | 0B | 1B | 2B | 3B | 4B | 5B | 6B | 7 | 8 | 3C | 4C | 5C |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Office | 46% | 40% | 36% | 32% | 30% | 32% | 38% | 46% | 42% | 36% | 32% | 30% | 30% | 34% | 36% | 44% | 22% | 22% | 22% |
| Multifamily | 46% | 42% | 32% | 24% | 26% | 24% | 26% | 44% | 38% | 30% | 26% | 20% | 22% | 22% | 24% | 26% | 10% | 18% | 12% |
| Hotel/Motel | 54% | 50% | 46% | 38% | 34% | 32% | 34% | 52% | 48% | 40% | 36% | 32% | 32% | 32% | 36% | 40% | 30% | 24% | 26% |
| Education | 64% | 56% | 52% | 44% | 40% | 38% | 42% | 62% | 58% | 46% | 40% | 36% | 36% | 36% | 42% | 44% | 36% | 30% | 30% |
| Retail | 64% | 54% | 48% | 44% | 44% | 44% | 50% | 62% | 58% | 46% | 40% | 40% | 42% | 46% | 48% | 50% | 32% | 36% | 36% |

The energy credits can be prorated between a 5% and 20% increase in TSPR, reflecting an improvement in overall HVAC system performance.

Cost-effectiveness was not considered for this measure, as it is another option among many that can be applied to meeting energy credit requirements, and those requirements are not increased by this proposal.

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Addendum j to 90.1-2022

Modify the standard as follows (IP and SI Units)

11.5.2.2 Improved HVAC Performance. ~~To achieve these credits, equipment shall provide HVAC performance improvement in accordance Sections 11.5.2.2.2, 11.5.2.2.3, 11.5.2.2.4, 11.5.2.2.5, 11.5.2.2.6.~~

~~Equipment shall also meet applicable requirements of Sections 6.4 and 6.5. Credits shall be as shown in Section 11.5.3 or as specified in each subsection for building use types where base credits are included in Section 11.5.3 tables. Use of multiple credits from this section shall be allowed.~~ Systems are permitted to achieve HVAC energy credits by meeting the requirements of one of the following:

- a. Section 11.5.2.2.1, H01
- b. Section 11.5.2.2.2, H02
- c. Section 11.5.2.2.3, H03
- d. Section 11.5.2.2.4, H04
- e. Section 11.5.2.2.5, H05
- f. Section 11.5.2.2.6, H06
- g. Section 11.5.2.2.7, H07
- h. Any combination of H02, H03, H04, H05, H06, and H07
- i. Any combination of H01, H04, and H07

11.5.2.2.1 H01: HVAC System Performance Improvement (Reserved)

For systems allowed to use Section 6.6.2, Mechanical System Performance Path, the proposed $TSPR$ calculated in accordance with Normative Appendix L shall exceed the minimum requirement by 5% or more. If improvement is greater than 5%, base energy credits from Tables 11.5.3-1 through 11.5.3-9 are permitted to be prorated up to a 20 percent improvement as follows:

$$EC_{H01_adj} = EC_{H01_base} \times \frac{TSPR_{sav}}{0.05}$$

The range of allowed credit adjustment shall be limited as follows:

$$0.05 \leq TSPR_{sav} \leq 0.20$$

Where:

EC_{H01_adj} = energy credits achieved for improved mechanical system performance

EC_{H01_base} = H01 base energy credit from Section 11.5.3

$$TSPR_{sav} = \frac{\left(TSPR_p - \frac{TSPR_r}{MPF} \right)}{\frac{TSPR_r}{MPF}}$$

Where:

$TSPR_p$ = proposed $TSPR$ calculated in accordance with Normative Appendix L

$TSPR_r$ = reference $TSPR$ calculated in accordance with Normative Appendix L

MPF = mechanical performance factor from Table 6.6.2.2 based on climate zone and building use type. Where a building has multiple building use types, MPF shall be area weighted as described in Section 6.6.2.2.

