

Contents

American National Standards

Call for Comment on Standards Proposals	2
Call for Members (ANS Consensus Bodies)	11
Final Actions	14
Project Initiation Notification System (PINS)	26
ANS Maintained Under Continuous Maintenance	31
ANSI-Accredited Standards Developers Contact Information	32

International Standards

ISO and IEC Draft Standards	33
ISO and IEC Newly Published Standards	36
Proposed Foreign Government Regulations	38
Information Concerning	39

American National Standards

Call for comment on proposals listed

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. Fax: 212-840-2298; e-mail: psa@ansi.org

* Standard for consumer products

Comment Deadline: December 29, 2019

AMCi (AMC Institute)

Revision

BSR/AMCi A100.1-202x, Standard of Good Practices for the Association Management Company industry (revision of ANSI/AMCi A100.1-2018)

The AMC institute Standard establishes requirements that provide a measurement for practices that can be utilized by all sizes and types of Association Management Companies (AMCs) in order to enhance the performance of the AMC and their staff.

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

Send comments (with optional copy to psa@ansi.org) to: <https://www.surveymonkey.com/r/RXLD3P3>

NSF (NSF International)

Revision

BSR/NSF/CAN 61-202x (i153r1), Drinking Water System Components - Health Effects (revision of ANSI/NSF/CAN 61-2019)

This Standard establishes minimum health effects requirements for the chemical contaminants and impurities that are indirectly imparted to drinking water from products, components, and materials used in drinking water systems. This Standard does not establish performance, taste and odor, or microbial growth support requirements for drinking water system products, components, or materials.

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

Send comments (with optional copy to psa@ansi.org) to: mleslie@nsf.org

UL (Underwriters Laboratories, Inc.)

New National Adoption

BSR/UL 15027-2-202x, Standard for Immersion suits - Part 2: Abandonment suits, requirements including safety (national adoption with modifications of ISO 15027-2)

UL proposes a recirculation to the proposal dated 6-14-19.

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

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

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 2683-202x, Standard for Safety for Electric Heating Systems for Floor and Ceiling Installation (new standard)

This proposal for UL 2683 addresses the recirculation of changes to the proposed first edition of the Standard for Electric Heating Systems for Floor and Ceiling Installation.

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

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

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 127-202X, Standard for Safety for Factory-Built Fireplaces (revision of ANSI/UL 127-2015)

(1) Addition of reference to UL 62368-1 as an alternative to UL 60950-1; (2) Addition of reference to UL 61800-5-1 as replacement to UL 508C.

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

Send comments (with optional copy to 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>

BSR/UL 414-202x, Standard for Safety for Meter Sockets (revision of ANSI/UL 414-2018)

This proposal for UL 414 covers (1) Revision of requirements to include removable connector with integral mounting tang.

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

Send comments (with optional copy to 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>

BSR/UL 737-202X, Standard for Safety for Fireplace Stoves (revision of ANSI/UL 737-2011 (R2015))

(1) Addition of reference to UL 62368-1 as an alternative to UL 60950-1; (2) Addition of reference to UL 61800-5-1 as replacement to UL 508C.

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

Send comments (with optional copy to 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>

BSR/UL 1482-202X, Standard for Safety for Solid-Fuel Type Room Heaters (revision of ANSI/UL 1482-2011 (R2015))

(1) Addition of reference to UL 62368-1 as an alternative to UL 60950-1; (2) Addition of reference to UL 61800-5-1 as replacement to UL 508C.

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

Send comments (with optional copy to 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>

BSR/UL 2267-202x, Standard for Safety for Fuel Cell Power Systems for Installation in Industrial Electric Trucks (Proposal dated 11 -29-19) (revision of ANSI/UL 2267-2013 (R2018))

This recirculation proposal provides revisions to the UL 2267 proposal dated 7-12-19.

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

Send comments (with optional copy to 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>

BSR/UL 8750-202x, Standard for Safety for Light Emitting Diode (LED) Equipment for Use in Lighting Products (revision of ANSI/UL 8750-2019b)

This proposal for UL 8750 covers: (1) For Preliminary Review Only: Revision of requirements for Supplement SF - LED Equipment with Wired Control Circuits; (2) For Preliminary Review Only: Correction to reference in Table 7.6.

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

Send comments (with optional copy to 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: January 13, 2020

AAFS (American Academy of Forensic Sciences)

New Standard

BSR/ASB BPR 126-202x, Best Practice Recommendation for Casting of Footwear and Tire Impression Evidence (new standard)

This document provides best practice recommendations for casting of footwear and tire impression evidence by appropriate personnel. Following the recommendations set forth in this document should result in the optimal recovery of impressions. Deviations from this document may/may not preclude examination of recovered impressions. The procedures included in this document may not cover all aspects of unusual or uncommon conditions. This document is not intended as a substitute for training in the detection of footwear and tire track evidence. Completion of a training program and experience in these skills is essential to understanding and applying the principles outlined in this document.

Single copy price: Free

Obtain an electronic copy from: Document will be provided electronically on ASB website:<http://www.asbstandardsboard.org/notice-of-standard-development-and-coordination/>

Order from: Document will be provided electronically on AAFS Standards Board website free of charge

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

ANS (American Nuclear Society)

Reaffirmation

BSR/ANS 3.1-2014 (R202x), Selection, Qualification, and Training of Personnel for Nuclear Power Plants (reaffirmation of ANSI/ANS 3.1-2014)

This standard provides criteria for the selection, qualification, and training of personnel for nuclear power plants. The qualifications of personnel in the operating organizations appropriate to safe and efficient operation of a nuclear power plant are addressed in terms of the minimum education, experience, and training requirements. Requirements of this standard may be applied to test, mobile, and research reactors and reactors not subject to U.S. Nuclear Regulatory Commission licensing at the user's discretion.

Single copy price: \$141.00

Obtain an electronic copy from: orders@ans.org

Order from: orders@ans.org

Send comments (with optional copy to psa@ansi.org) to: pschroeder@ans.org

API (American Petroleum Institute)

New National Adoption

BSR/API MPMS Chapter 8.6, 1st Edition-202x, Modified Adoption of ISO 8943-2007: Refrigerated light hydrocarbon fluids - Sampling of liquified natural gas - Continuous and intermittent methods (national adoption with modifications of ISO 8943:2007)

This International Standard specifies methods for the continuous and the intermittent sampling of LNG while it is being transferred through an LNG transfer line.

Single copy price: Free

Obtain an electronic copy from: goodsons@api.org

Send comments (with optional copy to psa@ansi.org) to: goodsons@api.org

ASABE (American Society of Agricultural and Biological Engineers)

Revision

BSR/ASAE S572.3 MONYEAR-202x, Spray Nozzle Classification by Droplet Spectra (revision and redesignation of ANSI/ASAE S572.2-JUL2018)

This Standard defines droplet spectrum categories for the classification of spray nozzles, relative to specified reference fan nozzles discharging spray into static air or so that no stream of air enhances atomization. The purpose of classification is to provide the nozzle user with droplet size information primarily to indicate off-site spray drift potential and secondarily for application efficacy. This Standard defines a means for relative nozzle comparisons only based on droplet size. Other spray drift and application efficacy factors such as droplet discharge trajectory; height, and velocity; air bubble inclusion; droplet evaporation; and impaction on target are examples of factors not addressed by the Standard.

Single copy price: \$65.00 (non-members); \$44.00 (ASAE members).

Obtain an electronic copy from: walsh@asabe.org

Order from: Jean Walsh, (269) 932-7027, walsh@asabe.org

Send comments (with optional copy to psa@ansi.org) to: walsh@asabe.org

ASC X9 (Accredited Standards Committee X9, Incorporated)

New National Adoption

BSR X9.134-1/ISO 12812-202x, Mobile Financial Services (national adoption with modifications of ISO 12812 Part 1)

This initial part of the proposed Standard (X9.134 - Part 1) will provide the General Framework for mobile banking/payments, including a comprehensive list of terms and definitions for use throughout the entire American National Standard. NWIPs for other parts of the overall Standard will be submitted separately in order to ensure that all stakeholders have an opportunity to provide input on the mobile payment functionalities that most directly affect them. Thus, Part 1 provides an overview that every implementer of mobile financial services should use regardless of the type of application it is developing or using operationally. Although Part 1 itself contains no "requirements," it does speak to general principles for how the other four parts interact with one another and provides guidance on how mobile financial services should operate (along with background information explaining how and/or why some services operate the way they do in today's payment environment. As such, Part 1 is intended to "set the stage" for everyone who uses the American National Standard.

Single copy price: Free

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

Order from: Ambria Frazier, (410) 267-7707, Ambria.frazier@x9.org

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

ASME (American Society of Mechanical Engineers)

Revision

BSR/ASME BPVC Section III-201x, Rules for Construction of Nuclear Facility Components (revision of ANSI/ASME BPVC Section III -2019)

The rules of this Section constitute requirements for the design, construction, stamping, and overpressure protection of items used in nuclear power plants and other nuclear facilities. This Section consists of the following divisions:

- (a) Division 1. Metallic vessels, heat exchangers, storage tanks, piping systems, pumps, valves, core support structures, supports, and similar items;
- (b) Division 2. Concrete containments with metallic liners;
- (c) Division 3. Containment systems for spent nuclear fuel and high-level radioactive material;
- (d) Division 4. Components for fusion devices; and
- (e) Division 5. High-temperature reactors, vessels, storage tanks, piping, pumps, valves, core support structures and non-metallic core components for use in nuclear power plants and other nuclear facilities.

Single copy price: Free

Obtain an electronic copy from: <http://cstools.asme.org/publicreview>

Order from: Terrell Henry, (212) 591-8489, ansibox@asme.org

Send comments (with optional copy to psa@ansi.org) to: Allyson Byk, (212) 591-8521, byka@asme.org

AWS (American Welding Society)

Revision

BSR/AWS C3.9M/C3.9-202x, Specification for Resistance Brazing (revision of ANSI/AWS C3.9M/C3.9-2008)

This specification provides the minimum fabrication, equipment, material, and process procedure requirements, as well as discontinuity limits for the resistance brazing of steels, copper, copper alloys, heat- and corrosion-resistant alloys, and other materials that can be adequately resistance brazed (the resistance brazing of aluminum alloys is addressed in AWS C3.7M/C3.7, Specification for Aluminum Brazing). This specification provides criteria for classifying resistance brazed joints based on loading and the consequences of failure and quality assurance criteria defining the limits of acceptability in each class. This specification defines acceptable resistance brazing equipment, materials, and procedures, as well as the required inspection for each class of joint.

Single copy price: \$34.00 (Non-Members); \$26.00 (AWS Members)

Obtain an electronic copy from: kbulger@aws.org

Order from: Kevin Bulger, (800) 443-9353, kbulger@aws.org

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

AWWA (American Water Works Association)

Revision

BSR/AWWA A100-202x, Water Wells (revision of ANSI/AWWA A100-2015)

This standard describes the minimum requirements for vertical water supply wells. This standard is designed primarily for vertical wells for municipal and industrial water supply.

Single copy price: Free

Obtain an electronic copy from: ETSsupport@awwa.org

Order from: AWWA, Attn: Vicki David, vdavid@awwa.org

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

BSR/AWWA C700-202x, Cold-Water Meters - Displacement Type, Metal Alloy Main Case (revision of ANSI/AWWA C700-2015)

This standard describes the various types and classes of cold-water displacement meters with metal alloy main cases, in sizes 1/2 in. (13 mm) through 2 in. (50 mm), and the materials and workmanship employed in their fabrication.

Single copy price: Free

Obtain an electronic copy from: ETSsupport@awwa.org

Order from: AWWA, Attn: Vicki David, vdavid@awwa.org

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

BSR/AWWA C710-202x, Cold-Water Meters - Displacement Type, Plastic Main Case (revision of ANSI/AWWA C710-2015)

This standard describes the various types and classes of cold-water displacement meters with plastic main cases, in sizes 1/2 in. (13 mm) through 1 in. (25 mm), for water utility customer service, and the materials and workmanship employed in their fabrication.

Single copy price: Free

Obtain an electronic copy from: ETSsupport@awwa.org

Order from: AWWA, Attn: Vicki David, vdavid@awwa.org

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

CSA (CSA America Standards Inc.)

New Standard

BSR/CSA LNG 4.4-202x, Breakaway Devices for Liquefied Natural Gas (LNG) Dispensing (new standard)

This standard applies to newly manufactured LNG dispenser fuelling and vent hose emergency breakaway shutoff devices, referred to as devices in this standard.

NOTES: (1) Devices covered in this standard are intended to be used on an LNG dispenser certified to CSA LNG 4.1 and with an LNG refueling connector in accordance with ANSI/CAN/CSA-ISO 12617; (2) Both "one-time use" or "reusable" devices are covered in this standard; and (3) Devices can be installed "in line" or rigidly mounted at the transition from rigid piping to flexible hose at the dispenser end.

Single copy price: Free

Obtain an electronic copy from: david.zimmerman@csagroup.org

Send comments (with optional copy to psa@ansi.org) to: david.zimmerman@csagroup.org

CSA (CSA America Standards Inc.)

Reaffirmation

BSR Z21.77-2005 (R202x), Manually Operated Piezo-Electric Spark Gas Ignition Systems and Components (same as CSA 6.23) (reaffirmation of ANSI Z21.77-2005 (R2015))

Details test and examination criteria for manually operated piezo-electric spark gas ignition systems for use with natural, manufactured and mixed gases, liquefied petroleum, and LP gas-air mixtures. A piezo-electric ignition system shall perform the following functions: (a) generate piezo-electric energy (spark generator); (b) transmit the energy (high-voltage leads); and (3) utilize the energy to produce arcs (spark electrode).

Single copy price: Free

Obtain an electronic copy from: david.zimmerman@csagroup.org

Send comments (with optional copy to psa@ansi.org) to: ansi.contact@csagroup.org

BSR Z21.35-2005 (R202x), BSR Z21.35a-2010 (R202x), Pilot Gas Filters (same as CSA 6.8) (reaffirmation of ANSI Z21.35-2005 (R2015), ANSI Z21.35a-2010 (R2015))

Details test and examination criteria for pilot gas filters that have a maximum operating gas pressure rating of 1/2 psi. The temperature range shall be 32°F to 125°F (0°C to 51.5°C) and may be capable of operating at a higher temperature, lower temperature, or both, when so specified by the manufacturer.

Single copy price: Free

Obtain an electronic copy from: david.zimmerman@csagroup.org

Send comments (with optional copy to psa@ansi.org) to: ansi.contact@csagroup.org

HL7 (Health Level Seven)

New Standard

BSR/HL7 NMN R1-202x, HL7 Cross-Paradigm Specification: FHIRPath, Release 1 (new standard)

This document defines a path-based navigation and extraction language, somewhat like XPath. Operations are expressed in terms of the logical content of hierarchical data models, and support traversal, selection, and filtering of data. Its design was influenced by the needs for path navigation, selection, and formulation of invariants in both HL7 Fast Healthcare Interoperability Resources (FHIR) and HL7 Clinical Quality Language (CQL).

Single copy price: Free to HL7 members and non-members

Obtain an electronic copy from: Karenvan@HL7.org

Order from: Karen Van Hentenryck, (734) 677-7777, Karenvan@HL7.org

Send comments (with optional copy to psa@ansi.org) to: Karenvan@HL7.org

RESNET (Residential Energy Services Network, Inc.)

Addenda

BSR/RESNET/ICC 301-202x Addendum B-202x, Clarifications, Coordination for HVAC Systems Installation Grading and Dehumidification (addenda to ANSI/RESNET/ICC 301-2019)

The addendum revises Standard ANSI/RESNET/ICC 301-2019, Standard for the Calculation and Labeling of the Energy Performance of Dwelling and Sleeping Units using an Energy Rating Index, to provide clarifications, to coordinate definitions with a standard for grading the installation of HVAC systems and delineate inspections of HVAC systems installation, and to incorporate the performance of dehumidification equipment in the rating of dwelling unit energy performance.

Single copy price: \$55.00

Obtain an electronic copy from: An electronic copy of the amendment can be downloaded from the RESNET website by following the links from webpage <http://www.resnet.us/blog/resnet-consensus-standards/>

Order from: Rick Dixon, Standards Manager, RESNET, P.O. Box 4561, Oceanside, CA 92052

Send comments (with optional copy to psa@ansi.org) to: Comments are submitted via RESNET's online comment form. See the links from webpage <http://www.resnet.us/blog/resnet-consensus-standards/>

UL (Underwriters Laboratories, Inc.)

New National Adoption

BSR/UL 62841-4-1-202x, Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 4-1: Particular Requirements for Chain Saws (national adoption with modifications of IEC 62841-4-1)

This proposal for UL 62841-4-1 covers: (1) Proposed adoption of the first edition of IEC 62841-4-1, Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 4-1: Particular Requirements for Chain Saws, as the first edition of UL 62841-4-1.

Single copy price: Free

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

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

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

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 9-2015 (R202x), Standard for Fire Tests of Window Assemblies (reaffirmation of ANSI/UL 9-2015)

UL is issuing a reaffirmation for UL 9.

Single copy price: Free

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

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

Send comments (with optional copy to 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>

BSR/UL 482-2005 (R202x), Standard for Safety for Portable Sun/Heat Lamps (reaffirmation of ANSI/UL 482-2005 (R2014))

This proposal for UL 482 covers: (1) Reaffirmation and continuance of the Ninth Edition of the Standard for Portable Sun/Heat Lamps, UL 482, as an American National Standard.

