ANSI STANDARDS ACTION

PUBLISHED WEEKLY BY THE AMERICAN NATIONAL STANDARDS INSTITUTE 25 W43RD STREET NY, NY 10036

VOL. 54, NO. 10 MARCH 10, 2023

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ISSN 0038-9633

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.

AMPP (Association for Materials Protection and Performance)

Richard Southard <rick.southard@ampp.org> | 15835 Park Ten Place | Houston, TX 77084 www.ampp.org

National Adoption

BSR/AMPP NACE TM0294/ISO 19097-1-202x, Accelerated Life Test Method of Mixed Metal Oxide Anodes for Cathodic Protection — Part 1: Application in Concrete (identical national adoption of ISO 19097-1:2018)
Stakeholders: Mixed metal oxide anode users, manufacturers, and specifiers. Impressed current cathodic protection system users, manufacturers, and specifiers.

Project Need: This is for the identical back-adoption of the ISO standard.

Interest Categories: User, Producer, and General Interest

Scope: This document is applicable to mixed metal oxide (MMO) anodes intended for impressed current cathodic protection use in concrete. It specifies accelerated life test methods for these MMO anodes. The accelerated life test results can be used to compare the durability of the anodes and to evaluate whether the anodes can comply with required specifications of design life expectancy at rated current output. This document is also applicable to other anode systems that are used as impressed current anodes embedded in concrete with suitably modified apparatus to hold anodes of different geometry. These test methods are not intended to predict the exact service life of the anodes in practical applications, but to provide users and manufacturers of MMO anodes a way to evaluate whether the designed life expectancy can be achieved.

ASTM (ASTM International)

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

New Standard

ASTM WK85367202x, New Test Method for Identification of Compounds Related to Organic Gunshot Residue (OGSR) by Liquid Chromatography-Mass Spectrometry (LC-MS) (new standard)
Stakeholders: Criminalistics Industry.

Project Need: Gunshot residue (GSR) examination is typically performed to determine if an object was exposed to firearm discharge. GSR analysis has historically relied upon the detection of IGSR, as described in Practice E1588, which originates primarily from the ammunition primer (pGSR).

Interest Categories: Producer, User, General Interest

Scope: This standard covers the qualitative analysis of extracts using liquid chromatography-mass spectrometry (LC-MS) to identify compounds related to organic gunshot residue (OGSR).

ASTM (ASTM International)

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

New Standard

BSR/ASTM WK85368-202x, New Test Method for Identification of Compounds Related to Organic Gunshot Residue (OGSR) by Gas Chromatography-Mass Spectrometry (GC-MS) (new standard)
Stakeholders: Criminalistics Industry.

Project Need: Gunshot residue (GSR) examination is typically performed to determine if an individual or object was exposed to firearm discharge. GSR analysis has historically relied upon the detection of IGSR, as described in Practice E1588, which originates primarily from the ammunition primer (pGSR).

Interest Categories: Producer, User, General Interest

Scope: This standard covers the qualitative analysis of extracts using electron impact ionization-gas chromatography-mass spectrometry (GC-(EI)MS) to identify compounds related to organic gunshot residue (OGSR).

CTA (Consumer Technology Association)

Catrina Akers <cakers@cta.tech> | 1919 South Eads Street | Arlington, VA 22202 www.cta.tech

New Standard

BSR/CTA 490-B-202x, Test Methods of Measurement for Audio Amplifiers (new standard)
Stakeholders: Consumers, manufacturers, retailers.

Project Need: Revise the standard test methods of measurement for Audio Amplifiers.

Interest Categories: General interest, producer, user.

Scope: This standard defines test conditions and test measurement procedures for determining various performance characteristics of single-channel and multi-channel power amplifiers, pre-amplifiers, integrated amplifiers, receivers, and tuner/pre-amplifiers that use AC mains power. These performance characteristics include power output, total harmonic distortion (THD), and sensitivity, among others. This is a revision.

ECIA (Electronic Components Industry Association)

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

Revision

BSR/EIA 364-46D-202x, Microsecond Discontinuity Test Procedure for Electrical Connectors, Contacts and Sockets (revision and redesignation of ANSI/EIA 364-46C-2012 (R2019))
Stakeholders: Electronics, electrical and telecommunications industries.

Project Need: Revise and redesignate current ANS.

Interest Categories: User, Producer, General Interest;

Scope: This procedure is to define a method of detecting a discontinuity of one microsecond or longer in a mated electrical connector, contact or socket. This procedure shall not be used for durations less than one microsecond; see EIA-364-87, Test Procedure for Nanosecond Event Detection.

ECIA (Electronic Components Industry Association)

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

Revision

BSR/EIA 364-53C-202x, Nitric Acid Vapor Test, Gold Finish Test Procedure for Electrical Connectors and Sockets (revision and redesignation of ANSI/EIA 364-53B-2000 (R2021))
Stakeholders: Electronics, electrical and telecommunications industries.

Project Need: Revise and redesignate current ANS.

Interest Categories: User, Producer, General Interest.

Scope: This standard establishes test methods to determine the magnitude of porosity as well as other surface defects inherent in application of gold contact finishes.

ICC (International Code Council)

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

New Standard

BSR/ICCPC-202x, International Code Council Performance Code (new standard)
Stakeholders: Manufacturers, builders, owners, design professionals, certification agencies, building and fire officials and other governmental (or regulatory) authorities.

Project Need: Rapid change related to the acceleration of new technology, pressures from climate change and population growth make it difficult for traditional prescriptive regulatory approaches to remain current. The ICCPC is intended to provide an enhanced regulatory tool to address these issues including ongoing operational performance and functional recovery needed for a healthier and more sustainable built environment. The development of the ICCPC will better align with actual performance across numerous disciplines, facilitate more robust solutions and have stronger linkages to design methods, tools, and data. This can be a tool for countries such as the US that have a robust system of prescriptive codes and standards and associated building regulatory systems to assist in the adoption of new and sustainable technologies. The ICCPC can also serve as a critical framework for those countries without such systems in place. Additional information can be found at https://www.iccsafe.org/products-and-services/performance-code/.

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

Scope: To provide performance-based requirements for buildings and structures and includes provisions for structural strength, stability, sanitation, means of access and egress, light and ventilation, safety to life and protection of property from fire, sustainability, energy performance, indoor air quality, and mechanisms to facilitate community resilience and, in general, to secure life and property from other hazards affecting the built environment. Includes provisions for the use and occupancy of buildings, structures, facilities and premises, their alteration, repair, maintenance, removal, demolition, and the installation and maintenance of amenities including, but not limited to, such services as the electrical, gas, mechanical, plumbing, energy conservation and building transportation systems; and for the storage, handling and use of explosive, flammable and combustible materials, hazardous materials and dangerous operations and processes. The ICCPC will also address building performance in use (outcomes) as well as at the design stage and functional recovery, as a means to support community resilience.

TIA (Telecommunications Industry Association)

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

Revision

BSR/TIA 5050-A-202x, Telecommunications, Communications Products, Receive Volume Control Requirements for Wireless (Mobile) Devices (revision and redesignation of ANSI/TIA 5050-2018)
Stakeholders: Manufacturers, users, distributors of wireless mobile devices.

Project Need: Update standard.

Interest Categories: User, Producer, and General Interest.

Scope: The project is to revised ANSI/TIA-5050 to become ANSI/TIA-5050-A The scope of the revisions will be limited to the following: â€¢ Conversational Gain requirements (test method was not questioned). â€¢ SDNR requirements and test method (including possibly modifying the test methods and requirements to address distortion only instead of SDNR: refer to submission from John Bareham). â€¢ Frequency response requirements (mask) (test method was not questioned). â€¢ Noise (would be a new requirement and test method if SDNR test is changed to distortion only). â€¢ Diffuse field conversion table/formula to use. â€¢ If to add a maximum allowed conversational gain (noted that this may have implications for acoustic safety requirements, which TIA-TR -41 has historically not addressed for telecommunications devicesâ€™ performance standards). â€¢ If to continue to include requirements addressed for hearing aid users and non-hearing aid users (it was noted that this may not have been included in the ATIS HAC Task Force FCC waiver request). â€¢ Configurations for testing: Which codecs to test? â€¢ Configurations for testing: Which audio bandwidths to test (NB, WB, SWB, FB)?

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: April 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 Addendum 55i-202x, Thermal Environmental Conditions for Human Occupancy (addenda to ANSI/ASHRAE Standard 55-2020)
Proposed Addendum i to Standard 55-2020 updates normative references to updated versions of ASHRAE publications.
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 cw 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)
In response to the first round of public review comments, this independent substantive change lowers the additional lighting power allowance for interior exit stairways and updates the associated control requirements.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: standards.section@ashrae.org

Comment Deadline: April 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 d 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)
Proposes an adjustment to values for achieving Energy Credit H05 (Ground-Source Heat Pump System) in Climate Zones 0A, 0B, and 1A to reflect that a smaller ground source field can be accommodated using a larger heat rejection device.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: standards.section@ashrae.org

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

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

Addenda

BSR/ASHRAE/IES Addendum f 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)
Modifies portions of Section 12 (Energy Cost Budget) and Appendix G (Performance Rating Method) to align HVAC and lighting schedules with settings that are eligible for Energy Credits through Section 11.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: standards.section@ashrae.org

RESNET (Residential Energy Services Network, Inc.)

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

Addenda

BSR/RESNET/ICC 380-202x Addendum A-202x, Reference Standards (addenda to ANSI/RESNET/ICC 380-2022)
Addendum A updates and clarifies the editions of ANSI/RESNET/ICC 301 and ASTM E1554-13 referenced by standard ANSI/RESNET/ICC 380-2022.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: RESNET using the online comment form which is accessed by following the “ANSI Standards & Amendments Out For Public Comment” link on webpage: https://www.resnet.us/about/standards/standards-currently-out-for-public-comment/ then selecting the link to this

ULSE (UL Standards & Engagement)

9 Burlington Crescent, Ottawa, ON K1T3L1 | celine.eid@ul.org, https://ulse.org/

Revision

BSR/UL 360-202x, Standard for Safety for Liquid-Tight Flexible Metal Conduit (revision of ANSI/UL 360-2021)
Stainless Steel LFMC as an Equipment Grounding Conductor (EGC) in the 2023 NEC
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: April 9, 2023

ULSE (UL Standards & Engagement)

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

Revision

BSR/UL 493-202X, Standard for Safety for Thermoplastic-Insulated Underground Feeder and Branch-Circuit Cables (revision of ANSI/UL 493-2023)
Tag Marking, Revised 6.2.3 and 6.2.4
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

ULSE (UL Standards & Engagement)

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

Revision

BSR/UL 746B-202X, Standard for Polymeric Materials - Long Term Property Evaluations (revision of ANSI/UL 746B-2022)
This proposal coves the following topics: a) Correction of Equation Graphic Provided in Paragraph 19.4 and b) Addition of Requirements for Heat Aging of Polymeric Films and Thin Sheets in a New Subsection 21.4 and Table 21.6
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Derrick Martin; Derrick.L.Martin@ul.org

ULSE (UL Standards & Engagement)

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

Revision

BSR/UL 1026-202x, Standard for Safety for Electric Household Cooking Appliances (revision of ANSI/UL 1026 -2021)
This proposal for UL 1026 covers: 1. Addition of UL 969A as an Alternative to Existing Permanency of Marking Requirements for Cord Tags 2. Clarify Strain Relief Test Requirement
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: April 24, 2023

AAMI (Association for the Advancement of Medical Instrumentation)

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

National Adoption

BSR/AAMI/ISO 20417-202x, Medical devices - Information to be supplied by the manufacturer (identical national adoption of ISO 20417:2021)
Specifies the requirements for information supplied by the manufacturer for a medical device or by the manufacturer for an accessory. This document includes the generally applicable requirements for identification and labels on a medical device or accessory, the packaging, marking of a medical device or accessory, and accompanying information.
Single copy price: Free
Obtain an electronic copy from: abenedict@aami.org
Send comments (copy psa@ansi.org) to: Amanda Benedict <abenedict@aami.org>

Comment Deadline: April 24, 2023

ASA (ASC S12) (Acoustical Society of America)

1305 Walt Whitman Road, Suite 300, Melville, NY 11747 | standards@acousticalsociety.org, www.acousticalsociety.org

Withdrawal

ANSI/ASA S12.58-2012 (R2019), Sound Power Level Determination for Sources Using a Single-Source Position (withdrawal of ANSI ASA S12.58-2012 (R2019))
This standard describes a method for the determination of sound power levels of noise sources that emit broadband sound and/or discrete frequency sounds/tones using reverberation rooms. The standard applies when it is either undesirable or unfeasible to move the source to decrease the uncertainty of the measurement. The method described requires reverberation room prequalification through test and requires the use of the comparison method to determine sound power levels. This standard specifies the physical environment, procedures, and equipment used to qualify the reverberation room by test. Pre-qualifying the room ensures adequate modal density for the use of one source location to obtain acceptable accuracy and repeatability of results. The reference sound source (RSS) used for the comparison method relies on AHRI Standard 250 to accurately describe the requirements for and characterize sound power of the RSS at all frequencies of interest.
Single copy price: $121.00
Obtain an electronic copy from: standards@acousticalsociety.org
Send comments (copy psa@ansi.org) to: Same

ASA (ASC S3) (Acoustical Society of America)

1305 Walt Whitman Road, Suite 300, Melville, NY 11747 | standards@acousticalsociety.org, www.acousticalsociety.org

Reaffirmation

BSR/ASA S3.55-2014/Part 1/IEC 60318-1:2009 (R202x), Electroacoustics - Simulators of Human Head and Ear - Part 1: Ear Simulator for the Measurement of Supra-aural and Circumaural Earphones (a nationally adopted international standard) (reaffirm a national adoption ANSI/ASA S3.55-2014/Part 1/IEC 60318-1:2009 (R2019))
ANSI/ASA S3.55-2014 / IEC 60318-1:2009 specifies an ear simulator for the measurement of supra-aural and circumaural earphones (used for example in audiometry and telephonometry) applied to the ear without acoustical leakage, in the frequency range from 20 Hz to 10 kHz. The same device can be used as an acoustic coupler at additional frequencies up to 16 kHz.
Single copy price: $139.00
Obtain an electronic copy from: standards@acousticalsociety.org
Send comments (copy psa@ansi.org) to: Same

ASABE (American Society of Agricultural and Biological Engineers)

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

Revision

BSR/ASAE S422.2 MONYEAR-202x, Mapping Symbols and Nomenclature for Erosion and Sediment Control Plans for Land Disturbing Activities (revision and redesignation of ANSI/ASAE S422.1-2015 (R2019))
The purpose of this Standard is to establish a list of standard descriptive elements for use in erosion- and sediment-control plan development. These elements consist of mapping symbols, keys, modifiers, and corresponding nomenclature. By improving consistency across plans, this Standard should facilitate the use and review of such plans by contractors and other professionals. The standard does not imply that these practices are suitable for erosion or sediment control in any or all applications and it should not be used in lieu of other construction information.
Single copy price: $78.00
Obtain an electronic copy from: walsh@asabe.org
Send comments (copy psa@ansi.org) to: Same

Comment Deadline: April 24, 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 b 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 clarifies lighting terminology which previously led to confusion over the difference between lighting power allowance (LPA) and lighting power density (LPD). It also provides explicit instructions for using the LPD to determine the lighting allowance for a particular area. Finally, this addendum rearranges some of the existing lighting requirements in an effort to achieve greater clarity around Section 9 compliance.
Single copy price: $35.00
Obtain an electronic copy from: standards.section@ashrae.org
Send comments (copy psa@ansi.org) to: https://www.ashrae.org/technical-resources/standards-andguidelines/public-review-drafts

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

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

Addenda

BSR/ASHRAE/IES Addendum b 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)
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Send comments (copy psa@ansi.org) to: https://www.ashrae.org/technical-resources/standards-andguidelines/public-review-drafts

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

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

Revision

BSR/ASHRAE Standard 86-202x, Method of Testing the Floc Point of Refrigeration-Grade Oils (revision of ANSI/ASHRAE Standard 86-2013 (R2016))
This revision of ANSI/ASHRAE Standard 86-2013 provides a method for measuring the waxing tendency of refrigeration-grade oils.
Single copy price: $35.00
Obtain an electronic copy from: http://www.ashrae.org/standards-research--technology/public-review-drafts
Send comments (copy psa@ansi.org) to: http://www.ashrae.org/standards-research--technology/public-review-drafts

Comment Deadline: April 24, 2023

AWS (American Welding Society)

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

New Standard

BSR/AWS B5.4-202x, Specification for the Qualification of Welder Test Facilities (Historical) (new standard)
This specification defines the requirements to qualify welder test facilities. It details the methods of qualification, test facility requirements, and the assessment requirements.
Single copy price: $26.00 (AWS Members)/$34.50 (Nonmembers)
Obtain an electronic copy from: bboddiger@aws.org
Send comments (copy psa@ansi.org) to: Brenda Boddiger <bboddiger@aws.org>

AWS (American Welding Society)

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

Revision

BSR/AWS D14.0/D14.0M-202x, Machinery and Equipment Welding Specification (revision, redesignation and consolidation of ANSI/AWS D14.3/D14.3M-2018, ANSI/AWS D14.4/D14.4M-2019, ANSI/AWS D14.5/D14.5M -2009, and AWS D14.1/D14.1M)
This specification establishes design, manufacture, quality, inspection, and repair requirements for carbon, low-alloy, and alloy steel welded connections in machinery and equipment. It addresses topics including weld joint design, workmanship, quality acceptance criteria, nondestructive examination methods (visual, radiographic, ultrasonic, magnetic particle, and liquid penetrant), repair of weld defects, and postweld heat treatment.
Single copy price: $100.00 (Members)/$134.00 (Non-Members)
Obtain an electronic copy from: kbulger@aws.org
Send comments (copy psa@ansi.org) to: Same

AWWA (American Water Works Association)

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

Revision

BSR/AWWA C907-202x, Injection-Molded Polyvinyl Chloride (PVC) Pressure Fittings, 4 In. Through 12 In. (100 mm Through 300 mm) (revision of ANSI/AWWA C907-2017)
This standard describes Pressure Class 235 (PC 235) polyvinyl chloride (PVC) injection-molded fittings with push-on rubber-gasketed joints in nominal sizes 4 in. through 12 in. (100 mm through 300 mm) for conveying potable water, reclaimed water, irrigation water, wastewater, or any fluid compatible with nonplasticized PVC.
Single copy price: Free
Obtain an electronic copy from: ETSsupport@awwa.org
Send comments (copy psa@ansi.org) to: AWWA, Paul Olson <polson@awwa.org>

Comment Deadline: April 24, 2023

CSA (CSA America Standards Inc.)

