



STANDARDS ACTION

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Project Initiation Notification System (PINS)

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

CTA (Consumer Technology Association)

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

New Standard

BSR/CTA 2102.1-202x, Performance Criteria and Testing Protocols for Breathing Rate - Real-World Analysis (new standard)

Stakeholders: consumers, manufacturers and retailers

Project Need: To extend CTA-2102 to add new protocols for real-world analysis for consumer technology that measure respiration rate.

Interest Categories: general interest, user and producer

This standard extends CTA-2012 to add new protocols for real-world analysis for consumer technology that measures respiration rate.

CTA (Consumer Technology Association)

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

New Standard

BSR/CTA 2123-202x, Characteristics and Requirements for Anxiety Detection and Monitoring Solutions (new standard)

Stakeholders: consumers, manufacturers and retailers

Project Need: Provide guidelines for consumer technologies related to the intervention, monitoring, and assessment of anxiety.

Interest Categories: general interest, user and producer

This standard will provide guidelines for consumer technologies related to the intervention, monitoring, and assessment of anxiety.

CTA (Consumer Technology Association)

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

New Standard

BSR/CTA 2124-202x, Characteristics and Requirements for Consumer Continuous Glucose Monitoring Solutions (new standard)

Stakeholders: consumers, manufacturers and retailers

Project Need: Provide guidelines and identify best practices for use of consumer CGM solutions in applications beyond diabetes treatment.

Interest Categories: general interest, user and producer

This standard will provide guidelines and identify best practices for use of consumer CGM solutions in applications beyond diabetes treatment.

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 364-06C-202x, Contact Resistance Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364-06C-2006 (R2017))

Stakeholders: Electronics, electrical and telecommunications industries

Project Need: Revise and redesignate current ANS

Interest Categories: User, Producer, General Interest

This standard establishes test methods to determine the resistance of mated connector contacts attached to lengths of wire by measuring the voltage drop across the contacts while they are carrying a specified current.

NEMA (ASC C137) (National Electrical Manufacturers Association)

Michael Erbesfeld <Michael.Erbesfeld@nema.org> | 1300 N 17th Street, Suite 900 | Rosslyn, VA 22209 www.nema.org

Revision

BSR/C137.4-202X, Standard for Lighting Systems - Interoperability of LED Drivers and Other Connected Devices Via the Digital Addressable Lighting Interface (revision of ANSI/C137.4-2021)

Stakeholders: Producers, Users, General Interest

Project Need: This project is needed to address troubleshooting and replacing LED drivers in luminaires in the field. Most instances will be for luminaires for roadway, parking lots, and site lighting. The revision includes the requirements for tools able to read the programmed LED Driver Output Current. This information is currently in a Custom Memory Bank and this revision will allow generic tools to access this information. Memory Bank mappings will be revised and the data fields will be clarified. This revision will add test requirements for 2W Auxiliary Power Supplies, that correlate to the test requirements for 3W Power Supplies. Specifications for a QR Code, that contains key static information from memory banks, will be added.

Interest Categories: Producers, Users, General Interest

This standard specifies the minimum requirements for devices such as drivers, AUX power supplies, controls, sensors, luminaire-mounted control devices, and communication devices supporting a digital interface between devices. This standard builds on the digital addressable lighting interface as specified in the IEC 62386 series of standards to specify the requirements for memory bank usage, logic signal interface, energy reporting, diagnostic information, as well as requirements for auxiliary power supplies that may be integrated into an LED driver.

NSF (NSF International)

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

New Standard

BSR/NSF 391.5-202x, Sustainability Aspects (Industry Agnostic) (new standard)

Stakeholders: Consumers, Manufacturers, Users: Environmental / Life Cycle Analysis, Public Health / Academia, Government

Project Need: The ever more important goal of sustainable development is simply stated, meeting the needs of the present without compromising the ability of future generations to meet their own needs. The fifteen United Nations SDGs provide a framework for this effort. These considerations often are considered to be out of scope, and have not been included in product standards. This standard provides criteria for the adjunct assessment of sustainability aspects of corporate or facility-specific impacts, related to production.

Interest Categories: Manufacturers, Users: Public Health / Academia / Government

Informed by ISO Guide 64 'Guide for addressing environmental issues in product standards', and ISO Guide 84 'Guidelines for addressing climate change in standards', and in support of the UN Sustainable Development Goals, this standard is intended to address sustainability aspects that are not within the scope of product standards. The criteria are applicable across industry types, bring rigor to the identification and measurement of sustainability aspects, and provide opportunities for continuous improvement.

Call for Comment on Standards Proposals

American National Standards

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

Ordering Instructions for "Call-for-Comment" Listings

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

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

* Standard for consumer products

Comment Deadline: June 25, 2023

ULSE (UL Standards & Engagement)

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

Revision

BSR/UL 101-202x, Standard for Safety for Leakage Current for Utilization Equipment (revision of ANSI/UL 101-2019)

1. Proposed revisions addressing GFCI Interoperability Issues.

[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)

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

Revision

BSR/UL 1069-202x, Standard for Safety for Hospital Signaling and Nurse Call Equipment (revision of ANSI/UL 1069-2022a)

This proposal for UL 1069 covers an increase of continuous DC limitation from 42.4 Volts to 60 Volts.

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

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

Comment Deadline: July 10, 2023

AAFS (American Academy of Forensic Sciences)

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

New Standard

BSR/ASB Std 078-202x, Standard for Training in Forensic Autosomal Short Tandem Repeat (STR) Data and Y-STR Data Interpretation and Comparison (new standard)

This standard defines the minimum requirements to be met in a forensic DNA analyst training program for autosomal and Y-STR data interpretation and comparison. This standard excludes training for DNA sequencing.

Single copy price: Free

Obtain an electronic copy from: This is a public comment period for a recirculation. Updated document, redline version, and comments can be viewed on the AAFS Standards Board website at: www.aafs.org/academy-standards-board

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

AAFS (American Academy of Forensic Sciences)

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

New Standard

BSR/ASB Std 147-202x, Standard for Analyzing Skeletal Trauma in Forensic Anthropology (new standard)

This standard provides requirements for documenting, describing, interpreting, and reporting skeletal trauma in forensic anthropology. It also provides requirements for the determination of trauma timing (i.e., antemortem, perimortem, or postmortem) and the identification of the mechanism that produced the trauma (i.e., projectile, sharp, blunt, or thermal trauma). This document does not address cause and manner of death.

Single copy price: Free

Obtain an electronic copy from: This is a public comment period for a recirculation. Updated document, redline version, and comments can be viewed on the AAFS Standards Board website at: www.aafs.org/academy-standards-board.

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

AAFS (American Academy of Forensic Sciences)

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

New Standard

BSR/ASB Std 148-202x, Standard for Personal Identification in Forensic Anthropology (new standard)

This standard provides approaches for establishing a personal identification in forensic anthropology using both scientific identification methods and contributory anthropological findings. This standard does not address identification of living individuals.

Single copy price: Free

Obtain an electronic copy from: This is a public comment period for a recirculation. Updated document, redline version, and comments can be viewed on the AAFS Standards Board website at: www.aafs.org/academy-standards-board.

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

Comment Deadline: July 10, 2023

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

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

Revision

BSR/AHRI Standard 1330 (SI)-202x, Performance Rating for Radiant Output of Gas Fired Infrared Heaters (revision of ANSI/AHRI Standard 1330-2015)

The purpose of this standard is to establish for infrared heaters: definitions; test requirements; rating requirements; nomenclature; minimum data requirements for Published Ratings; marking and nameplate data; and conformance conditions. This standard will be revised for alignment with the current editions of prEN 416 and 419 standards.

Single copy price: Free

Obtain an electronic copy from: <https://connect.ahrinet.org/standards-public-review/stdsunderpublicreview>

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

API (American Petroleum Institute)

200 Massachusetts Avenue NW, Suite 1100, Washington, DC 20001-5571 | pintoi@api.org, www.api.org

Reaffirmation

BSR/API 13M/ISO 13503-1-2004 (R202x), Recommended Practice for the Measurement of Viscous Properties of Completion Fluids (reaffirm a national adoption ANSI/API 13M/ISO 13503-1-2004 (R2018))

This part of ISO 13503 provides consistent methodology for determining the viscosity of completion fluids used in the petroleum and natural gas industries. For certain cases, methods are also provided to determine the rheological properties of a fluid.

Single copy price: \$110.00

Obtain an electronic copy from: pintoi@api.org

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

ASA (ASC S12) (Acoustical Society of America)

1305 Walt Whitman Road, Suite 110, Melville, NY 11747 | standards@acousticalsociety.org, www.acousticalsociety.org

Reaffirmation

BSR/ASA S12.2-2019 (R202x), Criteria for Evaluating Room Noise (reaffirmation of ANSI/ASA S12.2-2019)

This Standard provides three primary methods for evaluating room noise: a survey method that employs the A-weighted sound level; an engineering method that employs expanded noise criteria (NC) curves; and a method for evaluating low-frequency fluctuating noise using room noise criterion (RNC) curves.

Single copy price: \$165.00

Obtain an electronic copy from: standards@acousticalsociety.org

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

Comment Deadline: July 10, 2023

ASC X9 (Accredited Standards Committee X9, Incorporated)

275 West Street, Suite 107, Annapolis, MD 21401 | Ambria.Calloway@X9.org, www.x9.org

Revision

BSR X9.73-202x, Cryptographic Message Syntax (revision of ANSI X9.73-2017)

The high value or sheer volume of such transactions within an open environment exposes the financial community to the risk of potentially severe consequences from accidental or deliberate disclosure, alteration, substitution, or destruction of data. This risk is compounded by interconnected networks, and the increased number and sophistication of malicious adversaries. And when financial transactions involve systemically important payment systems, these consequences may adversely affect national and global financial markets.

This Standard defines a cryptographic message syntax which can be used to protect financial transactions and other information from the threats described above. The syntax is easily extensible in design to allow the use of any cryptographic algorithm defined in current or future standards appropriate for use by the financial services. The cryptographic syntax is suitable for the protection of the identity and rights management information critical for secure access control.

Single copy price: \$60.00

Obtain an electronic copy from: ambria.frazier@x9.org

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

ASME (American Society of Mechanical Engineers)

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

Revision

BSR/ASME A17.3-202x, Safety Code for Existing Elevators and Escalators (revision of ANSI/ASME A17.3-2020)

This safety standard covers existing elevators, escalators, and their hoistways.

Single copy price: Free

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

Send comments (copy psa@ansi.org) to: Nicole Gomez <gomezn@asme.org>

AWS (American Welding Society)

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

New Standard

BSR/AWS B5.16-202x, Specification for the Qualification of Welding Engineering Personnel (new standard)

This specification establishes the requirements for qualification of Welding Engineering Technologists and Welding Engineers employed in the welding industry. The minimum experience, examination, application, qualification, and requalification requirements and methods are defined herein. This specification is a method for engineering personnel to establish a record of their qualification and abilities in welding industry work such as development of procedures, processes controls, quality standards, problem solving, etc.

Single copy price: Member \$26.00/Non-member \$34.50

Obtain an electronic copy from: bboddiger@aws.org

Send comments (copy psa@ansi.org) to: Brenda Boddiger <bboddiger@aws.org>

Comment Deadline: July 10, 2023

AWS (American Welding Society)

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

New Standard

BSR/AWS C3.11M/C3.11-202x, Specification for Torch Soldering (new standard)

This specification describes relevant equipment, fabrication procedures, and quality (inspection) requirements for the torch soldering of materials. This document includes criteria for classifying torch-soldered joints based on loading and the consequences of failure and quality assurance criteria defining the limits of acceptability in each class.

Single copy price: \$28.00 member / \$38.00 non-member

Obtain an electronic copy from: kbulger@aws.org

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

AWS (American Welding Society)

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

Revision

BSR/AWS C3.12M/C3.12-202x, Specification for Furnace Soldering (revision of ANSI/AWS C3.12M/C3.12-2017)

This specification provides the minimum requirements for equipment, materials, processing procedures as well as inspection for metal and ceramic base materials that can be furnace soldered. This specification provides criteria for classifying furnace soldered joints based on loading and the consequences of failure. It also provides quality assurance criteria that define the limits of acceptability in each class. This specification describes acceptable furnace soldering equipment, materials, and procedures, as well as the required inspection for each class of solder joint so produced.