Single copy price: Free

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

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

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

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 924-202x, Standard for Safety for Emergency Lighting and Power Equipment (revision of ANSI/UL 924-2018)

This proposal for UL 924 covers: (1) Open-type devices; (2) Electronic-circuit fault assessment and functionality; (3) Modification to a derangement signal activation condition; (4) ELCDs with control functionality to independently monitor normal power status; (5) ELCDs to be evaluated only for power status conditions; (6) Self-testing/self-diagnostic equipment load loss detection thresholds; (7) Derangement signal calibration for self-test equipment with variable output levels; (8) Flashing exit signs; (9) Test methods for constant-current-rated equipment; (10) Clarifying markings and instructions for emergency air-handling luminaires; (11) Adding the word "emergency" to citations for directly controlled luminaires; (12) Correction to LVLE (low-voltage limited-energy) definition and test program; (13) Revise definition of "Service"; (14) Polymeric enclosure resistance to impact testing; (15) Supply wiring connections for PoE (Power over Ethernet) equipment; (16) Additional battery compliance options; (17) Test switch accessibility; (18) Impedance networks; (19) Guidance for non-Arabic character text-based exit signs; (20) Clarification of dielectric voltage withstand test potentials; (21) Simplifying the requirement for instructions to be provided with equipment; (22) Temperature test measurement clarification and de-linking the ELCF test; and (23) Editorial adjustments and corrections

Single copy price: Free

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

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

Send comments (with optional copy to 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>

BSR/UL 1484-202x, Standard for Safety for Residential Gas Detectors (revision of ANSI/UL 1484-2008 (R2017))

Proposal introduces new requirements for a One-Year Sensor Stability Test for Limited Life, Gas Sensors.

Single copy price: Free

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

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

Send comments (with optional copy to 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>

BSR/UL 2034-202x, Standard for Safety for Single and Multiple Station Carbon Monoxide Alarms (revision of ANSI/UL 2034-2018)

Proposal introduces new requirements for a One-Year Sensor Stability Test for Limited Life, CO Sensors.

Single copy price: Free

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

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

Send comments (with optional copy to 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>

BSR/UL 2075-202x, Standard for Safety for Gas and Vapor Detectors and Sensors (revision of ANSI/UL 2075-2017)

Proposal introduces new requirements for a One-Year Sensor Stability Test for Limited Life, Gas Sensors.

Single copy price: Free

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

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

Send comments (with optional copy to 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>

BSR/UL 60079-15-202x, Standard for Safety for Explosive Atmospheres - Part 15: Equipment Protection by Protection "n" (revision of ANSI/UL 60079-15-2013 (R2017))

This proposal provides revisions to the proposal document dated January 18, 2019 for the Adoption of IEC 60079-15, Explosive Atmospheres - Part 15: Equipment Protection by Type of Protection "n", (fifth edition issued by IEC December 2017) as a new UL IEC-based UL standard, UL 60079-15 to the applicable requirements per comments received.

Single copy price: Free

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

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

Send comments (with optional copy to 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>

VITA (VMEbus International Trade Association (VITA))

Reaffirmation

BSR/VITA 48.7-2014 (R202x), Mechanical Standard for Electronic Plug-in Units using Air Flow-by Cooling Technology (reaffirmation of ANSI/VITA 48.7-2014)

VITA 48.7 defines a detailed mechanical implementation for air flow-by, cooling and sealing technologies applied to plug-in modules, backplanes, and sub-racks as defined in VITA 46/48. Air flow-by cooling seals, environmentally and EMI, the PCBA within heat-exchanging covers, convectively cooling the assembly without exposing the PCBA to the cooling air.

Single copy price: \$25.00

Obtain an electronic copy from: admin@vita.com

Send comments (with optional copy to psa@ansi.org) to: admin@vita.com

VITA (VMEbus International Trade Association (VITA))

Stabilized Maintenance

BSR/VITA 30.1-2008 (S202x), 2mm Connector Practice on Conduction Cooled Euroboards (stabilized maintenance of ANSI/VITA 30.1-2008 (R2014))

Mechanical characteristics of conduction-cooled versions of Euroboard-based circuit card assemblies are described in this standard. This specification is applicable to, but not limited to, the CompactPCI bus standard, an internal interconnect (backplane) bus intended for connecting individual processing, memory, communications and I/O elements to additional resources. The aim is to ensure mechanical interchangeability of conduction-cooled circuit card assemblies in a format suitable for military and rugged applications and to ensure their compatibility with both conduction-cooled chassis and commercial, air-cooled, single-height (3U) and double-height (6U) x 160 mm, Euroboard chassis.

Single copy price: \$25.00

Obtain an electronic copy from: admin@vita.com

Send comments (with optional copy to psa@ansi.org) to: admin@vita.com

BSR/VITA 58.0-2009 (S202x), Line Replaceable Integrated Electronics Chassis Standard (stabilized maintenance of ANSI/VITA 58.0-2009 (R2014))

This standard provides common design and performance requirements for a family of integrated electronic chassis incorporating updated industry-standard high-speed electronic assemblies and designed for rugged environments.

Single copy price: \$25.00

Obtain an electronic copy from: admin@vita.com

Send comments (with optional copy to psa@ansi.org) to: admin@vita.com

Comment Deadline: January 28, 2020

Reaffirmations and withdrawals available electronically may be accessed at: webstore.ansi.org

ASME (American Society of Mechanical Engineers)

Revision

BSR/ASME RAM-1-201x, Reliability, Availability, and Maintainability of Equipment and Systems in Power Plants (revision of ANSI/ASME RAM-1-2013)

This Standard provides the requirements to establish a RAM program for any power-generation facility.

Single copy price: Free

Obtain an electronic copy from: <http://cstools.asme.org/publicreview>

Order from: Maria Acevedo, (212) 591-8500, csadmin@asme.org

Send comments (with optional copy to psa@ansi.org) to: Justin Cassamassino, (212) 591-8404, cassasmassinoj@asme.org

BSR/ASME Y14.24-202x, Types and Applications of Engineering Drawings (revision of ANSI/ASME Y14.24-2012)

This Standard defines the types of engineering drawings most frequently used to establish engineering requirements. It describes typical applications and minimum content requirements.

Single copy price: Free

Obtain an electronic copy from: <http://cstools.asme.org/publicreview>

Order from: Terrell Henry, (212) 591-8489, ansibox@asme.org

Send comments (with optional copy to psa@ansi.org) to: Fredric Constantino, (212) 591-8684, constantinof@asme.org

IEEE (Institute of Electrical and Electronics Engineers)

New Standard

BSR/IEEE 260.4-202x, IEEE Standard for Letter Symbols and Abbreviations for Quantities Used in Acoustics (new standard)

This standard contains tables of letter symbols and abbreviations for quantities in the science and technology of acoustics. Recommendations for their use are also provided. Specialties within acoustics that make use of the letter symbols and abbreviations within this standard include, but are not limited to: speech, hearing, music, noise control, vibration, shock, sonar, and transducers. Although remarks and limited short-form information are provided for many of the symbols and abbreviations contained in this document. Definitions and methods of calculating the various quantities are outside the scope of this standard.

Single copy price: \$98.00 (PDF); \$122.00 (print)

Obtain an electronic copy from: <https://www.techstreet.com/ieee/searches/25657819>

Order from: <https://www.techstreet.com/ieee/searches/25657819>

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

Withdrawal of Technical Reports Registered with ANSI

Withdrawal of a Technical Report that is registered with ANSI is determined by the responsible ANSI-Accredited Standards Developer. The following Technical Reports are hereby withdrawn in accordance with the Developers own procedures.

ASC X9 (Accredited Standards Committee X9, Incorporated)

X9 TR-39-2009, Retail Financial Services Compliance Guideline - Part 1: PIN Security and Key Management (TECHNICAL REPORT)

Questions may be directed to: Janet Busch, (410) 267-7707, janet.busch@x9.org

Notice of Withdrawn ANS by an 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.

ASTM (ASTM International)

ANSI/ASTM D5813-2004 (R2018), Specification for Cured-In-Place Thermosetting Resin Sewer Piping Systems

Questions may be directed to: Corice Leonard, (610) 832-9744, accreditation@astm.org

ANSI/ASTM E1830-2019 (R2019), Test Methods for Determining Mechanical Integrity of Photovoltaic Modules

Questions may be directed to: Corice Leonard, (610) 832-9744, accreditation@astm.org

ANSI/ASTM F2747-2010, Guide for Construction of Sand-Based Rootzones for Golf Putting Greens and Tees

Questions may be directed to: Corice Leonard, (610) 832-9744, accreditation@astm.org

Call for Members (ANS Consensus Bodies)

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

API (American Petroleum Institute)

Contact: Sally Goodson
Phone: (202) 682-8130
E-mail: goodsons@api.org
Office: 1220 L Street, NW
 Washington, DC 20005

BSR/API MPMS Chapter 8.6, 1st Edition-202x, Modified Adoption of ISO 8943-2007: Refrigerated light hydrocarbon fluids - Sampling of liquified natural gas - Continuous and intermittent methods (national adoption with modifications of ISO 8943:2007)

AWS (American Welding Society)

Contact: Kevin Bulger
Phone: (800) 443-9353
E-mail: kbulger@aws.org
Office: 8669 Doral Blvd
 Suite 130
 Doral, FL 33166

BSR/AWS C3.9M/C3.9-202x, Specification for Resistance Brazing (revision of ANSI/AWS C3.9M/C3.9-2008)

CTA (Consumer Technology Association)

Contact: Veronica Lancaster
Phone: (703) 907-7697
E-mail: vlancaster@cta.tech
Office: 1919 South Eads Street
 Arlington, VA 22202

BSR/CTA 2045-B-202x, Modular Communications Interface for Energy Management (reaffirmation and redesignation of ANSI/CTA 2045-A-2018)

FCI (Fluid Controls Institute)

Contact: Leslie Schraff
Phone: (216) 241-7333
E-mail: fci@fluidcontrolsinstitute.org
Office: 1300 Sumner Avenue
 Cleveland, OH 44115

BSR/FCI 19-1-202x, Standard for Sizing and Selection of Type 2 Secondary Pressure Drainers (new standard)

BSR/FCI 20-1-202x, Standard for Performance Testing Strainers for Liquid Service (new standard)

ISA (International Society of Automation)

Contact: Charles Robinson
Phone: (919) 990-9213
E-mail: crobinson@isa.org
Office: 67 Alexander Drive
 Research Triangle Park, NC 27709

BSR/ISA 95.00.06-202x, Enterprise-Control System Integration - Part 6: Messaging Service Model (revision of ANSI/ISA 95.00.06-2014)

BSR/ISA 101.01-202x, Human Machine Interfaces for Process Automation Systems (revision of ANSI/ISA 101.01-2015)

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

Contact: Deborah Spittle
Phone: (202) 737-8888
E-mail: comments@standards.incits.org
Office: 700 K Street NW
 Suite 600
 Washington, DC 20001

INCITS/ISO/IEC 27701:2019, Security techniques - Extension to ISO/IEC 27001 and ISO/IEC 27002 for privacy information management - Requirements and guidelines (identical national adoption of ISO/IEC 27701:2019)

NSF (NSF International)

Contact: Monica Leslie
Phone: (734) 827-5643
E-mail: mleslie@nsf.org
Office: 789 N. Dixboro Road
 Ann Arbor, MI 48105-9723

BSR/NSF/CAN 61-202x (i153r1), Drinking Water System Components - Health Effects (revision of ANSI/NSF/CAN 61-2019)

UL (Underwriters Laboratories, Inc.)

Contact: Jennifer Fields
Phone: (919) 549-1007
E-mail: jennifer.fields@ul.org
Office: 12 Laboratory Dr.
 Research Triangle Park, NC 27709

BSR/UL 3300-202x, Standard for Safety for Service, Communication, Information, Entertainment and Education Robots, General Requirements (new standard)

Contact: Paul Lloret
Phone: (510) 319-4269
E-mail: Paul.E.Lloret@ul.org
Office: 47173 Benicia Street
Fremont, CA 94538

BSR/UL 2075-202x, Standard for Safety for Gas and Vapor Detectors
and Sensors (revision of ANSI/UL 2075-2017)

VITA (VMEbus International Trade Association (VITA))

Contact: Jing Kwok
Phone: (602) 281-4497
E-mail: jing.kwok@vita.com
Office: 929 W. Portobello Avenue
Mesa, AZ 85210

BSR/VITA 30.1-2008 (S202x), 2mm Connector Practice on Conduction
Cooled Euroboards (stabilized maintenance of ANSI/VITA 30.1-2008
(R2014))

BSR/VITA 48.7-2014 (R202x), Mechanical Standard for Electronic Plug-
in Units using Air Flow-by Cooling Technology (reaffirmation of
ANSI/VITA 48.7-2014)

BSR/VITA 58.0-2009 (S202x), Line Replaceable Integrated Electronics
Chassis Standard (stabilized maintenance of ANSI/VITA 58.0-2009
(R2014))

BSR/VITA 61-202x, XMC 2.0 (revision of ANSI/VITA 61.0-2014)

BSR/VITA 68.2-202x, VPX Standard S-Parameter Definition (new
standard)

Call for Members (ANS Consensus Bodies)

Call for Committee Members

ASC O1 – Safety Requirements for Woodworking Machinery

Are you interested in contributing to the development and maintenance of valuable industry safety standards? The ASC O1 is currently looking for members in the following categories:

- General Interest
- Government
- Producer
- User

If you are interested in joining the ASC O1, contact WMMA Associate Director Jennifer Miller at jennifer@wmma.org.

Final Actions on American National Standards

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

AAMI (Association for the Advancement of Medical Instrumentation)

New National Adoption

ANSI/AAMI/ISO 11138-7-2019, Sterilization of health care products - Biological indicators - Part 7: Guidance for the selection, use, and interpretation of results (identical national adoption of ISO 11138-7:2019): 11/21/2019

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

Addenda

ANSI/ASRHAE/ICC/USGBC/IES Addendum ad to ANSI/ASRHAE/ICC/USGBC/IES Standard 189.1-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017): 11/4/2019

ANSI/ASRHAE/ICC/USGBC/IES Addendum ag to ANSI/ASRHAE/ICC/USGBC/IES Standard 189.1-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017): 11/4/2019

ANSI/ASRHAE/ICC/USGBC/IES Addendum al to ANSI/ASRHAE/ICC/USGBC/IES Standard 189.1-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017): 11/4/2019

ANSI/ASRHAE/ICC/USGBC/IES Addendum am to ANSI/ASRHAE/ICC/USGBC/IES Standard 189.1-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017): 11/4/2019

ANSI/ASRHAE/ICC/USGBC/IES Addendum k to ANSI/ASRHAE/ICC/USGBC/IES Standard 189.1-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017): 11/4/2019

ANSI/ASRHAE/ICC/USGBC/IES Addendum n to ANSI/ASRHAE/ICC/USGBC/IES Standard 189.1-2019, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017): 11/4/2019

ANSI/ASRHAE/ICC/USGBC/IES Addendum y to ANSI/ASRHAE/ICC/USGBC/IES Standard 189.1-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017): 11/4/2019

ASME (American Society of Mechanical Engineers)

Revision

ANSI/ASME B30.27-2019, Material Placement Systems (revision of ANSI/ASME B30.27-2014): 11/20/2019

ASTM (ASTM International)

New Standard

ANSI/ASTM WK69493 (F2747)-2019, Reinstatement of F2747-10 Standard Guide for Construction of Sand-Based Rootzones for Golf Putting Greens and Tees (new standard): 11/5/2019

AWWA (American Water Works Association)

Revision

ANSI/AWWA C701-2019, Cold-Water Meters - Turbine Type, for Customer Service (revision of ANSI/AWWA C701-2015): 11/21/2019

ANSI/AWWA C702-2019, Cold-Water Meters - Compound Type (revision of ANSI/AWWA C702-2015): 11/21/2019

ANSI/AWWA C703-2019, Cold-Water Meters - Fire-Service Type (revision of ANSI/AWWA C703-2015): 11/21/2019

ANSI/AWWA C704-2019, Propeller-Type Meters for Waterworks Applications (revision of ANSI/AWWA C704-2015): 11/21/2019

ANSI/AWWA C708-2019, Cold-Water Meters - Multijet Type (revision of ANSI/AWWA C708-2015): 11/21/2019

ANSI/AWWA C712-2019, Cold-Water Meters - Singlejet Type (revision of ANSI/AWWA C712-2015): 11/21/2019

ANSI/AWWA C713-2019, Cold-Water Meters - Fluidic-Oscillator Type (revision of ANSI/AWWA C713-2015): 11/21/2019

FCI (Fluid Controls Institute)

Revision

ANSI/FCI 85-1-2019, Standard for Production Testing of Steam Traps (revision of ANSI/FCI 85-1-2011): 11/21/2019

IES (Illuminating Engineering Society)

New Standard

ANSI/IES LM-75-2019, Approved Method: IES Guide to Goniometer Measurements and Types, and Photometric Coordinate Systems (new standard): 11/22/2019

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

New National Adoption

INCITS/ISO 19115-2:2019 [2019], Geographic information - Metadata - Part 2: Extensions for acquisition and processing (identical national adoption of ISO 19115-2:2019 and revision of INCITS/ISO 19115-2:2009 [R2014]): 11/22/2019