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

New Standard

BSR/CSA C22.2 No. 340-202x, Battery Management Systems (new standard)
This Standard applies to battery management systems (BMSs) that are composed of hardware and software that monitor, control, optimize, and regulate electrical and thermal parameters such that the battery pack safely operates under specific conditions. A BMS may be equipped with other functionalities including taking actions to avoid hazardous consequences, battery power isolation, and external communication capabilities. The Standard also applies to BMSs used with batteries that are installed in accordance with CSA C22.1, Canadian Electrical Code, Part I, in Canada or NFPA 70 in the U.S. in stationary applications (e.g., energy storage systems, uninterruptible power systems, auxiliary power systems) and in power mobility applications (e.g., electric vehicles, light electric rail). This Standard does not apply to BMSs used with batteries in portable applications for which the end product standards contain requirements for BMSs, such as appliances, machinery, power tools, and consumer electronics.
Single copy price: $500.00
Obtain an electronic copy from: ansi.contact@csagroup.org
Send comments (copy psa@ansi.org) to: Same

CSA (CSA America Standards Inc.)

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

Reaffirmation

BSR/CSA CHMC 1-2014 (R202x), Test methods for evaluating material compatibility in compressed hydrogen applications - Metals (reaffirmation of ANSI/CSA CHMC 1-2014)
This standard provides uniform test methods for evaluating material compatibility with compressed hydrogen applications. The results of these tests are intended to provide a basic comparison of materials performance in applications utilizing compressed hydrogen. This standard is not intended to replace sound engineering judgment; additional testing considerations may be necessary to fully qualify the design of a component manufactured for use in certain hydrogen applications. This standard applies to metallic materials only.
Single copy price: Free
Obtain an electronic copy from: ansi.contact@csagroup.org
Send comments (copy psa@ansi.org) to: Same

CSA (CSA America Standards Inc.)

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

Reaffirmation

BSR/CSA HGV 4.8-2012 (R202x), Hydrogen gas vehicle fueling station compressor guidelines (reaffirmation of ANSI/CSA HGV 4.8-2012)
This standard contains safety requirements for material, design, manufacture and testing of gaseous hydrogen compressor packages used in fueling station service. This standard applies to newly manufactured equipment designed primarily to provide compressed hydrogen for vehicle fueling stations. This standard does not apply to Vehicle Fueling Appliances for HGV; compressor packages used for non-vehicular fuel applications (e.g. power generation units); or internal combustion engine driven compressors.
Single copy price: Free
Obtain an electronic copy from: ansi.contact@csagroup.org
Send comments (copy psa@ansi.org) to: Same

Comment Deadline: April 24, 2023

CSA (CSA America Standards Inc.)

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

Revision

BSR/CSA HGV 2-202x, Compressed hydrogen gas vehicle fuel containers (revision of ANSI/CSA HGV 2-2021)
This Standard contains requirements for the material, design, manufacture, and testing of serially produced, refillable Type HGV2 containers intended only for the storage of compressed hydrogen gas for on-road vehicle operation. The major changes to this edition include the following: a) incorporation of requirements from CSA B51, Part 2; and b) harmonization and clarification of test requirements.
Single copy price: Free
Obtain an electronic copy from: ANSI.contact@csagroup.org
Send comments (copy psa@ansi.org) to: ANSI.contact@csagroup.org

CTA (Consumer Technology Association)

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

New Standard

BSR/CTA 2065.1-202x, Physical Activity Monitoring for Heart Rate - Real World Analysis (new standard)
This standard extends CTA-2065 to add new protocols for real-world analysis for consumer technology that measures heart rate.
Single copy price: Free
Obtain an electronic copy from: standards@cta.tech
Send comments (copy psa@ansi.org) to: Catrina Akers <cakers@cta.tech>

CTA (Consumer Technology Association)

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

Revision

BSR/CTA 2065-A-202x, Physical Activity Monitoring for Heart Rate (revision and redesignation of ANSI/CTA 2065 -2018)
This standard creates definitions and performance criteria for consumer technology that measures heart rate.
Single copy price: Free
Obtain an electronic copy from: standards@cta.tech
Send comments (copy psa@ansi.org) to: Catrina Akers <cakers@cta.tech>

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

New Standard

BSR/ES1.2-202x, Event Safety - Planning, Management, and Major Incident (new standard)
This standard describes a process for event organizers and supporting staff to create and implement event-related plans for health and safety management. This process includes a framework, guidelines, and recommended practices that can be used to reduce risk as much as reasonably practical and to respond appropriately when an incident occurs.
Single copy price: Free
Obtain an electronic copy from: https://tsp.esta.org/tsp/documents/public_review_docs.php
Send comments (copy psa@ansi.org) to: Karl Ruling <standards@esta.org>

Comment Deadline: April 24, 2023

HPVA (Hardwood Plywood Veneer Association)

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

Revision

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

NEMA (ASC C18) (National Electrical Manufacturers Association)

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

Revision

BSR C18.4M-202x, Standard for Portable Cells and Batteries - Environmental (revision of ANSI C18.4M-2017)
This standard applies to all chemistries of portable primary cells and batteries standardized in the ANSI C18 series.
Single copy price: $130.00
Obtain an electronic copy from: communication@nema.org
Send comments (copy psa@ansi.org) to: Khaled Masri <Khaled.Masri@nema.org>

NEMA (ASC C8) (National Electrical Manufacturers Association)

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

Revision

BSR ICEA S-121-733-202X, Tree Wire and Messenger Supported Spacer Cable (revision and redesignation of ANSI/ICEA S-121-733-2016)
This standard applies to the materials, constructions, and testing of tree wire and messenger supported spacer cable. These conductors are intended primarily for the distribution of electrical energy under normal conditions of overhead (aerial) installations.
Single copy price: $120.00
Obtain an electronic copy from: communication@nema.org
Send comments (copy psa@ansi.org) to: Same

Comment Deadline: April 24, 2023

NEMA (ASC C8) (National Electrical Manufacturers Association)

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

Revision

BSR ICEA S-87-640-202x, Standard for Optical Fiber Outside Plant Communication Cable (revision and redesignation of ANSI/ICEA S-87-640-2016)
This Standard covers optical fiber communications cable intended for outdoor use and normally installed aerially, directly buried, or placed in underground ducts.
Single copy price: $228.00
Obtain an electronic copy from: Khaled.Masri@nema.org
Send comments (copy psa@ansi.org) to: Same

SDI (Steel Deck Institute)

1731 NW 6th Street, Suite D, Gainesville, FL 32609 | tsputo50@gmail.com, www.sdi.org

New Standard

BSR/SDI COSP-202x, Code of Standard Practice for Steel Deck (new standard)
The Code of Standard Practice for Steel Deck, with accompanying non-mandatory commentary and user notes, sets forth criteria for the trade practices involved in the design, supply and installation of cold formed steel deck used in floor and roof applications, in buildings and similar structures.
Single copy price: Free
Obtain an electronic copy from: tsputo50@gmail.com
Send comments (copy psa@ansi.org) to: Same

TIA (Telecommunications Industry Association)

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

Revision

BSR/TIA 1179-B-202x, Healthcare Facility Telecommunications Infrastructure Standard (revision and redesignation of ANSI/TIA 1179-A-2017)
This Standard specifies requirements for telecommunications infrastructure for healthcare facilities (e.g. hospitals, clinics). It specifies cabling, cabling topologies, and cabling distances. Additionally, pathways and spaces (e.g. sizing and location), and ancillary requirements are addressed. Telecommunications cabling specified by this standard is intended to support a wide range of healthcare facilities and systems.
Single copy price: $60.00
Obtain an electronic copy from: standards-process@tiaonline.org
Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

ULSE (UL Standards & Engagement)

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

National Adoption

BSR/UL 12402-6-202X, Standard for Personal Flotation Devices - Part 6: Special Purpose Lifejackets and Buoyancy Aids - Safety Requirements and Additional Test Methods (national adoption with modifications of ISO 12402-6)
ULSE proposes a recirculation of the UL 12402-6 proposal dated September 9, 2022.
Single copy price: Free
Obtain an electronic copy from: https://csds.ul.com/Home/ProposalsDefault.aspx
Send comments (copy psa@ansi.org) to: Nicolette Weeks, Nicolette.A.Weeks@ul.org

Comment Deadline: May 9, 2023

ASME (American Society of Mechanical Engineers)

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

New Standard

BSR/ASME A17.9/CSA B44.9-202x, Elevator Buffers (new standard)
This Standard covers mechanical requirements of construction, marking, and type testing requirements for oil buffers and elastomeric buffers intended to be installed in passenger and freight elevators in accordance with ASME A17.1/CSA B44.
Single copy price: Free
Order from: https://cstools.asme.org/csconnect/PublicReviewPage.cfm
Send comments (copy psa@ansi.org) to: Geraldine Burdeshaw <burdeshawg@asme.org>

ASME (American Society of Mechanical Engineers)

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

Revision

BSR/ASME TDP-1-202x, Prevention of Water Damage to Steam Turbines Used for Electric Power Generation: Fossil-Fueled Plants (revision and redesignation of ANSI/ASME TDP-1-2013)
This Standard includes recommended practices concerned primarily with the prevention of water damage to steam turbines used for fossil-fuel-fired electric power generation. The practices address damage due to water, wet steam, and steam backflow into a steam turbine. The practices are applicable to conventional steam cycle, combined cycle, and cogeneration plants. The practices cover design, operation, inspection, testing, and maintenance of those aspects of the following power plant systems and equipment concerned with preventing the induction of water into steam turbines: (a) motive steam systems (b) steam attemperation systems (c) turbine extraction/admission systems (d) feedwater heaters (e) turbine drain system (f) turbine steam seal system (g) start-up systems (h) condenser steam and water dumps (i) steam generator sources Any connection to the turbine is a potential source of water either by induction from external equipment or by accumulation of condensed steam. The sources treated herein specifically are those found to be most frequently involved in causing damage to turbines. Although water induction into the high and intermediate pressure turbines has historically been recognized as the most damaging, experience has shown that water induction in low pressure turbines can cause significant damage and should also be taken seriously. This Standard is not intended to impose new requirements retroactively for existing facilities.
Single copy price: Free
Order from: https://cstools.asme.org/csconnect/PublicReviewPage.cfm
Send comments (copy psa@ansi.org) to: Daniel Wiener <WienerD@asme.org>

Comment Deadline: May 9, 2023

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

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

National Adoption

INCITS/ISO 6709:2022 [202x], Standard representation of geographic point location by coordinates (identical national adoption of ISO 6709:2022 and revision of INCITS/ISO 6709:2008 [R2018]
INCITS/ISO 6709:2008/COR 1:2009 [R2020])
Specifies the representation of latitude and longitude and optionally height or depth compatible with previous editions of ISO 6709. This document also supports the representations of other coordinate types and time that can be associated with those coordinates as defined through one or more coordinate reference systems (CRS).
Single copy price: $175.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

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

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

National Adoption

INCITS/ISO 19107:2019 [202x], Geographic information - Spatial schema (identical national adoption of ISO 19107:2019 and revision of INCITS/ISO 19107:2003 [R2018])
Specifies conceptual schemas for describing the spatial characteristics of geographic entities, and a set of spatial operations consistent with these schemas. It treats "vector" geometry and topology. It defines standard spatial operations for use in access, query, management, processing and data exchange of geographic information for spatial (geometric and topological) objects.
Single copy price: $250.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

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

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

National Adoption

INCITS/ISO/IEC 7812-2:2017 [202x], Identification cards - Identification of issuers - Part 2: Application and registration procedures (identical national adoption of ISO/IEC 7812-2:2017 and revision of INCITS/ISO/IEC 7812-2:2007 [R2018])
Specifies the application and registration procedures for Issuer Identification Numbers (IINs) issued in accordance with ISO/IEC 7812-1.
Single copy price: $73.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

Comment Deadline: May 9, 2023

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

National Adoption

INCITS/ISO/IEC 11770-3:2021 [202x], Information security - Key management - Part 3: Mechanisms using asymmetric techniques (identical national adoption of ISO/IEC 11770-3:2021 and revision of INCITS/ISO/IEC 11770-3:2015 [2018]
INCITS/ISO/IEC 11770-3:2015/AM1:2017 [2022]
INCITS/ISO/IEC 11770-3:2015/COR 1:2016 [2019])
Defines key management mechanisms based on asymmetric cryptographic techniques. It specifically addresses the use of asymmetric techniques to achieve the following goals: a) Establish a shared secret key for use in a symmetric cryptographic technique between two entities A and B by key agreement, b) Establish a shared secret key for use in a symmetric cryptographic technique between two entities A and B via key transport, and c) Make an entity's public key available to other entities via key transport. In a public key transport mechanism, the public key of entity A is transferred to other entities in an authenticated way, but not requiring secrecy.
Single copy price: $250.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

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

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

National Adoption

INCITS/ISO/IEC 14888-3:2018 [202x], IT Security techniques - Digital signatures with appendix - Part 3: Discrete logarithm based mechanisms (identical national adoption of ISO/IEC 14888-3:2018 and revision of INCITS/ISO/IEC 14888-3:2016 [2018])
Specifies digital signature mechanisms with appendix whose security is based on the discrete logarithm problem. Provides a general description of a digital signature with appendix mechanism, and a variety of mechanisms that provide digital signatures with appendix. For each mechanism, this document specifies the process of generating a pair of keys, the process of producing signatures, and the process of verifying signatures.
Single copy price: $250.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

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

National Adoption

INCITS/ISO/IEC 15408-2:2022 [202x], Information security, cybersecurity and privacy protection - Evaluation criteria for IT security - Part 2: Security functional components (identical national adoption of ISO/IEC 15408 -2:2022 and revision of INCITS/ISO/IEC 15408-2:2008 [R2018])
Defines the required structure and content of security functional components for the purpose of security evaluation. It includes a catalogue of functional components that meets the common security functionality requirements of many IT products.
Single copy price: $250.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

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

National Adoption

INCITS/ISO/IEC 15408-3:2022 [202x], Information security, cybersecurity and privacy protection - Evaluation criteria for IT security - Part 3: Security assurance components (identical national adoption of ISO/IEC 15408 -3:2022 and revision of INCITS/ISO/IEC 15408-3:2008 [R2018])
Defines the assurance requirements of the ISO/IEC 15408 series. It includes the individual assurance components from which the evaluation assurance levels and other packages contained in ISO/IEC 15408-5 are composed, and the criteria for evaluation of Protection Profiles (PPs), PP-Configurations, PP-Modules, and Security Targets (STs).
Single copy price: $250.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

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

National Adoption

INCITS/ISO/IEC 15444-2:2021 [202x], Information technology - JPEG 2000 image coding system - Part 2: Extensions (identical national adoption of ISO/IEC 15444-2:2021 and revision of INCITS/ISO/IEC 15444-2:2021 [202x])
Defines a set of lossless (bit-preserving) and lossy compression methods for coding continuous-tone, bi-level, grey-scale, colour digital still images, or multi-component images.
Single copy price: $250.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