Insert base energy credit rows for measure H01 in Tables 11.5.3-1 through 11.5.3-9 as follows:

Table 11.5.3-1 Energy Credits for Multifamily

| ID | Energy Credit Abbreviated Title | Section | 0A | 0B | 1A | 1B | 2A | 2B | 3A | 3B | 3C | 4A | 4B | 4C | 5A | 5B | 5C | 6A | 6B | 7 | 8 |
|-----|---------------------------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| H01 | HVAC Performance | 11.5.2.2.1 | 23 | 22 | 21 | 19 | 16 | 15 | 12 | 13 | 5 | 13 | 10 | 9 | 12 | 11 | 6 | 13 | 11 | 12 | 13 |

Table 11.5.3-2 Energy Credits for Health Care Buildings

| ID | Energy Credit Abbreviated Title | Section | 0A | 0B | 1A | 1B | 2A | 2B | 3A | 3B | 3C | 4A | 4B | 4C | 5A | 5B | 5C | 6A | 6B | 7 | 8 |
|-----|---------------------------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|
| H01 | HVAC Performance | 11.5.2.2.1 | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |

Table 11.5.3-3 Energy Credits for Hotel/Motel

| ID | Energy Credit Abbreviated Title | Section | 0A | 0B | 1A | 1B | 2A | 2B | 3A | 3B | 3C | 4A | 4B | 4C | 5A | 5B | 5C | 6A | 6B | 7 | 8 |
|-----|---------------------------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| H01 | HVAC Performance | 11.5.2.2.1 | 27 | 26 | 25 | 24 | 23 | 20 | 19 | 18 | 15 | 17 | 16 | 12 | 16 | 16 | 13 | 17 | 16 | 18 | 20 |

Table 11.5.3-4 Energy Credits for Office Buildings

| ID | Energy Credit Abbreviated Title | Section | 0A | 0B | 1A | 1B | 2A | 2B | 3A | 3B | 3C | 4A | 4B | 4C | 5A | 5B | 5C | 6A | 6B | 7 | 8 |
|-----|---------------------------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| H01 | HVAC Performance | 11.5.2.2.1 | 23 | 23 | 20 | 21 | 18 | 18 | 16 | 16 | 11 | 15 | 15 | 11 | 16 | 15 | 11 | 19 | 17 | 18 | 22 |

Table 11.5.3-5 Energy Credits for Restaurant Buildings

| ID | Energy Credit Abbreviated Title | Section | 0A | 0B | 1A | 1B | 2A | 2B | 3A | 3B | 3C | 4A | 4B | 4C | 5A | 5B | 5C | 6A | 6B | 7 | 8 |
|-----|---------------------------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|
| H01 | HVAC Performance | 11.5.2.2.1 | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |

Table 11.5.3-6 Energy Credits for Retail Buildings

| ID | Energy Credit Abbreviated Title | Section | 0A | 0B | 1A | 1B | 2A | 2B | 3A | 3B | 3C | 4A | 4B | 4C | 5A | 5B | 5C | 6A | 6B | 7 | 8 |
|-----|---------------------------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| H01 | HVAC Performance | 11.5.2.2.1 | 32 | 31 | 27 | 29 | 24 | 23 | 22 | 20 | 16 | 22 | 20 | 18 | 22 | 21 | 18 | 25 | 23 | 24 | 25 |

Table 11.5.3-7 Energy Credits for Education Buildings

| ID | Energy Credit Abbreviated Title | Section | 0A | 0B | 1A | 1B | 2A | 2B | 3A | 3B | 3C | 4A | 4B | 4C | 5A | 5B | 5C | 6A | 6B | 7 | 8 |
|-----|---------------------------------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| H01 | HVAC Performance | 11.5.2.2.1 | 32 | 31 | 28 | 29 | 26 | 23 | 22 | 20 | 18 | 20 | 18 | 15 | 19 | 18 | 15 | 21 | 18 | 21 | 22 |

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

NSF/ANSI Standard
for Wastewater Technology –

Onsite Residential and Commercial Water Reuse Treatment Systems

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8 Performance testing and evaluation

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8.4 Sample collection

The following requirements apply to all reuse systems evaluated in accordance with Sections 8.1, 8.2, and 8.3.

For systems with storage of treated reuse water, samples shall be collected from the outlet of the storage component. For those systems without storage of treated reuse water, samples shall be collected from the outlet of the final treatment component.