Single copy price: \$28.00 member / \$38.00 non-member

Obtain an electronic copy from: kbulger@aws.org

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

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 AWS D14.1/D14.1M-2005; AWS D14.3/D14.3M-2019; AWS D14.4/D14.4M-2019; AWS D14.5/D14.5M-2009)

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: \$134.00 Non-Member / \$100.00 Member

Obtain an electronic copy from: kbulger@aws.org

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

Comment Deadline: July 10, 2023

BIFMA (Business and Institutional Furniture Manufacturers Association)

678 Front Avenue NW, Suite 150, Grand Rapids, MI 49504 | skooy@bifma.org, www.bifma.org

New Standard

BSR/BIFMA X10.1-202X, Ergonomics Requirements for Furniture Designed for Computer Use (new standard)

This is the third edition of BIFMA ergonomics requirements for furniture. It supersedes previous editions published as guidelines in 2013 and 2002 under the title “Ergonomics Guideline for Furniture Used In Office Work Spaces Designed for Computer Use”. The present edition includes updates to reflect changes in the anthropometry of the North American working population and new technology and is now presented in the form of a standard rather than a guideline. The objective of this Standard is to apply the relevant measurable ergonomics principles in ISO 9241-5, 9241-500, 9241-302, and 9241-303 to the design requirements for furniture designed for computer use. This Standard was prepared by the BIFMA Ergonomics Subcommittee which was composed of certified professional ergonomists and non-ergonomists in the following categories: producers/manufacturers, engineering/testing, supply chain, end users and general interest (consultants, academia, and other experts).

Single copy price: \$400.00

Obtain an electronic copy from: email@bifma.org

Send comments (copy psa@ansi.org) to: Steven Kooy <skooy@bifma.org>

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 302-202x, Fire Protection Standard for Pleasure and Commercial Motor Craft (revision of ANSI/NFPA 302-2020)

This standard shall establish minimum requirements for the prevention of fire and explosion, for mitigation of carbon monoxide hazards, and for life safety in case of fire, on boats specified in Section 1.3. This standard shall establish minimum requirements for the following: (1) Elimination of ignition sources; (2) Ventilation of accommodation spaces, fuel tank compartments (if separate from machinery spaces), and machinery spaces; (3) Use of combustible materials; (4) Fire-extinguishing equipment and fire exits; (5) Control of fire-extinguishing agents in machinery spaces; and (6) Mitigation of carbon monoxide hazards from all sources.

Obtain an electronic copy from: www.nfpa.org/302Next

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

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 801-202x, Standard for Fire Protection for Facilities Handling Radioactive Materials (revision of ANSI/NFPA 801-2020)

This standard addresses fire protection requirements intended to reduce the risk of fires and explosions at facilities handling radioactive materials. A. The objectives of this standard are to reduce personal hazards, provide protection from property damage, and minimize process interruption resulting from fire and explosion. Radioactive contamination might or might not be a factor in these risks. This standard shall not apply to commercial power-generating reactors that are covered by NFPA 804, Standard for Fire Protection for Advanced Light Water Reactor Electric Generating Plants; NFPA 805, Performance-Based Standard for Fire Protection for Light Water Reactor Electric Generating Plants; and NFPA 806, Performance-Based Standard for Fire Protection for Advanced Nuclear Reactor Electric Generating Plants Change Process.

Obtain an electronic copy from: www.nfpa.org/801Next

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

Comment Deadline: July 10, 2023

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 2113-202x, Standard on Selection, Care, Use, and Maintenance of Flame-Resistant Garments for Protection of Industrial Personnel Against Short-Duration Thermal Exposures from Fire (revision of ANSI/NFPA 2113-2020)

1.1 Scope. This standard shall specify the minimum selection, care, use, and maintenance requirements for flame-resistant garments for use by industrial personnel in areas at risk from short-duration thermal exposures from industrial fires that are compliant with NFPA 2112. This standard shall not apply to protective clothing for wildland fire fighting, technical rescue, structural fire fighting, proximity fire fighting, or any other fire-fighting operations, or hazardous materials emergencies. This standard shall not apply to protection from electrical flashes, radiological agents, biological agents, or hazardous materials.

Obtain an electronic copy from: www.nfpa.org/2113Next

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

NSF (NSF International)

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

Revision

BSR/NSF 350-202x (i63r6), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2022)

This standard contains minimum requirements for onsite residential and commercial greywater treatment systems. Systems may include greywater reuse treatment systems having a rated treatment capacity up to 5,678 L/d (1,500 gal/d); or commercial greywater reuse treatment systems: This applies to onsite commercial reuse treatment systems that treat combined commercial facility greywater with capacities exceeding 5,678 L/d (1,500 gal/d) and commercial facility laundry water only of any capacity. Management methods and end uses appropriate for the treated effluent discharged from greywater residential and commercial treatment systems meeting this standard are limited to subsurface discharge to the environment only.

Single copy price: Free

Obtain an electronic copy from: https://standards.nsf.org/apps/group_public/download.php/69284/350i63r6%20et%20al%20-%20JC%20Memo%20%26%20ballot.pdf

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

NSF (NSF International)

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

Revision

BSR/NSF 437-202x (i3r6), Glossary of Wastewater Technology Terminology (revision of ANSI/NSF 437-2021)

Definitions covered by this standard consist of terminology related to wastewater technology, including terms describing equipment, materials, design, construction, and performance testing. This standard includes common definitions of terms used throughout NSF Wastewater Technology Standards.

Single copy price: Free

Obtain an electronic copy from: https://standards.nsf.org/apps/group_public/download.php/69284/350i63r6%20et%20al%20-%20JC%20Memo%20%26%20ballot.pdf

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

Comment Deadline: July 10, 2023

PEARL (Professional Electrical Apparatus Recyclers League)

17 Faulkner Drive, Niantic, CT 06357 | mtierney@kellencompany.com, www.pearl1.org

Revision

BSR/PEARL EERS-202X, Professional Electrical Apparatus Reconditioning League - Electrical Equipment Reconditioning Standard for Electrical Apparatus and Equipment Used in Commercial and Industrial Applications (revision of ANSI/PEARL EERS-2018)

This standard describes procedures necessary to assess, recondition, and validate electrical equipment to safely reuse. It is prepared from a reconditioning shop perspective and intended to be a resource for trained and experienced in-shop technicians, giving them a view of inspection points and critical components and subassemblies in appropriate order to affect the reconditioning procedure. The Standard relates to power distribution systems and components ranging to 38,000 VAC and magnetic control devices and systems up to 5,000 VAC.

Single copy price: Free

Obtain an electronic copy from: mtierney@kellencompany.com or kbishop@kellencompany.com

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

SPRI (Single Ply Roofing Industry)

465 Waverley Oaks Road, Suite 421, Waltham, MA 02452 | info@spri.org, www.spri.org

New Standard

BSR/SPRI/FM MPO-1-202x, Test Standard for Comparative Pull-Over Strengths of Membrane Fastening Systems and Waterproofing Membrane Materials Used with Low Slope Roofing Systems (new standard)

This standard provides basic requirements and procedures for determining the maximum failure load of waterproofing membranes and fastening systems when tested for membrane pull over resistance in both symmetric and asymmetric stress plate loading scenarios.

Single copy price: Free

Obtain an electronic copy from: info@spri.org

Send comments (copy psa@ansi.org) to: Linda King <info@spri.org>

TIA (Telecommunications Industry Association)

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

Revision

BSR/TIA 322-A-202x, Loading, Analysis, and Design Criteria Related to the Installation, Alteration and Maintenance of Communication Structures (revision and redesignation of ANSI/TIA 322-2016)

Create a new revision to the TIA-322 standard to be consistent with industry practice and harmonization with the A10.48 Standard

Single copy price: \$133.00

Obtain an electronic copy from: standards-process@tiaonline.org

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

Comment Deadline: July 10, 2023

ULSE (UL Standards & Engagement)

47173 Benicia Street, Fremont, CA 94538 | Marcia.M.Kawate@ul.org, <https://ulse.org/>

New Standard

BSR/UL 795-202x, Standard for Safety for Commercial-Industrial Gas-Fired Package Boilers (new standard)

The following topic is being recirculated: (1) Proposed Joint US-Canada Standard for Commercial-Industrial Gas-Fired Package Boilers.

Single copy price: Free

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

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

ULSE (UL Standards & Engagement)

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

Reaffirmation

BSR/UL 22-2010 (R202x), Standard for Amusement and Gaming Machines (reaffirmation of ANSI/UL 22-2010 (R2019))

Reaffirmation and continuance of the Sixth Edition of the Standard for Amusement and Gaming Machines, UL 22, as an standard.

Single copy price: Free

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

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

ULSE (UL Standards & Engagement)

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

Reaffirmation

BSR/UL 1004-4-2018 (R202x), Standard for Safety for Electric Generators (reaffirmation of ANSI/UL 1004-4-2018)

Reaffirmation of UL 1004-4 which covers electric generators, also referred to as alternators, which, when coupled with prime movers, such as engines or electric motors, are used to produce electricity. This Standard covers generators, including those for standby use rated 34,000 volts or less.

Single copy price: Free

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

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

Comment Deadline: July 10, 2023

ULSE (UL Standards & Engagement)

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

Reaffirmation

BSR/UL 60745-2-15-2018 (R202x), UL Standard for Safety for Hand-Held Motor-Operated Electric Tools - Safety - Part 2-15: Particular Requirements for Hedge Trimmers (reaffirmation of ANSI/UL 60745-2-15-2018) Reaffirmation and continuance of the 1st Edition of the Standard for Safety for Hand-Held Motor-Operated Electric Tools - Safety - Part 2-15: Particular Requirements for Hedge Trimmers, UL 60745-2-15, as an American National Standard.

Single copy price: Free

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

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

ULSE (UL Standards & Engagement)

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

Revision

BSR/UL 891-202x, Standard for Safety for Switchboards (revision of ANSI/UL 891-2019)

This proposal includes the following topics: 1. Revision of Requirements for Multiple Source Switchboards; 2. Addition of Requirements for Forced-Air Cooling for Switchboards; 3. Modification of Requirements for Emergency Circuits; 4. Update Requirements in UL 891 to Reflect Changes to the 2020 Edition of the NEC; 5. Proposed Revisions to Requirements for Service Equipment Use; 6. Addition of Requirements for Dielectric Testing with a Range of Source Frequencies; 7. Voltage Ratings for High-Impedance Neutral Grounded Systems; 8. Revision of Requirements for Minimum Conductor Size for High Impedance Grounded Neutral Systems; 9. Addition of Requirements for Panelboards Mounted in a Face-Up Position; 10. Addition of Requirements for Connection of Devices Within Annex G; 11. Revision of Temperature Stabilization Requirements in Paragraph 9.2.2.15; 12. Revision of Annex D; 13. Revision of "Nominal" Bus Bar Size to a "Minimum" Bus Bar Size in Annex G; 14. Clarification of Requirement in Annex G for Distance from Connector to Closest Support; 15. Reduction of the Threshold Limit of Single Pole Inlets Requiring Interlocking; and 16. Deletion of Reference to Standard UL 1054 from Annex A.

Single copy price: Free

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

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

Comment Deadline: July 25, 2023

IEEE (Institute of Electrical and Electronics Engineers)

445 Hoes Lane, Piscataway, NJ 08854 | k.evangelista@ieee.org, www.ieee.org

New Standard

BSR/IEEE/IES 3001.9-202x, Recommended Practice for the Design of Power Systems Supplying Lighting Systems in Commercial and Industrial Facilities (new standard)

This recommended practice covers the design of power systems supplying lighting loads of industrial and commercial facilities. Common power system considerations specifically related to lighting loads are covered including voltage drop, transients, flicker, and circuiting recommendations for various applications. General fundamental concepts of lighting design including common light sources, control methods, and application techniques are discussed. Industry-recognized lighting design organizations and applicable lighting codes are discussed and identified as further resources for the lighting designer.