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

National Adoption

INCITS/ISO/IEC 19794-14:2022 [202x], Information technology - Biometric data interchange formats - Part 14: DNA data (identical national adoption of ISO/IEC 19794-14:2022 and revision of INCITS/ISO/IEC 19794 -14:2013 [R2018])
Specifies a data interchange format for the exchange of deoxyribonucleic acid (DNA) data for person identification or verification technologies that utilize human DNA. Consideration of laboratory procedures is out of scope of this document. This document provides the ability for DNA profile data to be exchanged and used for comparison (subject to privacy regulations) with DNA profile data produced by any other system that is based on a compatible DNA profiling technique and where the data format conforms to this document.
Single copy price: $250.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

Comment Deadline: May 9, 2023

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

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

National Adoption

INCITS/ISO/IEC 20000-2:2019 [202x], Information technology - Service management - Part 2: Guidance on the application of service management systems (identical national adoption of ISO/IEC 20000-2:2019 and revision of INCITS/ISO/IEC 20000-2:2012 [2018])
Provides guidance on the application of a service management system (SMS) based on ISO/IEC 20000-1. It provides examples and recommendations to enable organizations to interpret and apply ISO/IEC 20000-1, including references to other parts of ISO/IEC 20000 and other relevant standards.
Single copy price: $225.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

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

National Adoption

INCITS/ISO/IEC 20000-3:2019 [202x], Information technology - Service management - Part 3: Guidance on scope definition and applicability of ISO/IEC 20000-1 (identical national adoption of ISO/IEC 20000-3:2019 and revision of INCITS/ISO/IEC 20000-3:2012 [2018])
Includes guidance on the scope definition and applicability to the requirements specified in ISO/IEC 20000-1. This document can assist in establishing whether ISO/IEC 20000-1 is applicable to an organization's circumstances. It illustrates how the scope of an SMS can be defined, irrespective of whether the organization has experience of defining the scope of other management systems. The guidance in this document can assist an organization in planning and preparing for a conformity assessment against ISO/IEC 20000-1.
Single copy price: $175.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

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National Adoption

INCITS/ISO/IEC 30105-4:2022 [202x], Information technology - IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes - Part 4: Key concepts (identical national adoption of ISO/IEC 30105 -4:2022 and revision of INCITS/ISO/IEC 30105-4:2016 [2018])
Specifies the lifecycle process requirements performed by the IT enabled business process outsourcing service provider for the outsourced business processes. It defines the processes to plan, establish, implement, operate, monitor, review, maintain and improve its services.
Single copy price: $149.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

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National Adoption

INCITS/ISO/IEC 10646:2020 [202x], Information technology - Universal coded character set (UCS) (identical national adoption of ISO/IEC 10646:2020 and revision of INCITS/ISO/IEC 10646:2017 [2018])
Specifies the architecture of the UCS; defines terms used for the UCS; describes the general structure of the UCS codespace; specifies the assigned planes of the UCS: the Basic Multilingual Plane (BMP) of the UCS, the Supplementary Multilingual Plane (SMP), the Supplementary Ideographic Plane (SIP), the Tertiary Ideographic Plane (TIP), and the Supplementary Special-purpose Plane (SSP); defines a set of graphic characters used in scripts and the written form of languages on a world-wide scale...
Single copy price: $250.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

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National Adoption

INCITS/ISO/IEC 17826:2022 [202x], Information technology - Cloud Data Management Interface (CDMI) Version 2.0.0 (identical national adoption of ISO/IEC 17826:2022 and revision of INCITS/ISO/IEC 17826:2016 [2018])
Specifies the interface to access cloud storage and to manage the data stored therein. This International Standard applies to developers who are implementing or using cloud storage.
Single copy price: $250.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

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

National Adoption

INCITS/ISO/IEC 18045:2022 [202x], Information security, cybersecurity and privacy protection - Evaluation criteria for IT security - Methodology for IT security evaluation (identical national adoption of ISO/IEC 18045:2022 and revision of INCITS/ISO/IEC 18045:2008 [R2018])
Defines the minimum actions to be performed by an evaluator in order to conduct an ISO/IEC 15408 series evaluation, using the criteria and evaluation evidence defined in the ISO/IEC 15408 series.
Single copy price: $250.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

Comment Deadline: May 9, 2023

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

National Adoption

INCITS/ISO/IEC 21118:2020 [202x], Information technology - Office equipment - Information to be included in specification sheets for data projectors (identical national adoption of ISO/IEC 21118:2020 and revision of INCITS/ISO/IEC 21118:2012 [R2018])
Specifies the information to be included in the specification sheets for front projection type data projectors and the form of specification sheets. This document is not applicable to units for a rear screen projection.
Single copy price: $149.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

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

National Adoption

INCITS/ISO/IEC 23270:2018 [202x], Information technology - Programming languages - C (identical national adoption of ISO/IEC 23270:2018 and revision of INCITS/ISO/IEC 23270:2006 [R2018])
Describes the form and establishes the interpretation of programs written in the C# programming language. It describes: The representation of C# programs; The syntax and constraints of the C# language; The semantic rules for interpreting C# programs; The restrictions and limits imposed by a conforming implementation of C#.
Single copy price: $250.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

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

National Adoption

INCITS/ISO/IEC 24707:2018 [202x], Information technology - Common Logic (CL) - A framework for a family of logic-based languages (identical national adoption of ISO/IEC 24707:2018 and revision of INCITS/ISO/IEC 24707:2007 [R2018])
Specifies a family of logic languages designed for use in the representation and interchange of information and data among disparate computer systems. The following features are essential to the design of this document. Languages in the family have declarative semantics. Languages in the family are logically comprehensive, and Languages in the family are translatable by a semantics-preserving transformation to a common XML-based syntax, facilitating interchange of information among heterogeneous computer systems.
Single copy price: $225.00
Obtain an electronic copy from: http://webstore.ansi.org
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Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

Comment Deadline: May 9, 2023

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New Standard

INCITS 557-202x, Information Technology - SCSI / ATA Translation - 5 (SAT-5) (new standard)
SAT-5 is the next generation of the SCSI / ATA Translation standards. It follows SAT-4, SAT-3, SAT-2, and SAT. The following translations should be considered for inclusion in SAT-5: Repurposing Depopulation; ZBC-2/ZAC-2 new capabilities; and other capabilities that may fit within the scope of this project.
Single copy price: Free
Obtain an electronic copy from: https://standards.incits.org/apps/group_public/document.php?document_id=149932&wg_abbrev=eb
Order from: https://standards.incits.org/apps/group_public/document.php?document_id=149932&wg_abbrev=eb
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

TNI (The NELAC Institute)

PO Box 2439, Weatherford, TX 76086 | robert.wyeth@nelac-institute.org, www.NELAC-Institute.org

Revision

BSR/TNI EL V1M5 Rev. 3.008.09-202x, Management and Technical Requirements for Laboratories Performing Environmental Analysis Management and Technical Requirements for Laboratories Performing Environmental Analysis Module 5: Quality Systems for Microbiological Testing (revision and partition of ANSI/TNI EL-V1-2016)
Draft Standard for EL V1M5 Rev. 3.0_8.9.21 presents modifications to the current version contained as Module 5 in EL V1-2016 consistent with the previously approved PINS. The existing Standard for microbiological testing was finalized in 2016. The proposed Draft Standard (DS) was updated to improve clarity and ease of use by laboratories.
Single copy price: Free
Order from: Robert Wyeth, TNI ANSI Administartor (robert.wyeth@nelac-institute.org)
Send comments (copy psa@ansi.org) to: Same

Project Withdrawn

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

ASTM (ASTM International)

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

BSR/ASTM WK72790-202x, New Practice for Homogeneity Evaluation of Friction Reference Surfaces Used in Pedestrian Safety Analysis (new standard)
Send comments (copy psa@ansi.org) to: Laura Klineburger <accreditation@astm.org>

Withdrawal of an ANS by ANSI-Accredited Standards Developer

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

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

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

ANSI/AHRI Standard 740-2015, Performance Rating of Refrigerant Recovery Equipment and Recovery/Recycling Equipment (new standard)
Send comments (copy psa@ansi.org) to: Questions may be directed to: Karl Best <kbest@ahrinet.org>

HL7 (Health Level Seven)

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

ANSI/HL7 V3 MFRI, R1-2006 (R2018), HL7 Version 3 Standard: Master File/Registry Infrastructure, R1 (reaffirmation of ANSI/HL7 V3 MFRI, R1-2006 (R2011))
Send comments (copy psa@ansi.org) to: Questions may be directed to: Karen Van Hentenryck <Karenvan@HL7.org>

Final Actions on American National Standards

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

AAMI (Association for the Advancement of Medical Instrumentation)

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

ANSI/AAMI EQ89-2015 (R2023), Guidance for the use of medical equipment maintenance strategies and procedures (reaffirmation of ANSI/AAMI EQ89-2015) Final Action Date: 3/2/2023 | *Reaffirmation*

ASABE (American Society of Agricultural and Biological Engineers)

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

ANSI/ASABE/ISO 20383-2019 (R2023), Tractors and machinery for agriculture and forestry - Speed Identification Sign (SIS) (reaffirm a national adoption ANSI/ASABE/ISO 20383-2019) Final Action Date: 3/7/2023 | *Reaffirmation*

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

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

ANSI/ASHRAE Addendum 62.2j-2022, Ventilation and Acceptable Indoor Air Quality in Residential Buildings (addenda to ANSI/ASHRAE Standard 62.2-2022) Final Action Date: 2/28/2023 | *Addenda*

ANSI/ASHRAE Addendum a to ANSI/ASHRAE Standard 145.1-2015, Laboratory Test Method for Assessing the Performance of Gas-Phase Air Cleaning Systems: Loose Granular Media (addenda to ANSI/ASHRAE Standard 145.1-2015) Final Action Date: 2/28/2023 | *Addenda*

ANSI/ASHRAE/IES Addendum c to ANSI/ASHRAE/IES Standard 202-2018, Commissioning Process for New Buildings and New Systems (addenda to ANSI/ASHRAE/IES Standard 202-2018) Final Action Date: 2/28/2023 | *Addenda*

ANSI/ASHRAE/IES Addendum cv to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2022) Final Action Date: 2/28/2023 | *Addenda*

ANSI/ASHRAE/IES Addendum d to ANSI/ASHRAE/IES Standard 202-2018, Commissioning Process for New Buildings and New Systems (addenda to ANSI/ASHRAE/IES Standard 202-2018) Final Action Date: 2/28/2023 | *Addenda*

ANSI/ASHRAE/IES Addendum g to ANSI/ASHRAE/IES Standard 100-2018, Energy Efficiency in Existing Buildings (addenda to ANSI/ASHRAE/IES Standard 100-2018) Final Action Date: 2/28/2023 | *Addenda*

ANSI/ASHRAE Standard 70-2023, Method of Testing the Performance of Air Outlets and Air Inlets (revision of ANSI/ASHRAE Standard 70-2006) Final Action Date: 2/28/2023 | *Revision*

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 AG-1-2023, Code on Nuclear Air and Gas Treatment (revision of ANSI/ASME AG-1-2019) Final Action Date: 2/28/2023 | *Revision*

ASME (American Society of Mechanical Engineers)

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

ANSI/ASME BPVC Section I-2023, Rules for Construction of Power Boilers (revision of ANSI/ASME BPVC Section I -2021) Final Action Date: 3/7/2023 | *Revision*

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

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

ANSI/ASSP A10.32-2023, Personal Fall Protection Used in Construction and Demolition Operations (new standard) Final Action Date: 3/6/2023 | *New Standard*

ANSI/ASSP A10.25-2023, Sanitation in Construction (revision and redesignation of ANSI/ASSE A10.25-2017) Final Action Date: 3/3/2023 | *Revision*

ASTM (ASTM International)

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

ANSI/ASTM D2657-2007 (R2023), Practice for Heat Fusion Joining of Polyolefin Pipe and Fittings (reaffirmation of ANSI/ASTM D2657-2007 (R2015)) Final Action Date: 2/21/2023 | *Reaffirmation*

ANSI/ASTM E3115-2017 (R2023), Guide for Capturing Facial Images for Use with Facial Recognition Systems (reaffirmation of ANSI/ASTM E3115-2017) Final Action Date: 2/21/2023 | *Reaffirmation*

ANSI/ASTM E23-2023a, Test Methods for Notched Bar Impact Testing of Metallic Materials (revision of ANSI/ASTM E23-2023) Final Action Date: 3/1/2021 | *Revision*

ANSI/ASTM F441-2023, Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80 (revision of ANSI/ASTM F441/F441M-2020) Final Action Date: 2/21/2023 | *Revision*

ANSI/ASTM F442-2023, Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe (SDRPR) (revision of ANSI/ASTM F442/F442M-2020) Final Action Date: 2/21/2023 | *Revision*

ANSI/ASTM F876-2023, Specification for Crosslinked Polyethylene (PEX) Tubing (revision of ANSI/ASTM F876 -2022) Final Action Date: 2/21/2023 | *Revision*

ANSI/ASTM F877-2023, Specification for Crosslinked Polyethylene (PEX) Hot- and Cold-Water Distribution Systems (revision of ANSI/ASTM F877-2022) Final Action Date: 2/21/2023 | *Revision*

ANSI/ASTM F1281-2023, Specification for Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene (PEX-AL-PEX) Pressure Pipe (revision of ANSI/ASTM F1281-2017 (R2021)) Final Action Date: 2/21/2023 | *Revision*

ANSI/ASTM F1282-2023, Specification for Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe (revision of ANSI/ASTM F1282-2017) Final Action Date: 2/21/2023 | *Revision*

ANSI/ASTM F1483-2023, Specification for Oriented Poly(Vinyl Chloride), PVCO, Pressure Pipe (revision of ANSI/ASTM F1483-2017) Final Action Date: 2/21/2023 | *Revision*

ANSI/ASTM F1807-2023, Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring, or Alternate Stainless Steel Clamps, for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing (revision of ANSI/ASTM F1807-2019B) Final Action Date: 2/21/2023 | *Revision*

ANSI/ASTM F1960-2023, Specification for Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-Linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing (revision of ANSI/ASTM F1960 -2022) Final Action Date: 2/21/2023 | *Revision*

ASTM (ASTM International)

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

ANSI/ASTM F1970-2023, Specification for Special Engineered Fittings, Appurtenances or Valves for Use in Poly (Vinyl Chloride) (PVC) or Chlorinated Poly(Vinyl Chloride) (CPVC) Systems (revision of ANSI/ASTM F1970-2022) Final Action Date: 2/21/2023 | *Revision*

ANSI/ASTM F2080-2023, Specification for Cold-Expansion Fittings with Metal Compression-Sleeves for Crosslinked Polyethylene (PEX) Pipe and SDR9 Polyethylene of Raised Temperature (PE-RT) Pipe (revision of ANSI/ASTM F2080-2019) Final Action Date: 2/21/2023 | *Revision*

ANSI/ASTM F2145-2023, Specification for Polyamide 11 (PA 11) and Polyamide 12 (PA12) Mechanical Fittings for Use on Outside Diameter Controlled Polyamide 11 and Polyamide 12 Pipe and Tubing (revision of ANSI/ASTM F2145-2013 (R2018)) Final Action Date: 2/21/2023 | *Revision*

ANSI/ASTM F2389-2023, Specification for Pressure-rated Polypropylene (PP) Piping Systems (revision of ANSI/ASTM F2389-2021) Final Action Date: 2/21/2023 | *Revision*

ANSI/ASTM F2769-2023, Specification for Polyethylene of Raised Temperature (PE-RT) Plastic Hot and Cold-Water Tubing and Distribution Systems (revision of ANSI/ASTM F2769-2022) Final Action Date: 2/21/2023 | *Revision*

ANSI/ASTM F2806-2023, Specification for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe (Metric SDR-PR) (revision of ANSI/ASTM F2806-2020) Final Action Date: 2/21/2023 | *Revision*

ANSI/ASTM F3253-2023, Specification for Crosslinked Polyethylene (PEX) Tubing with Oxygen Barrier for Hot- and Cold-Water Hydronic Distribution Systems (revision of ANSI/ASTM F3253-2019) Final Action Date: 2/21/2023 | *Revision*

ANSI/ASTM F3347-2023, Specification for Metal Press Insert Fittings with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing (revision of ANSI/ASTM F3347-2022) Final Action Date: 2/21/2023 | *Revision*

ANSI/ASTM F3348-2023, Specification for Plastic Press Insert Fittings with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing (revision of ANSI/ASTM F3348-2022) Final Action Date: 2/21/2023 | *Revision*