8.4.1 Sample frequency

8.4.1.1 Greywater

Influent samples shall be collected two times per week, except for the following (which shall be collected one time per week): total phosphorous, COD, and total coliform. Influent hardness and alkalinity samples shall be collected every two weeks on the same day as influent samples. Effluent samples shall be collected three times per week during design loading periods and three times during each stress recovery period (the week following completion of each of the stress simulations described in Section 8.1.2.2.2). Influent samples shall be collected on the same day as effluent samples during each stress recovery period. Effluent samples shall be collected two times per week during all stress events, except power / equipment failure stress and vacation stress where no samples shall be collected. Color, odor, oily film and foam on the effluent once every 2 mo (8 wk [56 d]) for a total of three samples over the course of the test.

8.4.1.2 Residential wastewater

Influent residential wastewater samples shall be collected three times per week, except for the following (which shall be collected one time per week): total phosphorous, COD, and total coliforms. Effluent samples shall be collected three times per week during design loading periods and three times during each stress recovery period. Influent samples shall be collected on the same day as effluent samples during each stress

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recovery period. Effluent samples shall be collected two times per week during all stress events, except power / equipment failure stress and vacation stress where no samples shall be collected. Color, odor, oily film and foam on the effluent once every 2 mo (8 wk [56 d]) for a total of three samples over the course of the test.

8.4.2 All sample collection methods shall be in accordance with *Standard Methods*^{Error! Bookmark not defined.} unless otherwise specified.

8.4.3 Influent and effluent wastewater samples shall be collected in accordance with the table below. Influent samples shall be obtained during periods of system dosing, and effluent samples shall be obtained during periods of system discharge. Effluent samples shall be representative of all treated effluent discharged from the system, as sampled from a central point of collection of all treated effluent. 24-h composite samples shall be flow-proportional. The location of the grab sample shall be appropriate to provide a sample that is representative of the influent or effluent. Systems containing storage of treated greywater shall be sampled at the outlet of the storage container. Grab samples shall be collected during the morning dosing period for gravity flow systems and during a time of discharge for systems that are pump discharged.

| Parameter | Sample type | Sample location | |
|----------------------------------|---------------------------|-----------------|------------------|
| | | Raw influent | Treated effluent |
| BOD ₅ | 24-h composite | X | — |
| CBOD ₅ | 24-h composite | — | X |
| total suspended solids | 24-h composite | X | X |
| pH | grab | X | X |
| temperature (°C) | grab | X | — |
| <i>E. coli</i> | grab | X | X |
| turbidity | 24-h composite | X | X |
| disinfectant ¹ | grab or 24-h composite | — | X |
| TKN | 24-h composite | X | — |
| NO ₂ /NO ₃ | 24-h composite | X | — |
| total phosphorous | 24-h composite | X | — |
| COD | 24-h composite | X | — |
| total coliforms | grab | X | — |
| alkalinity | grab or 24-h composite | X | — |
| hardness | grab or 24-h composite | X | — |

If the treatment system introduces a disinfectant, the disinfectant shall be measured in the effluent sample. The sample type shall be 24-h composite except when the disinfectant is not stable for 24 h, in which case grab samples shall be collected.

When preparing a batch of synthetic greywater to dose a greywater system, hardness and alkalinity adjustment may be completed and measured before addition of other ingredients as the other ingredients

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have a negligible impact on these parameters. When taking this approach, hardness and alkalinity are measured from grab samples. Hardness and alkalinity are measured from the 24-h composite sample for other influent preparation methods.

NOTE — Manufacturers may request additional sampling during testing dependent on end use of the effluent.

8.4.4 For systems seeking concurrent certification of a single system, or systems with multiple effluent sampling locations, separated by disinfection devices, one 24-h composite effluent TSS and CBOD sample can be collected from the sample location immediately upstream of the first disinfection device in the series. These TSS and CBOD samples are then applicable for other downstream sampling locations.