Single copy price: \$9.00

Order from: <https://www.techstreet.com/ieee>

Send comments (copy psa@ansi.org) to: k.evangelista@ieee.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

Withdrawal

INCITS/ISO/IEC 27009:2016 [2019], Information technology – Security techniques – Sector-specific application of ISO/IEC 27001 – Requirements (withdrawal of INCITS/ISO/IEC 27009:2016 [2019])

Defines the requirements for the use of ISO/IEC 27001 in any specific sector (field, application area or market sector). It explains how to include requirements additional to those in ISO/IEC 27001, how to refine any of the ISO/IEC 27001 requirements, and how to include controls or control sets in addition to ISO/IEC 27001:2013, Annex A. It ensures that additional or refined requirements are not in conflict with the requirements in ISO/IEC 27001. It is applicable to those involved in producing sector-specific standards that relate to ISO/IEC 27001.

Single copy price: \$60.00

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>

ULSE (UL Standards & Engagement)

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

National Adoption

BSR/UL 60335-2-34-202X, Standard for Household and Similar Electrical Appliances - Safety - Part 2-34:

Particular requirements for motor-compressors (national adoption of IEC 60335-2-34 with modifications and revision of ANSI/UL 60335-2-34-2017)

UL is proposing to adopt the 7th edition of UL 60335-2-34 which includes the 6th edition of IEC 60335-2-34 plus the North American national differences. This International Standard deals with the safety of sealed (hermetic and semi-hermetic type) motor-compressors, their protection and control systems, if any, which are intended for use in equipment for household and similar purposes.

Single copy price: Free

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

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

Comment Deadline: July 25, 2023

ULSE (UL Standards & Engagement)

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

Revision

BSR/UL 2351-202x, Standard for Spray Nozzles for Fire-Protection Service (revision of ANSI/UL 2351-2014 (R2018))

1.1 These requirements cover automatic and non-automatic (open) type water spray nozzles for installation in accordance with the Standard for Installation of Sprinkler Systems, NFPA 13, and the Standard for Water Spray Fixed Systems for Fire Protection, NFPA 15.

Single copy price: Free

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

Send comments (copy psa@ansi.org) to: Grayson Flake <Grayson.Flake@ul.org>

Project Withdrawn

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

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

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

BSR/AHRI Standard 710-202x (I-P), Performance Rating of Liquid-Line Driers (new standard)

Send comments (copy psa@ansi.org) to: Karl Best <kbest@ahrinet.org>

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

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

BSR/AHRI Standard 711-202x (SI), Performance Rating of Liquid-Line Driers (new standard)

Send comments (copy psa@ansi.org) to: Karl Best <kbest@ahrinet.org>

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

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

BSR/AHRI Standard 715-202x (I-P), Performance Rating of Liquid-Line Filters (revision of ANSI/AHRI Standard 715 (I-P)-2015)

Send comments (copy psa@ansi.org) to: Karl Best <kbest@ahrinet.org>

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

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

BSR/AHRI Standard 716-202x (SI), Performance Rating of Liquid-Line Filters (revision of ANSI/AHRI Standard 716 (SI)-2015)

Send comments (copy psa@ansi.org) to: Karl Best <kbest@ahrinet.org>

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

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

BSR/AHRI Standard 730-202x (I-P), Flow Capacity Rating of Suction-Line Filters and Suction-Line Filter-Driers (revision of ANSI/AHRI Standard 730 (I-P)-2013)

Send comments (copy psa@ansi.org) to: Karl Best <kbest@ahrinet.org>

Project Withdrawn

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

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

BSR/AHRI Standard 731-202x (SI), Flow Capacity Rating of Suction-Line Filters and Suction-Line Filter-Driers (revision of ANSI/AHRI Standard 731 (SI)-2013)

Send comments (copy psa@ansi.org) to: Karl Best <kbest@ahrinet.org>

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

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

BSR/AHRI Standard 750-202x (I-P), Performance Rating of Thermostatic Refrigerant Expansion Valves (new standard)

Send comments (copy psa@ansi.org) to: Bill McQuade <BMcQuade@ahrinet.org>; kcarlson@ahrinet.org>

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

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

BSR/AHRI Standard 750-202x (SI), Performance Rating of Thermostatic Refrigerant Expansion Valves (new standard)

Send comments (copy psa@ansi.org) to: Karl Best <kbest@ahrinet.org>

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

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

BSR/AHRI Standard 760-202x (I-P), Performance Rating of Solenoid Valves for Use with Volatile Refrigerants (revision of ANSI/AHRI Standard 760 (I-P)-2014)

Send comments (copy psa@ansi.org) to: Karl Best <kbest@ahrinet.org>

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

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

BSR/AHRI Standard 761-202x (SI), Performance Rating of Solenoid Valves for Use with Volatile Refrigerants (revision of ANSI/AHRI Standard 761 (SI)-2014)

Send comments (copy psa@ansi.org) to: Karl Best <kbest@ahrinet.org>

ASC X9 (Accredited Standards Committee X9, Incorporated)

275 West Street, Suite 107, Annapolis, MD 21401 | Ambria.Calloway@X9.org, www.x9.org

BSR X9.137-202x, Tokenization Management and Security (new standard)

Send comments (copy psa@ansi.org) to: Ambria Calloway <Ambria.Calloway@X9.org>

NEMA (ASC C137) (National Electrical Manufacturers Association)

1300 N 17th Street, Suite 900, Rosslyn, VA 22209 | Michael.Erbesfeld@nema.org, www.nema.org

BSR/C137.8-202X, Standard for Lighting Systems - Lighting Control User Interface Elements (new standard)

Send comments (copy psa@ansi.org) to: Michael Erbesfeld <Michael.Erbesfeld@nema.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 715 (I-P)-2015, Performance Rating of Liquid-Line Filters (new standard)

Send comments (copy psa@ansi.org) to: Questions may be directed to: Bill McQuade <BMcQuade@ahrinet.org>; kcarlson@ahrinet.org>

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 716 (SI)-2015, Performance Rating of Liquid-Line Filters (new standard)

Send comments (copy psa@ansi.org) to: Questions may be directed to: Karl Best <kbest@ahrinet.org>

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 731 (SI)-2013, Flow Capacity Rating of Suction-Line Filters and Suction-Line Filter-Driers (new standard)

Send comments (copy psa@ansi.org) to: Questions may be directed to: Karl Best <kbest@ahrinet.org>

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 761 (SI)-2014, Performance Rating of Solenoid Valves for Use with Volatile Refrigerants (new standard)

Send comments (copy psa@ansi.org) to: Questions may be directed to: Karl Best <kbest@ahrinet.org>

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 730 (I-P)-2013, Flow Capacity Rating of Suction-Line Filters and Suction-Line Filter-Driers (revision and redesignation of ANSI/AHRI Standard 730-2005)

Send comments (copy psa@ansi.org) to: Questions may be directed to: Karl Best <kbest@ahrinet.org>

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 760 (I-P)-2014, Performance Rating of Solenoid Valves for Use with Volatile Refrigerants (revision of ANSI/AHRI Standard 760-2007)

Send comments (copy psa@ansi.org) to: Questions may be directed to: Karl Best <kbest@ahrinet.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.

AAFS (American Academy of Forensic Sciences)

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

ANSI/ASB Std 135-2023, Scene Detection and Processing in Forensic Anthropology (new standard) Final Action Date: 5/15/2023 | *New Standard*

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

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

ANSI/ASHRAE/IES Addendum a 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: 5/16/2023 | *Addenda*

ANSI/ASHRAE/IES Addendum bo to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019) Final Action Date: 5/16/2023 | *Addenda*

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 B30.22-2023, Articulating Boom Cranes (revision of ANSI/ASME B30.22-2016) Final Action Date: 5/19/2023 | *Revision*

AWS (American Welding Society)

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

ANSI/AWS A5.10/A5.10M (ISO 18273-2023 MOD), Specification for Bare Aluminum and Aluminum-Alloy Welding Electrodes and Rods (national adoption of ISO 18273 with modifications and revision of ANSI/AWS A5.10/A5.10M -2021 (ISO 18273-2015 MOD)) Final Action Date: 5/19/2023 | *National Adoption*

ANSI/AWS A5.3/A5.3M-2023, Specification for Aluminum and Aluminum-Alloy Electrodes for Shielded Metal Arc Welding (new standard) Final Action Date: 5/19/2023 | *New Standard*

ANSI/AWS B2.1-1/8-227-2023, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Carbon Steel (M-1/P-1, Groups 1 or 2) to Austenitic Stainless Steel (M-8/P-8, Group 1), 1/16 inch [1.5 mm] through 1 -1/2 inch [38 mm] Thick, ER309(L), in the As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-1/8-227-2002 (R2013)) Final Action Date: 5/18/2023 | *Revision*

ANSI/AWS B2.1-1/8-228-2023, Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1, Groups 1 or 2) to Austenitic Stainless Steel (M-8/P-8, Group 1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, E309(L)-15, -16, or -17, in the As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-1/8-228-2002 (R2013)) Final Action Date: 5/18/2023 | *Revision*

ANSI/AWS B2.1-1/8-229-2023, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding followed by Shielded Metal Arc Welding of Carbon Steel (M-1/P-1, Groups 1 or 2) to Austenitic Stainless Steel (M-8/P-8, Group 1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, ER309(L) and E309(L)-15, -16, or -17, in the As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-1/8-229-2002 (R2013)) Final Action Date: 5/18/2023 | *Revision*

AWS (American Welding Society)

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

ANSI/AWS B2.1-1/8-230-2023, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root of Carbon Steel (M-1/P-1, Groups 1 or 2) to Austenitic Stainless Steel (M-8/P-8, Group 1), 1/16 inch [1.5 mm] through 1-1/2 inch [38 mm] Thick, IN309 and ER309(L), As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-1/8-230-2002 (R2013)) Final Action Date: 5/18/2023 | *Revision*

AWWA (American Water Works Association)

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

ANSI/AWWA C907-2023, Injection-Molded Polyvinyl Chloride (PVC) Pressure Fittings, 4 In. Through 12 In. (100 mm Through 300 mm) (revision of ANSI/AWWA C907-2017) Final Action Date: 5/19/2023 | *Revision*

BHMA (Builders Hardware Manufacturers Association)

17 Faulkner Drive, Niantic, CT 06357 | mtierney@kellencompany.com, www.buildershardware.com

ANSI/BHMA A156.43-2023, Standard for Integrated Sliding Door Opening Assemblies (new standard) Final Action Date: 5/19/2023 | *New Standard*

ANSI/BHMA A156.28-2023, Recommended Practices for Mechanical Keying Systems (revision of ANSI/BHMA A156.28-2013 (R2018)) Final Action Date: 5/16/2023 | *Revision*

ANSI/BHMA A156.32-2023, Standard for Integrated Swinging Door Opening Assemblies (revision of ANSI/BHMA A156.32-2014) Final Action Date: 5/19/2023 | *Revision*

CSA (CSA America Standards Inc.)

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

ANSI/CSA Z741-2012 (R2018), Geological Storage of Carbon Dioxide (withdrawal of ANSI/CSA Z741-2012 (R2018)) Final Action Date: 5/16/2023 | *Withdrawal*

CTA (Consumer Technology Association)

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

ANSI/CTA 2065.1-2023, Physical Activity Monitoring for Heart Rate - Real World Analysis (new standard) Final Action Date: 5/15/2023 | *New Standard*

ANSI/CTA 814-C/J-STD-42-C-2018 (R2023), Emergency Alert Messaging for Cable (reaffirmation of ANSI/CTA 814-C/J-STD-42-C-2018) Final Action Date: 5/19/2023 | *Reaffirmation*

ANSI/CTA 2065-A-2023, Physical Activity Monitoring for Heart Rate (revision and redesignation of ANSI/CTA 2065-2018) Final Action Date: 5/15/2023 | *Revision*

ANSI/CTA 708-E-2013 (S2023), Digital Television (DTV) Closed Captioning (stabilized maintenance of ANSI/CTA 708-E-2013 (R2018)) Final Action Date: 5/19/2023 | *Stabilized Maintenance*

EOS/ESD (ESD Association, Inc.)