AWS (American Welding Society)

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

ANSI/AWS A5.25/A5.25M-2023, Specification for Carbon and Low-Alloy Steel Electrodes and Fluxes for Electroslag Welding (new standard) Final Action Date: 3/2/2023 | *New Standard*

ANSI/AWS B2.1-1-210-2023, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root of Carbon Steel (M-1/P-1, Group 1 or 2), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, INMs-1, and ER70S-2, As-Welded or PWHT Condition, Primarily Pipe Applications (new standard) Final Action Date: 2/27/2023 | *New Standard*

ANSI/AWS B2.1-1-211-2023, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root followed by Shielded Metal Arc Welding of Carbon Steel (M-1/P-1, Group 1 or 2), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, INMs-1, ER70S-2, and E7018, As-Welded or PWHT Condition, Primarily Pipe Applications (new standard) Final Action Date: 2/27/2023 | *New Standard*

AWS (American Welding Society)

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

ANSI/AWS B2.1-8-024-2023, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Austenitic Stainless Steel (M-8/P-8, Group 1), 1/16 inch [1.5 mm] through 1-1/2 inch [38 mm] Thick, ER3XX, As-Welded Condition Primarily Plate and Structural Applications (new standard) Final Action Date: 2/27/2023 | *New Standard*

ANSI/AWS B2.1-8-025-2023, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding followed by Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8, Group 1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, ER3XX and E3XX-XX, As-Welded Condition, Primarily Plate and Structural Applications (new standard) Final Action Date: 2/27/2023 | *New Standard*

ANSI/AWS B2.1-8-212-2023, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Austenitic Stainless Steel (M-8/P-8, Group 1), 1/16 inch [1.5 mm] through 1-1/2 inch [38 mm] Thick, ER3XX, As-Welded Condition, Primarily Pipe Applications (new standard) Final Action Date: 2/27/2023 | *New Standard*

ANSI/AWS B2.1-8-213-2023, Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8, Group 1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, E3XX-XX, As-Welded Condition, Primarily Pipe Applications (new standard) Final Action Date: 2/27/2023 | *New Standard*

ANSI/AWS B2.1-8-214-2023, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding followed by Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8, Group 1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, ER3XX and E3XX-XX, As-Welded Condition, Primarily Pipe Applications (new standard) Final Action Date: 2/27/2023 | *New Standard*

ANSI/AWS B2.1-8-215-2023, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root of Austenitic Stainless Steel (M-8/P-8, Group 1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, IN3XX and ER3XX, As-Welded Condition, Primarily Pipe Applications (new standard) Final Action Date: 2/27/2023 | *New Standard*

ANSI/AWS B2.1-8-216-2023, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root followed by Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8, Group 1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, IN3XX, ER3XX, and E3XX-XX, As-Welded Condition, Primarily Pipe Applications (new standard) Final Action Date: 2/27/2023 | *New Standard*

B11 (B11 Standards, Inc.)

P.O. Box 690905, Houston, TX 77269 | cfelinski@b11standards.org, https://www.b11standards.org/

ANSI/B11.17-2023, Safety Requirements for Horizontal Extrusion Press Systems (revision of ANSI B11.17-2004 (R2015)) Final Action Date: 2/28/2023 | *Revision*

BOMA (Building Owners and Managers Association)

1101 15th Street, NW, Suite 800, Washington, DC 20005 | klor@boma.org, www.boma.org

ANSI/BOMA Z65.4-2023, Multi-Family and Hospitality Properties: Standard Method of Measurement (new standard) Final Action Date: 3/6/2023 | *New Standard*

CTA (Consumer Technology Association)

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

ANSI/CTA 2102-2023, Performance Criteria and Testing Protocols for Breathing Parameters (new standard) Final Action Date: 2/27/2023 | *New Standard*

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

ANSI E1.25-2012 (R2023), Recommended Basic Conditions for Measuring the Photometric Output of Stage and Studio Luminaires by Measuring Illumination Levels Produced on a Planar Surface (reaffirmation of ANSI E1.25 -2012 (R2017)) Final Action Date: 3/3/2023 | *Reaffirmation*

NEMA (ASC C29) (National Electrical Manufacturers Association)

1300 17th St N #900,, Arlington, VA 22209 | Paul.Crampton@nema.org, www.nema.org

ANSI C29.17-2023, Standard for Composite Insulators Transmission Line Post Type (revision of ANSI C29.17 -2013) Final Action Date: 3/6/2023 | *Revision*

ANSI C29.18-2023, Standard for Composite Insulators Distribution Line Post Type (revision of ANSI C29.18-2013) Final Action Date: 3/6/2023 | *Revision*

NETA (InterNational Electrical Testing Association)

3050 Old Centre Road, Suite 101, Portage, MI 49024 | tbrammer@netaworld.org, www.netaworld.org

ANSI/NETA MTS-2023, NETA Standard for Maintenance Testing Specifications for Electrical Power Equipment and Systems (revision of ANSI/NETA MTS-2019) Final Action Date: 3/6/2023 | *Revision*

NFRC (National Fenestration Rating Council)

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

ANSI/NFRC 203-2020 (EA01) (R2023)), Procedure for Determining Visible Transmittance of Tubular Daylighting Devices (reaffirmation of ANSI/NFRC 203-2020 (EA01)) Final Action Date: 3/6/2023 | *Reaffirmation*

ANSI/NFRC 400-2023 E0A0, Procedure for Determining Fenestration Product Air Leakage (revision and redesignation of ANSI/NFRC 400-2020 (EA01)) Final Action Date: 3/6/2023 | *Revision*

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105 | mmilla@nsf.org, www.nsf.org

ANSI/NSF 42-2023 (i117r2), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42-2021) Final Action Date: 2/24/2023 | *Revision*

ANSI/NSF 44-2023 (i47r2), Residential Cation Exchange Water Softeners (revision of ANSI/NSF 44-2021) Final Action Date: 2/24/2023 | *Revision*

ANSI/NSF 55-2023 (i56r2), Ultraviolet Microbiological Water Treatment Systems (revision of ANSI/NSF 55-2021) Final Action Date: 2/24/2023 | *Revision*

ANSI/NSF 62-2023 (i41r2), Drinking Water Distillation Systems (revision of ANSI/NSF 62-2021) Final Action Date: 2/24/2023 | *Revision*

ANSI/NSF 173-2023 (i106r1), Dietary Supplements (revision of ANSI/NSF 173-2021) Final Action Date: 2/24/2023 | *Revision*

ANSI/NSF 177-2023 (i10r2), Shower Filtration Systems - Aesthetic Effects (revision of ANSI/NSF 177-2019) Final Action Date: 2/24/2023 | *Revision*

NSF (NSF International)

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

ANSI/NSF 305-2023 (i30r2), Personal Care Products Containing Organic Ingredients (revision of ANSI/NSF 305 -2022) Final Action Date: 3/1/2023 | *Revision*

ANSI/NSF 305-2023 (i32r1), Personal Care Products Containing Organic Ingredients (revision of ANSI/NSF 305 -2022) Final Action Date: 3/2/2023 | *Revision*

ANSI/NSF 401-2023 (i23r2), Drinking Water Treatment Units - Emerging Compounds / Incidental Contaminants (revision of ANSI/NSF 401-2021) Final Action Date: 2/24/2023 | *Revision*

ANSI/NSF/CAN 50-2023 (i173r4), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2021) Final Action Date: 2/27/2023 | *Revision*

ANSI/NSF/CAN 50-2023 (i178r3), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2021) Final Action Date: 3/1/2023 | *Revision*

TIA (Telecommunications Industry Association)

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

ANSI/TIA 568.1-E-1-2023, Commercial Building Telecommunications Infrastructure Standard - Addendum 1: Balanced Single Twisted-pair Cabling; Cabling Requirements for Wireless Access Points (addenda to ANSI/TIA 568.1-E-2020) Final Action Date: 3/2/2023 | *Addenda*

ANSI/TIA 4966-A-1-2023, Telecommunications Infrastructure Standard for Educational Facilities - Addendum 1: Balanced Single Twisted-pair Cabling (addenda to ANSI/TIA 4966-A-2022) Final Action Date: 3/2/2023 | *Addenda*

ULSE (UL Standards & Engagement)

333 Pfingsten Road, Northbrook, IL 60062-2096 | jeffrey.prusko@ul.org, https://ulse.org/

ANSI/UL 1349-2023, Standard for Safety for LP-Gas Vaporizers (new standard) Final Action Date: 2/27/2023 | *New Standard*

ANSI/UL 25-2023, Standard for Safety for Meters for Flammable and Combustible Liquids and LP-Gas (revision of ANSI/UL 25-2021) Final Action Date: 2/28/2023 | *Revision*

ANSI/UL 47-2023, Standard for Semiautomatic Fire Hose Storage Devices (revision of ANSI/UL 47-2004 (R2017)) Final Action Date: 3/3/2023 | *Revision*

ANSI/UL 94-2023, Standard for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances (revision of ANSI/UL 94-2022) Final Action Date: 2/28/2023 | *Revision*

ANSI/UL 1082-2023, Standard for Safety for Household Electric Coffee Makers and Brewing-Type Appliances (revision of ANSI/UL 1082-2017) Final Action Date: 3/3/2023 | *Revision*

ANSI/UL 1083-2023, Standard for Safety for Household Electric Skillets and Frying-Type Appliances (revision of ANSI/UL 1083-2016) Final Action Date: 3/3/2023 | *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 | abenedict@aami.org, www.aami.org

BSR/AAMI/ISO 20417-202x, Medical devices - Information to be supplied by the manufacturer (identical national adoption of ISO 20417:2021)

AMPP (Association for Materials Protection and Performance)

15835 Park Ten Place, Houston, TX 77084 | rick.southard@ampp.org, www.ampp.org

BSR/AMPP NACE TM0294/ISO 19097-1-202x, Accelerated Life Test Method of Mixed Metal Oxide Anodes for Cathodic Protection - Part 1: Application in Concrete (identical national adoption of ISO 19097-1:2018)

ASA (ASC S12) (Acoustical Society of America)

1305 Walt Whitman Road, Suite 300, Melville, NY 11747 | standards@acousticalsociety.org, www.acousticalsociety.org

ANSI/ASA S12.58-2012 (R2019), Sound Power Level Determination for Sources Using a Single-Source Position (withdrawal of ANSI ASA S12.58-2012 (R2019))

ASA (ASC S3) (Acoustical Society of America)

1305 Walt Whitman Road, Suite 300, Melville, NY 11747 | standards@acousticalsociety.org, www.acousticalsociety.org

BSR/ASA S3.55-2014/Part 1/IEC 60318-1:2009 (R202x), Electroacoustics - Simulators of Human Head and Ear - Part 1: Ear Simulator for the Measurement of Supra-aural and Circumaural Earphones (a nationally adopted international standard) (reaffirm a national adoption ANSI/ASA S3.55-2014/Part 1/IEC 60318-1:2009 (R2019))

ASABE (American Society of Agricultural and Biological Engineers)

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

BSR/ASAE S422.2 MONYEAR-202x, Mapping Symbols and Nomenclature for Erosion and Sediment Control Plans for Land Disturbing Activities (revision and redesignation of ANSI/ASAE S422.1-2015 (R2019))

ASME (American Society of Mechanical Engineers)

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

BSR/ASME TDP-1-202x, Prevention of Water Damage to Steam Turbines Used for Electric Power Generation: Fossil-Fueled Plants (revision and redesignation of ANSI/ASME TDP-1-2013)

AWS (American Welding Society)

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

BSR/AWS B5.4-202x, Specification for the Qualification of Welder Test Facilities (Historical) (new standard)

AWS (American Welding Society)

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

BSR/AWS D14.0/D14.0M-202x, Machinery and Equipment Welding Specification (revision, redesignation and consolidation of ANSI/AWS D14.3/D14.3M-2018, ANSI/AWS D14.4/D14.4M-2019, ANSI/AWS D14.5/D14.5M -2009, and AWS D14.1/D14.1M)

CTA (Consumer Technology Association)

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

BSR/CTA 490-B-202x, Test Methods of Measurement for Audio Amplifiers (new standard)
Interest Categories: CTA and the R3 Audio Systems Committee are particularly interested in adding new members (called "users") who acquire audio products from those who create them, and in adding new members who neither produce nor use audio products, such as regulators, associations, and others (called members with a "general interest").

CTA (Consumer Technology Association)

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

BSR/CTA 2065.1-202x, Physical Activity Monitoring for Heart Rate - Real World Analysis (new standard)
Interest Categories: CTA and the R11 Health, Fitness & Wellness Committee are particularly interested in adding new members (called "users") who acquire health, fitness and wellness products. from those who create them, and in adding new members who neither produce nor use health, fitness or wellness products, and others (called members with a "general interest").

CTA (Consumer Technology Association)

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

BSR/CTA 2065-A-202x, Physical Activity Monitoring for Heart Rate (revision and redesignation of ANSI/CTA 2065 -2018)
Interest Categories: CTA and the R11 Health, Fitness & Wellness Committee are particularly interested in adding new members (called "users") who acquire health, fitness and wellness products. from those who create them, and in adding new members who neither produce nor use health, fitness or wellness products, and others (called members with a "general interest").

ECIA (Electronic Components Industry Association)

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

BSR/EIA 364-46D-202x, Microsecond Discontinuity Test Procedure for Electrical Connectors, Contacts and Sockets (revision and redesignation of ANSI/EIA 364-46C-2012 (R2019))

ECIA (Electronic Components Industry Association)

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

BSR/EIA 364-53C-202x, Nitric Acid Vapor Test, Gold Finish Test Procedure for Electrical Connectors and Sockets (revision and redesignation of ANSI/EIA 364-53B-2000 (R2021))

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

BSR/ES1.2-202x, Event Safety - Planning, Management, and Major Incident (new standard)
Interest Categories: The Event Safety Working Group seeks new members in the Equipment Provider, Insurance, and Performing Artist interest categories. Interested parties may contact standards@esta.org to request an application

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

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

INCITS 557-202x, Information Technology - SCSI / ATA Translation - 5 (SAT-5) (new standard)

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

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

INCITS/ISO 6709:2022 [202x], Standard representation of geographic point location by coordinates (identical national adoption of ISO 6709:2022 and revision of INCITS/ISO 6709:2008 [R2018]
INCITS/ISO 6709:2008/COR 1:2009 [R2020])

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

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

INCITS/ISO 19107:2019 [202x], Geographic information - Spatial schema (identical national adoption of ISO 19107:2019 and revision of INCITS/ISO 19107:2003 [R2018])

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

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

INCITS/ISO/IEC 7812-2:2017 [202x], Identification cards - Identification of issuers - Part 2: Application and registration procedures (identical national adoption of ISO/IEC 7812-2:2017 and revision of INCITS/ISO/IEC 7812 -2:2007 [R2018])

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

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

INCITS/ISO/IEC 11770-3:2021 [202x], Information security - Key management - Part 3: Mechanisms using asymmetric techniques (identical national adoption of ISO/IEC 11770-3:2021 and revision of INCITS/ISO/IEC 11770-3:2015 [2018]
INCITS/ISO/IEC 11770-3:2015/AM1:2017 [2022]
INCITS/ISO/IEC 11770-3:2015/COR 1:2016 [2019])

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

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

INCITS/ISO/IEC 14888-3:2018 [202x], IT Security techniques - Digital signatures with appendix - Part 3: Discrete logarithm based mechanisms (identical national adoption of ISO/IEC 14888-3:2018 and revision of INCITS/ISO/IEC 14888-3:2016 [2018])

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

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

INCITS/ISO/IEC 15408-2:2022 [202x], Information security, cybersecurity and privacy protection - Evaluation criteria for IT security - Part 2: Security functional components (identical national adoption of ISO/IEC 15408-2:2022 and revision of INCITS/ISO/IEC 15408-2:2008 [R2018])

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

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

INCITS/ISO/IEC 15408-3:2022 [202x], Information security, cybersecurity and privacy protection - Evaluation criteria for IT security - Part 3: Security assurance components (identical national adoption of ISO/IEC 15408 -3:2022 and revision of INCITS/ISO/IEC 15408-3:2008 [R2018])

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

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

INCITS/ISO/IEC 15444-2:2021 [202x], Information technology - JPEG 2000 image coding system - Part 2: Extensions (identical national adoption of ISO/IEC 15444-2:2021 and revision of INCITS/ISO/IEC 15444-2:2021 [202x])

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

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

INCITS/ISO/IEC 19794-14:2022 [202x], Information technology - Biometric data interchange formats - Part 14: DNA data (identical national adoption of ISO/IEC 19794-14:2022 and revision of INCITS/ISO/IEC 19794-14:2013 [R2018])