- INCITS/ISO 19112:2019 [2019], Geographic information - Spatial referencing by geographic identifiers (identical national adoption of ISO 19112:2019 and revision of INCITS/ISO 19112:2003 [R2014]): 11/22/2019
- INCITS/ISO/IEC 7811-7:2018 [2019], Identification cards - Recording technique - Part 7: Magnetic stripe: High coercivity, high density (identical national adoption of ISO/IEC 7811-7:2018 and revision of INCITS/ISO/IEC 7811-7:2014): 11/21/2019
- INCITS/ISO/IEC 7816-6:2016 [2019], Identification cards - Integrated circuit cards - Part 6: Interindustry data elements for interchange (identical national adoption of ISO/IEC 7816-6:2016 and revision of INCITS/ISO/IEC 7816-6:2004 [R2014]): 11/21/2019
- INCITS/ISO/IEC 7816-8:2016 [2019], Identification cards - Integrated circuit cards - Part 8: Commands and mechanisms for security operations (identical national adoption of ISO/IEC 7816-8:2016 and revision of INCITS/ISO/IEC 7816-8:2004 [R2014]): 11/21/2019
- INCITS/ISO/IEC 7816-9:2017 [2019], Identification cards - Integrated circuit cards - Part 9: Commands for card management (identical national adoption of ISO/IEC 7816-9:2017 and revision of INCITS/ISO/IEC 7816-9:2004 [R2014]): 11/21/2019
- INCITS/ISO/IEC 7816-11:2017 [2019], Identification cards - Integrated circuit cards - Part 11: Personal verification through biometric methods (identical national adoption of ISO/IEC 7816-11:2017 and revision of INCITS/ISO/IEC 7816-11:2004 [R2014]): 11/21/2019
- INCITS/ISO/IEC 7816-15:2016 [2019], Identification cards - Integrated circuit cards - Part 15: Cryptographic information application (identical national adoption of ISO/IEC 7816-15:2016 and revision of INCITS/ISO/IEC 7816-15:2004 [R2014], INCITS/ISO/IEC 7816-15:2004/AM 2:2008 [R2016], and INCITS/ISO/IEC 7816-15:2004/AM 1:2007 [R2016]): 11/21/2019
- INCITS/ISO/IEC 8824-1:2015 [2019], Information technology - Abstract Syntax Notation One (ASN.1): Specification of basic notation (identical national adoption of ISO/IEC 8824-1:2015 and revision of INCITS/ISO/IEC 8824-1:2008 [2014]): 11/22/2019
- INCITS/ISO/IEC 8824-2:2015 [2019], Information technology - Abstract Syntax Notation One (ASN.1): Information object specification (identical national adoption of ISO/IEC 8824-2:2015 and revision of INCITS/ISO/IEC 8824-2:2008 [2014]): 11/22/2019
- INCITS/ISO/IEC 8824-3:2015 [2019], Information technology - Abstract Syntax Notation One (ASN.1): Constraint specification (identical national adoption of ISO/IEC 8824-3:2015 and revision of INCITS/ISO/IEC 8824-3:2008 [2014]): 11/22/2019
- INCITS/ISO/IEC 8824-4:2015 [2019], Information technology - Abstract Syntax Notation One (ASN.1): Parameterization of ASN.1 specifications (identical national adoption of ISO/IEC 8824-4:2015 and revision of INCITS/ISO/IEC 8824-4:2008 [2014]): 11/22/2019
- INCITS/ISO/IEC 8825-1:2015 [2019], Information technology - ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER) (identical national adoption of ISO/IEC 8825-1:2015 and revision of INCITS/ISO/IEC 8825-1:2008 [2014]): 11/22/2019
- INCITS/ISO/IEC 8825-2:2015 [2019], Information technology - ASN.1 encoding rules: Specification of Packed Encoding Rules (PER) (identical national adoption of ISO/IEC 8825-2:2015 and revision of INCITS/ISO/IEC 8825-2:2008 [2014]): 11/22/2019
- INCITS/ISO/IEC 8825-3:2015 [2019], Information technology - ASN.1 encoding rules: Specification of Encoding Control Notation (ECN) (identical national adoption of ISO/IEC 8825-3:2015 and revision of INCITS/ISO/IEC 8825-3:2008 [2014]): 11/22/2019
- INCITS/ISO/IEC 8825-4:2015 [2019], Information technology - ASN.1 encoding rules: XML Encoding Rules (XER) (identical national adoption of ISO/IEC 8825-4:2015 and revision of INCITS/ISO/IEC 8825-4:2008 [2014]): 11/22/2019
- INCITS/ISO/IEC 9798-3:2019 [2019], IT Security techniques - Entity authentication - Part 3: Mechanisms using digital signature techniques (identical national adoption of ISO/IEC 9798-3:2019 and revision of INCITS/ISO/IEC 9798-3:1998 [R2014]): 11/22/2019
- INCITS/ISO/IEC 10118-1:2016 [2019], Information technology - Security techniques - Hash-functions - Part 1: General (identical national adoption of ISO/IEC 10118-1:2016 and revision of INCITS/ISO/IEC 10118-1:2000 [R2014]): 11/22/2019
- INCITS/ISO/IEC 10118-3:2018 [2019], IT Security techniques - Hash-functions - Part 3: Dedicated hash-functions (identical national adoption of ISO/IEC 10118-3:2018 and revision of INCITS/ISO/IEC 10118-3:2004 [R2014], INCITS/ISO/IEC 10118-3:2004/AM1:2006 [R2014]): 11/22/2019
- INCITS/ISO/IEC 11770-2:2018 [2019], IT Security techniques -- Key management -- Part 2: Mechanisms using symmetric techniques (identical national adoption of ISO/IEC 11770-2:2018 and revision of INCITS/ISO/IEC 11770-2:2008 [R2014]): 11/22/2019
- INCITS/ISO/IEC 11889-1:2015 [2019], Information technology - Trusted platform module library - Part 1: Architecture (identical national adoption of ISO/IEC 11889-1:2015 and revision of INCITS/ISO/IEC 11889-1:2009 [R2014]): 11/22/2019
- INCITS/ISO/IEC 11889-2:2015 [2019], Information technology - Trusted Platform Module Library - Part 2: Structures (identical national adoption of ISO/IEC 11889-2:2015 and revision of INCITS/ISO/IEC 11889-2:2009 [R2014]): 11/22/2019
- INCITS/ISO/IEC 11889-3:2015 [2019], Information technology - Trusted Platform Module Library - Part 3: Commands (identical national adoption of ISO/IEC 11889-3:2015 and revision of INCITS/ISO/IEC 11889-3:2009 [R2014]): 11/22/2019
- INCITS/ISO/IEC 11889-4:2015 [2019], Information technology - Trusted Platform Module Library - Part 4: Supporting Routines (identical national adoption of ISO/IEC 11889-4:2015 and revision of INCITS/ISO/IEC 11889-4:2009 [R2014]): 11/22/2019
- INCITS/ISO/IEC 13818-1:2019 [2019], Information technology - Generic coding of moving pictures and associated audio information - Part 1: Systems (identical national adoption of ISO/IEC 13818-1:2019 and revision of INCITS/ISO/IEC 13818-1:2013 [2014]): 11/22/2019
- INCITS/ISO/IEC 14496-11:2015 [2019], Information technology - Coding of audio-visual objects - Part 11: Scene description and application engine (identical national adoption of ISO/IEC 14496-11:2015 and revision of INCITS/ISO/IEC 14496-11:2005 [R2014] and INCITS/ISO/IEC 14496-11:2005/AM5:2007 [R2014]): 11/22/2019
- INCITS/ISO/IEC 14496-12:2015 [2019], Information technology - Coding of audio-visual objects - Part 12: ISO base media file format (identical national adoption of ISO/IEC 14496-12:2015 and revision of INCITS/ISO/IEC 14496-12:2012 [2014]): 11/22/2019

INCITS/ISO/IEC 14496-15:2017 [2019], 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 (identical national adoption of ISO/IEC 14496-15:2017 and revision of INCITS/ISO/IEC 14496-15:2014 [2014]): 11/22/2019

INCITS/ISO/IEC 14496-22:2019 [2019], Information technology - Coding of audio-visual objects - Part 22: Open Font Format (identical national adoption of ISO/IEC 14496-22:2019 and revision of INCITS/ISO/IEC 14496-22:2009 [2014]): 11/22/2019

INCITS/ISO/IEC 15444-1:2016 [2019], Information technology - JPEG 2000 image coding system: Core coding system (identical national adoption of ISO/IEC 15444-1:2016 and revision of INCITS/ISO/IEC 15444-1:2004 [R2015], INCITS/ISO/IEC 15444-1:2004/AM1:2006 [R2014]): 11/22/2019

INCITS/ISO/IEC 15444-5:2015 [2019], Information technology - JPEG 2000 image coding system: Reference software (identical national adoption of ISO/IEC 15444-5:2015 and revision of INCITS/ISO/IEC 15444-5:2003 [R2014] and INCITS/ISO/IEC 15444-5:2003/AM1:2003 [R2014]): 11/22/2019

INCITS/ISO/IEC 18013-1:2018 [2019], Information technology - Personal identification - ISO-compliant driving license - Part 1: Physical characteristics and basic data set (identical national adoption of ISO/IEC 18013-1:2018 and revision of INCITS/ISO/IEC 18013-1:2005 [R2014]): 11/21/2019

INCITS/ISO/IEC 18041-4:2016 [2019], Information technology - Computer graphics, image processing and environmental data representation - Environmental Data Coding Specification (EDCS) language bindings - Part 4: C (identical national adoption of ISO/IEC 18041-4:2016 and revision of INCITS/ISO/IEC 18041-4:2007 [R2014]): 11/22/2019

INCITS/ISO/IEC 19776-2:2015 [2019], Information technology - Computer graphics, image processing and environmental data representation - Extensible 3D (X3D) encodings - Part 2: Classic VRML encoding (identical national adoption of ISO/IEC 19776-2:2015 and revision of INCITS/ISO/IEC 19776-2:2008 [R2014]): 11/22/2019

INCITS/ISO/IEC 24709-1:2017 [2019], Information technology - Conformance testing for the biometric application programming interface (BioAPI) - Part 1: Methods and procedures (identical national adoption of ISO/IEC 24709-1:2017 and revision of INCITS/ISO/IEC 24709-1:2007 [R2014]): 11/22/2019

INCITS/ISO/IEC 24752-1:2014 [2019], Information technology - User interfaces - Universal remote console - Part 1: General framework (identical national adoption of ISO/IEC 24752-1:2014 and revision of INCITS/ISO/IEC 24752-1:2008 [R2014]): 11/22/2019

INCITS/ISO/IEC 24752-2:2014 [2019], Information technology - User interfaces - Universal remote console - Part 2: User interface socket description (identical national adoption of ISO/IEC 24752-2:2014 and revision of INCITS/ISO/IEC 24752-2:2008 [R2014]): 11/22/2019

INCITS/ISO/IEC 24752-4:2014 [2019], Information technology - User interfaces - Universal remote console - Part 4: Target description (identical national adoption of ISO/IEC 24752-4:2014 and revision of INCITS/ISO/IEC 24752-4:2008 [R2014]): 11/22/2019

INCITS/ISO/IEC 24752-5:2014 [2019], Information technology - User interfaces - Universal remote console - Part 5: Resource description (identical national adoption of ISO/IEC 24752-5:2014 and revision of INCITS/ISO/IEC 24752-5:2008 [R2014]): 11/22/2019

INCITS/ISO/IEC 29109-5:2019 [2019], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 5: Face image data (identical national adoption of ISO/IEC 29109-5:2019 and revision of INCITS/ISO/IEC 29109-5:2014 [2014]): 11/22/2019

INCITS/ISO/IEC 14492:2019 [2019], Information technology - Lossy/lossless coding of bi-level images (identical national adoption of ISO/IEC 14492:2019 and revision of INCITS/ISO/IEC 14492:2001 [R2017], INCITS/ISO/IEC 14492:2001/AM1:2004 [R2014], and INCITS/ISO/IEC 14492:2001/AM2:2003 [R2014]): 11/22/2019

INCITS/ISO/IEC 15414:2015 [2019], Information technology - Open distributed processing - Reference model - Enterprise language (identical national adoption of ISO/IEC 15414:2015 and revision of INCITS/ISO/IEC 15414:2006 [R2014]): 11/22/2019

INCITS/ISO/IEC 16963:2017 [2019], Information technology - Digitally recorded media for information interchange and storage - Test method for the estimation of lifetime of optical disks for long-term data storage (identical national adoption of ISO/IEC 16963:2017 and revision of INCITS/ISO/IEC 16963:2011 [2014]): 11/22/2019

INCITS/ISO/IEC 27011:2016 [2019], Information technology - Security techniques - Code of practice for Information security controls based on ISO/IEC 27002 for telecommunications organizations (identical national adoption of ISO/IEC 27011:2016 and revision of INCITS/ISO/IEC 27011:2008 [R2014]): 11/22/2019

INCITS/ISO/IEC 29121:2018 [2019], Information technology - Digitally recorded media for information interchange and storage - Data migration method for optical disks for long-term data storage (identical national adoption of ISO/IEC 29121:2018 and revision of INCITS/ISO/IEC 29121:2013 [2014]): 11/22/2019

Reaffirmation

INCITS/ISO 19115-1:2014 [R2019], Geographic information - Metadata - Part 1: Fundamentals (reaffirm a national adoption INCITS/ISO 19115-1:2014 [2014]): 11/22/2019

INCITS/ISO 6936:1988 [R2019], Information Processing - Conversion between the Two Coded Character Sets of ISO 646 and ISO 6937-2 and the CCITT International Telegraph Alphabet No. 2 (ITA 2) (reaffirm a national adoption INCITS/ISO 6936:1988 [R2014]): 11/22/2019

INCITS/ISO 19157:2013 [R2019], Geographic information - Data quality (reaffirm a national adoption INCITS/ISO 19157:2013 [2014]): 11/22/2019

INCITS/ISO/IEC 6523-1:1998 [R2019], Information technology - Structure for the identification of organizations and organization parts - Part 1: Identification of organization identification schemes (reaffirm a national adoption INCITS/ISO/IEC 6523-1:1998 [R2014]): 11/21/2019

INCITS/ISO/IEC 6523-2:1998 [R2019], Information technology - Structure for the identification of organizations and organization parts - Part 2: Registration of organization identification schemes (reaffirm a national adoption INCITS/ISO/IEC 6523-2:1998 [R2014]): 11/21/2019

INCITS/ISO/IEC 7501-1:2008 [R2019], Identification cards - Machine readable travel documents - Part 1: Machine readable passport (reaffirm a national adoption INCITS/ISO/IEC 7501-1:2008 [R2014]): 11/22/2019

INCITS/ISO/IEC 7501-3:2005 [R2019], Identification cards - Machine readable travel documents - Part 3: Machine readable official travel documents (reaffirm a national adoption INCITS/ISO/IEC 7501-3:2005 [R2014]): 11/22/2019

- INCITS/ISO/IEC 7816-1:2011 [R2019], Identification cards - Integrated circuit (s) cards with contacts - Part 1: Physical characteristics (reaffirm a national adoption INCITS/ISO/IEC 7816-1:2011 [2014]): 11/22/2019
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INCITS/ISO/IEC 13240:2001/COR1:2003 [R2019], Information technology - Document description and processing languages - Interchange Standard for Multimedia Interactive Documents (ISMID) - Corrigendum 1 (reaffirm a national adoption INCITS/ISO/IEC 13240:2001/COR1:2003 [R2014]): 11/21/2019

Stabilized Maintenance

INCITS/ISO/IEC 10149:1995 [S2019], Information Technology - Data Interchange on Read-Only 120 mm Optical Data Disks (CD-ROM) (stabilized maintenance of INCITS/ISO/IEC 10149:1995 [R2014]): 11/22/2019

INCITS/ISO/IEC 11976:2008 [S2019], Information technology - Data interchange on 130 mm rewritable and write-once-read-many ultra density optical (UDO) disk cartridges - Capacity: 60 Gbytes per cartridge - Second generation (stabilized maintenance of INCITS/ISO/IEC 11976:2008 [R2014]): 11/22/2019

Withdrawal

INCITS/ISO 19153:2014 [2014], Geospatial Digital Rights Management Reference Model (GeoDRM RM) (withdrawal of INCITS/ISO 19153:2014 [2014]): 11/22/2019

INCITS/ISO/IEC 11179-2:2005 [R2014], Information technology - Metadata registries (MDR) - Part 2: Classification (withdrawal of INCITS/ISO/IEC 11179-2:2005 [R2014]): 11/22/2019

INCITS/ISO/IEC 15444-12:2012 [2014], Information technology - JPEG 2000 image coding system - Part 12: ISO base media file format (withdrawal of INCITS/ISO/IEC 15444-12:2012 [2014]): 11/22/2019

INCITS/ISO/IEC 19784-2:2007 [R2018], Information technology - Biometric application programming interface - Part 2: Biometric archive function provider interface (withdrawal of INCITS/ISO/IEC 19784-2:2007 [R2018]): 11/21/2019

INCITS/ISO/IEC 19784-2:2007/COR 1:2011 [R2018], Information technology - Biometric application programming interface - Part 2: Biometric archive function provider interface - Technical Corrigendum 1 (withdrawal of INCITS/ISO/IEC 19784-2:2007/COR 1:2011 [R2018]): 11/21/2019

INCITS/ISO/IEC 19784-2:2007/COR 2:2013 [2014], Information technology - Biometric application programming interface - Part 2: Biometric archive function provider interface - Technical Corrigendum 2 (withdrawal of INCITS/ISO/IEC 19784-2:2007/COR 2:2013 [2014]): 11/21/2019

INCITS/ISO/IEC 19794-5:2005/AM 1:2007 [R2014], Information technology - Biometric data interchange formats - Part 5: Face image data - Amendment 1: Face Image Data on Conditions for taking photographs (withdrawal of INCITS/ISO/IEC 19794-5:2005/AM 1:2007 [R2014]): 11/21/2019