218 W. Court Street, Rome, NY 13440 | jkirk@esda.org, <https://www.esda.org>

ANSI/EOS ESDA/JEDEC JS-001-2023, ESDA/JEDEC Joint Standard for Electrostatic Discharge Sensitivity Testing - Human Body Model (HBM) - Component Level (revision of ANSI/ESDA/JEDEC JS-001-2017) Final Action Date: 5/16/2023 | *Revision*

ESTA (Entertainment Services and Technology Association)

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

ANSI E1.14-2018 (R2023), Entertainment Technology - Recommendations for Inclusions in Fog Equipment Manuals (reaffirmation of ANSI E1.14-2018) Final Action Date: 5/16/2023 | *Reaffirmation*

IAPMO (Z) (International Association of Plumbing & Mechanical Officials)

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

ANSI/CSA B45.12/IAPMO Z402-2023, Aluminum and copper plumbing fixtures (revision of ANSI/CSA B45.12/IAPMO Z402-2013 (R2018)) Final Action Date: 5/16/2023 | *Revision*

IES (Illuminating Engineering Society)

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

ANSI/IES TM-33-2023, Technical Memorandum: Standard Format for the Electronic Transfer of Luminaire Optical Data (revision of ANSI/IES TM-33-2018) Final Action Date: 5/18/2023 | *Revision*

INMM (ASC N14) (Institute of Nuclear Materials Management)

1435 Ridgeview Road, Columbus, OH 43221 | N14secretary@gmail.com, www.inmm.org

ANSI N14.1-2023, Nuclear Materials - Uranium Hexafluoride - Packagings for Transport (revision of ANSI N14.1-2019) Final Action Date: 5/18/2023 | *Revision*

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 [2023], 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]) Final Action Date: 5/19/2023 | *National Adoption*

INCITS/ISO 19107:2019 [2023], Geographic information - Spatial schema (identical national adoption of ISO 19107:2019 and revision of INCITS/ISO 19107:2003 [R2018]) Final Action Date: 5/19/2023 | *National Adoption*

INCITS/ISO/IEC 7812-2:2017 [2023], 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])

Final Action Date: 5/19/2023 | *National Adoption*

INCITS/ISO/IEC 11770-3:2021 [2023], 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]) Final Action Date: 5/19/2023 | *National Adoption*

INCITS/ISO/IEC 14888-3:2018 [2023], 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]) Final Action Date: 5/19/2023 | *National Adoption*

INCITS/ISO/IEC 15408-2:2022 [2023], 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]) Final Action Date: 5/19/2023 | *National Adoption*

INCITS/ISO/IEC 15408-3:2022 [2023], 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]) Final Action Date: 5/19/2023 | *National Adoption*

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 [2023], 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]) Final Action Date: 5/19/2023 | *National Adoption*

INCITS/ISO/IEC 19794-14:2022 [2023], 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]) Final Action Date: 5/19/2023 | *National Adoption*

INCITS/ISO/IEC 20000-2:2019 [2023], 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]) Final Action Date: 5/19/2023 | *National Adoption*

INCITS/ISO/IEC 20000-3:2019 [2023], 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]) Final Action Date: 5/19/2023 | *National Adoption*

INCITS/ISO/IEC 30105-4:2022 [2023], 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]) Final Action Date: 5/19/2023 | *National Adoption*

INCITS/ISO/IEC 10646:2020 [2023], Information technology - Universal coded character set (UCS) (identical national adoption of ISO/IEC 10646:2020 and revision of INCITS/ISO/IEC 10646:2017 [2018]) Final Action Date: 5/19/2023 | *National Adoption*

INCITS/ISO/IEC 17826:2022 [2023], 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]) Final Action Date: 5/19/2023 | *National Adoption*

INCITS/ISO/IEC 18045:2022 [2023], 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]) Final Action Date: 5/19/2023 | *National Adoption*

INCITS/ISO/IEC 21118:2020 [2023], 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]) Final Action Date: 5/19/2023 | *National Adoption*

INCITS/ISO/IEC 23270:2018 [2023], Information technology - Programming languages - C (identical national adoption of ISO/IEC 23270:2018 and revision of INCITS/ISO/IEC 23270:2006 [R2018]) Final Action Date: 5/19/2023 | *National Adoption*

INCITS/ISO/IEC 24707:2018 [2023], 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]) Final Action Date: 5/19/2023 | *National Adoption*

INCITS/ISO/IEC 1073-1:1976 [S2013], Alphanumeric character sets for optical recognition - Part 1: Character set OCR-A - Shapes and dimensions of the printed image (withdrawal of INCITS/ISO/IEC 1073-1:1976 [S2013]) Final Action Date: 5/19/2023 | *Withdrawal*

INCITS/ISO/IEC 1073-2:1976 [S2013], Alphanumeric character sets for optical recognition - Part 2: Character set OCR-B - Shapes and dimensions of the printed image (withdrawal of INCITS/ISO/IEC 1073-2:1976 [S2013]) Final Action Date: 5/19/2023 | *Withdrawal*

INCITS/ISO/IEC 1831:1980 [S2013], Printing specifications for optical character recognition (withdrawal of INCITS/ISO/IEC 1831:1980 [S2013]) Final Action Date: 5/19/2023 | *Withdrawal*

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 12246:1993 [S2013], Information technology - 8 mm wide magnetic tape cartridge dual azimuth format for information interchange - Helical scan recording (withdrawal of INCITS/ISO/IEC 12246:1993 [S2013]) Final Action Date: 5/19/2023 | *Withdrawal*

INCITS/ISO/IEC 12248:1993 [S2013], Information technology - 3,81 mm wide magnetic tape cartridge for information interchange - Helical scan recording - DATA/DAT-DC format using 60 m and 90 m length tapes (withdrawal of INCITS/ISO/IEC 12248:1993 [S2013]) Final Action Date: 5/19/2023 | *Withdrawal*

INCITS/ISO/IEC 22050:2002 [S2013], Information technology - Data interchange on 12,7 mm, 384-track magnetic tape cartridges - Ultrium-1 format (withdrawal of INCITS/ISO/IEC 22050:2002 [S2013]) Final Action Date: 5/19/2023 | *Withdrawal*

INCITS/ISO/IEC 22091:2002 [S2013], Information technology - Streaming Lossless Data Compression algorithm (SLDC) (withdrawal of INCITS/ISO/IEC 22091:2002 [S2013]) Final Action Date: 5/19/2023 | *Withdrawal*

MHI (Material Handling Industry)

8720 Red Oak Boulevard, Suite 201, Charlotte, NC 28217 | pdavison@mhi.org, www.mhi.org

ANSI MH24.2-2023, Power-operated vertical carousels and vertical lift modules (revision of ANSI MH24.2-2019) Final Action Date: 5/16/2023 | *Revision*

NEMA (ASC C119) (National Electrical Manufacturers Association)

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

ANSI C119.1-2023, Electric Connectors - Sealed Insulated Underground Connector Systems Rated 600 Volts (revision of ANSI C119.1-2016) Final Action Date: 5/16/2023 | *Revision*

NEMA (ASC C136) (National Electrical Manufacturers Association)

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

ANSI C136.18-2023, Roadway and Area Lighting Equipment - High-Mast Side-Mounted Luminaires (revision of ANSI C136.18-2018) Final Action Date: 5/19/2023 | *Revision*

NEMA (ASC C18) (National Electrical Manufacturers Association)

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

ANSI C18.4M-2023, Standard for Portable Cells and Batteries - Environmental (revision of ANSI C18.4M-2017) Final Action Date: 5/18/2023 | *Revision*

NEMA (ASC C29) (National Electrical Manufacturers Association)

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

ANSI C29.2B-2013 (R2023), Wet Process Porcelain and Toughened Glass Transmission Suspension Type (reaffirmation of ANSI C29.2B-2013) Final Action Date: 5/16/2023 | *Reaffirmation*

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

ANSI/NFPA 915-2024, Standard for Remote Inspections (new standard) Final Action Date: 5/13/2023 | *New Standard*

ANSI/NFPA 3-2024, Standard for Commissioning of Fire Protection and Life Safety Systems (revision of ANSI/NFPA 3-2021) Final Action Date: 5/13/2023 | *Revision*

ANSI/NFPA 17-2024, Standard for Dry Chemical Extinguishing Systems (revision of ANSI/NFPA 17-2021) Final Action Date: 5/13/2023 | *Revision*

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

ANSI/NFPA 17A-2024, Standard for Wet Chemical Extinguishing Systems (revision of ANSI/NFPA 17A-2021) Final Action Date: 5/13/2023 | *Revision*

ANSI/NFPA 30-2024, Flammable and Combustible Liquids Code (revision of ANSI/NFPA 30-2021) Final Action Date: 5/13/2023 | *Revision*

ANSI/NFPA 51B-2024, Standard for Fire Prevention During Welding, Cutting, and Other Hot Work (revision of ANSI/NFPA 51B-2019) Final Action Date: 5/13/2023 | *Revision*

ANSI/NFPA 70E®-2024, Standard for Electrical Safety in the Workplace® (revision of ANSI/NFPA 70E-2021) Final Action Date: 5/13/2023 | *Revision*

ANSI/NFPA 77-2024, Recommended Practice on Static Electricity (revision of ANSI/NFPA 77-2019) Final Action Date: 5/13/2023 | *Revision*

ANSI/NFPA 78-2024, Guide on Electrical Inspections (revision of ANSI/NFPA 78-2019) Final Action Date: 5/13/2023 | *Revision*

ANSI/NFPA 90A-2024, Standard for the Installation of Air-Conditioning and Ventilating Systems (revision of ANSI/NFPA 90A-2021) Final Action Date: 5/13/2023 | *Revision*

ANSI/NFPA 90B-2024, Standard for the Installation of Warm Air Heating and Air-Conditioning Systems (revision of ANSI/NFPA 90B-2021) Final Action Date: 5/13/2023 | *Revision*

ANSI/NFPA 96-2024, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations (revision of ANSI/NFPA 96-2021) Final Action Date: 5/13/2023 | *Revision*

ANSI/NFPA 99B-2024, Standard for Hypobaric Facilities (revision of ANSI/NFPA 99B-2021) Final Action Date: 5/13/2023 | *Revision*

ANSI/NFPA 220-2024, Standard on Types of Building Construction (revision of ANSI/NFPA 220-2021) Final Action Date: 5/13/2023 | *Revision*

ANSI/NFPA 221-2024, Standard for High Challenge Fire Walls, Fire Walls, and Fire Barrier Walls (revision of ANSI/NFPA 221-2021) Final Action Date: 5/13/2023 | *Revision*

ANSI/NFPA 306-2024, Standard for the Control of Gas Hazards on Vessels (revision of ANSI/NFPA 306-2019) Final Action Date: 5/13/2023 | *Revision*

ANSI/NFPA 496-2024, Standard for Purged and Pressurized Enclosures for Electrical Equipment (revision of ANSI/NFPA 496-2021) Final Action Date: 5/13/2023 | *Revision*

ANSI/NFPA 497-2024, Recommended Practice for the Classification of Flammable Liquids, Gases, or Vapors and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas (revision of ANSI/NFPA 497-2021) Final Action Date: 5/13/2023 | *Revision*

ANSI/NFPA 499-2024, Recommended Practice for the Classification of Combustible Dusts and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas (revision of ANSI/NFPA 499-2021) Final Action Date: 5/13/2023 | *Revision*

ANSI/NFPA 556-2024, Guide on Methods for Evaluating Fire Hazard to Occupants of Passenger Road Vehicles (revision of ANSI/NFPA 556-2020) Final Action Date: 5/13/2023 | *Revision*

ANSI/NFPA 703-2024, Standard for Fire-Retardant-Treated Wood and Fire-Retardant Coatings for Building Materials (revision of ANSI/NFPA 703-2021) Final Action Date: 5/13/2023 | *Revision*

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

ANSI/NFPA 820-2024, Standard for Fire Protection in Wastewater Treatment and Collection Facilities (revision of ANSI/NFPA 820-2020) Final Action Date: 5/13/2023 | *Revision*

ANSI/NFPA 1078-2024, Standard for Electrical Inspector Professional Qualifications (revision of ANSI/NFPA 1078-2019) Final Action Date: 5/13/2023 | *Revision*

SDI (Steel Deck Institute)

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

ANSI/SDI COSP-2023, Code of Standard Practice for Steel Deck (new standard) Final Action Date: 5/18/2023 | *New Standard*

ULSE (UL Standards & Engagement)

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

ANSI/UL 51-2023, Standard for Safety for Power-Operated Pumps and Bypass Valves for Anhydrous Ammonia, LP-Gas, and Propylene (new standard) Final Action Date: 5/15/2023 | *New Standard*

ANSI/UL 140-2008 (R2023), Standard for Relocking Devices for Safes and Vaults (reaffirmation of ANSI/UL 140-2008 (R2018)) Final Action Date: 5/17/2023 | *Reaffirmation*

ANSI/UL 1453-2018 (R2023), Standard for Safety for Electric Booster and Commercial Storage Tank Water Heaters (reaffirmation of ANSI/UL 1453-2018) Final Action Date: 5/15/2023 | *Reaffirmation*

ANSI/UL 67-2023, Standard for Panelboards (revision of ANSI/UL 67-2020) Final Action Date: 5/16/2023 | *Revision*

ANSI/UL 514D-2023, Standard for Safety for Cover Plates for Flush-Mounted Wiring Devices (revision of ANSI/UL 514D-2016) Final Action Date: 5/18/2023 | *Revision*

ANSI/UL 817-2023, Standard for Cord Sets and Power Supply Cords (revision of ANSI/UL 817-2021) Final Action Date: 5/16/2023 | *Revision*

ANSI/UL 1574-2023, Standard for Safety for Track Lighting Systems (revision of ANSI/UL 1574-2021) Final Action Date: 5/19/2023 | *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.