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

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

INCITS/ISO/IEC 20000-2:2019 [202x], Information technology - Service management - Part 2: Guidance on the application of service management systems (identical national adoption of ISO/IEC 20000-2:2019 and revision of INCITS/ISO/IEC 20000-2:2012 [2018])

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

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

INCITS/ISO/IEC 20000-3:2019 [202x], Information technology - Service management - Part 3: Guidance on scope definition and applicability of ISO/IEC 20000-1 (identical national adoption of ISO/IEC 20000-3:2019 and revision of INCITS/ISO/IEC 20000-3:2012 [2018])

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

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

INCITS/ISO/IEC 30105-4:2022 [202x], Information technology - IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes - Part 4: Key concepts (identical national adoption of ISO/IEC 30105-4:2022 and revision of INCITS/ISO/IEC 30105-4:2016 [2018])

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

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

INCITS/ISO/IEC 10646:2020 [202x], Information technology - Universal coded character set (UCS) (identical national adoption of ISO/IEC 10646:2020 and revision of INCITS/ISO/IEC 10646:2017 [2018])

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

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

INCITS/ISO/IEC 17826:2022 [202x], Information technology - Cloud Data Management Interface (CDMI) Version 2.0.0 (identical national adoption of ISO/IEC 17826:2022 and revision of INCITS/ISO/IEC 17826:2016 [2018])

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

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

INCITS/ISO/IEC 18045:2022 [202x], Information security, cybersecurity and privacy protection - Evaluation criteria for IT security - Methodology for IT security evaluation (identical national adoption of ISO/IEC 18045:2022 and revision of INCITS/ISO/IEC 18045:2008 [R2018])

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

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

INCITS/ISO/IEC 21118:2020 [202x], Information technology - Office equipment - Information to be included in specification sheets for data projectors (identical national adoption of ISO/IEC 21118:2020 and revision of INCITS/ISO/IEC 21118:2012 [R2018])

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

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

INCITS/ISO/IEC 23270:2018 [202x], Information technology - Programming languages - C (identical national adoption of ISO/IEC 23270:2018 and revision of INCITS/ISO/IEC 23270:2006 [R2018])

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

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

INCITS/ISO/IEC 24707:2018 [202x], Information technology - Common Logic (CL) - A framework for a family of logic-based languages (identical national adoption of ISO/IEC 24707:2018 and revision of INCITS/ISO/IEC 24707:2007 [R2018])

TIA (Telecommunications Industry Association)

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

BSR/TIA 1179-B-202x, Healthcare Facility Telecommunications Infrastructure Standard (revision and redesignation of ANSI/TIA 1179-A-2017)

TIA (Telecommunications Industry Association)

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

BSR/TIA 5050-A-202x, Telecommunications, Communications Products, Receive Volume Control Requirements for Wireless (Mobile) Devices (revision and redesignation of ANSI/TIA 5050-2018)

American National Standards (ANS) Announcements

Transfer of ANS Maintenance by an ANSI Accredited Standards Developers

ASTM - ASTM International

Transfer effective February 1, 2023

ASTM - ASTM International and ASSP (Safety) - American Society of Safety Professionals announce the official transfer of the following American National Standards (ANS) from ASSP to ASTM. The transfer to (ASTM) is effective **February 1, 2023**. Both ANSI-Accredited Standards Developers confirm that all ANS-related maintenance records of the Approved National Standards will also be transferred to ASTM - ASTM International, the ANSI-Accredited Standards Developer of record. Please direct all inquiries to ASTM, Laura Klineburger <accreditation@astm.org>.

E34 - Occupational Health and Safety

1. ANSI/ASSE Z9.1-2016, Ventilation and Control of Airborne Contaminants during Open-Surface Tank Operations
2. ANSI/ASSE Z9.3-2017, Spray Finishing Operations: Safety Code for Design, Construction and Ventilation
3. ANSI/ASSP Z9.2-2018, Fundamentals Governing the Design and Operation of Local Exhaust Ventilation Systems
4. ANSI/ASSP Z9.4-2011 (R2021), Abrasive-Blasting Operations Ventilation and Safe Practices For Fixed Location Enclosures
5. ANSI/ASSP Z9.5-2022, Laboratory Ventilation
6. ANSI/ASSP Z9.6-2018, Exhaust Systems for Grinding, Polishing and Buffing
7. ANSI/ASSP Z9.9-2021, Portable Ventilation Systems
8. ANSI/ASSE Z9.10-2017, Fundamentals Governing the Design and Operation of Dilution Ventilation Systems in Industrial Occupancies
9. ANSI/ASSE Z9.11-2016, Laboratory Decommissioning
10. ANSI/ASSP Z9.14-2020, Testing and Performance-Verification Methodologies for Biosafety Level 3 (BSL-3) and Animal Biosafety Level 3 (ABSL-3) Ventilation Systems

American National Standards (ANS) Process

Please visit ANSI's website (www.ansi.org) for resources that will help you to understand, administer and participate in the American National Standards (ANS) process. Documents posted at these links are updated periodically as new documents and guidance are developed, whenever ANS-related procedures are revised, and routinely with respect to lists of proposed and approved ANS. The main ANS-related linkis www.ansi.org/asd and here are some direct links as well as highlights of information that is available:

Where to find Procedures, Guidance, Interpretations and More…

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

• ANSI Essential Requirements: Due process requirements for American National Standards (always current edition):

www.ansi.org/essentialrequirements

• ANSI Standards Action (weekly public review announcements of proposed ANS and standards developer accreditation applications, listing of recently approved ANS, and proposed revisions to ANS-related procedures):

www.ansi.org/standardsaction

• Accreditation information – for potential developers of American National Standards (ANS):

www.ansi.org/sdoaccreditation

• ANS Procedures, ExSC Interpretations and Guidance (including a slide deck on how to participate in the ANS process and the BSR-9 form):

www.ansi.org/asd

• Lists of ANSI-Accredited Standards Developers (ASDs), Proposed ANS and Approved ANS:

www.ansi.org/asd

• American National Standards Key Steps:

www.ansi.org/anskeysteps

• American National Standards Value:

www.ansi.org/ansvalue

• ANS Web Forms for ANSI-Accredited Standards Developers:

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

• Information about standards Incorporated by Reference (IBR):

https://ibr.ansi.org/

• ANSI - Education and Training:

www.standardslearn.org

Meeting Notices (Standards Developers)

ANSI Accredited Standards Developer

ASA - Acoustical Society of America Acoustics

2023 ASA Standards Spring Meeting Schedule

APRIL

ASACOS and Steering meetings are being held virtually. For access via ZOOM, please contact Nancy A. Blair-DeLeon, ASA Standards Manager at nblairdeleon@acousticalsociety.org.
Monday, April 3, 2023 at 11:00AM, ASACOS Steering, on ZOOM
Tuesday, April 3, 2023 at 11:00AM, Meeting of ASACOS on ZOOM

MAY

ASA Plenary and Accredited Standards Committee meetings will be held in conjunction with the 184th Meeting of the Acoustical Society of America at the Chicago Marriott Downtown Magnificent Mile Hotel, Chicago IL. For more information, please visit our website at https://asastandards.org/#meetings or email us at Standards@acousticalsociety.org.
Tuesday, May 9, 2023 at 8:00AM, Standards Plenary in Chicago, IL
Tuesday, May 9, 2023 at 9:30AM, ASC S1 Acoustics in Chicago, IL
Tuesday, May 9, 2023 at 11:00AM, ASC S2 Mechanical Vibration & Shock in Chicago, IL
Tuesday, May 9, 2023 at 12:45PM, ASC S3 Bioacoustics in Chicago, IL
Tuesday, May 9, 2023 at 2:15PM, ASC S3/SC1 Animal Bioacoustics in Chicago, IL
Tuesday, May 9, 2023 at 3:45PM, ASC S12 Noise, in Chicago, IL

ANSI Accredited Standards Developer

ASSP (Safety) - American Society of Safety Professionals

Meeting Time: April 5, 2023

The **American Society of Safety Professionals (ASSP) i**s the secretariat for ANSI Z490 Committee for Criteria for Accepted Practices in Safety, Health, and Environmental Training. The next Z490 meeting will take place virtually on **April 5, 2023**. Those interested in participating can contact Rick Blanchette, ASSP for additional information at (rblanchette@assp.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)

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.

AAMI
Association for the Advancement of Medical Instrumentation
901 N. Glebe Road, Suite 300
Arlington, VA 22203
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Amanda Benedict
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AMPP
Association for Materials Protection and Performance
15835 Park Ten Place
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ASA (ASC S12)
Acoustical Society of America
1305 Walt Whitman Road, Suite 300
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www.acousticalsociety.org

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ASA (ASC S3)
Acoustical Society of America
1305 Walt Whitman Road, Suite 300
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ASABE
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ASME
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ASSP (Safety)
American Society of Safety Professionals
520 N. Northwest Highway
Park Ridge, IL 60068
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Tim Fisher
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ASTM
ASTM International
100 Barr Harbor Drive
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Laura Klineburger
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AWS
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AWWA
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B11
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P.O. Box 690905
Houston, TX 77269
https://www.b11standards.org/

Chris Felinski
cfelinski@b11standards.org

BOMA
Building Owners and Managers Association
1101 15th Street, NW, Suite 800
Washington, DC 20005
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Kia Lor
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CSA
CSA America Standards Inc.
8501 East Pleasant Valley Road
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www.csagroup.org

Debbie Chesnik
ansi.contact@csagroup.org

Donald Wong
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CTA
Consumer Technology Association
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ECIA
Electronic Components Industry Association
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ESTA
Entertainment Services and Technology Association
271 Cadman Plaza, P.O. Box 23200
Brooklyn, NY 11202
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Richard Nix
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HPVA
Hardwood Plywood Veneer Association
42777 Trade West Drive
Sterling, VA 20166
www.DecorativeHardwoods.org

Joshua Hosen
Jhosen@decorativehardwoods.org

ICC
International Code Council
4051 Flossmoor Road
Country Club Hills, IL 60478
www.iccsafe.org

Karl Aittaniemi
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InterNational Committee for Information Technology Standards
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Barbara Bennett
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Deborah Spittle
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NEMA (ASC C29)
National Electrical Manufacturers Association
1300 17th St N #900,
Arlington, VA 22209
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Paul Crampton
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NEMA (ASC C8)
National Electrical Manufacturers Association
1300 North 17th Street, Suite 900
Arlington, VA 22209
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Khaled Masri
Khaled.Masri@nema.org

NETA
InterNational Electrical Testing Association
3050 Old Centre Road, Suite 101
Portage, MI 49024
www.netaworld.org

Tania Brammer
tbrammer@netaworld.org

NFRC
National Fenestration Rating Council
6305 Ivy Lane, Suite 140
Greenbelt, MD 20770
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Jen Padgett
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RESNET
Residential Energy Services Network, Inc.
P.O. Box 4561
Oceanside, CA 92052
www.resnet.us.com

Richard Dixon
rick.dixon@resnet.us

SDI (Canvass)
Steel Deck Institute
1731 NW 6th Street, Suite D
Gainesville, FL 32609
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Thomas Sputo
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TIA
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Linda Phinney
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Marcia Kawate
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ISO & IEC Draft International Standards

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

COMMENTS

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

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

ORDERING INSTRUCTIONS

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

ISO Standards

Additive manufacturing (TC 261)

ISO/ASTM DIS 52938-1, Additive manufacturing of metals - Environment, health and safety - Part 1: Safety requirements for PBF-LB machines - 5/21/2023, $102.00

ISO/ASTM DIS 52953, Additive manufacturing for metals - General principles - Registration of geometric data acquired from process-monitoring and for quality control - 5/20/2023, $82.00

Agricultural food products (TC 34)

ISO/DIS 16140-7, Microbiology of the food chain - Method validation - Part 7: Protocol for the validation of identification methods of microorganisms - 5/21/2023, $102.00

Aircraft and space vehicles (TC 20)

ISO/DIS 14300-2, Space systems - Programme management - Part 2: Product assurance - 5/18/2023, $53.00

Banking and related financial services (TC 68)

ISO/DIS 20937, Financial services - Specification of QR-codes for mobile (instant) credit transfers - 5/20/2023, $93.00

Cleaning equipment for air and other gases (TC 142)

ISO/DIS 29464, Cleaning of air and other gases - Terminology - 5/21/2023, $112.00

Compressors, pneumatic tools and pneumatic machines (TC 118)

ISO/DIS 18623-1, Air compressors and compressed air systems - Part 1: Air compressor safety requirements - 5/19/2023, $107.00

Cranes (TC 96)

ISO/DIS 9374-4, Cranes - Information to be provided - Part 4: Jib cranes - 5/20/2023, $71.00

Furniture (TC 136)

ISO/DIS 12808, Hardware for furniture - Strength and durability of extension elements and their components - 5/18/2023, $71.00

Gas cylinders (TC 58)

ISO 18119:2018/DAmd 2, - Amendment 2: Gas cylinders - Seamless steel and seamless aluminium-alloy gas cylinders and tubes - Periodic inspection and testing - Amendment 2 - 5/21/2023, $29.00

Industrial automation systems and integration (TC 184)

ISO/DIS 8000-114, Data quality - Part 114: Master data: Application of ISO/IEC 21778 and ISO 8000-115 to portable data - 5/21/2023, $58.00

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

ISO/DIS 10928, Plastics piping systems - Glass-reinforced thermosetting plastics (GRP) pipes and fittings - Methods for regression analysis and their use - 5/18/2023, $119.00

Railway applications (TC 269)

ISO/DIS 5735-1, Railway infrastructures - Non-destructive testing on rails in track - Part 1: Requirements for ultrasonic inspection and evaluation principles - 5/21/2023, $125.00

Road vehicles (TC 22)

ISO 2575:2021/DAmd 1, - Amendment 1: Road vehicles - Symbols for controls, indicators and tell-tales - Amendment 1 - 5/22/2023, $33.00

ISO/DIS 24605, Road vehicles - Dimethyl Ether (DME) refuelling connector with pressure equalization port - 5/20/2023, $82.00

Rubber and rubber products (TC 45)

ISO/DIS 5771, Rubber hoses and hose assemblies for transferring anhydrous ammonia - Specification - 5/22/2023, $62.00

ISO/DIS 813-2, Rubber, vulcanized or thermoplastic - Determination of adhesion to a rigid substrate - Part 2: Adhesion of a soft thermoplastic elastomer layer - 5/19/2023, $62.00

Ships and marine technology (TC 8)

ISO/DIS 5411, Submersibles - Terminology - 5/19/2023, $82.00

Solid Recovered Fuels (TC 300)

ISO/DIS 4349, Solid recovered fuels - Determination of the Recycling Index for co-processing - 5/21/2023, $62.00

Steel (TC 17)

ISO/DIS 11772, Hot rolled longitudinally profiled steel plate - 5/19/2023, $62.00

Sterilization of health care products (TC 198)

ISO/DIS 15883-2, Washer-disinfectors - Part 2: Requirements and tests for washer-disinfectors employing thermal disinfection for critical and semi-critical medical devices - 5/18/2023, $77.00

ISO/DIS 15883-3, Washer-disinfectors - Part 3: Requirements and tests for washer-disinfectors employing thermal disinfection for human waste containers - 5/18/2023, $67.00

(TC 334)

ISO/DIS 33406, Guidance for the production of reference materials with qualitative properties - 5/20/2023, $107.00

(TC 337)

ISO/DIS 53800, Guidelines for promotion and implementation of gender equality and women's empowerment - 5/18/2023, $125.00

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

ISO/DIS 16021, Urine-absorbing products - Basic principles for evaluation of single-use adult-incontinence products from the perspective of users and caregivers - 5/25/2023, $53.00

Textiles (TC 38)

ISO/DIS 105-C12, Textiles - Tests for colour fastness - Part C12: Colour fastness to industrial laundering - 5/21/2023, $53.00

ISO/IEC JTC 1, Information Technology

ISO/IEC DIS 21031, Information technology - Software Carbon Intensity (SCI) specification - 5/20/2023, $46.00

ISO/IEC DIS 23001-17, Information technology - MPEG systems technologies - Part 17: Carriage of uncompressed video and images in ISO Base Media File Format - 5/20/2023, $112.00

IEC Standards

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

46A/1623/CDV, IEC 61196-13 ED1: Coaxial communication cables - Part 13 - Sectional specification for semi-rigid cables with silicon dioxide dielectric, 05/26/2023

Electric cables (TC 20)

20/2091/CDV, IEC 60811-201/AMD2 ED1: Amendment 2 - Electric and optical fibre cables - Test methods for non-metallic materials - Part 201: General tests - Measurement of insulation thickness, 05/26/2023

Electrical accessories (TC 23)

23B/1456/CD, IEC 63180/AMD1 ED1: Amendment 1 - Methods of measurement and declaration of the detection range of detectors - Passive infrared detectors for major and minor motion detection, 05/26/2023