INCITS/ISO/IEC 19794-5:2005/COR 1:2008 [R2014], Information technology - Biometric data interchange formats - Part 5: Face image data - Technical Corrigendum 1 (withdrawal of INCITS/ISO/IEC 19794-5:2005/COR 1:2008 [R2014]): 11/21/2019

INCITS/ISO/IEC 19794-5:2005/COR 2:2008 [R2014], Information technology - Biometric data interchange formats - Part 5: Face image data - Technical Corrigendum 2 (withdrawal of INCITS/ISO/IEC 19794-5:2005/COR 2:2008 [R2014]): 11/21/2019

INCITS/ISO/IEC 19794-5:2005/AM 2:2009 [R2015], Information technology - Biometric data interchange formats - Part 5: Face image data - Amendment 2 (withdrawal of INCITS/ISO/IEC 19794-5:2005/AM 2:2009 [R2015]): 11/21/2019

INCITS/ISO/IEC 19794-5:2005/COR 3:2013 [R2018], Information technology - Biometric data interchange formats - Part 5: Face image data - Technical Corrigendum 3 (withdrawal of INCITS/ISO/IEC 19794-5:2005/COR 3:2013 [R2018]): 11/21/2019

INCITS/ISO/IEC 24709-2:2007 [R2014], Information technology - Conformance testing for the biometric application programming interface (BioAPI) - Part 2: Test assertions for biometric service providers (withdrawal of INCITS/ISO/IEC 24709-2:2007 [R2014]): 11/21/2019

INCITS/ISO/IEC 24708:2008 [R2014], Information technology - Biometrics - BioAPI Interworking Protocol (withdrawal of INCITS/ISO/IEC 24708:2008 [R2014]): 11/21/2019

NFPA (National Fire Protection Association)

Revision

ANSI/NFPA 307-2021, Standard for the Construction and Fire Protection of Marine Terminals, Piers, and Wharves (revision of ANSI/NFPA 307-2016): 10/31/2019

NSF (NSF International)

Revision

ANSI/NSF/CAN 50-2019 (i159r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision and redesignation of ANSI/NSF 50-2017): 11/19/2019

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

New Standard

ANSI/SAIA A11.1-2019, Standard for Testing and Rating Scaffold Assemblies and Components (new standard): 11/21/2019

Project Initiation Notification System (PINS)

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

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

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

ASC X9 (Accredited Standards Committee X9, Incorporated)

Contact: Ambria Frazier, (410) 267-7707, Ambria.frazier@x9.org
275 West Street, Suite 107, Annapolis, MD 21401

New National Adoption

BSR X9.99-202x, Privacy Impact Assessment (identical national adoption of ISO 22307:2008 and revision of ANSI X9.99/ISO 22307-2009)

Stakeholders: Stakeholders include all X9 members and any non-X9 organizations offering services within the Financial Services industry.

Project Need: This work will address privacy areas not addressed by American National Standards for use within the USA and provide references to other American National Standards (e.g., X9.141) for privacy.

This International Standard recognizes that a privacy impact assessment (PIA) is an important financial services and banking management tool to be used within an organization, or by "contracted" third parties, to identify and mitigate privacy issues and risks associated with processing consumer data using automated, networked information systems. This International Standard describes the privacy impact assessment activity in general, defines the common and required components of a privacy impact assessment, regardless of business systems affecting financial institutions, and provides informative guidance to educate the reader on privacy impact assessments.

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

Contact: Steven Ferguson, (404) 636-8400, sferguson@ashrae.org
1791 Tullie Circle NE, Atlanta, GA 30329

New Standard

BSR/ASHRAE Standard 229-202x, Protocols for Evaluating Ruleset Implementation in Building Performance Modeling Software (new standard)

Stakeholders: Software developers, code officials at cities and states that enforce compliance via the PRM, organizations that use the PRM for beyond-code programs, energy modelers.

Project Need: Building Performance Modeling (BPM) software is commonly used to comply with building energy codes and standards as well as beyond code programs such as ASHRAE Standard 90.1, Performance Rating Method (Appendix G). These programs, codes, or standards include a set of rules which define the process for analyzing a user's building energy model to calculate the performance of the user's building design in comparison to a hypothetical-baseline building design as defined by the program, code, or standard. Many of these software programs implement these rulesets that take the user's building energy model and automatically modify it to create the proposed and baseline building energy model. This transformation process is complex and fraught with interpretation due to the complexity of the original standard. While ASHRAE Standard 140 tests some of the physics involved in building energy modeling, no standard acceptance list protocol exists for the implementation of the rulesets that are so fundamental to the compliance process. This proposed new standard will provide definitions, ruleset checklists, conformance conditions, reporting, data schema, automation procedures, and other requirements for certifying building energy modeling software that performs compliance analysis. Software tools used for compliance analysis would be required to verify the modeling approaches and results through the tests defined by this standard.

This standard establishes tests and acceptance criteria for implementation of rulesets (e.g., modeling rules) and related reporting in building-performance modeling software.

ASME (American Society of Mechanical Engineers)

Contact: Terrell Henry, (212) 591-8489, ansibox@asme.org
Two Park Avenue, M/S 6-2B, New York, NY 10016-5990

Revision

BSR/ASME HST-4-202x, Performance Standard for Overhead Electric Wire Rope Hoists (revision of ANSI/ASME HST-4-2016)

Stakeholders: Manufacturers, purchasers, and users of overhead electric wire-rope hoists.

Project Need: Update standard to reflect current industry practices and terminology clarifications.

(a) This Standard establishes performance requirements for electric wire rope hoists for vertical lifting service involving material handling of freely suspended (unguided) loads using wire rope with one of the following types of suspension:

- (1) lug;
- (2) hook;
- (3) trolley;
- (4) base or deck mounted;
- (5) wall or ceiling mounted;

(b) This Standard is applicable to hoists manufactured after the date on which this Standard is issued.;

(c) Hoists used for marine and other applications required by the Department of Defense (DOD) shall meet requirements specified in the non-mandatory Appendix A.

ASSP (Safety) (American Society of Safety Professionals)

Contact: Lauren Bauerschmidt, (847) 768-3475, LBauerschmidt@assp.org
520 N. Northwest Hwy, Park Ridge, IL 60068

Reaffirmation

BSR/ASSP Z244.1-2016 (R202x), Control of Hazardous Energy Lockout, Tagout and Alternative Methods (reaffirmation and redesignation of ANSI/ASSE Z244.1-2016)

Stakeholders: OSH professionals.

Project Need: Protecting workers from hazardous energy.

This standard covers machines, equipment, and processes in which the unexpected energization or start-up of the machines or equipment, release of stored energy or the actions of persons could result in harm. This standard establishes requirements for the control of hazardous energy associated with machines, equipment or processes that could cause harm to personnel. The standard specifies the use of lockout (primary method), tagout, or alternative methods to control hazardous energy associated with machines, equipment, or processes that could cause harm to personnel. This standard applies to activities such as erecting, installing, constructing, repairing, adjusting, inspecting, unjamming, set-up, testing, troubleshooting, cleaning, dismantling, servicing, and maintaining machines, equipment, or processes.

CTA (Consumer Technology Association)

Contact: Veronica Lancaster, (703) 907-7697, vlancaster@cta.tech
1919 South Eads Street, Arlington, VA 22202

Reaffirmation

BSR/CTA 2045-B-202x, Modular Communications Interface for Energy Management (reaffirmation and redesignation of ANSI/CTA 2045-A-2018)

Stakeholders: Consumers, manufacturers, utilities, service providers, retailers.

Project Need: To revise ANSI/CTA 2045-A.

This document is a specification for a modular communication interface. The specification details the mechanical, electrical, and logical characteristics of a socket interface that allows communication devices to be separated from end devices. Although the potential applications of this technology are wide-ranging, it is intended at a minimum to provide a means by which residential products may be able to work with any load management system through user installable plug-in communication modules. This specification identifies the physical and data-link characteristics of the interface, along with certain network- and application-layer elements as needed to assure interoperability over a broad range of device capabilities. In addition, it defines a mechanism through which application layer messages (defined in other standards) may be passed across the interface.

FCI (Fluid Controls Institute)

Contact: *Leslie Schraff, (216) 241-7333, fci@fluidcontrolsinstitute.org*
 1300 Sumner Avenue, Cleveland, OH 44115

New Standard

BSR/FCI 19-1-202x, Standard for Sizing and Selection of Type 2 Secondary Pressure Drainers (new standard)

Stakeholders: Manufacturers, users, and specifiers of secondary pressure drainers.

Project Need: The standard has been developed to provide manufacturers, users and specifiers of the products with uniform methods and requirements to conduct performance testing of secondary pressure drainers and to help define the information required for proper sizing and selection of Type-2 Secondary Pressure Drainers (SPD) within systems utilizing steam for heat transfer.

The purpose of this standard is to help define the information required for proper sizing and selection of Type-2 Secondary Pressure Drainers (SPD) within systems utilizing steam for heat transfer. With an understanding of this criteria, it can be applied to these types of systems to provide effective and proper condensate drainage. This is a necessary function of steam-using equipment to maintain consistent heat transfer in a safe environment.

BSR/FCI 20-1-202x, Standard for Performance Testing Strainers for Liquid Service (new standard)

Stakeholders: Manufacturers, users, and specifiers of pipeline strainers.

Project Need: To provide manufacturers, users, and specifiers with uniform methods and requirements to conduct performance testing of strainers.

The purpose of the standard is to provide uniform test procedures to determine the performance of strainers used in liquid service, in particular, the flow versus pressure-loss characteristics and the flow coefficient.

ISA (International Society of Automation)

Contact: *Charles Robinson, (919) 990-9213, crobinson@isa.org*
 67 Alexander Drive, Research Triangle Park, NC 27709

Revision

BSR/ISA 95.00.06-202x, Enterprise-Control System Integration - Part 6: Messaging Service Model (revision of ANSI/ISA 95.00.06-2014)

Stakeholders: All manufacturing and industrial processing sectors.

Project Need: Part of a continual effort to update the ISA-95 series of standards on enterprise-control system integration.

This part 6 standard defines a set of services that may be used to exchange information messages in a publish/subscribe mode and a request/response mode. It defines a minimal interface subset to message exchange systems.

BSR/ISA 101.01-202x, Human Machine Interfaces for Process Automation Systems (revision of ANSI/ISA 101.01-2015)

Stakeholders: All involved in developing or implementing process automation systems.

Project Need: To enhance the design, implementation, use, and management of human-machine interfaces in industrial process automation systems.

The standard provides a comprehensive overview of the key elements of human-machine interface for process automation systems, including menu hierarchies, screen navigation conventions, graphics and color conventions, dynamic elements, alarming conventions, security methods and electronic signature attributes, interfaces with background programming and historical databases, pop-up conventions, help screens and methods used to work with alarms, program object interfaces, and configuration interfaces to databases, servers, and networks.

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

Contact: *Deborah Spittle, (202) 737-8888, comments@standards.incits.org*
 700 K Street NW, Suite 600, Washington, DC 20001

New National Adoption

INCITS/ISO/IEC 27701:2019, Security techniques - Extension to ISO/IEC 27001 and ISO/IEC 27002 for privacy information management - Requirements and guidelines (identical national adoption of ISO/IEC 27701:2019)

Stakeholders: ICT industry.

Project Need: Adoption of this international standard is beneficial to the ICT industry.

Specifies requirements and provides guidance for establishing, implementing, maintaining, and continually improving a Privacy Information Management System (PIMS) in the form of an extension to ISO/IEC 27001 and ISO/IEC 27002 for privacy management within the context of the organization. Specifies PIMS-related requirements and provides guidance for PII controllers and PII processors holding responsibility and accountability for PII processing. Applicable to all types and sizes of organizations, including public and private companies, government entities and not-for-profit organizations, which are PII controllers and/or PII processors processing PII within an ISMS.

NEMA (ASC C37) (National Electrical Manufacturers Association)

Contact: Gerard Winstanley, (703) 841-3231, Gerard.Winstanley@nema.org
1300 North 17th Street, Suite 900, Rosslyn, VA 22209

Revision

BSR C37.54-201x, Standard for Alternating Current High-Voltage Circuit Breakers Applied in Metal-Enclosed Switchgear Conformance Test Procedures (revision of ANSI C37.54-2003 (R2010))

Stakeholders: Utilities, manufacturers, users, contractors.

Project Need: Update the existing standard for current industry practices.

When conformance tests are required, this standard specifies tests to demonstrate that the circuit breaker being tested conforms with the requirements and ratings defined in accordance with ANSI/IEEE C37.04. The preferred ratings listed are designated values but are not to be considered restrictive; however, the requirements given are restrictive. Conformance testing may be performed in conjunction with the basic design testing, if agreeable to those concerned; however, conformance testing is more likely to be performed to satisfy a special need, sometime after original development. As a requirement of conformance testing, the circuit breaker shall have completed the design testing requirements of ANSI/IEEE C37.09. If ANSI/IEEE C37.09 tests have not been previously performed, the tests required by ANSI/IEEE C37.09 beyond tests described by this standard may be performed concurrently with conformance testing..

UL (Underwriters Laboratories, Inc.)

Contact: Jennifer Fields, (919) 549-1007, jennifer.fields@ul.org
12 Laboratory Dr., Research Triangle Park, NC 27709

New Standard

BSR/UL 3300-202x, Standard for Safety for Service, Communication, Information, Entertainment and Education Robots, General Requirements (new standard)

Stakeholders: Manufacturers of robots and their supply chains, government regulators, trade groups, and end users.

Project Need: To obtain national recognition of a standard covering the safety of the robotic function of Service, Communication, Information, Entertainment and Education (SCIEE) Robots. This is a growing area of technology with emerging potential risks that need to be continuously addressed to ensure public safety while allowing advancement to continue unhindered.

These requirements cover the safety of the robotic function of Service, Communication, Information, Entertainment and Education (SCIEE) robots. These requirements supplement the safety requirements for the intended, non-robotic product function as described in the relevant identified standard(s) and, where applicable, cover robotics intended for indoor and outdoor use. The scope includes service robots intended for commercial use applications where ongoing operation of the robot does not require instructed or skilled person intervention during operation. These requirements do not cover:

- Robots intended to treat, alleviate instability, or move individuals in hospitals, care facilities, or in the home;
- Robots operated exclusively for industrial purposes or in hazardous locations;
- Material-handling robots for use in restricted environments;
- Robots for on- or off-road transport of persons;
- Robots intended for use in a food establishment except where the robot serves as a conveyance to directly relinquish food to the consumer;
- Robots for which safety of the robotic function is described in the relevant end-product safety standard. Examples of such Standards include ANSI/CSA C22.2 No. 336, Particulate requirements for rechargeable battery-operated commercial robotic floor treatment machines with traction drives, and UL 1017, Standard for Vacuum Cleaners, Blower Cleaners, and Household Floor Finishing Machines;
- Robots identified as a toy by the manufacturer and intended use by children for play only by UL 696, Standard for Electric Toys and/or ASTM F963, Standard Consumer Safety Specification for Toy Safety; and
- Robots intended for use as personnel protective equipment.

VITA (VMEbus International Trade Association (VITA))

Contact: *Jing Kwok, (602) 281-4497, jing.kwok@vita.com*
929 W. Portobello Avenue, Mesa, AZ 85210

New Standard

BSR/VITA 68.2-202x, VPX Standard S-Parameter Definition (new standard)

Stakeholders: Manufacturers and users of embedded VPX modules.

Project Need: Specify electrical requirements for serial fabrics on VPX modules.

VITA 68.2 is a dot specification based off of VITA 68 family of standards for signal integrity compliance of VPX systems and components. VITA 68.2 leverages [VITA 68.0]S-parameter definition and expands upon how the S-parameters are formatted and named to help system integrators easily take multiple vendor S-parameters, concatenate them together to analyze an entire channel from one Plug-In Module to another Plug-In Module.

Revision

BSR/VITA 61-202x, XMC 2.0 (revision of ANSI/VITA 61.0-2014)

Stakeholders: Manufacturers and users of embedded XMC modules.

Project Need: Provide alternative connector for XMC modules.

This specification, based highly upon VITA 42.0 XMC, defines an open standard for supporting high-speed, switched interconnect protocols on an existing, widely deployed form factor, but utilizing an alternate, ruggedized, high-speed mezzanine interconnect known as VITA 61 XMC 2.0.

American National Standards Maintained 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-AGRSS (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)**
- **IES (Illuminating Engineering Society)**
- **ITI (InterNational Committee for Information Technology Standards)**
- **MHI (Material Handling Industry)**
- **NAHBRC (NAHB Research Center, Inc.)**
- **NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)**
- **NCPDP (National Council for Prescription Drug Programs)**
- **NEMA (National Electrical Manufacturers Association)**
- **NISO (National Information Standards Organization)**
- **NSF (NSF International)**
- **PRCA (Professional Ropes Course Association)**
- **RESNET (Residential Energy Services Network, Inc.)**
- **SAE (SAE International)**
- **TCNA (Tile Council of North America)**
- **TIA (Telecommunications Industry Association)**
- **UL (Underwriters Laboratories, Inc.)**

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 "Standards Activities," click on "Public Review and Comment" and "American National Standards Maintained Under Continuous Maintenance." This information is also available directly at www.ansi.org/publicreview

Alternatively, you may contact the Procedures & Standards Administration department (PSA) at psa@ansi.org or via fax at 212-840-2298. If you request that information be provided via E-mail, please include your E-mail address; if you request that information be provided via fax, please include your fax number. Thank you.