ANSI Accredited Standards Developer

CTA - Consumer Technology Association

CTA-2102.1 Performance Criteria and Testing Protocols for Breathing Rate - Real-World Analysis

CTA is seeking new members to join the consensus body. 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").

For inquiries please contact: Kerri Haresign, Consumer Technology Association (CTA) | 1919 South Eads Street, Arlington, VA 22202 | (703) 907-5267, KHaresign@cta.tech

ANSI Accredited Standards Developer

CTA - Consumer Technology Association

CTA 2124 Characteristics and Requirements for Consumer Continuous Glucose Monitoring Solutions

CTA is seeking new members to join the consensus body. 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").

For inquiries please contact: Kerri Haresign, Consumer Technology Association (CTA) | 1919 South Eads Street, Arlington, VA 22202 | (703) 907-5267, KHaresign@cta.tech

ANSI Accredited Standards Developer

CTA - Consumer Technology Association

CTA 2123 Characteristics and Requirements for Anxiety Detection and Monitoring Solutions

CTA is seeking new members to join the consensus body. 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").

For inquiries please contact: Kerri Haresign, Consumer Technology Association (CTA) | 1919 South Eads Street, Arlington, VA 22202 | (703) 907-5267, KHaresign@cta.tech

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

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

BSR/AHRI Standard 1330 (SI)-202x, Performance Rating for Radiant Output of Gas Fired Infrared Heaters (revision of ANSI/AHRI Standard 1330-2015)

API (American Petroleum Institute)

200 Massachusetts Avenue NW, Suite 1100, Washington, DC 20001-5571 | pintoi@api.org, www.api.org

BSR/API 13M/ISO 13503-1-2004 (R202x), Recommended Practice for the Measurement of Viscous Properties of Completion Fluids (reaffirm a national adoption ANSI/API 13M/ISO 13503-1-2004 (R2018))

ASA (ASC S12) (Acoustical Society of America)

1305 Walt Whitman Road, Suite 110, Melville, NY 11747 | standards@acousticalsociety.org, www.acousticalsociety.org

BSR/ASA S12.2-2019 (R202x), Criteria for Evaluating Room Noise (reaffirmation of ANSI/ASA S12.2-2019)

AWS (American Welding Society)

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

BSR/AWS B5.16-202x, Specification for the Qualification of Welding Engineering Personnel (new standard)

AWS (American Welding Society)

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

BSR/AWS C3.11M/C3.11-202x, Specification for Torch Soldering (new standard)

AWS (American Welding Society)

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

BSR/AWS C3.12M/C3.12-202x, Specification for Furnace Soldering (revision of ANSI/AWS C3.12M/C3.12-2017)

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 AWS D14.1/D14.1M-2005; AWS D14.3/D14.3M-2019; AWS D14.4/D14.4M-2019; AWS D14.5/D14.5M-2009)

CTA (Consumer Technology Association)

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

BSR/CTA 2102.1-202x, Performance Criteria and Testing Protocols for Breathing Rate - Real-World Analysis (new standard)

CTA (Consumer Technology Association)

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

BSR/CTA 2123-202x, Characteristics and Requirements for Anxiety Detection and Monitoring Solutions (new standard)

CTA (Consumer Technology Association)

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

BSR/CTA 2124-202x, Characteristics and Requirements for Consumer Continuous Glucose Monitoring Solutions (new standard)

ECIA (Electronic Components Industry Association)

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

BSR/EIA 364-06C-202x, Contact Resistance Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364-06C-2006 (R2017))

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 27009:2016 [2019], Information technology – Security techniques – Sector-specific application of ISO/IEC 27001 – Requirements (withdrawal of INCITS/ISO/IEC 27009:2016 [2019])

NSF (NSF International)

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

BSR/NSF 350-202x (i63r6), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2022)

NSF (NSF International)

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

BSR/NSF 391.5-202x, Sustainability Aspects (Industry Agnostic) (new standard)

NSF (NSF International)

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

BSR/NSF 437-202x (i3r6), Glossary of Wastewater Technology Terminology (revision of ANSI/NSF 437-2021)

PEARL (Professional Electrical Apparatus Recyclers League)

17 Faulkner Drive, Niantic, CT 06357 | mtierney@kellencompany.com, www.pearl1.org

BSR/PEARL EERS-202X, Professional Electrical Apparatus Reconditioning League - Electrical Equipment Reconditioning Standard for Electrical Apparatus and Equipment Used in Commercial and Industrial Applications (revision of ANSI/PEARL EERS-2018)

TIA (Telecommunications Industry Association)

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

BSR/TIA 322-A-202x, Loading, Analysis, and Design Criteria Related to the Installation, Alteration and Maintenance of Communication Structures (revision and redesignation of ANSI/TIA 322-2016)

American National Standards (ANS) Process

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

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

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

- ANSI Essential Requirements: Due process requirements for American National Standards (always current edition):
www.ansi.org/essentialrequirements
- ANSI Standards Action (weekly public review announcements of proposed ANS and standards developer accreditation applications, listing of recently approved ANS, and proposed revisions to ANS-related procedures):
www.ansi.org/standardsaction
- Accreditation information – for potential developers of American National Standards (ANS):
www.ansi.org/sdoaccreditation
- ANS Procedures, ExSC Interpretations and Guidance (including a slide deck on how to participate in the ANS process and the BSR-9 form):
www.ansi.org/asd
- Lists of ANSI-Accredited Standards Developers (ASDs), Proposed ANS and Approved ANS:
www.ansi.org/asd
- American National Standards Key Steps:
www.ansi.org/anskeysteps
- American National Standards Value:
www.ansi.org/ansvalue
- ANS Web Forms for ANSI-Accredited Standards Developers:
<https://www.ansi.org/portal/psawebforms/>
- Information about standards Incorporated by Reference (IBR):
<https://ibr.ansi.org/>
- ANSI - Education and Training:
www.standardstolearn.org

Accreditation Announcements (Standards Developers)

Approval of Reaccreditation – ASD

BIFMA - Business and Institutional Furniture Manufacturers Association

Effective May 19, 2023

The reaccreditation of **BIFMA - Business and Institutional Furniture Manufacturers Association** has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on BIFMA-sponsored American National Standards, effective **May 19, 2023**. For additional information, please contact: Anthony Serge, Business and Institutional Furniture Manufacturers Association (BIFMA) | 678 Front Avenue NW, Suite 150, Grand Rapids, MI 49504-5368 | (616) 591-9798, aserge@bifma.org

Meeting Notices (Standards Developers)

ANSI Accredited Standards Developer

CSA - CSA America Standards Inc.

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

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

American National Standards Under Continuous Maintenance

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

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

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

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

ANSI-Accredited Standards Developers (ASD) Contacts

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

AAFS

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

Teresa Ambrosius
tambrosius@aafs.org

AHRI

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

Karl Best
kbest@ahrinet.org

API

American Petroleum Institute
200 Massachusetts Avenue NW, Suite
1100
Washington, DC 20001
www.api.org

Ivan Pinto
pintoi@api.org

ASA (ASC S12)

Acoustical Society of America
1305 Walt Whitman Road, Suite 110
Melville, NY 11747
www.acousticalsociety.org

Nancy Blair-DeLeon
standards@acousticalsociety.org

ASC X9

Accredited Standards Committee X9,
Incorporated
275 West Street, Suite 107
Annapolis, MD 21401
www.x9.org

Ambria Calloway
Ambria.Calloway@X9.org

ASHRAE

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

Emily Toto
etoto@ashrae.org

ASME

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

Terrell Henry
ansibox@asme.org

AWS

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

Brenda Boddiger
bboddiger@aws.org

Jennifer Rosario
jrosario@aws.org

Kevin Bulger
kbulger@aws.org

AWWA

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

Paul Olson
polson@awwa.org

BHMA

Builders Hardware Manufacturers
Association
17 Faulkner Drive
Niantic, CT 06357
www.buildershardware.com

Michael Tierney
mtierney@kellencompany.com

BIFMA

Business and Institutional Furniture
Manufacturers Association
678 Front Avenue NW, Suite 150
Grand Rapids, MI 49504
www.bifma.org

Steven Kooy
skooy@bifma.org

CSA

CSA America Standards Inc.
8501 East Pleasant Valley Road
Cleveland, OH 44131
www.csagroup.org

Debbie Chesnik
ansi.contact@csagroup.org

CTA

Consumer Technology Association
1919 South Eads Street
Arlington, VA 22202
www.cta.tech

Catrina Akers
cakers@cta.tech

ECIA

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

Laura Donohoe
ldonohoe@ecianow.org

EOS/ESD

ESD Association, Inc.
218 W. Court Street
Rome, NY 13440
<https://www.esda.org>

Jennifer Kirk
jkirk@esda.org

ESTA

Entertainment Services and Technology
Association
271 Cadman Plaza, P.O. Box 23200
Brooklyn, NY 11202
www.esta.org

Karl Ruling
standards@esta.org

IAPMO (Z)

International Association of Plumbing &
Mechanical Officials
18927 Hickory Creek Drive, Suite 220
Mokena, IL 60448
<https://www.iapmostandards.org>

Terry Burger
terry.burger@asse-plumbing.org

IEEE

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

Karen Evangelista
k.evangelista@ieee.org

IES

Illuminating Engineering Society
120 Wall Street, Floor 17
New York, NY 10005
www.ies.org

Patricia McGillicuddy
pmcgillicuddy@ies.org

INMM (ASC N14)

Institute of Nuclear Materials Management
1435 Ridgeview Road
Columbus, OH 43221
www.inmm.org

Steven Maheras
N14secretary@gmail.com

ITI (INCITS)

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

Deborah Spittle
comments@standards.incits.org

Lynn Barra
comments@standards.incits.org

MHI

Material Handling Industry
8720 Red Oak Boulevard, Suite 201
Charlotte, NC 28217
www.mhi.org

Patrick Davison
pdavison@mhi.org

NEMA (ASC C12)

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

Paul Orr
Pau_orr@nema.org

NEMA (ASC C136)

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

David Richmond
David.Richmond@nema.org

NEMA (ASC C137)

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

Michael Erbesfeld
Michael.Erbesfeld@nema.org

NEMA (ASC C29)

National Electrical Manufacturers
Association
1300 17th St N #900,
Arlington, VA 22209
www.nema.org

Paul Crampton
Paul.Crampton@nema.org

NEMA (ASC C8)

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

Khaled Masri
Khaled.Masri@nema.org

NFPA

National Fire Protection Association
One Batterymarch Park
Quincy, MA 02169
www.nfpa.org

Dawn Michele Bellis
dbellis@nfpa.org

NSF

NSF International
789 N. Dixboro Road
Ann Arbor, MI 48105
www.nsf.org

Andrea Burr
aburr@nsf.org

Jason Snider
jsnider@nsf.org

PEARL

Professional Electrical Apparatus Recyclers
League
17 Faulkner Drive
Niantic, CT 06357
www.pearl1.org

Michael Tierney
mtierney@kellencompany.com

SDI (Canvass)

Steel Deck Institute
1731 NW 6th Street, Suite D
Gainesville, FL 32609
www.sdi.org

Thomas Sputo
tsputo50@gmail.com

SPRI

Single Ply Roofing Industry
465 Waverley Oaks Road, Suite 421
Waltham, MA 02452
www.spri.org

Linda King
info@spri.org

TIA

Telecommunications Industry Association
1320 North Courthouse Road, Suite 200
Arlington, VA 22201
www.tiaonline.org