Electrical apparatus for explosive atmospheres (TC 31)

31J/336/CD, IEC 60079-13 ED3: Explosive atmospheres - Part 13: Equipment protection by pressurized room "p" and artificially ventilated room "v", 05/26/2023

Electrical installations of buildings (TC 64)

64/2588/CDV, IEC 60364-5-52/AMD1 ED3: Amendment 1 - Low-voltage electrical installations - Part 5-52: Selection and erection of electrical equipment - Wiring systems, 05/26/2023

Electromagnetic compatibility (TC 77)

77A/1167/DTS, IEC TS 61000-3-16 ED1: Electromagnetic compatibility (EMC) - Part 3-16: Limits - Limits for harmonic currents produced by the inverter of inverter-type electrical energy-supplying equipment with a reference current less than or equal to 75 A per phase connected to public low-voltage systems, 05/26/2023

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

48B/3032/CD, IEC 60512-28-100 ED3: Connectors for electrical and electronic equipment - Tests and measurements - Part 28 -100: Signal integrity tests up to 2 000 MHz - Tests 28a to 28g, 05/26/2023

Environmental standardization for electrical and electronic products and systems (TC 111)

111/695(F)/FDIS, IEC 62321-3-4 ED1: Determination of certain substances in electrotechnical products - Part 3-4: Screening - Phthalates in polymers of electrotechnical products by high performance liquid chromatography with ultraviolet detector (HPLC-UV), thin layer chromatography (TLC) and thermal desorption mass spectrometry (TD-MS), 03/24/2023

Fibre optics (TC 86)

86B/4721/CDV, IEC 61300-2-27 ED2: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-27: Tests - Dust - Laminar flow, 05/26/2023

86B/4722/CDV, IEC 61300-2-44 ED4: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-44: Tests - Flexing of the strain relief of fibre optic devices and components, 05/26/2023

86B/4710(F)/CDV, IEC 63267-2-1 ED1: Fibre optic interconnecting devices and passive components - Connector optical interfaces for enhanced macro bend multimode fibres - Part 2-1: Connection parameters of physically contacting 50 m core diameter fibres non-angled, 04/28/2023

Flat Panel Display Devices (TC 110)

110/1505/CD, IEC TR 62715-5-61 ED1: Flexible display devices - Part 5-61: Stretchable displays - Overview of measurement and application scenarios, 04/28/2023

Fuel Cell Technologies (TC 105)

105/962/CDV, IEC 62282-8-201 ED2: Fuel cell technologies - Part 8-201: Energy storage systems using fuel cell modules in reverse mode - Test procedures for the performance of power-to-power systems, 05/26/2023

105/968(F)/FDIS, IEC 62282-8-301 ED1: Fuel cell technologies - Part 8-301: Energy storage systems using fuel cell modules in reverse mode - Power-to-methane energy systems based on solid oxide cells including reversible operation - Performance test methods, 03/31/2023

Instrument transformers (TC 38)

38/718/FDIS, IEC 61869-1 ED2: Instrument transformers - Part 1: General requirements, 04/14/2023

Insulators (TC 36)

36A/226/CD, IEC TR 63493-1 ED1: Transformer bushings dimensional standardization - Part 1: Medium voltage and low voltage bushings, 04/28/2023

36A/227/CD, IEC TR 63493-2 ED1: Transformer bushings dimensional standardization - Part 2: High voltage bushings, 04/28/2023

Lamps and related equipment (TC 34)

34/1021(F)/FDIS, IEC 62386-253 ED1: Digital addressable lighting interface - Part 253: Particular requirements - Diagnostics and maintenance (device type 52), 03/24/2023

34A/2341/CD, IEC 62868-2-4 ED1: Organic light emitting diode (OLED) light sources for general lighting - Safety - Part 2-4: Particular requirements - Rigid OLED tiles and panels, 05/26/2023

Laser equipment (TC 76)

76/729/CD, IEC TS 60825-20 ED1: Safety of Laser Products - Part 20: Safety requirements for products intentionally exposing face or eyes to laser radiation., 04/28/2023

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

113/744/NP, PNW TS 113-744 ED1: 62607-2-7: Nanomanufacturing - Key control characteristics - Part 2-7: Single wall carbon nanotubes - Semiconducting/metallic-ratio: Optical spectroscopy, 05/26/2023

Nuclear instrumentation (TC 45)

45A/1461/CDV, IEC 63272 ED1: Nuclear facilities - Electrical power systems - AC interruptible power supply systems, 05/26/2023

45A/1462/CDV, IEC 63298 ED1: Nuclear Power Plants - Electrical power systems - Coordination and interaction with electric grid, 05/26/2023

45A/1460/CDV, IEC 63374 ED1: Nuclear power plants - Instrumentation systems important to safety - Characteristic and test methods of nuclear reactor reactivity meter, 05/26/2023

45A/1459/CDV, IEC/IEEE 63332-387 ED1: Nuclear facilities - Electrical power systems - Part 387: Diesel generator units applied as standby power sources, 05/26/2023

45/950/NP, PNW 45-950 ED1: 200 MeV to 400 MeV superconducting proton cyclotron - General requirements and test methods, 05/26/2023

Power electronics (TC 22)

22E/247/CDV, IEC 62909-3 ED1: Bi-directional grid connected power converters - Part 3: EMC requirements and test methods, 05/26/2023

Semiconductor devices (TC 47)

47E/803/CDV, IEC 60747-16-9 ED1: Semiconductor devices - Part 16-9: Microwave integrated circuits - Phase shifters, 05/26/2023

Solar photovoltaic energy systems (TC 82)

82/2127/FDIS, IEC 60904-2 ED4: Photovoltaic devices - Part 2: Requirements for photovoltaic reference devices, 04/14/2023

82/2122(F)/FDIS, IEC 61730-2 ED3: Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing, 03/31/2023

Standard voltages, current ratings and frequencies (TC 8)

8/1656/DTS, IEC TS 62786-1 ED1: Distributed energy resources connection with the grid - Part 1: General requirements, 05/26/2023

8/1658/DTS, IEC TS 63222-2 ED1: Power quality management - Part 2: Power Quality Monitoring System, 05/26/2023

Surface mounting technology (TC 91)

91/1848/NP, PNW 91-1848 ED1: Fixed folding Durability test method for flexible opto-electric circuit boards, 05/26/2023

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

121B/175/NP, PNW TS 121B-175 ED1: Low-voltage switchgear and controlgear assemblies - Internal arc-fault protection of power switchgear and controlgear assemblies (PSC-assemblies according to IEC 61439-2), 05/26/2023

(TC)

SyCSmartCities/286/DTS, IEC SRD 63320-1 ED1: Systems Reference Deliverable (SRD) - Use Case Collection and Analysis - Smart urban planning for Smart Cities Part 1: high level analysis, 05/26/2023

SyCAAL/291/CD, IEC SRD 63473 ED1: Active assisted living (AAL) use case standards inventory and mapping, 05/26/2023

ISO/IEC JTC 1, Information Technology

(TC)

JTC1-SC41/338/CD, ISO/IEC 30181 ED1: Internet of Things (IoT) - Functional architecture for resource ID interoperability, 04/28/2023

JTC1-SC41/339/CD, ISO/IEC 30184 ED1: Internet of Things (IoT) - Autonomous IoT object identification in connected home - Requirements and framework, 04/28/2023

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

Air quality (TC 146)

ISO 19694-3:2023, Stationary source emissions - Determination of greenhouse gas emissions in energy-intensive industries - Part 3: Cement industry, $237.00

ISO 19694-4:2023, Stationary source emissions - Determination of greenhouse gas emissions in energy-intensive industries - Part 4: Aluminium industry, $116.00

ISO 19694-5:2023, Stationary source emissions - Determination of greenhouse gas emissions in energy-intensive industries - Part 5: Lime industry, $237.00

ISO 19694-6:2023, Stationary source emissions - Determination of greenhouse gas emissions in energy-intensive industries - Part 6: Ferroalloys and silicon industry, $157.00

Anaesthetic and respiratory equipment (TC 121)

ISO 10651-4:2023, Lung ventilators - Part 4: Particular requirements for user-powered resuscitators, $237.00

Banking and related financial services (TC 68)

ISO 19092:2023, Financial services - Biometrics - Security framework, $237.00

Dentistry (TC 106)

ISO 8325:2023, Dentistry - Test methods for rotary instruments, $77.00

ISO 23401-1:2023, Dentistry - Chairside denture base relining materials - Part 1: Hard type materials, $77.00

Fine ceramics (TC 206)

ISO 5722:2023, Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for determining tensile and shear creep of ceramic adhesive, $77.00

Graphical symbols (TC 145)

ISO 20560-2:2023, Safety information for the content of piping systems and tanks - Part 2: Tanks, $116.00

Industrial trucks (TC 110)

ISO 3691-2:2023, Industrial trucks - Safety requirements and verification - Part 2: Self-propelled variable-reach trucks, $210.00

ISO 3691-3:2016/Amd 1:2023, Amendment 1: Industrial trucks - Safety requirements and verification - Part 3: Additional requirements for trucks with elevating operator position and trucks specifically designed to travel with elevated loads - Amendment 1, $22.00

Jewellery (TC 174)

ISO 11210:2023, Jewellery and precious metals - Determination of platinum - Gravimetry using ammonium chloride, $77.00

Nuclear energy (TC 85)

ISO 4233:2023, Reactor technology - Nuclear fusion reactors - Hot helium leak testing method for high temperature pressure-bearing components in nuclear fusion reactors, $77.00

ISO 9271:2023, Decontamination of radioactively contaminated surfaces - Testing of decontamination agents for textiles, $183.00

ISO 23588:2023, Radiological protection - General requirements for proficiency tests for in vivo radiobioassay, $116.00

Other

ISO/CIE 23539:2023, Photometry - The CIE system of physical photometry, $210.00

Personal safety - Protective clothing and equipment (TC 94)

ISO 18639-4:2018/Amd 1:2023, Amendment 1: PPE ensembles for firefighters undertaking specific rescue activities - Part 4: Gloves - Amendment 1, $22.00

Powder metallurgy (TC 119)

ISO 3252:2023, Powder metallurgy - Vocabulary, $51.00

Pulleys and belts (including veebelts) (TC 41)

ISO 252:2023, Conveyor belts - Adhesion between constitutive elements - Test methods, $51.00

Road vehicles (TC 22)

ISO 11154:2023, Road vehicles - Roof load carriers, $210.00

Rolling bearings (TC 4)

ISO 5593:2023, Rolling bearings - Vocabulary, $51.00

Ships and marine technology (TC 8)

ISO 23807:2023, Ships and marine technology - General requirements for the asynchronous time-insensitive ship-shore data transmission, $116.00

Solid biofuels (TC 238)

ISO 17225-8:2023, Solid biofuels - Fuel specifications and classes - Part 8: Graded thermally treated and densified biomass fuels for commercial and industrial use, $116.00

Sports and recreational equipment (TC 83)

ISO 7152:2023, Camping tents and caravan awnings - Vocabulary, $51.00

ISO 11088:2023, Alpine ski/binding/boot (S-B-B) system - Assembly, adjustment and inspection, $116.00

Sustainable development in communities (TC 268)

ISO 37184:2023, Sustainable mobility and transportation - Framework for transportation services by providing meshes for 5G communication, $77.00

Transfusion, infusion and injection equipment for medical use (TC 76)

ISO 3826-1:2019/Amd 1:2023, Amendment 1: Plastics collapsible containers for human blood and blood components - Part 1: Conventional containers - Amendment 1, $22.00

ISO 8536-15:2022/Amd 1:2023, Amendment 1: Infusion equipment for medical use - Part 15: Light-protective infusion sets for single use - Amendment 1, $22.00

Transport information and control systems (TC 204)

ISO 21219-1:2023, Intelligent transport systems - Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) - Part 1: Introduction, numbering and versions (TPEG2-INV), $77.00

ISO Technical Reports

Paints and varnishes (TC 35)

ISO/TR 5601:2023, Paints and varnishes - Determination of volatile organic compound (VOC) and/or semi-volatile organic compound (SVOC) content - Best practices for the selection of test methods, $51.00

Transport information and control systems (TC 204)

ISO/TR 7878:2023, Intelligent transport systems - Mobility integration - Enterprise view, $157.00

ISO Technical Specifications

Plain bearings (TC 123)

ISO/TS 24137:2023, Plain bearings - Surface modification by press fitting solid lubricants combined with micro dimple processing, $77.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 22121-2:2023, Information technology - Virtual keyboards user interfaces - Part 2: On-screen keyboards with direct touch interface, $183.00

IEC Standards

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

IEC 62680-4-1 Ed. 1.0 b:2022, Universal Serial Bus interfaces for data and power - Part 4-1: Universal Serial Bus 4 ™ Specification, $512.00

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

IEC 60966-3-3 Ed. 1.0 b:2023, Radio frequency and coaxial cable assemblies - Part 3-3: Detail specification for semi-flexible cable assemblies (jumper) - Frequency range up to 18 GHz, Type 50 -141 semi-flexible coaxial cable, $95.00

IEC 60966-3-4 Ed. 1.0 b:2023, Radio frequency and coaxial cable assemblies - Part 3-4: Detail specification for semi-flexible cable assemblies (jumper) - Frequency range up to 6 GHz, Type 50 -141 semi-flexible coaxial cable, $95.00

IEC 61196-1-123 Ed. 1.0 en:2023, Coaxial communication cables - Part 1-123: Electrical test methods - Test for attenuation constant of radiating cable, $51.00

Industrial-process measurement and control (TC 65)

IEC 61158-3-28 Ed. 1.0 b:2023, Industrial communication networks - Fieldbus specifications - Part 3-28: Data-link layer service definition - Type 28 elements, $367.00

IEC 61158-4-28 Ed. 1.0 b:2023, Industrial communication networks - Fieldbus specifications - Part 4-28: Data-link layer protocol specification - Type 28 elements, $367.00

IEC 61158-5-27 Ed. 1.0 b:2023, Industrial communication networks - Fieldbus specifications - Part 5-27: Application layer service definition - Type 27 elements, $481.00

IEC 61784-1-22 Ed. 1.0 b:2023, Industrial networks - Profiles - Part 1-22: Fieldbus profiles - Communication Profile Family 22, $95.00

IEC 61784-2-19 Ed. 1.0 b:2023, Industrial networks - Profiles - Part 2-19: Additional real-time fieldbus profiles based on ISO/IEC/IEEE 8802-3 - CPF 19, $190.00

Registration of Organization Names in the United States

The Procedures for Registration of Organization Names in the United States of America (document ISSB 989) require that alphanumeric organization names be subject to a 90-day Public Review period prior to registration. For further information, please contact the Registration Coordinator at (212) 642-4975.
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 Addendum i
to ANSI/ASHRAE Standard 55-2020

Public Review Draft

Proposed Addendum i to Standard 55-2020, Thermal Environmental Conditions for Human Occupancy

First Public Review (February 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).

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE website, www.ashrae.org.

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

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

FOREWORD

Proposed Addendum i to Standard 55-2020 updates normative references to updated versions of ASHRAE publications.

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

Addendum i to 55-2020

Update the normative references in Section 8 as shown below.

8. REFERENCES

1. ASHRAE. ~~2017~~2021. *ASHRAE Handbook—Fundamentals.* Peachtree Corners, GA: ASHRAE.
2. ASHRAE. ~~2019~~2022. ANSI/ASHRAE/IES Standard 90.1, *Energy Standard for Buildings Except Low-Rise Residential Buildings.* Peachtree Corners, GA: ASHRAE.
3. Tartarini, F., S. Schiavon, T. Cheung, and T. Hoyt. 2020. CBE Thermal Comfort Tool: Online Tool for Thermal Comfort Calculations and Visualizations. SoftwareX 12 (July 2020):100563. https://doi.org/10.1016/j.softx.2020.100563.
4. ASHRAE. ~~2019~~2022. ANSI/ASHRAE Standard 62.1, *Ventilation and ~~for~~ Acceptable Indoor Air Quality*. Peachtree Corners, GA: ASHRAE.
5. ASHRAE. ~~2019~~2022. ANSI/ASHRAE Standard 62.2, *Ventilation and Acceptable Indoor Air Quality in Residential Buildings*. Peachtree Corners, GA: ASHRAE.

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

Public Review Draft

Proposed Addendum cw to Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings

Second Public Review (March 2023)
(Draft Shows Proposed Independent Substantive Changes to Previous Public Review Draft)

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

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FOREWORD

Based on public comments received on Addendum cw, the committee reviewed additional examples provided by the commenters and has determined a lower additional allowance will work for the majority of exit access stairways.

Because this is an allowance, not a requirement of the standard, a cost effective analysis was not necessary.