ANSI-Accredited Standards Developers Contact Information

The addresses listed in this section are to be used in conjunction with standards listed in PINS, Call for Comment 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 Standards Action Editor at standact@ansi.org.

<p>AAFS American Academy of Forensic Sciences 410 North 21st Street Colorado Springs, CO 80904 Phone: (719) 453-1036 Web: www.aafs.org</p>	<p>ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. 1791 Tullie Circle NE Atlanta, GA 30329 Phone: (404) 636-8400 Web: www.ashrae.org</p>	<p>CTA Consumer Technology Association 1919 South Eads Street Arlington, VA 22202 Phone: (703) 907-7697 Web: www.cta.tech</p>	<p>NEMA (ASC C37) National Electrical Manufacturers Association 1300 North 17th Street Suite 900 Rosslyn, VA 22209 Phone: (703) 841-3231 Web: www.nema.org</p>
<p>AAMI Association for the Advancement of Medical Instrumentation 901 N. Glebe Road, Suite 300 Arlington, VA 22203 Phone: (703) 253-8263 Web: www.aami.org</p>	<p>ASME American Society of Mechanical Engineers Two Park Avenue M/S 6-2B New York, NY 10016-5990 Phone: (212) 591-8489 Web: www.asme.org</p>	<p>FCI Fluid Controls Institute 1300 Sumner Avenue Cleveland, OH 44115 Phone: (216) 241-7333 Web: www.fluidcontrolsintstitute.org</p>	<p>NFPA National Fire Protection Association One Batterymarch Park Quincy, MA 02269-9101 Phone: (617) 984-7248 Web: www.nfpa.org</p>
<p>AMCI AMC Institute 908 King Street Suite 320 Alexandria, VA 22314 Phone: (703) 570-8954 Web: www.amcinstitute.org</p>	<p>ASSP (Safety) American Society of Safety Professionals 520 N. Northwest Hwy Park Ridge, IL 60068 Phone: (847) 768-3475 Web: www.assp.org</p>	<p>HL7 Health Level Seven 3300 Washtenaw Avenue Suite 227 Ann Arbor, MI 48104 Phone: (734) 677-7777 Web: www.hl7.org</p>	<p>NSF NSF International 789 N. Dixboro Road Ann Arbor, MI 48105-9723 Phone: (734) 418-6660 Web: www.nsf.org</p>
<p>ANS American Nuclear Society 555 North Kensington Avenue La Grange Park, IL 60526 Phone: (708) 579-8268 Web: www.ans.org</p>	<p>ASTM ASTM International 100 Barr Harbor Drive West Conshohocken, PA 19428-2959 Phone: (610) 832-9744 Web: www.astm.org</p>	<p>IEEE Institute of Electrical and Electronics Engineers 445 Hoes Lane Piscataway, NJ 08854 Phone: (732) 562-3854 Web: www.ieee.org</p>	<p>RESNET Residential Energy Services Network, Inc. 4867 Patina Court Oceanside, CA 92057 Phone: (760) 408-5860 Web: www.resnet.us.com</p>
<p>API American Petroleum Institute 1220 L Street, NW Washington, DC 20005 Phone: (202) 682-8130 Web: www.api.org</p>	<p>AWS American Welding Society 8669 Doral Blvd Suite 130 Doral, FL 33166 Phone: (800) 443-9353 Web: www.aws.org</p>	<p>IES Illuminating Engineering Society 120 Wall Street, Floor 17 New York, NY 10005 Phone: (917) 913-0027 Web: www.ies.org</p>	<p>SAIA (ASC A11) Scaffold & Access Industry Association 400 Admiral Boulevard Kansas City, MO 64106 Phone: (816) 595-4860 Web: www.saiaonline.org</p>
<p>ASABE American Society of Agricultural and Biological Engineers 2950 Niles Road Saint Joseph, MI 49085 Phone: (269) 932-7027 Web: www.asabe.org</p>	<p>AWWA American Water Works Association 6666 W. Quincy Ave. Denver, CO 80235 Phone: (303) 347-6178 Web: www.awwa.org</p>	<p>ISA (Organization) International Society of Automation 67 Alexander Drive Research Triangle Park, NC 27709 Phone: (919) 990-9213 Web: www.isa.org</p>	<p>UL Underwriters Laboratories, Inc. 12 Laboratory Dr. Research Triangle Park, NC 27709 Phone: (919) 549-1007 Web: www.ul.com</p>
<p>ASC X9 Accredited Standards Committee X9, Incorporated 275 West Street Suite 107 Annapolis, MD 21401 Phone: (410) 267-7707 Web: www.x9.org</p>	<p>CSA CSA America Standards Inc. 8501 E. Pleasant Valley Road Cleveland, OH 44131 Phone: (216) 524-4990 Web: www.csagroup.org</p>	<p>ITI (INCITS) InterNational Committee for Information Technology Standards 700 K Street NW Suite 600 Washington, DC 20001 Phone: (202) 737-8888 Web: www.incits.org</p>	<p>VITA VMEbus International Trade Association (VITA) 929 W. Portobello Avenue Mesa, AZ 85210 Phone: (602) 281-4497 Web: www.vita.com</p>



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

ANALYSIS OF GASES (TC 158)

ISO/DIS 19230, Gas analysis - Sampling guidelines - 2/7/2020, \$112.00

BUILDING ENVIRONMENT DESIGN (TC 205)

ISO/DIS 52032, Energy performance of buildings - Method for calculation of system energy requirements and system efficiencies - Space distribution systems (DHW, heating and cooling), Module M3 -6, M4-6, M8-6 - 2/13/2020, FREE

CYCLES (TC 149)

ISO/DIS 4210-10.2, Cycles - Safety requirements for bicycles - Part 10: Safety requirements for electrically power assisted cycles (EPACs) - 11/21/2019, \$175.00

DENTISTRY (TC 106)

ISO/DIS 23402-1, Dentistry - Portable dental equipment for use in non-permanent healthcare environment - Part 1: General requirements - 2/8/2020, \$53.00

EARTH-MOVING MACHINERY (TC 127)

ISO/DIS 16417, Earth-moving machinery - Hydraulic Breakers - Terminology and commercial specifications - Terminology and commercial specifications - 2/12/2020, \$53.00

ENVIRONMENTAL MANAGEMENT (TC 207)

ISO/DIS 14091, Adaptation to climate change - Guidelines on vulnerability, impacts and risk assessment - 12/19/2019, \$112.00

EQUIPMENT FOR FIRE PROTECTION AND FIRE FIGHTING (TC 21)

ISO/DIS 7240-13, Fire detection and alarm systems - Part 13: Compatibility assessment of system components - 2/8/2020, \$88.00

FINE BUBBLE TECHNOLOGY (TC 281)

ISO/DIS 20304-1, Fine bubble technology - Water treatment applications - Part 1: Test method for evaluating ozone fine bubble water generating systems by the decolorization of methylene blue - 2/8/2020, FREE

FIRE SAFETY (TC 92)

ISO/DIS 20414, Fire safety engineering - Verification and validation protocol for building fire evacuation models - 2/6/2020, \$146.00

FLOOR COVERINGS (TC 219)

ISO 10874/DAmD1, Resilient, textile and laminate floor coverings - Classification - Amendment 1: Elimination of class 22+ - 2/8/2020, \$29.00

GLASS IN BUILDING (TC 160)

ISO/DIS 12543-1, Glass in building - Laminated glass and laminated safety glass - Part 1: Definitions and description of component parts - 2/12/2020, FREE

ISO/DIS 12543-2, Glass in building - Laminated glass and laminated safety glass - Part 2: Laminated safety glass - 2/12/2020, FREE

ISO/DIS 12543-3, Glass in building - Laminated glass and laminated safety glass - Part 3: Laminated glass - 2/12/2020, FREE

ISO/DIS 12543-4, Glass in building - Laminated glass and laminated safety glass - Part 4: Test methods for durability - 2/12/2020, FREE

ISO/DIS 12543-5, Glass in building - Laminated glass and laminated safety glass - Part 5: Dimensions and edge finishing - 2/12/2020, FREE

ISO/DIS 12543-6, Glass in building - Laminated glass and laminated safety glass - Part 6: Appearance - 2/12/2020, FREE

GRAPHIC TECHNOLOGY (TC 130)

ISO/DIS 22934, Graphic technology - Communication of offset ink properties - 2/8/2020, FREE

ISO/DIS 12647-6, Graphic technology - Process control for the production of half-tone colour separations, proofs and production prints - Part 6: Flexographic printing - 2/8/2020, FREE

IMPLANTS FOR SURGERY (TC 150)

ISO/DIS 16061, Instruments for use in association with non-active surgical implants - General requirements - 2/8/2020, \$62.00

INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)

ISO/DIS 22549-2, Automation systems and integration - Assessment on convergence of informatization and industrialization for industrial enterprises - Part 2: Maturity model and evaluation methodology - 2/12/2020, \$112.00

INTERNAL COMBUSTION ENGINES (TC 70)

ISO/DIS 8528-3, Reciprocating internal combustion engine driven alternating current generating sets - Part 3: Alternating current generators for generating sets - 2/9/2020, FREE

ISO/DIS 11102-1, Reciprocating internal combustion engines - Handle starting equipment - Part 1: Safety requirements and tests - 2/8/2020, FREE

LEARNING SERVICES FOR NON-FORMAL EDUCATION AND TRAINING (TC 232)

ISO/DIS 29991, Language learning services - Requirements - 2/9/2020, \$62.00

OTHER

ISO/DIS 17130, Leather - Physical and mechanical tests - Determination of dimensional change - 2/8/2020, FREE

PAINTS AND VARNISHES (TC 35)

ISO/DIS 3219-1, Rheology - Part 1: General terms and definitions for rotational and oscillatory rheometry - 2/12/2020, FREE

ISO/DIS 3219-2, Rheology - Part 2: General principles of rotational and oscillatory rheometry - 2/12/2020, \$119.00

PLASTICS (TC 61)

ISO/DIS 23976, Plastics - Fast differential scanning calorimetry - Chip calorimetry - 2/9/2020, FREE

ISO/DIS 23977-2, Plastics - Determination of the aerobic biodegradation of plastic materials exposed to seawater - Part 2: Method by measuring the oxygen demand in closed respirometer - 2/12/2020, \$58.00

PLASTICS PIPES, FITTINGS AND VALVES FOR THE TRANSPORT OF FLUIDS (TC 138)

ISO 15494/DAMd1, Plastics piping systems for industrial applications - Polybutene (PB), polyethylene (PE), polyethylene of raised temperature resistance (PE-RT), crosslinked polyethylene (PE-X), polypropylene (PP) - Metric series for specifications for components and the system - Amendment 1 - 2/12/2020, FREE

POWDER METALLURGY (TC 119)

ISO/DIS 28080, Hardmetals - Abrasion tests for hardmetals - 2/8/2020, FREE

RUBBER AND RUBBER PRODUCTS (TC 45)

ISO/DIS 23384, Rubber and plastics hoses and hose assemblies, wire or textile reinforced types with working pressure equal or above 70 MPa (700 bar) - Specification - 2/9/2020, FREE

ISO/DIS 10619-2, Rubber and plastics hoses and tubing - Measurement of flexibility and stiffness - Part 2: Bending tests at sub-ambient temperatures - 2/9/2020, FREE

STEEL (TC 17)

ISO/DIS 630-2, Structural steels - Part 2: Technical delivery conditions for structural steels for general purposes - 2/12/2020, FREE

TEXTILES (TC 38)

ISO/DIS 21765, Textiles - Determination of fabric deformability by forced mechanical distension - 2/9/2020, \$71.00

TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)

ISO/DIS 22172-2, Agricultural machinery and tractors - Repair and maintenance information - Part 2: Vehicle on-board diagnostics - 2/8/2020, FREE

TYRES, RIMS AND VALVES (TC 31)

ISO 3877-4/DAMd1, Tyres, valves and tubes - List of equivalent terms - Part 4: Solid tyres - Amendment 1 - 2/9/2020, \$29.00

ISO/DIS 4250-3, Earth-mover tyres and rims - Part 3: Rims - 2/8/2020, \$62.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 23008-12/DAMd2, Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 12: Image File Format - Amendment 2: Support for predictive image coding, bursts, bracketing, and other improvements - 2/9/2020, \$107.00

ISO/IEC DIS 13888-1, Information technology - Non-repudiation - Part 1: General - 2/13/2020, FREE

ISO/IEC DIS 13888-3, Information technology - Non-repudiation - Part 3: Mechanisms using asymmetric techniques - 2/13/2020, FREE

ISO/IEC DIS 23092-2, Information technology - Genomic information representation - Part 2: Coding of genomic information - 2/9/2020, \$185.00

ISO/IEC DIS 24824-4, Information technology - Generic applications of ASN.1: Cryptographic message syntax - Part 4: - 2/9/2020, FREE

ISO/IEC DIS 19770-11, Information technology - IT asset management - Part 11: Requirements for bodies providing audit and certification of IT asset management systems - 2/9/2020, FREE

IEC Standards

9/2563/FDIS, IEC 62505-3-1 ED2: Railway applications - Fixed installations - Particular requirements for AC switchgear - Part 3-1: Measurement, control and protection devices for specific use in AC traction systems - Devices, 020/1/3/

9/2564/FDIS, IEC 62505-3-2 ED2: Railway applications - Fixed installations - Particular requirements for AC switchgear - Part 3-2: Measurement, control and protection devices for specific use in AC traction systems - Current transformers, 020/1/3/

25/690/FDIS, ISO 80000-8 ED1: Quantities and units - Part 8: Acoustics, 020/1/3/

27/1121/FDIS, IEC 60519-1 ED6: Safety in installations for electroheating and electromagnetic processing - Part 1: General requirements, 020/1/3/

31/1517/FDIS, IEC 60079-6/AMD1 ED4: Amendment 1 - Explosive atmospheres - Part 6: Equipment protection by liquid immersion "o", 020/1/3/

31/1519/CD, IEC 60079-7 ED6: Explosive atmospheres - Part 7: Equipment protection by increased safety "e", 2020/2/14

- 40/2704/CDV, IEC 60384-13 ED5: Fixed capacitors for use in electronic equipment - Part 13: Sectional specification - Fixed polypropylene film dielectric metal foil d.c. capacitors, 2020/2/14
- 45A/1299/FDIS, IEC 62003 ED2: Nuclear power plants - Instrumentation, control and electrical power systems - Requirements for electromagnetic compatibility testing, 020/1/3/
- 46C/1139/NP, PNW 46C-1139 ED1: IEC 62783-1-1 ED1: Twinax cables for digital communications - Part 1-1: Time domain test methods for Twinax cables for digital communications, General Requirements, 2020/2/14
- 48B/2763/CDV, Connectors for electrical and electronic equipment - Product Requirements - Part 2-012: Circular connectors - Detail specification for connectors with inner push-pull locking based on M12 connector interfaces according to IEC 61076-2-101, IEC 61076-2-109, IEC 61076-2-111, and IEC 61076-2-113, 2020/2/14
- 51/1313/CDV, IEC 60401-1 ED2: Terms and nomenclature for cores made of magnetically soft ferrites - Part 1: Terms used for physical irregularities and reference of dimensions, 2020/2/14
- 56/1874/FDIS, IEC 62960 ED1: Dependability reviews during the life cycle, 020/1/3/
- 62B/1157/NP, PNW 62B-1157: Medical electrical equipment - Characteristics of digital X-ray imaging devices - Determination of dual-energy subtraction efficiency and motion artifacts - Detectors used for dual-energy radiographic imaging, 2020/2/14
- 69/700/CD, IEC 62576-2 ED1: Electrical characteristics test methods of EDLC Module for Electric road vehicles, 2020/2/14
- 77C/295/FDIS, IEC 61000-4-36 ED2: Electromagnetic compatibility (EMC) - Part 4-36: Testing and measurement techniques - IEMI immunity test methods for equipment and systems, 020/1/3/
- 82/1647/CD, IEC 63163 ED1: Terrestrial photovoltaic (PV) modules for consumer products - Design qualification and type approval, 2020/2/14
- 82/1646/FDIS, IEC 62852/AMD1 ED1: Amendment 1 - Connectors for DC-application in photovoltaic systems - Safety requirements and tests, 020/1/3/
- 86B/4257/CD, IEC 61300-2-10 ED3: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-10: Tests - Crush and load resistance, 2020/2/14
- 86B/4254/CD, IEC 61753-111-8 ED2: Fibre optic interconnecting devices and passive components - Performance standard - Part 111-8: Sealed closures for Category G - Ground, 2020/1/17
- 86B/4244/CDV, IEC 61300-3-53 ED2: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-53: Examinations and Measurements - Encircled angular flux (EAF) measurement method based on two-dimensional far field data from multimode waveguide (including fibre), 2020/2/14
- 100/3316/CDV, IEC 60268-7/AMD1 ED3: Sound system equipment - Part 7: Headphones and earphones, 2020/2/14
- 113/518/NP, PNW TS 113-518: Nanomanufacturing - Material specification - Part X-X: Nanoporous activated carbon for electrochemical capacitor - Blank detail specification, 2020/2/14
- 116/436/NP, PNW 116-436: Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-5: Particular requirements for grass shears, 2020/2/14
- JTC1-SC25/2932/DTR, ISO/IEC TR 11801-9909 ED1: Information technology □ Generic cabling for customer premises - Part 9909: Evaluation of balanced cabling in support of 25 Gb/s for reach greater than 30 meters, 2020/1/17
- JTC1-SC25/2933/FDIS, ISO/IEC/IEEE 60559 ED2: Floating-Point arithmetic, 2020/1/17