Teesha Jenkins
standards-process@tiaonline.org

ULSE

UL Standards & Engagement
12 Laboratory Drive
Research Triangle Park, NC 27709
https://ulse.org/

Anne Marie Jacobs
annemarie.jacobs@ul.org

Caroline Treuthardt
caroline.treuthardt@ul.org

Doreen Stocker
Doreen.Stocker@ul.org

Grayson Flake
Grayson.Flake@ul.org

Jonette Herman
Jonette.A.Herman@ul.org

Marina Currie
marina.currie@ul.org

ULSE

UL Standards & Engagement
333 Pflingsten Road
Northbrook, IL 60062
https://ulse.org/

Alan McGrath
alan.t.mcgrath@ul.org

Jeff Prusko
jeffrey.prusko@ul.org

Raji Ghandour
raji.ghandour@ul.org

Susan Malohn
Susan.P.Malohn@ul.org

ULSE

UL Standards & Engagement
47173 Benicia Street
Fremont, CA 94538
<https://ulse.org/>

Derrick Martin
Derrick.L.Martin@ul.org

Linda Phinney
Linda.L.Phinney@ul.org

Marcia Kawate
Marcia.M.Kawate@ul.org

ULSE

UL Standards & Engagement
9 Burlington Crescent
Ottawa, ON K1T3L
<https://ulse.org/>

Celine Eid
celine.eid@ul.org



ISO & IEC Draft International Standards

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

COMMENTS

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

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

ORDERING INSTRUCTIONS

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

ISO Standards

Acoustics (TC 43)

ISO/DIS 16254, Acoustics - Measurement of sound emitted by road vehicles of category M and N at standstill and low speed operation - Engineering method - 8/4/2023, \$125.00

Ergonomics (TC 159)

ISO/DIS 17097, 3-D human body scan data - Part 1: Terminologies and methodologies for processing of human scan data - 8/3/2023, \$71.00

Floor coverings (TC 219)

ISO/DIS 2424, Textile floor coverings - Vocabulary - 8/3/2023, \$107.00

Geosynthetics (TC 221)

ISO/DIS 13428, Geosynthetics - Determination of the protection efficiency of a geosynthetic against impact damage - 8/7/2023, \$53.00

Industrial automation systems and integration (TC 184)

ISO/DIS 20140-5, Automation systems and integration - Evaluating energy efficiency and other factors of manufacturing systems that influence the environment - Part 5: Environmental performance evaluation data - 8/6/2023, \$155.00

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

ISO/DIS 6398-1, Petroleum and natural gas industries - Submersible linear motor systems for artificial lift - Part 1: Submersible linear motors - 8/7/2023, \$107.00

Personal safety - Protective clothing and equipment (TC 94)

ISO 20344:2021/DAmD 1, - Amendment 1: Personal protective equipment - Test methods for footwear - Amendment 1 - 8/6/2023, \$46.00

Rubber and rubber products (TC 45)

ISO/DIS 37, Rubber, vulcanized or thermoplastic - Determination of tensile stress-strain properties - 8/5/2023, \$102.00

ISO/DIS 2475, Chloroprene rubber (CR) - General-purpose types - Evaluation procedure - 8/7/2023, \$58.00

ISO/DIS 5600, Rubber - Determination of adhesion to rigid materials using conical shaped parts - 8/5/2023, \$46.00

ISO/DIS 5603, Rubber, vulcanized - Determination of adhesion to wire cord - 8/5/2023, \$71.00

Security (TC 292)

ISO/DIS 22340, Security and resilience - Protective security - Guidelines for an enterprise protective security architecture and framework - 8/3/2023, \$93.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 14496-15:2022/DAmD 2, - Amendment 2: Information technology - Coding of audio-visual objects - Part 15: Carriage of network abstraction layer (NAL) unit structured video in the ISO base media file format - Amendment 2: Picture-in-picture support and other extensions - 8/5/2023, \$46.00

ISO/IEC 23001-11:2023/DAmD 1, - Amendment 1: Information technology - MPEG systems technologies - Part 11: Energy-efficient media consumption (green metadata) - Amendment 1: Energy-efficient media consumption (green metadata) for EVC - 8/5/2023, \$40.00

ISO/IEC DIS 4932, Information technology - Learning, education and training - Access For All Metadata: Accessibility Core Terms (AfA-core-terms) - 7/31/2023, \$112.00

ISO/IEC DIS 14882, Programming languages - C++ - 8/5/2023, FREE

ISO/IEC DIS 27561, Information security, cybersecurity and privacy protection - Privacy operationalisation model and method for engineering (POMME) - 8/10/2023, \$98.00

ISO/IEC DIS 18477-1, Information technology - Scalable compression and coding of continuous-tone still images - Part 1: Core coding system specification - 8/5/2023, \$71.00

IEC Standards

All-or-nothing electrical relays (TC 94)

94/885/CD, IEC 61810-7-10 ED1: Electrical relays - Tests and Measurements - Part 7-10: Heating, 07/14/2023

Dependability (TC 56)

56/1992/CDV, IEC 60300-3-14 ED2: Dependability management - Part 3-14: Application guide - Supportability and support, 08/11/2023

Electrical apparatus for explosive atmospheres (TC 31)

31J/344/CD, IEC 60079-19 ED5: Explosive atmospheres - Part 19: Equipment repair, overhaul and reclamation, 08/11/2023

Electrical Energy Storage (EES) Systems (TC 120)

120/316/CDV, IEC 62933-4-2 ED1: Electric Energy Storage Systems - Part 4-2: Assessment of the environmental impact of battery failure in an electrochemical based storage system, 08/11/2023

Electrical equipment in medical practice (TC 62)

62/458/CD, IEC 60050-880 ED1: International Electrotechnical Vocabulary (IEV) - Part 880: Electrical equipment, electrical systems and software used in healthcare, 08/11/2023

Electrical installations of buildings (TC 64)

64/2617(F)/FDIS, IEC 60364-7-716 ED1: Low-voltage electrical installations - Part 7-716: Requirements for special installations or locations - ELV DC power distribution over information and communications technology (ICT) cable infrastructure, 06/09/2023

Electromagnetic compatibility (TC 77)

77C/327/CD, IEC 61000-2-9 ED2: Electromagnetic compatibility (EMC) - Part 2-9: Environment - Description of HEMP environment - Radiated disturbance, Basic EMC publication, 08/11/2023

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

104/991(F)/FDIS, IEC 60068-2-14 ED7: Environmental testing - Part 2-14: Tests - Test N: Change of temperature, 06/23/2023

104/999/CD, IEC 60068-3-11 ED2: Environmental testing - Part 3-11: Supporting documentation and guidance - Calculation of uncertainty of conditions in climatic test chambers, 08/11/2023

104/998/CD, IEC 60721-3-6 ED2: Classification of environmental conditions. Part 3: Classification of groups of environmental parameters and their severities. Ship environment, 08/11/2023

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

111/705/FDIS, IEC 63333 ED1: General method for assessing the proportion of reused components in products, 06/30/2023

Evaluation and Qualification of Electrical Insulating Materials and Systems (TC 112)

112/608/CDV, IEC 62631-3-12 ED1: Dielectric and resistive properties of solid insulating materials - Part 3-12: Determination of resistive properties (DC Methods) - Volume resistance and volume resistivity, method for casting resins, 08/11/2023

112/606A/CDV, IEC 62836 ED1: Measurement of internal electric field in insulating materials - Pressure wave propagation method, 08/04/2023

Fibre optics (TC 86)

86B/4764/FDIS, IEC 61300-2-26 ED3: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-26: Tests - Salt mist, 06/30/2023

86B/4757(F)/FDIS, IEC 61300-3-45 ED2: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-45: Examinations and measurements - Attenuation of random mated multi-fibre connectors, 06/09/2023

86B/4767/CD, IEC 62074-1 ED3: Fibre optic interconnecting devices and passive components - Fibre optic WDM devices - Part 1: Generic specification, 07/14/2023

86B/4765/CD, IEC 63267-3-61 ED1: Fibre optic interconnecting devices and passive components - Fibre optic connector optical interfaces for enhanced macrobend multimode fibres - Part 3-61: Connector parameters of physically contacting 50µm core diameter fibres - Non-angled 2,5 mm and 1,25 mm diameter cylindrical full zirconia ferrules for reference connection applications, 08/11/2023

86B/4766/CD, IEC 63267-3-81 ED1: Fibre optic interconnecting devices and passive components - Connector optical interfaces for enhanced Macro bend multimode fibre - Part 3-81: Connector parameters of physically contacting 50m core diameter fibres - Non-angled polyphenylene sulphide rectangular ferrules with a single row of 12, 8, 4, or 2 fibres for reference connector applications, 08/11/2023

86A/2332/DTR, IEC TR 63309 ED1: Active fibres - Characteristics and Measurement Methods - Guidance, 07/14/2023

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

115/335/CD, IEC TR 63127/AMD1 ED1: Amendment 1 - Guideline for the system design of HVDC converter stations with line-commutated converters, 08/11/2023

Insulating materials (TC 15)

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

Insulators (TC 36)

36/567/FDIS, IEC 61462 ED2: Composite hollow insulators - Pressurized and unpressurized insulators for use in electrical equipment with AC rated voltage greater than 1 000 V AC and D.C. voltage greater than 1500V - Definitions, test methods, acceptance criteria and design recommendations, 06/30/2023

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

Lamps and related equipment (TC 34)

34C/1578/CDV, IEC 61347-2-11 ED2: Controlgear for electric light sources - Safety - Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires, 08/11/2023

Laser equipment (TC 76)

76/734/FDIS, IEC 60601-2-57 ED2: Medical electrical equipment - Part 2-57: Particular requirements for the basic safety and essential performance of non-laser light source equipment intended for therapeutic, diagnostic, monitoring, cosmetic and aesthetic use, 06/30/2023

Maritime navigation and radiocommunication equipment and systems (TC 80)

80/1075/NP, PNW 80-1075 ED1: Maritime navigation and radiocommunication equipment and systems - VHF Data Exchange System (VDES) - Shipborne mobile station - Operational and performance requirements, methods of test and required test results, 08/11/2023

Measuring equipment for electromagnetic quantities (TC 85)

85/877/FDIS, IEC 61557-13 ED2: Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC - Equipment for testing, measuring or monitoring of protective measures - Part 13: Hand-held and hand-manipulated current clamps and sensors for measurement of leakage currents in electrical distribution systems, 06/30/2023

85/875/FDIS, IEC 61557-14 ED2: Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC - Equipment for testing, measuring or monitoring of protective measures - Part 14: Equipment for testing the safety of electrical equipment of machinery, 06/30/2023

85/876/FDIS, IEC 61557-16 ED2: Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC - Equipment for testing, measuring or monitoring of protective measures - Part 16: Equipment for testing the effectiveness of the protective measures of electrical equipment and/or medical electrical equipment, 06/30/2023

Printed Electronics (TC 119)

119/436/FDIS, IEC 62899-202-10 ED1: Printed electronics - Part 202-10: Materials - Resistance measurement method for thermoformable conducting layer, 06/30/2023

119/435/FDIS, IEC 62899-202-9 ED1: Printed electronics - Part 202-9: Materials - Conductive ink - Printed patterns for mechanical test, 06/30/2023

Switchgear and controlgear (TC 17)

17A/1384/DTS, IEC TS 62271-313 ED1: High-voltage switchgear and controlgear - Part 313: Direct current circuit-breakers, 08/11/2023

17A/1383/DTS, IEC TS 62271-315 ED1: High-voltage switchgear and controlgear - Part 315: Direct current (DC) transfer switches, 08/11/2023

SyCSmartCities

SyCSmartCities/294/CD, IEC SRD 63302-1 ED1: Systems Reference Deliverable (SRD) - Use cases collection and Analysis: Intelligent operations center for Smart Cities - Part 1: High Level Analysis, 08/11/2023

(TC 125)

125/81/FDIS, IEC 63281-1 ED1: E-Transporters - Part 1: Terminology and classification, 06/30/2023



Newly Published ISO & IEC Standards

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

ISO Standards

Agricultural food products (TC 34)

[ISO 5671:2023](#), Spices and condiments - Dried chive (*Allium schoenoprasum* L.), cut and ground - Specification, \$51.00

Air quality (TC 146)