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

Addendum cw to 90.1-2019

9.5.2.2 Additional Lighting Power

[…]

(d) For interior exit stairways in which lighting is designed for egress and to provide 10 fc (108 Lx) minimum at the walking surface when the stairway is in use, additional lighting power shall be allowed per Table 9.5.3.1.

Table 9.5.3.1 Additional Lighting Power

Section	Description	Additional Lighting Power	Required Controls
[…]			
9.5.2.2(d)	Interior exit stairway	~~2.0~~ 1.0 W/ft² (~~21.52~~ 10.76 W/m²)	9.4.1.1(g), and either 9.4.1.1(h) or 9.4.1.1(i) ~~9.4.1.1(j)~~

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

Public Review Draft

Proposed Addendum d to Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings

First Public Review (March 2023)
(Draft Shows Proposed Changes to Current Standard)

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FOREWORD

Further review of ***Energy Credit H05: Ground-Source Heat-Pump System*** *determined that for ground source fields with supplemental dry cooler or evaporative heat rejection for climate zones 0A, 0B, and 1A, the ground field could be further reduced with a larger heat rejection device. The smaller ground source field results in increased fan and pump use required for heat rejection. The analysis showed that the reduced net savings of the more economical ground source field could be accounted for in the table by multiplying the original dry cooler adjustment values by 70% and the evaporative heat rejection adjustment values by 85% for these three climate zones. The table has been revised to reflect these adjusted values and reformatted for clarity. Note that only new values are underlined in the table, even though the other values have been rearranged. This is because only the HR_{adj} values for ground source fields with supplemental dry cooler or evaporative heat rejection in climate zones 0A, 0B, and 1A have been updated by this addendum.*

The reduced values of HR_{adj} result in a more optimized ground loop system justified in these three climate zones. However, the field reduction was inappropriate for colder climate zones where the heating load determined the minimum bore size. There are also adjustments in the text for Section 11.5.2.2.5, noting the other options for ground-source systems and some minor editorial changes for clarity. This included correcting the SI conversion for 12,000 Btu/hr (3.5 kW).

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

Addendum d to 90.1-2022

Modify the standard as follows for IP (and SI) Units:

Revise Section 11.5.2.2.5 as follows:

11.5.2.2.5 H05: Ground Source Heat Pump System. To achieve this credit, a ground source heat pump *system* shall provide cooling and heating for at least 25% of the *gross conditioned building area*. The ground source heat pump systems shall include *building* ground loop *HVAC system*s coupled with a closed-bore ground-heat exchanger, submerged heat exchanger using water-based fluid as a heat transfer medium, groundwater (well), or fluid infrastructure (such as effluent and wastewater), and shall comply with the following:

a. Loop *pump(s)* shall have controls and/or devices that will result in *pump* motor demand of no more than 30% of design wattage at 50% of design water flow and allow turn down to 15% flow. Alternatively, a separate field loop *pump* shall be provided, with either a variable-speed *building pump* or individual pumps for each ground source heat pump.
b. The geothermal-source exchanger shall be sized based on the heating and cooling loads served by the ground-source heat pump *system* and shall comply with one of the following as allowed by climate zone as shown in Table 11.5.2.2.5:
    1. **100% Hours Source Size.** The *system* shall meet one of the following:

        i. A closed bore field shall have at least 400 lineal feet (120 lin m) of bore *piping* per 12,000 Btu/h (3.5~~00~~ *kW*) of *system* cooling or heating capacity, whichever is greater. The system shall not include additional heat rejection or addition devices.

        ii. The ground source shall be sized to provide 100% of both the cooling and heating *system* annual operating hours without requiring any supplemental heating or heat rejection from non-ground sources, as demonstrated by an analysis or testing approved by the *authority having jurisdiction.*

    2. **90% Hours Source Size.** The ground source shall be sized such that the loop heat pumps provide 100% of the heating and cooling loads for at least 90%, but less than 100%, of both the cooling and heating *system* annual operating hours without requiring any supplemental heating or heat rejection from non-ground sources, as demonstrated by an analysis approved by the *authority having jurisdiction*. Heat rejection shall include a ~~two-speed or~~ variable-speed fan *system*.

    3. **70% Hours Source Size.** The ground source shall be sized such that the loop heat pumps provide 100% of the heating and cooling loads for at least 70%, but less than 90%, of both the cooling and heating *system* annual operating hours without requiring any supplemental heating or heat rejection from non-ground sources, as demonstrated by an analysis approved by the *authority having jurisdiction*. Heat rejection shall include a variable-speed fan system.

The ~~allowed~~ base credits are ~~based on~~ for a ground-source heat pump *system* serving 25% of the *gross conditioned building area* and includes dry cooler partial heat rejection. Adjust the base credits as follows:

$$EC_{H05\_adj} = EC_{H05\_base} \times \frac{Floor_{GSHP}}{0.25} \times HR_{adj}$$

where:

EC_{H05_adj} = energy credits achieved for ground-source heat-pump *system*
EC_{H05_base} = H05 base ~~*energy*~~energy credit from Section 11.5.3

$Floor_{GSHP}$	=	fraction of whole-project *gross conditioned floor area* with heating and cooling provided by the ground-source heat pump *system*.
HR_{adj}	=	heat-rejection adjustment factor by climate zone from Table 11.5.2.2.5 based on ground source hours capacity sizing

Note to reviewers; relocated or duplicated values in table below are not underlined as the values have not changed and the new placement in the table is editorial. Instead, they have been indicated in red.

Table 11.5.2.2.5 GSHP Heat Rejection Adjustments

	HR_{adj} by ~~Field~~ Ground Source Capacity				
	~~Full-Sized Bore Field with no Heat Rejection~~		~~90% Hours Source Size; Dry-Cooler Heat Rejection~~		~~90% Hours Source Size; Evaporative Heat Rejection~~
	Dry cooler heat rejection		Evaporative heat rejection		No heat rejection
Climate Zones	90% hours source size	70% hours source size	90% hours source size	70% hours source size	100% hours source size
All Climate Zones	1.0				
0A		0.70	2.6	2.2	3.3
0B, 1A		0.70	5.3	4.5	7.6
~~0A,~~ 1B, 2B, 3A, 3B, 4A, 4B			2.6		3.3
~~0B, 1A,~~ 2A, 3C			5.3		7.6
4C, 5A, 5B, 5C			1.5		2.3
6A, 6B, 7, 8			1.1		1.4

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

Public Review Draft

Proposed Addendum f to Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings

First Public Review (March 2023)
(Draft Shows Proposed Changes to Current Standard)

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FOREWORD

Building Performance Factors (BPF) in Table 4.2.1.1 account for efficiency gains due to the introduction of energy credits. However, the existing modeling rules of the Performance Rating Method (Appendix G) do not allow capturing energy savings from some of the systems, components and controls that are addressed by new energy credits in Section 11. As a result, projects that specify such technologies are not able to claim the associated credits. The proposed addendum addresses that gap. The new modeling requirements proposed for the Performance Rating Method (Appendix G) and Energy Cost Budget Method (Section 12) reflect the methodologies used to assign weights to energy credits, as described in the PNNL Technical Support Document.

This addendum impacts an optional performance path in the standard designed to provide increased flexibility and therefore was not subjected to cost effectiveness analysis.

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Addendum f to 90.1-2022

Modify the standard as follows for IP (and SI) Units:

Table 12.5.1 Modeling Requirements for Calculating *Design Energy Cost* and *Energy Cost Budget*

Proposed Design **(Column A)** ***Design Energy Cost*** **(DEC)**	***Budget Building Design*** **(Column B)** ***Energy Cost Budget*** **(ECB)**
…….	
4. Schedules	
The schedule types listed in Section 11.4.1.1(b) shall be required input. The schedules shall be typical of the *proposed design* as determined by the designer and approved by the *authority having jurisdiction*. Required schedules shall be identical for the *proposed design* and *budget building design*. **Temperature and Humidity Schedules.** Temperature and humidity *control set points* and schedules as well as *temperature control throttling range* shall be the same for *proposed design* and *baseline building design*. **HVAC Fan Schedules.** Schedules for HVAC fans that provide *outdoor air* for *ventilation* shall run continuously whenever *spaces* are occupied and shall be cycled ON and OFF to meet heating and cooling loads during unoccupied hours. **Exceptions:** 1. Where no heating and/or cooling *system* is to be installed, and a heating or cooling *system* is being simulated only to meet the requirements described in this table, heating and/or cooling *system* fans shall not be simulated as running continuously during occupied hours but shall be cycled ON and OFF to meet heating and cooling loads during all hours. 2. HVAC fans shall remain on during occupied and unoccupied hours in *spaces* that have health- and safety-mandated minimum *ventilation* requirements during unoccupied hours. 3. Dedicated outdoor air supply fans shall stay off during unoccupied hours. HVAC fans shall remain on during occupied and unoccupied hours in *systems* primarily serving *computer rooms*.	Same as *proposed design*. **Exception:** When the proposed *building* design includes HVAC systems serving *dwelling units* or *sleeping units* that have controls meeting requirements of Section 11.5.2.2.4 "H04: Residential Space HVAC Control": (1) The *budget building design* shall be modeled using heating temperature setback of 5°F (3°C) higher than in the *proposed design* but not higher than the occupied temperature for a maximum of 9 hours per day. (2) The *budget building design* shall be modeled using cooling temperature setback of 5°F (3°C) lower than the *proposed design* but not lower than the occupied temperature for not more than 9 hours per day.
[…]	
6. Lighting	
Lighting power in the *proposed design* shall be determined as follows: …… *g.* *Automatic* lighting *controls* included in the *proposed design*, but not required by Section 9.4.1 shall be modeled using the following methods for each luminaire under control: 1. *Manual*-ON or partial-auto-ON occupancy sensors shall be modeled by reducing the lighting schedule each hour by the occupancy sensor reduction factors in Table G3.7 for the applicable *space* type multiplied by 0.25.	

2. *Automatic* lighting *controls* listed in Table 9.6.3 shall be modeled using the sum of the applicable control factors (CF). Apply control factors (CF) to only the portion of wattage of the fixtures in the space controlled by said lighting control. Divide each hour of the lighting schedule by (1 + ΣCF), where ΣCF indicates the sum of all applicable control factors for that space per Section 9.6.3 and Table 9.6.3.
3. For *luminaires* that meet requirements in Section 11.5.2.5.2 "L02 Continuous Dimming and High-End Trim," the lighting schedule each hour shall be reduced by 7.5% compared to the *budget building design*.
4. For lighting in *dwelling units* with controls meeting requirements in Section 11.5.2.5.5 "L05 Lighting Control for Multifamily Buildings," the lighting schedule each hour shall be reduced by 10%.

……

Table G3.1 Modeling Requirements for Calculating Proposed and *Baseline Building Performance*

No.	Proposed *Building* Performance	*Baseline Building* Performance
4.	Schedule	
	Schedules capable of modeling hourly variations in occupancy, lighting power, miscellaneous *equipment* power, *thermostat set points*, and *HVAC system* operation shall be used. The schedules shall be typical of the proposed *building* type as determined by the designer and approved by the *rating authority*. …….	Same as proposed design. **Exceptions** 1. *Set points* and schedules for *HVAC systems* that *automatically* provide occupant thermal comfort via means other than directly controlling the air dry-bulb and wet-bulb temperature may be allowed to differ, provided that equivalent levels of occupant thermal comfort are demonstrated via the methodology in ASHRAE Standard 55, Section 5.3.3, "Elevated Air Speed," or Standard 55, Appendix B, "Computer Program for Calculation of PMV-PPD." 2. When the proposed *building* design includes HVAC *systems* serving *dwelling units* or *sleeping units* that have controls meeting requirements of Section 11.5.2.2.4 "H04: Residential Space HVAC Control": (i) The *budget building design* shall be modeled using heating temperature setback of 5°F (3°C) higher than in the *proposed design* but not higher than the occupied temperature for a maximum of 9 hours per day. (ii) The *budget building design* shall be modeled using cooling temperature setback of 5°F (3°C) lower than the *proposed design* but not lower than the occupied temperature for not more than 9 hours per day. ~~2.~~ 3 Schedules may be allowed to differ between *proposed design* and *baseline building design* when necessary to model nonstandard *efficiency* measures, provided that the revised schedules have been approved by the *rating authority*. Measures that may warrant use of different schedules include but are not limited to *automatic* lighting *controls*, *automatic* natural *ventilation controls*, *automatic demand control ventilation controls*, and *automatic controls* that reduce *service water-heating* loads. In no case shall schedules differ where the *controls* are *manual* (e.g., *manual* operation of light switches or *manual* operation of windows). ~~3.~~ 4 Fan schedules may be allowed to differ when Section G3.1.1(c) applies. 5. Lighting schedules may be allowed to differ based on *occupancy sensor* reduction factor in Tables G3.7-1 and G3.7-2

…… …… …… …… …… …… ……

Table G3.7-1 Performance Rating Method Lighting Power Density Allowances and Occupancy sensor Reductions Using the Space-by-Space Method

Common Space Types[a]	Lighting Power Density, W/ft^2 (W/m^2)	*Occupancy sensor* Reduction[b,d, e]

<<CONTENT REMAINS THE SAME>>

a. In cases where both a common *space* type and a *building* area specific *space* type are listed, the *building* area specific *space* type shall apply
b. For *manual*-ON or partial-auto-ON *occupancy sensors*, the *occupancy sensor* reduction factor shall be multiplied by 1.25.
c. For *occupancy sensors* controlling individual workstation lighting, *occupancy sensor* reduction factor shall be 30%.
d. For *luminaires* that meet requirements in Section 11.5.2.5.2 "L02 Continuous Dimming and High-End Trim", the *occupancy sensor* reduction factor shall be increased by 7.5%.
e. For lighting in *dwelling units* with controls meeting requirements in Section 11.5.2.5.5 "L05 Lighting Control for Multifamily Buildings" the *occupancy sensor* reduction factor shall be 10%.

Table G3.7-2 Performance Rating Method Lighting Power Density Allowances and Occupancy sensor Reductions Using the Space-by-Space Method

Building-Specific Space Types[a]	Lighting Power Density, W/ft^2 (W/m$^{2)}$	*Occupancy sensor* Reduction[b,d, e]

<<CONTENT REMAINS THE SAME>>

a. In cases where both a common *space* type and a *building* area specific *space* type are listed, the *building* area specific *space* type shall apply
b. For *manual*-ON or partial-auto-ON *occupancy sensors*, the *occupancy sensor* reduction factor shall be multiplied by 1.25.
c. For *occupancy sensors* controlling individual workstation lighting, *occupancy sensor* reduction factor shall be 30%.
d. For *luminaires* that meet requirements in Section 11.5.2.5.2 "L02 Continuous Dimming and High-End Trim", the *occupancy sensor* reduction factor shall be increased by 7.5%.
e. For lighting in *dwelling units* with controls meeting requirements in Section 11.5.2.5.5 "L05 Lighting Control for Multifamily Buildings" the occupancy sensor reduction factor shall be 10%.

Draft PDS-01
BSR/RESNET/ICC 380-2022
Addendum A-202x

Modify Standard ANSI/RESNET/ICC 380-2022 as follows:

7. Normative references.

ACCA, "Manual B Balancing and Testing Air and Hydronic Systems." Air Conditioning Contractors of America. Arlington, VA.

ACCA, "Manual D Residential Duct Systems" [ANSI/ACCA 1 Manual D-2016]. Air Conditioning Contractors of America. Arlington, VA.

ACCA, "Manual J Residential Load Calculation," 8th Edition, [ANSI/ACCA 2 Manual J-2016]. Air Conditioning Contractors of America, Arlington, VA.

ACCA, "Manual S Residential Heating and Cooling Equipment Selection," 2nd Edition, [ANSI/ACCA 3 Manual S-2014]. Air Conditioning Contractors of America. Arlington, VA.

ANSI/RESNET/ICC 301-2022~~2019~~ "Standard for the Calculation and Labeling of the Energy Performance of Dwelling and Sleeping Units using an Energy Rating Index" and ANSI approved Addenda. Residential Energy Services Network. Oceanside, CA.

ASHRAE Standard 62.2-2019 "Ventilation and Acceptable Indoor Air Quality in ~~Low-Rise~~ Residential Buildings". ASHRAE. Atlanta, GA.

ASHRAE 152-2014 "Method of Test for Determining the Design and Seasonal Efficiencies of Residential Thermal Distribution Systems." ASHRAE. Atlanta, GA.

ASTM E1554-13 (2018) "Standard Test Methods for Determining Air Leakage of Air Distribution Systems by Fan Pressurization," published by ASTM International. (www.astm.org)

2018 *International Building Code*. International Code Council. Washington, D.C.