Newly Published ISO & IEC Standards

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

ISO Standards

AIRCRAFT AND SPACE VEHICLES (TC 20)

[ISO 21384-3:2019](#), Unmanned aircraft systems - Part 3: Operational procedures, \$103.00

AUDIT DATA COLLECTION (TC 295)

[ISO 21378:2019](#), Audit data collection, \$232.00

CONCRETE, REINFORCED CONCRETE AND PRE-STRESSED CONCRETE (TC 71)

[ISO 1920-3:2019](#), Testing of concrete - Part 3: Making and curing test specimens, \$138.00

[ISO 20290-2:2019](#), Aggregates for concrete - Test methods for mechanical and physical properties - Part 2: Method for determination of resistance to fragmentation by Los Angeles Test (LA-Test), \$45.00

[ISO 20290-4:2019](#), Aggregates for concrete - Test methods for mechanical and physical properties - Part 4: Determination of ten percent fines value (TFV), \$68.00

EARTH-MOVING MACHINERY (TC 127)

[ISO 5010:2019](#), Earth-moving machinery - Wheeled machines - Steering requirements, \$103.00

FLOOR COVERINGS (TC 219)

[ISO 10874:2009](#), Resilient, textile and laminate floor coverings - Classification, \$45.00

FOOTWEAR (TC 216)

[ISO 19577:2019](#), Footwear - Critical substances potentially present in footwear and footwear components - Determination of Nitrosamines, \$68.00

HYDROGEN ENERGY TECHNOLOGIES (TC 197)

[ISO 19880-5:2019](#), Gaseous hydrogen - Fuelling stations - Part 5: Dispenser hoses and hose assemblies, \$162.00

HYDROMETRIC DETERMINATIONS (TC 113)

[ISO 8368:2019](#), Hydrometric determinations - Flow measurements in open channels using structures - Guidelines for selection of structure, \$138.00

LIFTS, ESCALATORS, PASSENGER CONVEYORS (TC 178)

[ISO 8100-30:2019](#), Lifts for the transport of persons and goods - Part 30: Class I, II, III and VI lifts installation, \$162.00

NUCLEAR ENERGY (TC 85)

[ISO 18589-1:2019](#), Measurement of radioactivity in the environment - Soil - Part 1: General guidelines and definitions, \$103.00

PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)

[ISO 21942:2019](#), Station uniform for firefighters, \$68.00

RAILWAY APPLICATIONS (TC 269)

[ISO 21106:2019](#), Railway applications - Recyclability and recoverability calculation method for rolling stock, \$103.00

ROAD VEHICLES (TC 22)

[ISO 20076:2019](#), Road vehicles - Test methods and performance requirements for voltage class B connectors, \$209.00

SIEVES, SIEVING AND OTHER SIZING METHODS (TC 24)

[ISO 21501-2:2019](#), Determination of particle size distribution - Single particle light interaction methods - Part 2: Light scattering liquid-borne particle counter, \$138.00

[ISO 21501-3:2019](#), Determination of particle size distribution - Single particle light interaction methods - Part 3: Light extinction liquid-borne particle counter, \$103.00

SUSTAINABLE DEVELOPMENT IN COMMUNITIES (TC 268)

[ISO 37105:2019](#), Sustainable cities and communities - Descriptive framework for cities and communities, \$209.00

TECHNICAL DRAWINGS, PRODUCT DEFINITION AND RELATED DOCUMENTATION (TC 10)

[ISO 9957-2:2019](#), Fluid draughting media - Part 2: Water-based non-India ink - Requirements and test conditions, \$68.00

TEXTILES (TC 38)

[ISO 13938-1:2019](#), Textiles - Bursting properties of fabrics - Part 1: Hydraulic method for determination of bursting strength and bursting distension, \$45.00

[ISO 13938-2:2019](#), Textiles - Bursting properties of fabrics - Part 2: Pneumatic method for determination of bursting strength and bursting distension, \$45.00

TYRES, RIMS AND VALVES (TC 31)

[ISO 9413:2019](#), Tyre valves - Dimensions and designation, \$232.00

WATER QUALITY (TC 147)

[ISO 17995:2019](#), Water quality - Detection and enumeration of thermotolerant Campylobacter spp, \$138.00

ISO Guides

OTHER

[ISO Guide 82:2019](#), Guidelines for addressing sustainability in standards, \$138.00

ISO Technical Specifications

CLINICAL LABORATORY TESTING AND IN VITRO DIAGNOSTIC TEST SYSTEMS (TC 212)

[ISO/TS 22583:2019](#), Guidance for supervisors and operators of point-of-care testing (POCT) devices, \$162.00

HEALTH INFORMATICS (TC 215)

[ISO/TS 22773:2019](#), Health Informatics - Categorial structures for the representation of the decocting process in traditional Chinese medicine, \$45.00

ISO/IEC JTC 1, Information Technology

[ISO/IEC 24091:2019](#), Information technology - Power efficiency measurement specification for data center storage, \$209.00

[ISO/IEC 33020:2019](#), Information technology - Process assessment - Process measurement framework for assessment of process capability, \$185.00

[ISO/IEC 30113-12:2019](#), Information technology - User interfaces - Gesture-based interfaces across devices and methods - Part 12: Multi-point gestures for common system actions, \$209.00

IEC Standards**ALL-OR-NOTHING ELECTRICAL RELAYS (TC 94)**

[IEC 61810-1 Amd.1 Ed. 4.0 b:2019](#), Amendment 1 - Electromechanical elementary relays - Part 1: General and safety requirements, \$12.00

[IEC 61810-1 Ed. 4.1 b:2019](#), Electromechanical elementary relays - Part 1: General and safety requirements, \$528.00

DEPENDABILITY (TC 56)

[IEC 61123 Ed. 2.0 b:2019](#), Reliability testing - Compliance test plans for success ratio, \$281.00

ELECTRIC CABLES (TC 20)

[IEC 60754-1 Ed. 3.1 b:2019](#), Test on gases evolved during combustion of materials from cables - Part 1: Determination of the halogen acid gas content, \$235.00

[IEC 60754-1 Amd.1 Ed. 3.0 b:2019](#), Amendment 1 - Test on gases evolved during combustion of materials from cables - Part 1: Determination of the halogen acid gas content, \$23.00

[IEC 60754-2 Amd.1 Ed. 2.0 b:2019](#), Amendment 1 - Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity, \$23.00

[IEC 60754-2 Ed. 2.1 b:2019](#), Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity, \$176.00

[IEC 61034-1 Amd.2 Ed. 3.0 b:2019](#), Amendment 2 - Measurement of smoke density of cables burning under defined conditions - Part 1: Test apparatus, \$12.00

[IEC 61034-1 Ed. 3.2 b:2019](#), Measurement of smoke density of cables burning under defined conditions - Part 1: Test apparatus, \$141.00

[IEC 61034-2 Amd.2 Ed. 3.0 b:2019](#), Amendment 2 - Measurement of smoke density of cables burning under defined conditions - Part 2: Test procedure and requirements, \$12.00

[IEC 61034-2 Ed. 3.2 b:2019](#), Measurement of smoke density of cables burning under defined conditions - Part 2: Test procedure and requirements, \$141.00

ELECTRICAL INSTALLATIONS OF BUILDINGS (TC 64)

[IEC 60364-5-53 Ed. 4.0 b:2019](#), Low-voltage electrical installations - Part 5-53: Selection and erection of electrical equipment - Devices for protection for safety, isolation, switching, control and monitoring, \$352.00

INDUSTRIAL ELECTROHEATING EQUIPMENT (TC 27)

[IEC 63078 Ed. 1.0 b:2019](#), Installations for electroheating and electromagnetic processing - Test methods for induction through-heating installations, \$235.00

SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (TC 61)

[IEC 60335-2-116 Ed. 1.0 b:2019](#), Household and similar electrical appliances - Safety - Part 2-116: Particular requirements for furniture with electrically motorized parts, \$117.00

SEMICONDUCTOR DEVICES (TC 47)

[IEC 62047-35 Ed. 1.0 b:2019](#), Semiconductor devices - Micro-electromechanical devices - Part 35: Test method of electrical characteristics under bending deformation for flexible electro-mechanical devices, \$164.00

[IEC 60747-19-1 Ed. 1.0 en:2019](#), Semiconductor devices - Part 19-1: Smart sensors - Control scheme of smart sensors, \$164.00

IEC Technical Reports**INDUSTRIAL-PROCESS MEASUREMENT AND CONTROL (TC 65)**

[IEC/TR 62829-1 Ed. 1.0 en:2019](#), Chemometrics for process analytical technologies - Part 1: General provisions, and methods for univariate statistics and chemometric processing of data, \$235.00

Proposed Foreign Government Regulations

Call for Comment

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

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

To register for Notify U.S., please visit <http://www.nist.gov/notifyus/>.

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

For further information about the USA TBT Inquiry Point, please visit: <https://www.nist.gov/standardsgov/what-we-do/trade-regulatory-programs/usa-wto-tbt-inquiry-point>

Contact the USA TBT Inquiry Point at:(301) 975-2918; Fax: (301) 926-1559; E-mail: usatbtep@nist.gov or notifyus@nist.gov.

Information Concerning

American National Standards

Call for Members

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 affected 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 categories:

- Service Providers
- Users
- Standards Development Organizations and Consortia
- Academic Institutions

Society of Cable Telecommunications

ANSI Accredited Standards Developer

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 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 a 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 Developers

Approval of Reaccreditation

American Society of Mechanical Engineers (ASME)

ANSI's Executive Standards Council has approved the reaccreditation of the American Society of Mechanical Engineers (ASME), an ANSI Member and Accredited Standards Developer, under its recently revised operating procedures for documenting consensus on ASME-sponsored American National Standards, effective November 22, 2019. For additional information, please contact: Ms. Claire Ramspeck, Managing Director, Standards Development, ASME, Two Park Avenue, 6th Floor, New York, NY 10016-5990; phone: 212.591.7000; e-mail: ramspeckc@asme.org.

Reaccreditation

American Dental Association (ADA)

Comment Deadline: December 30, 2019

The American Dental Association (ADA), an ANSI member and Accredited Standards Developer (ASD), has submitted revisions to its currently accredited operating procedures for documenting consensus on ADA-sponsored American National Standards, under which it was last reaccredited in 2017. As the revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: Mr. Paul Bralower, Manager, Standards, American Dental Association, 211 E. Chicago Avenue, Chicago, IL 60611; phone: 312.587.4129; Email: bralowerp@ada.org. You may view/download a copy of the revisions during the public review period at the following URL: www.ansi.org/accredPR. Please submit any public comments on the revised procedures to ADA by December 30, 2019, with a copy to the ExSC Recording Secretary in ANSI's New York Office (e-mail: Jthomps@ANSI.org).

International Code Council (ICC)

Comment Deadline: December 30, 2019

The International Code Council (ICC), an ANSI member and Accredited Standards Developer, has submitted revisions to its currently accredited operating procedures for documenting consensus on ICC-sponsored American National Standards, under which it was last reaccredited in 2014. As the current revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: Mr. Karl Aittaniemi, P.E., Director of Standards, Codes and Standards Development, International Code Council, Central Regional Office, 4051 Flossmoor Road, Country Club Hills, IL 60478; phone: 888.422.7233, ext. 4205; e-mail: kaittaniemi@iccsafe.org. You may view/download a copy of the revisions during the public review period at the following URL: www.ansi.org/accredPR. Please submit any public comments on the revised procedures to ICC by December 30, 2019, with a copy to the ExSC Recording Secretary in ANSI's New York Office (jthomps@ANSI.org).

International Organization for Standardization (ISO)

New Secretariats

ISO/TC 301 – Energy Management and Energy Savings

Comment Deadline: December 20, 2019

ANSI has requested to delegate the responsibilities of the administration of the ISO/TC 301 secretariat to Georgia Tech Energy & Sustainability Services. The secretariat was previously held by ANSI and the secretariat transfer is supported by the U.S. TAG.

ISO/TC 301 operates under the following scope:

Standardization in the field of energy management and energy savings.

Organizations wishing to comment on the delegation of the responsibilities should contact ANSI's ISO Team (isot@ansi.org).



American National Standards (ANS) – Where to find Procedures, Guidance, Interpretations and More...

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:

- *ANSI Essential Requirements: Due process requirements for American National Standards* (always current edition): www.ansi.org/essentialrequirements
- ANSI Standards Action (weekly public review announcements of proposed ANS and standards developer accreditation applications, listing of recently approved ANS, and proposed revisions to ANS-related procedures): www.ansi.org/standardsaction
- Accreditation information – for potential developers of American National Standards (ANS): www.ansi.org/sdoaccreditation
- ANS Procedures, ExSC Interpretations and Guidance (including a slide deck on how to participate in the ANS process and the BSR-9 form): www.ansi.org/asd
- Lists of ANSI-Accredited Standards Developers (ASDs), Proposed ANS and Approved ANS: www.ansi.org/asd
- American National Standards Key Steps: www.ansi.org/anskeysteps
- American National Standards Value: www.ansi.org/ansvalue
- ANS Web Forms for ANSI-Accredited Standards Developers - PINS, BSR8|108, BSR11, Technical Report: www.ansi.org/PSAWebForms
- Information about standards Incorporated by Reference (IBR): www.ansi.org/ibr
- ANSI - Education and Training: www.standardslearn.org

If you have a question about the ANS process and cannot find the answer quickly, please send an email to psa@ansi.org.

Please also visit Standards Boost Business at www.standardsboostbusiness.org for resources about why standards matter, testimonials, case studies, FAQs and more.

If you are interested in purchasing an American National Standard, please visit <https://webstore.ansi.org/>



American National Standard

An American National Standard implies a consensus of those substantially concerned with its scope and provisions. This American National Standard is intended as a guide to aid the service provider, the consumer, and the general public. The existence of an American National Standard does not in any respect preclude anyone whether approving the Standard or not, from using the processes not conforming to the Standard. American National Standards are subject to periodic review and users are cautioned to obtain the latest editions.

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AMC Institute

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Foreword (This Foreword is not a part of the Standard.)

Members of AMC Institute have developed a Standard of Good Practices for the Association Management Company industry. The purpose of this Standard is two-fold: (1) to collectively enhance management practices across Association Management Companies (AMCs) and (2) to assist AMCs in the establishment of internal quality service systems.

AMCs that conform to the Standard communicate to present and prospective association clients, as well as the marketplace at large, a commitment and ability to deliver the highest quality of services to clients as demonstrated in their performance, policies, and procedures.

Further, AMC Institute offers an AMC Accreditation Program closely linked to this Standard. AMCs that can demonstrate the adoption and good use of internal quality service systems, from policy statements to clearly outlined performance requirements and procedures, are eligible to apply for AMC Institute Accreditation.

AMC Institute will take into consideration the request for appropriate revisions to this Standard. Requested changes will be vetted through AMC Institute Accreditation & Standards Committee and through a public review process per AMC Institute's Standard Developer Procedures and ANSI's Essential Requirement Procedures. AMC Institute's Accreditation & Standards Committee will also review any requests for interpretations or appeals related to the Standard.

The first two sections (Scope and Definitions) are meant as background information to serve as a guide for sections 3 through 12.

1. Scope

- 1.1. This Standard establishes requirements that provide a measurement for practices that are utilized by all sizes and types of Association Management Companies (AMCs) to enhance the performance of the AMC and its staff.
- 1.2. This Standard establishes requirements that each individual AMC is to use to create its own measurable outcomes. An AMC's compliance with this Standard will depend on its adoption and implementation of its own definitions, procedures, and policies as they relate to each element in this Standard.

2. Definitions

- 2.1. Association Management Company (AMC): A for-profit professional service company that manages two or more associations, societies, foundations, or other types of organizations.
- 2.2. Client Team: Employees of an AMC who work together with a particular client or clients.
- 2.3. Performance Policy Statement: A compilation of documents adopted by an AMC containing the procedures it has in place, which will cause it to be in conformance with this Standard.
- 2.4. Performance Service Systems are internal processes (described in sections 3 through 12 of this document) that must be developed, documented, and implemented by an AMC. When these systems are in place, an AMC:
 - 2.4.1. Ensures that a client's needs are identified and the services to be provided by the AMC are agreed upon by the AMC and the client;
 - 2.4.2. Requires regular feedback from clients;
 - 2.4.3. Provides a prompt response to clients' needs and requests;
 - 2.4.4. Establishes a staff personnel training and development program;
 - 2.4.5. Fosters an organizational culture embracing professional performance attributes; and
 - 2.4.6. Controls costs, improves efficiency, and promotes prompt performance of quality services to the client.

3. Client Contracts: Review Procedures and Requirements

- 3.1. AMCs shall maintain written agreements with their clients.
- 3.2. AMCs shall adopt client contract review procedures, which shall ensure that all contractual requirements are acceptable to the client and the AMC before the AMC agrees to provide services to the client. This includes written service commitments ensuring that the service and service delivery processes meet the client's needs and expectations.
- 3.3. AMCs shall adopt and document internal procedures to coordinate the periodic review of client contracts and their amendments.
- 3.4. AMCs shall adopt procedures specifying how client contracts are amended and ensuring that changes in the contract are communicated throughout the AMC organization.
- 3.5. AMCs shall establish transition procedures that at a minimum include the following:
 - 3.5.1. A timetable to include the closing or transferring of all documents, shipment of client materials (in an organized manner, with clearly marked files), and notification to members.
 - 3.5.2. A list of clearly defined responsibilities for current management, volunteer leaders, and new management.
 - 3.5.3. Disclosed fees and charges for agreed upon services that may be rendered during the transition and following termination.
 - 3.5.4. The methodology to be used for timely notification of the change in management to all vendors.
 - 3.5.5. An external, independent, qualified third party (CPA or outside the USA equivalent) shall conduct an asset and liability verification (audit or agreed upon procedures engagement) immediately prior to or immediately after the transfer of financial responsibilities to new management; if a verification is not authorized by the client, this fact shall be recorded in writing.
- 3.6. AMCs shall address in writing, whether in contracts or other documentation, the

respective intellectual property rights (e.g. copyright, trademark, patents) of the client and the AMC including:

- 3.6.1. Materials and software systems developed and customized specifically for the client.
- 3.6.2. Materials and software systems of the AMC adapted for use with the client.