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BSR/UL 401, Standard for Safety for Portable Spray Hose Nozzles for Fire-Protection Service

1. Post Testing for Nozzles with Polymeric Parts

PROPOSAL

23 Polymeric Nozzle Parts Tests

23.1 General

~~23.1.1 A polymeric nozzle or a nozzle containing polymeric parts (except those constructed of polytetrafluoroethylene) that impact the nozzle performance or ability to operate the nozzle shall not crack, craze, leak, or burst when subjected in succession to the Rough Usage Test, Section 18, Leakage Test, Section 19, and Hydrostatic Pressure Test, Section 20, after being subjected in three separate groups of three samples each to the tests described in 23.2.1—23.4.~~

A nozzle constructed using polymeric parts that impact the nozzle performance or operation shall be subjected to the exposures described in 23.2-23.4 in three separate groups of three samples in each group. Following these exposures, fully-assembled nozzle samples shall not crack, craze, or break when dropped as described in the Rough Usage Test, Section 18. Each sample nozzle assembly shall then comply with the applicable tests as follows based on the function of the polymeric component:

- a) For polymeric parts that impact the discharge characteristics, conduct the Discharge Calibration Test, Section 10.
- b) For polymeric parts that control nozzle functions, such as the pattern selection, flush, flow adjustment and shutoff, conduct the Test on Controls, Section 14, as applicable to each polymeric control feature.
- c) For polymeric parts that impact pressure retention, conduct the Leakage Test, Section 19, and Hydrostatic Pressure Test, Section 20.
- d) For polymeric grips, hand holds, or ladder hooks, conduct the Tests on Hand Holds, Grips, and Ladder Hooks, Section 15.

Exception No. 1: Samples subjected to the Rough Usage Test after the Air-Oven Aging Test are to be dropped only once in the uncharged nozzle-hose assembly drop orientations, specified in 18.

Exception No. 2: Elastomeric components are permitted to be replaced prior to conducting the postexposure tests.

Exception No. 3: Polymeric parts constructed of polytetrafluoroethylene (PTFE) are exempted from these requirements.

2. FLUSH Mode at the Rated Inlet Pressure

PROPOSAL

14.8 Subsequent to the testing described in 14.6, the sample nozzle is to be subjected to a pressure of 1-1/2 times the rated inlet pressure but not less than 300 psi (2070 kPa), for 1 minute with the nozzle closed. After the supply pressure has been reduced to the rated inlet pressure and before making any other adjustments to the nozzle controls, the operating force required to just open (for rotational type control) or to open (for lever type control) is to be measured in accordance with the method described in 14.6 except that the rated inlet pressure is to be applied to the nozzle rather than 100 psig (689 kPa). All nozzle functions, such as pattern selection, **flush**, flow adjustments, and shutoff, are then to be tested and observations made for proper functioning. The remaining operating force measurements of the rotational or lever type control are then to be taken in accordance with the method described in 14.6 except that the rated inlet pressure is to be applied to the nozzle rather than 100 psig (689 kPa).

[Exception: A flush feature as a nozzle function is not required to be tested to the raised rated inlet pressure.](#)

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BSR/UL 1740, Standard for Safety for Robots and Robotic Equipment

1. Revision of spacing requirements

PROPOSAL

32.3 Robotic systems, robotic applications and robot cells shall comply with the applicable safety requirements of ISO 10218-2.

2. Requirements for end-effectors

PROPOSAL

35A End Effectors

35A.1 End-effectors and their integrations shall comply with the applicable requirements in ISO 10218-1 Robotics – Safety Design for Industrial Robot Systems. Further guidance is available in ISO TR 20218-1.

3. Batteries and Battery Circuits

PROPOSAL

41 Batteries and Battery Circuits

41.1 General

41.1.1 A battery, batteries and battery packs, shall comply with the requirements in this section, ~~and Energy Storage and Energy Storage Circuit Tests – Electrical, Section 51.~~ For batteries that are used for position memory and other functional parameters, the test in Energy Source Low Voltage – Program Memory Loss, Section 51, shall be performed.

41.2 Battery ~~and fuel cell~~ terminals

41.2.1 The terminals of a battery ~~or a fuel cell~~ shall be protected or located so they cannot be inadvertently short circuited during installation, replacement, or while in service.