[ISO 15259:2023](#), Air quality - Measurement of stationary source emissions - Requirements for measurement sections and sites and for the measurement objective, plan and report, \$237.00

Aircraft and space vehicles (TC 20)

[ISO 3323:2023](#), Aircraft - Hydraulic components - Marking to indicate the fluid for which a component is approved, \$51.00

Cinematography (TC 36)

[ISO 5926:2023](#), Technical requirements and test methods for digital cinema stereoscopic projection, \$51.00

Clinical laboratory testing and in vitro diagnostic test systems (TC 212)

[ISO 20658:2023](#), Requirements for the collection and transport of samples for medical laboratory examinations, \$210.00

Dimensional and Geometrical Product Specifications and Verification (TC 213)

[ISO 3611:2023](#), Geometrical product specifications (GPS) - Dimensional measuring equipment - Design and metrological characteristics of micrometers for external measurements, \$116.00

Environmental management (TC 207)

[ISO 14002-2:2023](#), Environmental management systems - Guidelines for using ISO 14001 to address environmental aspects and conditions within an environmental topic area - Part 2: Water, \$183.00

Implants for surgery (TC 150)

[ISO/PAS 7020:2023](#), Sizing parameters of surgical valve prostheses: Requirements regarding the application of ISO 5840-2, \$77.00

Mechanical testing of metals (TC 164)

[ISO 3785:2023](#), Metallic materials - Designation of test specimen axes in relation to product texture, \$77.00

Metallic and other inorganic coatings (TC 107)

[ISO 15730:2023](#), Metallic and other inorganic coatings - Electropolishing as a means of smoothing and passivating stainless steel, \$77.00

Nuclear energy (TC 85)

[ISO/ASTM 51539:2023](#), Guidance for use of radiation-sensitive indicators, \$51.00

Plastics (TC 61)

[ISO 5430:2023](#), Plastics - Ecotoxicity testing scheme for soluble decomposition intermediates from biodegradable plastic materials and products used in the marine environment - Test methods and requirements, \$116.00

Road vehicles (TC 22)

[ISO 23820:2023](#), Determination of the filtration efficiency of urea filter modules, \$157.00

[ISO 11451-5:2023](#), Road vehicles - Vehicle test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 5: Reverberation chamber, \$263.00

Safety of toys (TC 181)

[ISO 8124-10:2023](#), Safety of toys - Part 10: Experimental sets for chemistry and related activities, \$157.00

Ships and marine technology (TC 8)

[ISO 4853:2023](#), Ships and marine technology - A-frame launch and recovery system, \$77.00

[ISO 4857:2023](#), Ships and marine technology - Test procedures and methods for windlasses and winches, \$77.00

[ISO 5540:2023](#), Ships and marine technology - Sea-going vessels - Dual traction/stowage winches for oceanographic research, \$77.00

[ISO 9875:2023](#), Ships and marine technology - Marine echosounding equipment, \$183.00

[ISO 24409-4:2023](#), Ships and marine technology - Design, location and use of shipboard safety signs, fire control plan signs, safety notices and safety markings - Part 4: Escape plan signs used for general emergency information, \$116.00

Sports and recreational equipment (TC 83)

[ISO 4980:2023](#), Benefit-risk assessment for sports and recreational facilities, activities and equipment, \$210.00

Textiles (TC 38)

[ISO 18782:2023](#), Textiles - Determination of dynamic hygroscopic heat generation, \$116.00

Traditional Chinese medicine (TC 249)

[ISO 4564:2023](#), Traditional Chinese medicine - *Scutellaria baicalensis* root, \$77.00

Transport information and control systems (TC 204)

[ISO 21219-10:2023](#), Intelligent transport systems - Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) - Part 10: Conditional access information (TPEG2-CAI), \$77.00

ISO Technical Reports

Blockchain and distributed ledger technologies (TC 307)

[ISO/TR 23644:2023](#), Blockchain and distributed ledger technologies (DLTs) - Overview of trust anchors for DLT-based identity management, \$157.00

ISO Technical Specifications

Biotechnology (TC 276)

[ISO/TS 23511:2023](#), Biotechnology - General requirements and considerations for cell line authentication, \$116.00

[ISO/TS 24420:2023](#), Biotechnology - Massively parallel DNA sequencing - General requirements for data processing of shotgun metagenomic sequences, \$116.00

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

[ISO/TS 16840-14:2023](#), Wheelchair seating - Part 14: Concepts related to managing external forces to maintain tissue integrity, \$77.00

ISO/IEC JTC 1, Information Technology

[ISO/IEC 5965:2023](#), Information technology - Swordfish Scalable Storage Management API Specification, \$263.00

[ISO/IEC 24661:2023](#), Information technology - User interfaces - Full duplex speech interaction, \$157.00

[ISO/IEC/IEEE 15288:2023](#), Systems and software engineering - System life cycle processes, \$263.00

[ISO/IEC/IEEE 24641:2023](#), Systems and Software engineering - Methods and tools for model-based systems and software engineering, \$263.00

IEC Standards

Electric cables (TC 20)

[IEC 60287-1-1 Ed. 3.0 en:2023](#), Electric cables - Calculation of the current rating - Part 1-1: Current rating equations (100 % load factor) and calculation of losses - General, \$278.00

[IEC 60287-1-1 Ed. 3.0 en:2023 CMV](#), Electric cables - Calculation of the current rating - Part 1-1: Current rating equations (100 % load factor) and calculation of losses - General, \$417.00

[IEC 60287-1-3 Ed. 2.0 en:2023](#), Electric cables - Calculation of the current rating - Part 1-3: Current rating equations (100 % load factor) and calculation of losses - Current sharing between parallel single-core cables and calculation of circulating current losses, \$190.00

[IEC 60287-1-3 Ed. 2.0 en:2023 CMV](#), Electric cables - Calculation of the current rating - Part 1-3: Current rating equations (100 % load factor) and calculation of losses - Current sharing between parallel single-core cables and calculation of circulating current losses, \$285.00

[IEC 60287-2-1 Ed. 3.0 en:2023](#), Electric cables - Calculation of the current rating - Part 2-1: Thermal resistance - Calculation of thermal resistance, \$329.00

[IEC 60287-2-1 Ed. 3.0 en:2023 CMV](#), Electric cables - Calculation of the current rating - Part 2-1: Thermal resistance - Calculation of thermal resistance, \$494.00

Fibre optics (TC 86)

[IEC 60794-1-1 Ed. 5.0 b:2023](#), Optical fibre cables - Part 1-1: Generic specification - General, \$278.00

[IEC 60794-1-1 Ed. 5.0 en:2023 CMV](#), Optical fibre cables - Part 1-1: Generic specification - General, \$474.00

Accreditation Announcements (U.S. TAGs to ISO)

Approval of ReAccreditation – U.S. TAG to ISO

TC 23/SC 13, Powered lawn and garden equipment; and 23/SC 17, Manually portable forest machinery

Effective May 17, 2023

ANSI's Executive Standards Council (ExSC) has approved the reaccreditations of the US TAGs to **TC 23/SC 13, Powered lawn and garden equipment, and 23/SC 17, Manually portable forest machinery**, under revised operating procedures, effective **May 17, 2023**. For additional information, please contact: Greg Knott, Outdoor Power Equipment Institute: 341 South Patrick Street Alexandria, VA 22314, P: (703) 549-7600 E: gknott@opei.org

International Organization for Standardization (ISO)

ISO New Work Item Proposal

Sustainable Raw Materials

Comment Deadline: June 30, 2023

DIN, the ISO member body for Germany, has submitted to ISO a new work item proposal for the development of an ISO standard on Sustainable Raw Materials, with the following scope statement:

This document specifies criteria for sustainable raw materials along industry best practices and is intended to be used for mineral-, raw iron- and non-iron-metals. It is applicable to the full value chain of all raw materials, from extraction (mining) to processing, to refining, to final product manufacturing, thereby including the full upstream and downstream value chain. It does not apply to the mine closure and/or mine reclamation stage activities as these stages are not considered integral parts of the value chain.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on **Friday, June 30, 2023**.

Calls for Participation/Experts

CALL FOR VTAG PARTICIPANTS (USNC)

USNC Virtual Technical Advisory Groups (VTAGs) – IEC Business Advisory Committee (BAC), Diversity Advisory Committee (DAC) and Governance Review and Audit Committee (GRAC)

Participants Needed

The convenors for the USNC VTAGs to IEC BAC, DAC, and GRAC would like to grow their membership. Individuals interested in serving as the USNC VTAGs on the IEC BAC, DAC, GRAC are invited to contact Mackenzie Connors at maconnors@ansi.org as soon as possible.

Please see the scope for BAC below:

Scope

The IEC Board delegates to the Business Advisory Committee (BAC) the coordination of financial planning and outlook, commercial policies and activities as well as organizational (information technology) infrastructure in support of the IEC Board.

The BAC comprises 4 members of the IEC Board, 15 members from National Committees and the Officers (without vote).

Please see the scope for DAC below:

Scope

The Diversity Advisory Committee (DAC) has the task to propose guidance, as requested, to the IEC Board for its selection process of members of the other bodies reporting to the IEC Board. Guidelines may include appropriate skills and competencies matrices, best practices for diversity performance indicators and recommended monitoring measures, as needed at any level of the Commission.

Such guidelines and provisions of recommendations shall also be available to National Committees for consideration in their nominations, including for membership on the IEC Board.

Any guidelines developed by the DAC shall be submitted for approval by the IEC Board.

The DAC is composed of one Chair, three members from Group A Members and three members from non-Group A Members.

Please see the scope for GRAC below:

Scope

The Governance Review and Audit Committee (GRAC) is an advisory group that assists in providing independent oversight of governance of the Commission, ensuring the financial security and compliance of the Commission, and reducing potential risk in current (financial) operations. The GRAC makes recommendations to the IEC Board.

The GRAC is composed of one Chair, three members from Group A Members and three members from non-Group A Members.

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/UL 101, Standard for Safety for Leakage Current for Utilization Equipment

1. Proposed revisions addressing GFCI Interoperability Issues

PROPOSAL

1 Purpose

1.1 To minimize the user's risks of physical reaction to electrical shock or inability to let go a live part of ~~the user~~, or burns ~~to the user~~, from exposure to leakage currents from utilization equipment under foreseeable use conditions, this standard provides:

- a) Leakage current limits;
- b) Methods, specifications for measuring equipment, and test conditions for measurement of leakage currents;
- c) GFCI Interoperability test limits, methods, specifications for measuring equipment, and test conditions for measurement of differential currents.

5.3 Test conditions

5.3.1 The product is to be tested for leakage current without any previous energization after the manufacturing, packaging and shipping process. The grounding conductor, if any, is to be open at the receptacle feeding the product.

A8 Rationale for GFCI Interoperability Test

A8.1 The 3.5 IIU limit was developed based on single load with the proposed Class A GFCI 4.0 IIU lower limit. Multiple loads were not included in the development of this requirement however the impact on a circuit of multiple loads is assumed to be accumulative. For equipment that is not typically used on a dedicated branch circuit, the impact of measuring cumulative IIU with multiple devices on the same branch circuit should be considered by each end-product standards' technical committee.

A8.42 In the Standard for Ground-Fault Circuit-Interrupters, UL 943 specifies that the current-time relationship,

$$T = \left(\frac{20}{I} \right)^{1.43}$$

is to be met even when the fault current to ground is split between R_N and R_G , as described Figure 6.7.4.1 and the supplementary high resistance test circuit in UL943, where the worst-case values produce a current divider which results in only the fraction,

$$\frac{R_N}{R_N + R_G} = \frac{0.25}{0.25 + 1.4} = 0.151515$$

of the fault current passes through the CT of the GFCI. In order to satisfy this requirement, the GFCI must actually perform according to a modified time relationship defined as:

$$T_{GN} = \left(\frac{20 \left(\frac{R_N}{R_N + R_G} \right)}{I_{CT}} \right)^{1.43}$$

where I_{CT} is the portion of the fault current to ground which flows through the CT of the GFCI and T_{GN} is the time required for the GFCI to trip, assuming the worst-case values for $R_N = 0.25 \Omega$ and $R_G = 1.4 \Omega$. This time relationship must be met in the case where the GFCI contacts are closed on a circuit in which the fault is already present and dictates the time between the instant when the contacts are first closed onto the fault and the instant when the fault is cleared. Therefore, depending on the phase of the voltage when the GFCI contacts are closed onto an existing fault, if we assume that a full-wave rectified power-supply may take up to 8 ms to initialize (16 ms for half-wave) and the solenoid actuated by the SCR could take another 8 ms to open the circuit contacts, then the time left for the GFCI electronics to sample data and make a decision is shown in the two right-most columns.