4. Servicing the Clients and Service Delivery Procedure

- 4.1. AMCs shall establish service policies and service delivery systems that include the following characteristics:
 - 4.1.1. Quantity and types of services to be provided;
 - 4.1.2. Competence and knowledge of staff servicing the client;
 - 4.1.3. Service accessibility and availability;
 - 4.1.4. Service speed and accuracy;
 - 4.1.5. Ability to increase and expand services for the client with appropriate staff;
 - 4.1.6. Assurance that the client is the focal point of the policy;
 - 4.1.7. Emphasis on the importance of customer satisfaction;
 - 4.1.8. Provision if an internal communication policy that emphasizes performance of service;
 - 4.1.9. Performance measurement of the service and services delivery processes against established objectives;
 - 4.1.10. Methods to improve performance.
- 4.2. AMCs shall establish responsibilities owed to the client and assign authority to staff for implementation.
- 4.3. AMCs shall establish a system of internal communications including as appropriate, briefings, meetings, memos, email, reports, and telephone conversations with staff on the client team.
- 4.4. AMCs shall establish a system of communication with clients, including staff communication and interaction, reaction to client expectations and comments, and information about the AMC and the services being provided.
- 4.5. AMCs shall establish procedures to correct or prevent failures to perform as they are identified by the client or the AMC.
- 4.6. AMCs shall establish policies and procedures for advising existing clients in the protection of their intellectual property (e.g., copyright, trademark, patents.)
- 4.7. AMCs shall evaluate and develop an internal policy and client policies for external communications, including but not limited to press releases, newsletters, and social media.

5. Evaluation of Services

- 5.1. AMCs shall adopt methods for clients to use to evaluate the performance of AMC services, including methods for measuring client satisfaction, to be conducted at least annually.
- 5.2. AMCs shall adopt an internal measuring system that evaluates service performance.

6. Financial Management and Internal Controls

- 6.1. AMCs shall establish procedures that ensure that the most recent year-end financial statements for each client present fairly, in all material respects, the financial position and changes in net assets, and that cash flows at year-end are in conformity with the generally accepted accounting principles as determined by the American Institute of Certified Public Accountants or corresponding organization¹ for internationally based AMCs, unless otherwise authorized in writing by the client.
- 6.2. AMCs shall establish adequate internal controls, policies, and procedures which are designed to safeguard client assets and facilitate accurate financial reporting.
- 6.3. AMCs shall adopt a written policy that prohibits co-mingling of any and all client assets

¹ International Financial Reporting Standards (IFRS) as defined by the International Accounting Standards Board (IASB), the Generally Accepted Accounting Practice (new UK GAAP) as defined by the Financial Reporting Council (FRC), etc.)

- with AMC or any other client’s assets.
- 6.4. AMCs shall adopt written policies and procedures addressing the acquisition, privacy, integrity, and use of client proceedings, records, and data.
- 6.5. AMCs shall adopt policies to ensure disclosure to clients of all income received from commissions, finder’s fees, and other sources directly attributable or related to such clients.
- 6.6. AMCs shall propose to Client Boards the need for an outside independent review or audit of all financial transactions and records by a qualified third party (CPA or outside the USA equivalent.) The recommendation shall be made in writing.
- 6.7. AMCs shall propose to Client Boards the need for [appropriate insurance coverage for the client association which may include but is not limited to General Liability, Directors & Officers \(D&O\), Errors & Omissions \(E&O, with standard-setting riders as appropriate\), Property, Employee Dishonesty, and Cyber insurance coverage for Association Professional Liability Insurance \(APLI\) to include those component coverages;](#) ~~and Cyber insurance policies;~~ if declined, this fact shall be recorded in writing.

7. Insurance Coverage

~~7.1.~~ AMCs shall have in place a comprehensive insurance program that provides the following minimum ~~coverage for the AMC,~~ where such coverage is available. [For all the policy coverages listed below, reasonable exceptions will be allowed for required coverage minimum amounts that arise from currency conversion issues or any other legitimate business justification. An AMC that does not carry at least the minimum coverage amount noted for any policy must submit a written explanation to justify an exception that details the reasonable business or practical need for the exception \(“Exception Request”\). The reviewer must submit the Exception Request with its report.](#)

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~~7.1.~~

Policy Coverage Type	Minimum Coverage Amount (\$US Dollars) or Recommendation for AMCs to determine amount based on the suggested criteria
7.1.1 Commercial General Liability	\$1,000,000
7.1.2 Property (including property in transit)	Full value of property
7.1.3 Valuable Papers	Full value to reconstruct
7.1.4 Employee Dishonesty	For both AMC and client property and funds under the control of the AMC
7.1.5 Money and Securities	If applicable based on client activities, for both the AMC and client funds under the control of the AMC (-maximum amount of cash on hand, including convention receipts if applicable)
7.1.6 Computer Equipment and Data	Full value of equipment and reconstruction of data
7.1.7 Non -Owned and Hired Auto Liability	\$1,000,000
7.1.8 Worker’s Compensation	Minimum amount based on local regulations
7.1.9 Errors and Omissions	\$1,000,000
7.1.10 Cyber Liability	\$1,000,000

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8. Employee Recruitment and Selection

- 8.1. AMCs shall adopt a procedure for creating, reviewing, and updating employee job descriptions.
- 8.2. AMCs shall adopt procedures for interviewing and assessing candidates for positions within the AMC.
- 8.3. AMCs shall adopt a procedure for exit interviews with departing employees.

9. Employee Training and Professional Development Procedures

- 9.1. AMCs shall adopt an evaluation procedure for all employees covering competencies, performance assessment, and professional development.
- 9.2. AMCs shall provide periodic internal/ external professional development to ensure functions of association management are completed professionally with use of current best practices. These functions include but are not limited to:
 - 9.2.1. Process monitoring and control;
 - 9.2.2. Data collection and analysis;
 - 9.2.3. Performance improvement and corrective action;
 - 9.2.4. Teamwork, interaction, and communication;
 - 9.2.5. Financial management, meetings management, membership development, marketing, non-profit legal issues, and other functions basic to association management and services.

10. Subcontracting and Purchasing Requirements

- 10.1. AMCs shall adopt procedures to ensure that due diligence is exercised when purchasing products or services for clients and that they meet all service requirements.
- 10.2. AMCs shall adopt procedures to ensure that due diligence is exercised when preparing purchase or service orders and bid/quote documents for clients.
- 10.3. AMCs shall adopt procedures that permit the AMC or clients to verify acceptability of products or services purchased.
- 10.4. AMCs shall adopt procedures for evaluating the hiring of subcontractors, including the following:
 - 10.4.1. The subcontractor's service procedures and facilities;
 - 10.4.2. Samples of the subcontractor's products or services;
 - 10.4.3. Customer reference, if available.
- 10.5. AMCs shall adopt procedures to track and record the use of products and services provided by subcontractors and used by the AMC to service clients.
- 10.6. AMCs shall disclose conflicts of interests when contracting or making a purchase for the benefit of the client from related entities (e.g. partnerships, subsidiaries, family members, etc.).

11. Record Keeping Requirements/Continuity of Operations

- 11.1. AMCs shall adopt a records retention policy that identifies and defines the information and records that are to be retained (electronic or hard copy).
- 11.2. AMCs shall adopt procedures to maintain and control a record-keeping system to:
 - 11.2.1. Collect and record information (create records);
 - 11.2.2. File, index, store, and maintain records, both hardcopy and electronic;
 - 11.2.3. Remove, archive, or destroy old records on a predetermined time basis;
 - 11.2.4. Prevent records from being altered without approval of a designated authority;
 - 11.2.5. Safeguard records from damage or deterioration;
 - 11.2.6. Protect records from unauthorized access.
- 11.3. AMCs shall adopt a business continuity plan that will include, at a minimum:
 - 11.3.1. Procedures for the management of electronic back-up of software and electronic records;
 - 11.3.2. Communications to inform staff, members, vendors, etc. about the recovery plan;
 - 11.3.3. Building evacuation plan;
 - 11.3.4. Options for temporary workplaces in the event that the AMC's usual workplaces are not available.

12. Internal Quality Control Requirements

- 12.1. AMCs shall adopt a schedule of internal quality control verification procedures to:
 - 12.1.1. Determine whether performance complies with the AMCs written plans, procedures, and programs;
 - 12.1.2. Validate the effectiveness of the AMC's corrective actions;
 - 12.1.3. Confirm that activities are appropriately planned;
 - 12.1.4. Ensure internal reviewers are independent of the procedures, client, and people being reviewed and external reviewers are recognized independent entities;
 - 12.1.5. Demonstrate that quality control results, corrective actions, and corrective action results and consequences are appropriately recorded;
 - 12.1.6. Verify that quality control conclusions are discussed with the people whose activities and results are being reviewed, and that deficiencies are corrected;
 - 12.1.7. Affirm that copies of quality control reports are kept on file for future reference in accordance with the records retention policy, but for not less than four years.

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

NSF/ANSI/CAN Standard for Drinking Water Additives –

Drinking Water System Components – Health Effects

Table 3.1 – Material-specific analyses

Material type	Required analyses
Pipe/fitting/device materials	
Aluminum	regulated metals ² , aluminum
Aluminum oxide ceramics	regulated metals ² , aluminum
Asphaltic-coated ductile iron	GC/MS ¹ , GC/MS base/neutral scan (specific for carbonyls and non-aromatic hydrocarbons) ¹ volatile organic chemicals (VOCs), regulated metals ² , polynuclear aromatic hydrocarbons (PNAs),), regulated metals², molybdenum, vanadium, manganese
Brass	regulated metals ² , zinc, nickel, bismuth ¹⁵
Carbon graphite non-impregnated	GC/MS ¹ , VOCs, polynuclear hydrocarbons (PNAs), regulated metals ² ,
Carbon graphite (phenol formaldehyde impregnated)	GC/MS ¹ , VOCs, polynuclear hydrocarbons (PNAs), formaldehyde, regulated metals ² .
Carbon Steel	regulated metals ²
Cast Iron	regulated metals ²
Chrome/nickel plating	regulated metals ² , nickel
Concrete	regulated metals ² ,
Copper	regulated metals ²
Ductile iron	regulated metals ²
Galvanized steel	regulated metals ² , zinc, nickel
Magnets	regulated metals ² , M metals ^{14,15}
Nickel based alloys	regulated metals ² , nickel
Platinum	regulated metals ² , platinum
Quartz	regulated metals ²
Ruby or sapphire (natural and synthetic aluminum oxide gemstones)	regulated metals ² , aluminum
Silicon carbide ceramics	regulated metals ² , silicon
Silver	regulated metals ² , silver
Stainless steel	regulated metals ² , nickel

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Material type	Required analyses
Titanium	regulated metals ² , titanium
Tungsten Carbide	regulated metals ² , tungsten
Zirconium oxide ceramics	regulated metals ² , zirconium
Plastic materials	
Acetal (AC)/polyoxymethylene (POM)	GC/MS ¹ , VOCs, regulated metals ^{2,15} , formaldehyde, phenolics (by GC/MS base/acid scan) ⁴ , acetal oligomers (by GC/MS base/acid scan) ¹
Acrylonitrile-butadiene-styrene (ABS) Acrylonitrile-styrene (SAN)	GC/MS ¹ , VOCs, regulated metals ^{2,15} , acrylonitrile, 1,3-butadiene, styrene, regulated metals ² , VOCs, phenolics (by GC/MS base/acid scan) ⁴
Cross linked polyethylene (PEX)	GC/MS ¹ , VOCs, regulated metals ^{2, 15} , phenolics (by GC/MS base/acid scan) ⁴ , methanol, <i>tert</i> -butyl alcohol ³
Nylon 6	caprolactam, GC/MS ¹ , nitrogen containing extractants (by GC/MS base/neutral scan) ¹ , VOCs, regulated metals ^{2,15} , phenolics (by GC/MS base/acid scan) ⁴ , caprolactam.
Other nylons	GC/MS ¹ , nitrogen containing extractants (by GC/MS base/neutral scan) ¹ , VOCs, regulated metals ^{2, 15} , phenolics (by GC/MS base/acid scan) ⁴ , nylon monomers
Polybutylene (PB)	GC/MS ¹ , VOCs, regulated metals ^{2, 15} , phenolics (by GC/MS base/acid scan) ⁴
Polycarbonate (PC)	GC/MS ¹ , Bisphenol A, VOCs, regulated metals ^{2, 15} , phenolics (by GC/MS base/acid scan) ⁴
Polyethylene (PE)	GC/MS ¹ , VOCs, regulated metals ^{2,15} , phenolics (by GC/MS base/acid scan) ⁴
Polyphenylene oxide (PPO)	GC/MS ¹ , dimethyl phenol, VOCs, regulated metals ^{2,15} , phenolics (by GC/MS base/acid scan) ⁴
Polyphthalamide (PPA)	GC/MS ¹ , VOCs, regulated metals ^{2,15} , hexamethylene diamine, terephthalic acid, isophthalic acid, VOCs, regulated metals ² , phenolics (by GC/MS base/acid scan) ⁴
Polypropylene (PP)	GC/MS ¹ , VOCs, regulated metals ^{2,15} , phenolics (by GC/MS base/acid scan) ⁴
Polystyrene	styrene, GC/MS ¹ , VOCs, regulated metals ² , phenolics (by GC/MS base/acid scan) ¹
Polysulphone including poly[phenylene sulphone] (PPSU)	GC/MS ¹ , VOCs, regulated metals ^{2,15} , sulphone monomer, VOCs, regulated metals ² , phenolics (by GC/MS base/acid scan) ⁴
Polyurethane (PUR)	GC/MS ¹ , VOCs, regulated metals ^{2,15} , phenolics (by GC/MS base/acid scan) ⁴
Polyvinyl chloride (PVC) and chlorinated polyvinyl chloride (CPVC)	regulated metals ^{2,15} , phenolics ¹ , VOCs, tin ⁴ , lead, antimony ⁵ , residual vinyl chloride monomer (RVCM) ⁶
Polyvinyl chloride (flexible)	GC/MS ¹ , VOCs, regulated metals ^{2,15} , lead, phenolics (by GC/MS base/acid scan) ⁴ , phthalates ⁷ , RVCM ⁶ , tin ⁴ , zinc ⁸
Joining and sealing materials	
Chloroprene	GC/MS ¹ , VOCs, and 2-chloro-1,3-butadiene, phenolics (by GC/MS base/acid scan) ⁴ , phthalates ⁷ , PNAs ¹ , Nitrosoamines ¹³

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Material type	Required analyses
Ethylene-propylene-diene monomer (EPDM)	GC/MS ¹ , VOCs, phenolics (by GC/MS base/acid scan) ⁴ , phthalates ⁷ , PNAs ¹ , Nitrosoamines ¹³
ETFE (Ethylene tetrafluoroethylene)	GC/MS ¹ , VOCs, perfluorooctanoic acid
Flux	GC/MS ^{1,15} , VOCs, regulated metals ^{2,15} , GC/MS ^{4,15} , VOCs ¹⁵ , PNAs ^{1,15}
Fluoroelastomer	GC/MS ¹ , VOCs, perfluorooctanoic acid
Isoprene	GC/MS ¹ , VOCs, phenolics (by GC/MS base/acid scan) ⁴ , phthalates ⁷ , PNAs ¹ , isoprene monomer, Nitrosoamines ¹³ .
Nitrile-butadiene rubber (NBR, BUNA-N, HNBR)	GC/MS ¹ , VOCs, phenolics (by GC/MS base/acid scan) ⁴ , phthalates ⁷ , PNAs ¹ , 1,3-butadiene, acrylonitrile, Nitrosoamines ¹³
PTFE	GC/MS ¹ , VOCs, perfluorooctanoic acid
PVDF	GC/MS ¹ , VOCs, vinylidene fluoride, hexafluoropropene
Silicone	GC/MS ¹ , VOCs, 2,4-dichlorobenzoic acid
Solder	regulated metals ² , aluminum, bismuth, nickel, silver, strontium, zinc
Solvent cements	GC/MS ¹ , GC/MS (base/neutral/acid scan) ¹⁵ , VOCs ¹⁵ , acetone, tetrahydrofuran, cyclohexanone, methyl ethyl ketone, dimethylformamide, methyl isobutyl ketone
Styrene-butadiene rubber (SBR)	GC/MS ¹ , VOCs, phenolics (by GC/MS base/acid scan) ⁴ , phthalates ⁷ , PNAs ¹ , 1,3-butadiene, styrene, Nitrosoamines ¹³
Barrier materials	
Asphaltic coatings	GC/MS ¹ , VOCs, regulated metals ² , molybdenum, vanadium, manganese, GC/MC base/neutral scan (specific for carbonyls and non-aromatic hydrocarbons) ⁴ , PNAs ¹
Epoxy coatings (liquid and powder)	GC/MS ¹ , VOCs, GC/MC (base/neutral/acid scan), bisphenol A, bisphenol A-diglycidyl ether ^{9,15} , VOCs, bisphenol A-diglycidyl ether ^{9,15} , bisphenol A-propoxylate ^{9,15} , epichlorohydrin, bisphenol F ¹⁵ , bisphenol F-diglycidyl ether ^{9,15} , bisphenol F-diglycidyl ether ^{9,15} , bisphenol F-propoxylate ^{9,15} , solvent and reactive diluent additives ^{10,15}
Polyester coatings	GC/MS ¹ , GC/MC (base/neutral/acid scan), VOCs, residual monomers ¹¹
Polyurethane coatings	GC/MS ¹ , GC/MC (base/neutral/acid scan), VOCs
Portland and hydraulic cements	GC/MS ¹ , regulated metals ² , dioxins and furans, radionuclides, glycols and ethanolamines ¹²

¹ see Annex B, section B.7

² antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, selenium, thallium. Chromium shall be evaluated against the pass/fail criteria of chromium VI as a screening level. If the normalized result exceeds this criteria, the sample shall be tested according to the method described in Section B.7.3 and shall be evaluated against the pass/fail criteria listed in Table D1 for the tested product. Regardless of chromium species, the total chromium pass/fail criteria shall not be exceeded.