BSR/UL 360, Standard for Safety for Liquid-Tight Flexible Metal Conduit

1. Stainless Steel LFMC as an Equipment Grounding Conductor (EGC) in the 2023 NEC

PROPOSAL

3.2 Steel conduit in trade sizes 3/8 – 1-1/4 (12 – 35) shall be provided with a bonding strip wound enclosed by the conduit convolutions throughout the entire length of the conduit. Conduit made from aluminum, brass, bronze, and copper~~, and stainless steel~~ in these trade sizes shall be tested according to the Resistance Test, Section 8 and the Fault Current Test, Section 9 to determine the need for a bonding strip.

Stainless Steel flexible metal core need only be subjected to this test the Fault Current Test, Section 9

The material and dimensions of the bonding strip shall result in the finished conduit having the resistance values shown in Table 8.1 before high-current testing and shall not adversely affect the flexibility and minimum bending radii of the finished conduit.

PERFORMANCE
8 Resistance Test
8.1 The electrical resistance of specimens of previously untested finished conduit shall not exceed the values shown in Table 8.1.
Exception: A Stainless Steel flexible metal core need not be subjected to this test.

9 Fault-Current Test
9.1 The equipment-ground path provided by ~~the~~ steel, aluminum, brass, bronze, copper conduit and the bonding strip in the conduit, if provided, shall not open when previously untested specimens of the finished conduit are subjected to a current of 470 A for 4 seconds for trade sizes 3/8 (12) and 1/2 (16), and 750 A for 4 seconds for trade sizes 3/4 – 1-1/4 (21 – 35). The thermoplastic jacket on the conduit shall not flame. After the test specimens have cooled to room temperature, the integrity of the jacket shall be such that both of the following are complied with:
a) The total area(s) of the metal conduit exposed due to openings in the jacket shall not be more than 5 percent of the specimen exterior surface area and
b) The largest dimension of any single opening in the jacket shall not exceed 7.5 inches (190 mm).

9.2 A stainless steel flexible metal core conduit shall not open when previously untested specimens of the finished conduit are subjected to a current of 470 A for 4 seconds for trade sizes 3/8 (12) and 1/2 (16), and 750 A for 4 seconds for trade sizes 3/4 – 1-1/4 (21 – 35). The test shall be conducted both on previously untested specimens without an external jumper and on previously untested specimens with an external jumper installed in an orientation which does not permit the jumper to lay on the jacket, e.g. top-dead center. The thermoplastic jacket on the conduit shall not flame. After the test specimens have cooled to room temperature, the integrity of the jacket shall be such that both of the following are complied with:
a) The total area(s) of the metal conduit exposed due to openings in the jacket shall not be more than 5 percent of the specimen exterior surface area and
b) The largest dimension of any single opening in the jacket shall not exceed 7.5 inches (190 mm).

9.3~~2~~
9.4~~3~~
9.5 ~~4~~
9.6~~5~~

MARKINGS
24 Details
24.1 All markings shall be clearly legible. Markings that are in addition to the surface legend and other markings required in this standard are acceptable if the additional markings do not conflict with and cannot be confused with the required markings.

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24.6 Embossed (raised) lettering is acceptable. Ink printing is acceptable if it complies with the durability requirements in 23.1 – 23.5. Indent printing is acceptable if the thickness of the jacket is not reduced below the value shown in Table 4.1.

24.7 Finished conduit that complies with the Flexibility Test per 14.1(b) may be marked with the cold temperature rating.

24.8 The statement "Use separate grounding conductor or bonding jumper" shall be durably and legibly marked at intervals no longer than 24 inches (610 mm) on the outer surface of the jacket on every length of finished Stainless steel metal core flexible conduit in the 3/8 (12), 1/2 (16), 3/4 (21), 1 (27), and 1 1/4 (35) trade sizes. The acceptable means of achieving this marking are indicated in 24.6.

BSR/UL 493, Standard for Safety for Thermoplastic-Insulated Underground Feeder and Branch-Circuit Cables

PROPOSAL(S)

1. Tag Marking, Revised 6.2.3 and 6.2.4

6.2.3 If a copper-clad aluminum conductor or conductors are used, the AWG size of the conductors, wherever the size appears (on the tag, reel, or carton), shall be followed by one of the designations, "AL (CU-CLAD)", "ALUMINUM (COPPER-CLAD)", "CU-CLAD AL", or "COPPER-CLAD ALUMINUM". ~~Tags, reels, and cartons for copper-clad aluminum cable shall have the following markings:~~

~~a) "Copper-clad aluminum shall be used only with equipment marked to indicate that it is for use with copper-clad aluminum conductors. Terminate copper-clad aluminum with pressure wire connectors marked 'AL-CU' or 'CC-CU'."~~

~~b) For 12 – 10 AWG solid copper-clad aluminum "May be used with switches and receptacles with wire-binding screws or pressure-plate connecting mechanisms that are acceptable for use with solid copper conductors."~~

~~c) For 12 – 10 AWG stranded copper-clad aluminum "May be used with receptacles with wirebinding screws or pressure-plate connecting mechanisms that are acceptable for use with stranded copper conductors."~~

~~d) For 12 – 10 AWG stranded copper-clad aluminum "May be used with switches with wire-binding screws or pressure-plate connecting mechanisms that are acceptable for use with stranded copper conductors, if indicated either on the device or in the installation instructions".~~

~~e) "Where physical contact between any combination of copper-clad aluminum, copper, and aluminum conductors occurs in a wire connector, the connector shall be of a type marked for such intermixed use and the connection shall be limited to dry locations only.~~

6.2.4 If a compact-stranded copper conductor is used, the AWG size of the conductor – wherever the size appears (on the tag, reel, or carton) – shall be followed by COMPACT COPPER or COMPACT CU. The word COMPACT may be abbreviated CMPCT. ~~Tags, reels, and cartons for compact-stranded copper wire shall have the following marking: "Terminate with connectors identified for use with compact-stranded copper conductors".~~

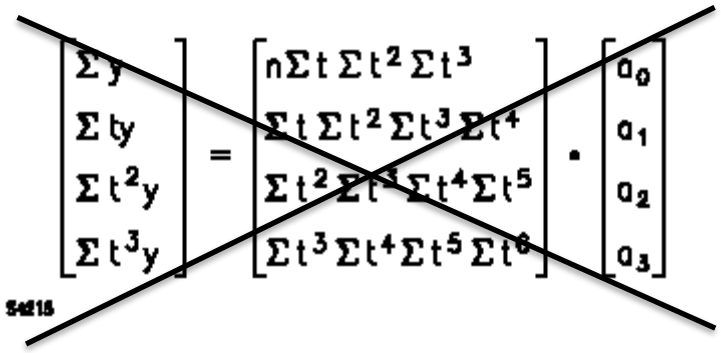
BSR/UL 746B, Standard for Safety for Polymeric Materials – Long Term Property Evaluations

1. Correction of Equation Graphic Provided in Paragraph 19.4

PROPOSAL

Note from the TC Project Manager: This proposal includes the replacement of the matrix equation referenced in Paragraph 19.4 with an updated version of the matrix equation. The proposed graphic for the matrix equation is located in the Supporting Documentation section of the CSDS UL 746B Proposal Review Work Area dated March 10, 2023.

19.4 The polynomial constants may be solved by using the following matrix equation:



In the equation, n is the number of data points used in the calculations and all summations are from 1 to n. This represents four equations with four unknowns, and these can be used to solve for the coefficients a_0, a_1, a_2, and a_3 in terms of the known sums determined from the data points. Usually, at least five data points are required to establish a useful relationship.

2. Addition of Requirements for Heat Aging of Polymeric Films and Thin Sheets in a New Subsection 21.4 and Table 21.6

PROPOSAL

Table 21.6
Typical Number of specimens required for thermal aging of film materials

Test			Specimens				
Test material	**Property**	**Method**	**Thickness mm**	**Number per set**	**Number for initial tests**	**Number for all temperatures**	**Total** [b, c, d]
Candidate (proposed)	Tensile strength and/or elongation[a, e]	UL 746A	~~0.127~~ MT[a]	5 5	10 10	220 110	230 120
	Dielectric strength[f]	UL 746A	MT[a]	5	10	220	230
	Flammability (materials rated VTM-2 or V-2 or better)	UL 94	MT[a]	10	10	160	170
Control (known)	Tensile strength and/or elongation[a, e]	UL 746A	~~0.127~~ MT[a]	5	10	220	230
	Dielectric strength[f]	UL 746A	MT[a]	5	10	220	230

[a] MT represents the minimum thickness evaluated.

[b] It is recommended to prepare samples ~~in excess of~~ more than this total in case there is a dispute of the results and a reevaluation is considered necessary.

[c] For example, 5 specimens per 5 initial sets (B – F) plus 5 specimens per 3 delayed sets (G – I) plus 5 specimens for 3 extra sets (J – L) equals 55 specimens, multiplied by 4 temperatures equals 220 specimens plus 10 unaged (set A) specimens equals 230 total specimens.

[d] For anisotropic materials, total number of samples are cut in each machine and transverse direction.

[e] Test specimens cut in the form of rectangular strips of dimension 25.4 mm (1.0 in.) by 203.2 mm (8.0 in.) are found to be useful in accordance with the Standard Test Method for Tensile Properties of Thin Plastic Sheeting, ASTM D882 or Plastics – Determination of tensile properties – Part 3: Test conditions for films and sheets, ISO 527-3.

[f] In accordance with the Standard Test Method for Thermal Endurance of Flexible Sheet Materials Used for Electrical Insulation by the curved Electrode Method, ASTM D1830 or the Standard Test Method for Dielectric Breakdown Voltage and Dielectric Strength of Solid Electrical Insulating Materials at Commercial Power Frequencies, ASTM D149 or Electric strength of insulating materials – Test methods – Part 1: Tests at power frequencies, IEC 60243-1.

21.4 Heat aging of polymeric films and thin sheets

21.4.1 The testing of films (maximum 0.25 mm thickness) and thin sheets (maximum thickness of 0.99 mm) to determine a Relative Thermal Index (RTI) for use as electrical insulation is covered in 21.4.2 – 21.4.4.

21.4.2 This subsection serves as a guide for establishing a testing program, as specific details must be worked out for each material based on variations in chemical composition, color, molecular weight, and anisotropy.

21.4.3 For anisotropic films/thin sheets (Tensile Strength value in Machine Direction - MD and Transverse Direction -TD differs by more than 15%), two sets of test specimens shall be prepared having their long axes parallel with and normal to the suspected direction of anisotropy and confirmed through testing of unexposed sets. Both control and candidate samples shall be prepared in the same manner. The assigned RTI rating shall be the lowest of the value obtained for the two directions.

Exception: If the control or candidate exhibit dissimilar directionality one of the two scenarios mentioned below is possible. In this case, the isotropic material shall be tested in any direction and the anisotropic material shall be tested in both MD and TD. The assigned RTI rating shall be the lowest of the value obtained for the two directions.

a) *Scenario 1: the candidate is isotropic, and the control is anisotropic or*

b) *Scenario 2: the control is isotropic and the candidate is anisotropic*

21.4.4 Information on the quantity of samples required for thermal aging of film or sheet materials is provided in Table 21.6.

BSR/UL 1026, Standard for Household Electric Cooking and Food Serving Appliances

1. Addition of UL 969A as an Alternative to Existing Permanency of Marking Requirements for Cord Tags

PROPOSAL

62 ~~Test for~~ Permanence of Cord Tag

62.1 To determine compliance with 67.25 and 67.27, a cord tag shall:

a) Be either of the following forms, and

1) A flag-type with an adhesive back. The tag is to be wrapped tightly once around and is to adhere to the supply cord. The ends of the tag are to adhere to each other and project as a flag. The required markings are to be positioned on the projecting flag portion of the tag.

2) A flag tag having a hole to permit securement to the power-supply cord by a plastic strap or equivalent means. The strap shall not be removable without cutting.

b) Comply with the following:

1) The Standard for Marking and Labeling Systems – Flag Labels, Flag Tags, Wrap-Around Labels and Related Products, UL 969A, for the cord type it is applied to and to the environmental conditions consistent with the intended use of the product (e.g. indoor use or outdoor use); or

2) ~~r~~Representative samples that have been subjected to the tests described in 62.3 – 62.6, shall meet the following requirements:

~~a~~i) The tag shall resist tearing for longer than 1/16 inch (1.6 mm) at any point;

~~b~~ii) The tag shall not separate from the power supply cord;

~~c~~iii) There shall be no permanent shrinkage, deformation, cracking, or any other condition that renders the marking on the tag illegible; and

~~d~~iv) Overlamination shall remain in place and not be torn or otherwise damaged. The printing shall remain legible.

62.2 For each type of conditioning mentioned in 62.3 – 62.5, three samples of the tag applied to the power supply cord in the intended manner are to be used. If tags are applied by an adhesive, tests are to be conducted no sooner than 25 hours after application of the tag.

62.3 Three samples are to be tested as received.

62.4 Following conditioning in an air-circulating oven at 60 ±1°C (140 ±1.8°F) for 240 hours, three samples are to be tested after 30 minutes of conditioning at a room temperature of 23 ±2°C (73.4 ±3.6°F) and 50 ±5 percent relative humidity.

62.5 Three samples are to be tested within 1 minute after exposure for 72 hours to a humidity of 85 ±5 percent at 32 ±2°C (89.6 ±6°F).

62.6 Each sample is to consist of a length of power supply cord to which the tag has been applied. The power supply cord, with the attachment plug pointing up, is to be held tautly in a vertical plane. A force of 5 lbf (22.2 N) is to be applied to the upper-most corner of the tag farthest from the power supply cord, within 1/4 inch (6.4 mm) of the vertical edge of the tag. The force is to be applied vertically downward in a direction parallel to the major axis of the cord. In determining compliance with 62.1~~(d)~~ (b)(2)(iii), manipulation is permissible, such as straightening of the tag by hand. To determine compliance with

62.1~~(d)~~(b)(2)(iv), each sample is to be scraped 10 times across printed areas and edges, with a force of approximately 2 lbf (8.9 N), using the edge of a 5/64 inch (2.0 mm) thick steel blade held at a right angle to the test surface.

67.25 The marking described in 67.24, may be provided on a tag that is permanently attached to the power supply cord. The tag material and means of attachment to the power supply cord shall comply with the requirements in ~~Test for~~ Permanence of Cord Tag, Section 62. The tag and the printing there-on shall be resistant to water.

67.27 A slow cooker shall be provided with a cord tag as shown in Figure 67.1 that is permanently attached to the power supply cord and located within 2 inches (51 mm) from where the cord exits the attachment plug, including its bushing, when shipped from the factory. The tag material and means of attachment to the power supply cord shall comply with the requirements in ~~Test for~~ Permanence of Cord Tag, Section 62. The cord tag text shall be verbatim. See 67.28 – 67.30.

69.12 An appliance other than a slow cooker provided with a flexible cord less than 4-1/2 feet (1.4 m) in length shall be provided with the following information:

a) A short power-supply cord (or detachable power-supply cord) is provided to reduce the risk resulting from becoming entangled in or tripping over a longer cord.

b) Longer detachable power-supply cords or extension cords are available and may be used if care is exercised in their use.

c) If a longer detachable power-supply cord or extension cord is used:

1) The marked electrical rating of the cord set or extension cord should be at least as great as the electrical rating of the appliance;

2) The cord should be arranged so that it will not drape over the countertop or tabletop where it can be pulled on by children or tripped over unintentionally; and

3) If the appliance is of the grounded type, the cord set or extension cord should be a grounding-type 3-wire cord.

Exception: Items (b) and (c) above may be omitted if the product complies with all of the following:

a) The instruction manual includes a statement prohibiting the use of a longer detachable power supply cord or extension cord.

b) The appliance is provided with a cord tag marked "CAUTION: Do not use an extension cord" or equivalent. The tag shall be permanently attached to the power supply cord, and located within 2 inches (51 mm) of the plug when shipped from the factory. The tag material and means of attachment to the power supply cord shall comply with the requirements in the ~~Test for~~ Permanence of Cord Tag, Section 62.

2. Clarify Strain Relief Test Requirement

PROPOSAL

10.2.2.5 The strain-relief means provided on an attached flexible cord, when tested in accordance with 10.2.2.6, shall be capable of withstanding for 1 minute, ~~without displacement~~ without stress at the connection, a pull of 35 lbf (156 N) applied to the cord~~,~~ with the connection within the appliance disconnected.

10.2.2.6 The specified force is to be applied to the cord and supported by the appliance ~~so that the strain-~~ relief means ~~is~~ will be stressed from any angle that the construction of the appliance permits. The strain relief is not acceptable if, at the point of disconnection of the conductors, there is ~~sufficient~~ such movement of the cord to indicate that stress would have resulted on the connections ~~have resulted~~. The cord shall not have internal displacement lengthwise by more than 0.078 in (2 mm).