A8.2.3 The resulting practical effect on the sensitivity of the GFCI ICs for currents of various magnitudes and pulse-envelope-widths is plotted in Figure A8.1. The combinations of magnitudes and pulse-envelope-widths at which the "Meter M for GFCI Interoperability" of Section 6 would indicate 3.5 MIU (3.5 mA rms-weighted) when using an rms window size of 100 ms is also superimposed onto the graph. Therefore, GFCI ICs with sensitivities which lie above and to the right of the 3.5 mA rms-weighted reference line would be guaranteed to be interoperable because they are only sensitive to currents which would indicate a value larger than 3.5 mA rms-weighted on the output of the meter. In contrast, GFCI ICs with sensitivity below that are not guaranteed to be interoperable because they can trip on currents for which the meter would indicate a value less than 3.5 mA rms-weighted.

A8.34 In the worst-case practical scenario with a half-wave rectified power supply shown in Table A8.1, to comply with UL 943, a GFCI may recognize and issue an electronics trip signal after only 1 ms of a 40 mA rms fault current. Therefore, to ensure interoperability with practical implementations of GFCIs which pass UL 943, we want to ensure that the UL 101 test will not permit an appliance to pass if it leaks 40 mA for 1 ms. Considering 100 ms rms window, a 1 ms pulse-envelope of 40 mA will result in the meter output value of 4 mA rms, based on the equation:

$$m_{RMS}(I_{CT}, T_p, T_w) = I_{CT} \sqrt{\frac{T_p}{T_w}}$$

where I_{CT} is the differential current (mA) through the current transformer, T_p is the pulse width (ms) of the transient event of differential current I_{CT} , and T_w is the measurement window of the interoperability test.

NOTE: This equation holds true for when m_{RMS} and I_{CT} are given in milliamperes rms and when they are both given in milliamperes rms-weighted, which is equivalent to IIU for the measurement instrument defined in GFCI Interoperability Test, Section 6. Therefore, this analysis is accurate for both 60 Hz sinusoidal currents measured in milliamperes rms and for complex-multifrequency currents measured in milliamperes rms-weighted (i.e. IIU for Figure 6.1).

$$m_{RMS}(40 \text{ mA}, 1 \text{ ms}, 100 \text{ ms}) = 40 \text{ mA} \cdot \sqrt{\frac{1 \text{ ms}}{100 \text{ ms}}} = 4 \text{ mA (RMS)}$$

Therefore, a 100 ms window allows demonstrates interoperability with ground fault protection in the case of 1 ms short pulse-envelope of 40 mA rms differential current. This and all other scenarios for GFCI trip sensitivities to short pulse-envelopes of differential current from the table above are plotted in Figure A8.1 and compared to the output value of the measurement instrument in with a 100 ms rms window defined in GFCI Interoperability Test, Section 6. This shows that the 40 mA 1 ms pulse-envelope case is the most concerning case for possible problems with interoperability.

B2 Meter for GFCI-Interoperability Test

B2.5 Example of Implementations for the Digital Program Method-- Figure B2.2 shows an example implementation where the differential current is measured by a current probe and then immediately sampled by an ADC. The Let-Go Network filter is then implemented digitally using a discrete-time digital filter equivalent derived from the bi-linear transform of the Let-Go RC network transfer function. MATLAB code implementation and derivation of the digital filter is also provided for reference. The performance of the meter is to be verified according to B2.2. Practical implementation using other software packages like Python, Wolfram Mathematica, C++, and others are also acceptable.

B2.6 Digital Filter Equivalent for Let-Go Network using IIR direct-form filter:

$$y[k] = \alpha_0 x[k] + \alpha_1 x[k - 1] + \alpha_2 x[k - 2] - \beta_1 y[k - 1] - \beta_2 y[k - 2]$$

with coefficients derived below:

Discrete-time TF using bilinear transform:

$$H_d(z) = H_c(s) \Big|_{s=2F_s \frac{1-z^{-1}}{1+z^{-1}}} = \frac{\alpha_2 z^{-2} + \alpha_1 z^{-1} + \alpha_0}{\beta_2 z^{-2} + \beta_1 z^{-1} + \beta_0}, \text{ where}$$

$$\gamma = 2F_s$$

$$\delta = (\gamma^2 b_2 + \gamma b_1 + 1)^{-1}$$

$$\alpha_0 = \delta(\gamma a_1 + a_0)$$

$$\alpha_1 = \delta 2a_0$$

$$\alpha_2 = \delta(a_0 - \gamma a_1)$$

$$\beta_0 = 1$$

$$\beta_1 = \delta(2 - 2\gamma^2 b_2)$$

$$\beta_2 = \delta(\gamma^2 b_2 - \gamma b_1 + 1)$$

F_s = sample rate in Hertz

Continuous-time TF:

$$H_c(s) = \frac{a_1 s + a_0}{b_2 s^2 + b_1 s + 1}, \text{ where}$$

$$R_1 = 10 \text{ k}\Omega, \quad C_1 = 6.2 \text{ nF}, \quad R_2 = 20 \text{ k}\Omega, \quad C_2 = 9.1 \text{ nF}$$

and

$$a_0 = 1, \quad a_1 = C_1 R_1, \quad b_0 = 1, \quad b_1 = R_1(C_1 + C_2) + C_1 R_2, \quad b_2 = R_1 R_2 (C_1 + C_2)(C_1 \cdot C_2)$$

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BSR/UL 1069, Standard for Safety for Hospital Signaling and Nurse Call Equipment**1. Increase continuous DC limitation from 42.4 Volts to 60 Volts****PROPOSAL**

19.3.2 Power limitations shall be obtained by the use of any one of the following configurations:

- a) Energy-limiting transformers [see ~~19.3.3 (a)–(e)~~ 19.3.3A (a)–(f)].
- b) Nonenergy-limiting transformer, standby battery, or both, coupled with a noninterchangeable overcurrent protective device in the output circuit [see ~~19.3.3 (a), (b), and (d)~~ 19.3.3A (a)–(e), (h)].
- c) Combination of a transformer, standby battery, or both, and reliable fixed impedance [see ~~19.3.3 (a)–(e)~~ 19.3.3A (a)–(f)].
- d) Combination of a transformer, standby battery, or both, and reliable electronic circuit [see ~~19.3.3 (a)–(e)~~ 19.3.3A (a)–(f)].
- e) Arrangement equivalent to any of the above.

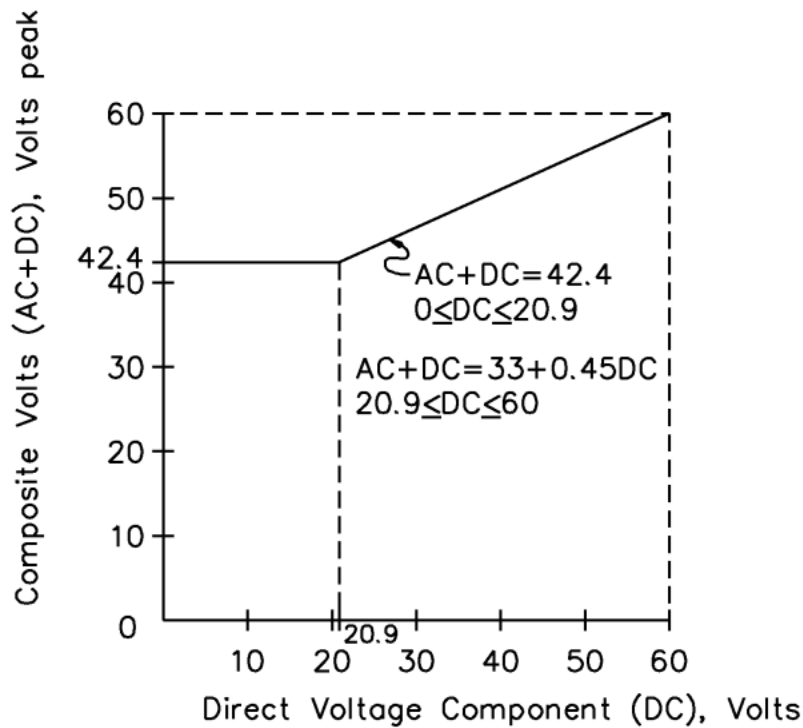
19.3.3A The capacity of a low-voltage, power-limiting circuit of hospital signaling and nurse call equipment, as well as miscellaneous hospital signaling equipment, shall not be greater than the following values:

- a) 100 volt-amperes, 5 amperes maximum at the maximum rated voltage and frequency;
- b) 30 volts, 60 hertz (42.4 volts peak), 42.4 volts peak for nonsinusoidal AC;
- c) 60 volts continuous DC, or 60V for interrupted DC outside the range of 10 – 200Hz;
- d) 24.8 V peak for DC interrupted at a rate of 10-200Hz;
- e) As indicated in Figure 19.1 for combinations of AC and DC;

Note: For the purpose of (b) through (e) requirements, initial transients lasting less than 200 milliseconds may be ignored. Since short term peak voltage is of interest during tests involving a fault, voltages are to be monitored by using a storage oscilloscope for the first two seconds after any fault is introduced.

Figure 19.1

Maximum acceptable voltage



SM363

f) For a circuit whose power source is inherently limited by a reliable fixed impedance or a reliable electronic circuit and whose output voltage does not exceed 30 volts, the maximum output current measured after 1 minute, under any condition of loading including short circuit, shall not exceed 8.0 amperes. Any additional overcurrent protection (other than the reliable fixed impedance or electronic circuit) is to be shorted during the test;

g) For a continuous DC circuit whose output voltage is greater than 30 volts, the maximum output current measured after 1 minute, under any condition of loading including short circuit, shall not exceed 150 volt-amperes divided by V_{max} . Any additional overcurrent protection (other than the reliable fixed impedance or electronic circuit) is to be shorted during the test; or

h) ~~50~~250 volt-amperes under any condition of loading with the overcurrent protective device shorted, for a circuit whose power is limited by a combination of a nonenergy-limiting transformer, battery, or both, and noninterchangeable overcurrent-protective device.

Exception: If the maximum voltage from the circuit is 15 volts, 60 hertz or less, then the maximum voltamperes shall not exceed 350 volt-amperes.

19.3.4 Components, circuits, or both shall be determined to be reliable by any one of the following methods:

a) The component has been previously investigated and determined to be suitable for the application.

b) The opening or short-circuiting (singly) of any unreliable component (electrolytic capacitor, transistor junction, diode, vacuum tube, or similar component) in the circuit in question does not cause the limits in this ~~19.3.3~~19.3.3A to be exceeded.

c) The individual component or each component of the circuit has a predicted failure rate of 2.5 or less failures per million hours as determined for a "Ground Fixed" (GF) environment by MIL-HDBK 217B, or equivalent.

19.3.5 To determine if the capacity of a low-voltage, power-limited circuit complies with the requirements of [19.3.3](#)19.3.3A, the output circuit is to be connected to a variable resistance load. With the unit connected to a rated source of supply voltage and frequency, the load resistor is to be varied from open circuit to short-circuit conditions in such a manner that the elapsed time is between 1-1/2 and 2-1/2 minutes. Voltage and current measurements are to be recorded for each value and the maximum volt-amperes (volts times amperes) capacity is to be calculated. The short-circuit current, open circuit voltage, and the current at the rated voltage value of the circuit are to be included in the measurements. The overcurrent protective device is to be shunted out during the test.

19.3.6 The output circuit of a power supply supplying a low-voltage, power-limited circuit, and complying with the limits of [19.3.3](#)19.3.3A shall not be interconnected with the output circuit of another power supply, either in series or parallel, unless the voltage and current measurements (volt-amperes) at the output terminals of the interconnected combination also comply with the requirements of [19.3.3](#)19.3.3A. Two or more power supplies supplying low-voltage, power-limited circuits are to be treated as two separate circuits, each having its own separate output connections, and the output at each circuit shall be marked to warn that the separation shall be maintained. The presence of a fault condition in the interconnecting wiring is not to be considered in determining the energy capability of two or more power supplies in combination.

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