41.3 Lithium batteries (rechargeable/secondary)

41.3.1 A lithium ion ~~and other lithium battery circuit, a primary or secondary circuit that obtains power from lithium batteries,~~ shall have cells that comply with:

- a) ~~The Standard for Lithium Batteries, UL 1642;~~
- b) ~~The requirements in the Standard for 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, UL 62133;~~
- c) ~~The requirements for secondary lithium cells in the Standard for Batteries for Use in Electric Vehicles, UL 2580; or~~
- d) ~~The requirements for secondary lithium cells in the Standard for Batteries for Use in Light Electric Rail (LER) Applications and Stationary Applications, UL 1973.~~

41.3.2 ~~Lithium ion and other lithium cells that are configured into battery modules or battery packs shall~~ comply with:

- a) ~~The Standard for Household and Commercial Batteries, UL 2054;~~
- b) ~~The Standard for Batteries for Use in Electric Vehicles, UL 2580;~~

- e) ~~The Standard for Batteries for Use in Light Electric Rail (LER) Applications and Stationary Applications, UL 1973; or~~
- d) ~~The Standard for Batteries for Use in Light Electric Vehicle (LEV) Applications, UL 2271.~~

41.3.3 A lithium ion and other rechargeable lithium batteries shall comply with:

- a) The Standard for Household and Commercial Batteries, UL 2054, for low voltage and low energy applications only;
- b) The Standard for 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, UL 62133-2;
- c) The Standard for Batteries for Use in Electric Vehicles, UL 2580, for all battery applications;
- d) The Standard for Batteries for Use in Stationary and Motive Auxiliary Power Applications, UL 1973, for all battery applications; or
- e) The Standard for Batteries for Use in Light Electric Vehicle (LEV) Applications, UL 2271, for all battery applications.

41.3A Lithium Non-Rechargeable Batteries (primary)

41.3A.1 Non-rechargeable lithium batteries shall comply with:

- a) The Standard for Lithium Batteries, UL 1642, or
- b) The Standard for Primary Batteries – Part 4: Safety of Lithium Batteries, UL 60086-4.

41.3A.2 Lithium non-rechargeable batteries shall be protected against abnormal charging currents by the use of:

- a) Two blocking components, such as diodes; or
- b) One blocking component and one current limiting component, such as a resistor or a fuse. The current limiting component shall limit the abnormal charging current to 1/3 or less of the manufacturers specified abnormal charging current value.

41.3B Lead acid batteries

41.3B.1 Lead acid batteries shall comply with:

- a) The Standard for Standby Batteries, UL 1989, or
- b) The Standard for Batteries for Use in Stationary and Motive Auxiliary Power Applications, UL 1973.

41.4 Non-lithium battery circuits

41.4.1 A non-lithium battery circuit (a primary or secondary circuit that obtains power from rechargeable or non-rechargeable) non-lithium batteries, shall comply with the:

- a) ~~Primary non-rechargeable or secondary rechargeable/non-rechargeable requirements in Energy Storage and Energy Storage Circuit Tests – Electrical, Section 51; and~~
- b) ~~Primary circuit requirements in this standard or with the secondary circuit requirements in this standard.~~

41.5 Fuel cells

41.5.1 Fuel cells shall comply with the requirements in:

- a) Standard for Fuel Cell Power Systems for Installation in Industrial Electric Trucks, UL 2267; or
- b) Stationary Fuel Cell Power Systems, ANSI/FC 1; or
- c) Portable Fuel Cell Power Systems, ANSI/FC 3.

41.6 Electrochemical capacitors

41.6.1 Electrochemical capacitor cells and modules shall comply with the requirements for cells and modules in the Standard for Electrochemical Capacitors, UL 810A.

51 Energy Storage and Energy Storage Circuit Tests – Electrical Energy Source Low Voltage – Program Memory Loss

~~51.1 Battery or super-capacitor (Ultra-cap) overcharge~~

~~51.1.1 A fully charged rechargeable battery or super-capacitor is to be overcharged:~~

- ~~a) With the charging circuit adjusted for the maximum charging rate; and again~~
- ~~b) With any single junction or part of an electronic device or electrolytic capacitor in the charging circuit either short-circuited or open-circuited.~~

~~51.1.2 The robotic equipment incorporating a battery or super-capacitor is to be connected to a rated supply circuit and fused appropriately. A single layer of a flame indicator, of the type described in [55.1](#), is to be draped loosely over the battery or super-capacitor enclosure and a 3 A nontime-delay fuse is to be connected from accessible conductive parts to earth ground.~~

~~51.1.3 In addition to any of the unacceptable conditions described in [51.4.1](#) there shall not be any indication of fire or rupturing of the 3 A nontime-delay fuse.~~

~~51.2 Battery or super-capacitor discharge~~

~~51.2.1 Short-circuiting of unreliable components — such as microprocessor memory devices, semiconductors — (one at a time) connected to the terminals of a fully charged (rechargeable) battery or super-capacitor shall not result in any of the unacceptable conditions described in [51.1.3](#) and [51.4.1](#).~~

~~51.3 Battery / battery pack drop~~

~~51.3.1 Each of three samples of a fully charged user-replaceable rechargeable battery or battery pack is to be dropped three times from a minimum height of 915 mm (3 ft) onto a concrete floor in the position most likely to produce adverse results without producing any of the unacceptable conditions described in [51.4.1](#).~~

~~Exception: Batteries that have been previously evaluated to the Battery Drop Test do not need to be retested.~~

~~51.4 Energy storage test results~~

~~51.4.1 The results of the tests shall be considered unacceptable if one or more of the following occur:~~

- ~~a) The battery or super-capacitor case cracks.~~
- ~~b) Battery or super-capacitor electrolyte leaks from the case.~~
- ~~c) The battery or super-capacitor explodes.~~

51.5 Energy Source low voltage – program memory loss

51.5.1 To determine that no hazard exists should the memory backup energy source deplete to an unfunctional level and not be replaced or recharged, primary power is to be shut down for a minimum of 30 minutes, and the control system is allowed to lose all memory previously retained by the energy storage backup. This may cause the robot to be unaware of its position and job function. Then the system is to be reenergized with primary power and not result in risk of injury to persons when normal functions are attempted without energy memory backup. As an option, the battery or ~~super-capacitor~~ electrochemical capacitor circuit terminals may be discharged.

4. Clarification of water exposure requirements

PROPOSAL

48 Robots Intended for Use in Water Environments

48.1 Cord-and-plug connected equipment ~~rated for a nominal 120, 208, or 240 V supply that is intended for use in an environment that involves the exposure to presence of water, such as water jet cutting, glass beveling, and polishing, shall comply with its rated water exposure (Type or IP). If there is no Type or IP rating, it shall be exposed to 7 hours of water under the most severe intended mode of operation and conditions stated in the manufacturer's user manual. In either case, the robot or robot system shall additionally comply with the requirements for Leakage Current Test, Section 47.~~ the requirements for Leakage Current Test, Section 47, following exposure to 7 hours of water under the most severe intended mode of operating conditions, as stated in the manufacturer's user manual. At the conclusion of the leakage current measurement, a visual inspection is to be performed if water entry may involve a risk of fire, electric shock, or injury to persons.

48.2 Permanently connected equipment that is intended for use in an environment that involves exposure ~~to water shall comply with its rated water exposure (Type or IP). If there is no Type or IP rating, it shall be exposed to a minimum of 7 hours of water under intended operating conditions as stated in the manufacturer's user manual.~~ or its rated water exposure (TYPE or IP), whichever condition is more severe. At the conclusion, a visual inspection is to be performed if water entry may involve a risk of fire, electric shock, or injury to persons.

49 Outdoor-Use Tests

49.1 A robot or robotic system intended to be used outdoors shall be evaluated to determine the effects of anticipated environmental conditions to which they will be exposed. These include, but are not limited to: Ultraviolet Exposure and Rain Tests described in the Standard for Enclosures for Electrical Equipment, Environmental Consideration, UL 50E. A robot or robotic system intended to be used outdoors shall be provided with either a Type rating in accordance with UL 50E, or an IP rating in accordance with the Standard for Degrees of Protection Provided by Enclosures (IP Code), IEC 60529. The Type or IP rating specified by the manufacturer shall comply with the specific requirements for that Type rating or IP rating as specified in the respective standard.