³ *tert*-Butyl alcohol analysis is required for PEX materials except those crosslinked via e-beam methodology.

⁴ The analysis for tin is required when tin-based stabilizers are used.

⁵ The analysis for antimony is required when antimony-based stabilizers are used.

⁶ The level of RVCM within the walls of PVC or CPVC products and materials shall be directly determined (Annex B, section B.7).

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Material type	Required analyses
	<p>⁷ The analysis for phthalates is required when phthalate ester plasticizers are used. Analysis shall be for the specific phthalate ester(s) used in the formulation.</p>
	<p>⁸ The analysis for zinc is required when zinc-based stabilizers are used.</p>
	<p>⁹ Analysis shall be performed using liquid chromatography with ultraviolet detection (LC/UV).</p>
	<p>¹⁰ Analysis shall be performed for the specific solvent and reactive diluent additives used in the individual product formulation, such as benzyl alcohol.</p>
	<p>¹¹ Analysis shall be performed for residual concentrations of the specific ester monomers used in the individual product formulation.</p>
	<p>¹² Glycol and ethanolamine analyses shall be performed on cements containing these compounds as grinding aids.</p>
	<p>¹³ Analysis for N-Nitrosodimethylamine, N-Nitrosomethylethylamine, N-Nitrosodiethylamine, N-Nitrosodi-n-propylamine, N-Nitrosopyrrolidine, N-Nitrosomorpholine, N-Nitrosopiperidine, N-Nitrosodi-n-butylamine and N-Nitrosodiphenylamine are required when material is sulfur cured.</p>
	<p>¹⁴Aluminum, antimony, arsenic, barium, beryllium, bismuth, cadmium, cerium, cobalt, chromium, cesium, copper, dysprosium, erbium, europium, gallium, gadolinium, germanium, hafnium, indium, lanthanum, lead, lithium, lutetium, manganese, mercury, molybdenum, niobium, neodymium, nickel, palladium, praseodymium, platinum, rubidium, rhenium, rhodium, ruthenium, samarium, selenium, silver, strontium, tantalum, tellurium, thallium, tin, titanium, tungsten, uranium, vanadium, tungsten, ytterbium, zinc, zirconium. Chromium shall be evaluated against the pass/fail criteria of chromium VI as a screening level. If the normalized result exceeds this criteria, the sample shall be tested according to the method described in section B.7.3 and shall be evaluated against the pass/fail criteria listed in Table D1 for the tested product. Regardless of chromium species, the total chromium pass/fail criteria shall not be exceeded.</p>
	<p>¹⁵ The testing may be waived for a this specific analyte where formulation information indicates that it is not present. In instances where the complete formulation has not been obtained for the material as allowed through Note 1 of 3.2, testing shall include this analyte. The testing may be waived for a specific analyte, where formulation information indicates that it is not present.</p>

Rationale: Revised per recommendation of DWA Task Group on Tables 3.1 and 3.2. Refer to "Rationale for Changes to Standard 61 Table 3.1" under the referenced items for additional information.

BSR/UL 15027-2, Immersion suits — Part 2: Abandonment suits, requirements including safety, UL 15027-2

1. The first edition of the Immersion suits — Part 2: Abandonment suits, requirements including safety, UL 15027-2

PROPOSAL

4.10DV [D2] Modification by revision of Table 3:

Table 3 — Test conditions for the different suit performance levels

	<u>Suit performance level</u>					
	A			B	C	D
	1^a	2^b	3^c			
Duration (hr)	6			4	2	2
Temp (°C)	2			2	5	10
a — CGSB 65.17 b — CGSB 65.16 c — UL 1197, CFR, SOLAS						

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BSR/UL 2683, Standard for Safety for Electric Heating Systems for Floor and Ceiling Installation

1.6 These requirements do not cover the use of electrical heating systems installed in environmental air-handling spaces.

1.7 These requirements do not cover surface burning characteristics performance requirements that may be required by building codes.

4.6 COMBUSTION RESISTANT MATERIAL – A material used and under the conditions anticipated, will not ignite and burn or will add appreciable heat to an ambient fire. A material known to be resistant to ignition and flame spread used in buildings for subfloors, floor coverings, ceilings, and adjacent walls. Includes metal, concrete, masonry, cement board, thinset, floor leveler, etc.

4.24 LOW VOLTAGE – For the purpose of this standard, low voltage is limited to 25 amperes and operates at or below the risk of electric shock voltages. May still present a risk of fire. See RISK OF ELECTRIC SHOCK, 4.35, Table 4.1. See RISK OF FIRE, 4.36.

4.25 LOW VOLTAGE HEATING SYSTEM – See Heating System. Additionally, limited to 25 amperes, operates at or below the risk of electric shock voltage and is intended to be powered by a low voltage supply. The system may be provided with associated controls, protective devices, and installation hardware or materials. The power source may consist of a means for connecting to building supply power, together with a power unit to convert from line voltage to low voltage, or by a direct dc low voltage source (e.g. solar, battery, etc.). Low voltage heating systems may still present a risk of fire. See RISK OF ELECTRIC SHOCK, 4.35, Table 4.1. See RISK OF FIRE, 4.36.

7.10.2 Wire positioning devices (cable ties, zip-ties, fixing devices) shall comply with the Standard for Positioning Devices, UL 1565.

7.11.4 Quick-connect terminals, both connectors and tabs, for use with one or two 22 to 10 AWG copper conductors, having nominal widths of ~~3.52~~ 3.2, 4.8, 5.2, and 6.3 mm (0.110, 0.125, 0.187, 0.205, and 0.250 in), intended for internal wiring connections in appliances, or for the field termination of conductors to the appliance, shall comply with the Standard for Electrical Quick-Connect Terminals, UL 310.

8.1 Electrical parts shall be provided with or within an enclosure that complies with the requirements in ~~meets~~ this section, unless otherwise specified in this Standard.

10.4.1 Heating cables, non-heating leads, and integral components shall meet one of the following:
 a) Have a flame class rating of VW-1 in accordance with the Standard for Electrical Wires, Cables and Flexible Cords, UL 1581; or
 b) Meet the EV-2/VW-1 Flame Test, in accordance with the Standard for Wire and Cable Test Methods, UL 2556.

Exception No. 1: Heating cables, non-heating leads, and integral components that are intended to be embedded in combustion resistant material, or intended to be covered in combustion resistant material and not in contact with combustible materials during installation need not comply with 10.4.1.

Exception No. 2: Heating cables, non-heating leads, and integral components that are intended to be installed inside or under a concrete subfloor need not comply with 10.4.1.

11.1 Heating systems that have optionally been evaluated in accordance with the Standard for Tests for Surface Burning Characteristics of Building Materials, UL 723, can specify the flame spread and/or smoke density ratings in the installation instructions and/or product markings. The following applies to a polymeric material, a nonmetallic enclosure, or a nonmetallic part outside of the enclosure having a projected surface area greater than 0.93 m² (10 ft²) in any single unbroken section, or a single linear dimension greater than 1.83 m (6 ft) in any single unbroken section. This location shall have a maximum flame-spread rating of 200 as determined by the requirements in the Standard for Tests for Surface Burning Characteristics of Building Materials, UL 723.

~~Exception: The flame spread requirements are not required for heating systems installed in either of the following locations:~~

- ~~— a) In unoccupied spaces such as under a subfloor or inside a ceiling; or~~
- ~~— b) Fully embedded within combustion resistant material such as thinset, mortar, concrete, etc.~~

12.1.1 The following heating systems need to be provided with an equipment grounding lead, field wiring terminal, or screw for permanent connection to protective earth ground:

- a) All heating systems, except as indicated under 12.1.2; and
NOTE: Reference; NEC NFPA 70, Section 424.45(F), 424.99(B)(6).
- b) All metal enclosures; and
- c) All dead metal parts that are likely to become energized in the event of a fault, and that exposed to the user or service person, either inside or outside enclosure.

12.1.2 Grounding requirements do not apply to the following heating systems. However, if grounding is provided it shall comply with the requirements in this section.

- a) The low voltage circuit of a low voltage heating system; and
NOTE: Reference; NEC NFPA 70, Section 424.103(B).
- b) Heating system intended to be installed under a concrete subfloor; and
- c) Heating system intended to be installed inside or above a ceiling; and
- d) Heating panel system that is installed under a wood subfloor.

18.1 An electrical connection shall be mechanically secure and shall provide good electrical contact. A soldered connection shall be made mechanically secure before being soldered if breaking or loosening of the connection can result in a risk of fire or of risk electric shock.

Exception: A soldered electrical connection that is fully encapsulated need not be mechanically secured before soldering if the manufacturer has a documented controlled process that will ensure that all of the following are met:

- a) The process ensures the parts to be soldered are held together by an apparatus during soldering; and*
- b) Does not have potential to damage adjacent or supporting insulation materials; and*
- c) Does not result in loose conductor strands; and*
- d) Complies with the maximum connection resistance if specified.*

28.2 The heating system is to be installed in accordance with the manufacturer's installation instructions and operated at the voltage or wattage as determined by the Test Voltage Determination Test, Section 25. Temperatures are to be measured and recorded on the system and surrounding locations at temperature stabilization and shall not exceed the limits specified in Table 28.24.

28.4.2 When a heating system is intended for installation above a concrete subfloor and above a wood floor, the above wood floor test fixture, Annex B, Figure B.1 can be used to represent the concrete subfloor. When a heating system is only intended for installation above a concrete subfloor the concrete floor test fixture, Annex B, Figure B.3 can be used with the system installed based on the installation instructions.

28.5.2 Temperatures on gypsum board and user contacted surfaces are to be measured by means of fine wire thermocouples brazed to 10.3 ± 0.5mm (0.39 ± 0.02 1/64 in) thick circular or square copper plates having a nominal area of 200 477 ± 5.0mm² (0.310-3 ± 0.008 in²).

49.4.2 The safety instructions shall include the following items verbatim or equivalent as applicable. Additional statements related to safety may be added to this list.

IMPORTANT SAFETY INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, AND INJURY TO PERSONS

**READ AND FOLLOW ALL SAFETY INSTRUCTIONS
SAVE THESE INSTRUCTIONS**

This heating system shall be **INSTALLED ONLY** by qualified personnel who are familiar with the construction and operation of the system and the risks involved.

The installation of this heating system **SHALL BE** in accordance with this document and regulations of the authority having jurisdiction including the National Electrical Code (NEC), NFPA 70.

DO NOT USE OR INSTALL this heating system for other than its intended use. ONLY USE materials and accessories as specified in this document.

ENSURE clearances are provided between this heating system and any cabinets nearby the heating system as specified in this document.

This heating system is NOT to be installed under, through, or inside walls.

Inspect and REMOVE damaged or defective heating systems before covering or concealing.

DO NOT penetrate the heated ~~systems~~ surface with nails, screws or similar devices.

ONLY cover this heating system with materials as specified in this document. DO NOT install any other materials on the heated surface due to risk of trapping radiant heat.

DO NOT install in decks near swimming pools, hot tubs and similar installations. ~~spaces.~~

The branch circuit supplying the heating system SHALL BE connected to a circuit having HAVE a Class A Ground-Fault Circuit- Interrupter (GFCI) protection. (For heating systems described under 6.5).

NOTE: Reference; NEC NFPA 70, Section 424.44(E), 424.45(E), 424.99(B)(5).

DO NOT let adjacent heating cables contact or crossover each other. (For heating cable systems that meet the Exception to 51.1.4).

SAVE THESE INSTRUCTIONS

49.8.3 For a heating cable system that employs a series heating element, the installation instructions shall state that the length of heating cable shall not be altered.

Exception: For parallel type heating cables, explanation that the length of heating cable shall only be altered using the splices and methods identified in the manufacturer's installation instructions.

NOTE: Reference; NEC NFPA 70, Section 424.40.

49.8.4 For a heating cable system that employs parallel heating elements, when the length is permitted to be altered in the field ~~the installation instructions can state that the length of heating cable can be altered, the installation instructions shall specify only by using the splices and methods identified in the manufacturer's installation instructions~~ to be used.

49.8.8 For an under or inside concrete subfloor heating system, the installation instructions shall indicate that the non-heating leads shall be protected where they leave the floor by approved conduit, fittings, and/or bushings.

NOTE: Reference; NEC NFPA 70, Section 424.44(C)(D), 424.98(D)(E).

55.1.3 After the tests, the measured voltage drop across the electrical connection between a non-heating conductor (busbar) and carbon element resistance material of the element shall meet 18.102 of IEC 60335-2-96 or of IEC 60335-2-106 and the samples shall not show any damage or pitting.

60.1 A modular flooring heating system need not meet the tests noted in Table 60.1.

69.3.1 The heating system including non-heating leads, heating elements, and integral components shall be subjected to this test. The test shall be performed on one sample, minimum 3 m (9.8 ft) in length for heating cables and non-heating leads; and minimum 30.5 ~~cm~~ (1 ft) for laminate heating elements.

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BSR/UL 127, Standard for Safety for Factory-Built Fireplaces

3.9 Power supplies

3.9.1 A Class 2 power supply shall comply with one of the following:

- a) Standard for Class 2 Power Units, UL 1310; or
- b) Standard for Information Technology Equipment - Safety - Part 1: General Requirements, UL 60950-1, with an output marked "Class 2", or that complies with the limited power source (LPS) requirements and is marked "LPS"; or
- c) Standard for Audio/Video, Information and Communication Technology Equipment – Part 1: Safety Requirements, UL 62368-1, marked "Class 2" or the equivalent.

3.9.2 A non-Class 2 power supply shall comply with one of the following:

- a) Standard for Power Units Other Than Class 2, UL 1012; or
- b) Standard for Information Technology Equipment - Safety - Part 1: General Requirements, UL 60950-1; or
- c) Standard for Audio/Video, Information and Communication Technology Equipment – Part 1: Safety Requirements, UL 62368-1.

3.5.3 Motor and speed controls

3.5.3.1 A control used to start, stop, regulate or control the speed of a motor shall comply with the:

- a) Standard for Solid-State Controls for Appliances, UL 244A;
- b) Standard for Temperature-Indicating and -Regulating Equipment, UL 873;
- c) Standard for Industrial Control Equipment, UL 508;
- d) ~~Standard for Power Conversion Equipment, UL 508C~~ Standard for Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy, UL 61800-5-1.; or
- e) Standard for Automatic Electrical Controls for Household and Similar Use; Part 1: General Requirements, UL 60730-1

44 Motors and Motor Overcurrent (Overload) Protection

44.18 Except as indicated in 44.17, electronically protected motor circuits shall comply with one of the following:

- a) Standard for Tests for Safety-Related Controls Employing Solid-State Devices, UL 991. When the protective electronic circuit is relying upon software as a protective component, it shall comply with the requirements in the Standard for Software in Programmable Components, UL 1998. If software is relied upon to perform a safety function, it shall be considered software Class 1;
- b) Standard for Automatic Electrical Controls for Household and Similar Use; Part 1: General Requirements, UL 60730-1. If software is relied upon to perform a safety function, it shall be considered software Class B; or
- c) ~~Standard for Power Conversion Equipment, UL 508C~~ Standard for Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy, UL 61800-5-1.

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BSR/UL 414, Standard for Safety for Meter Sockets**1. Revision of requirements to include removable connector with integral mounting tang****PROPOSAL****10 Wire-Bending Distance**

10.1 The wire-bending distance provided in equipment for conductors to be installed in the field shall be as specified in:

- a) Table 10.1 for the largest conductor, as specified by the marking in 27.10.4, entering or exiting the enclosure through the wall opposite the opening for wire in the connector or
- b) Table 10.2 for the largest conductor, as specified by the marking, if the conductor does not enter or exit the enclosure through the wall opposite the opening for wire in the connector.

Exception No. 1: For a meter socket not installed in a metering transformer cabinet or interior, the wire-bending distance may be as specified in Table 10.2 for a conductor not larger than 350 kcmil (177 mm²) that enters or exits the enclosure opposite the opening for wire in the connector provided:

- a) The connector is of the lay-in type or removable connector with integral mounting tang, and directly faces the enclosure wall through which the conductor enters or exits or is angled toward the conductor exit in the wall and
- b) The offset, if any, (measured between the center line of the opening for wire in the connector and the center line of the opening in the enclosure) as shown in Figure 10.1 is not greater than 50 percent of the wire-bending distance provided.

The center line of the opening for wire in a connector angled toward the exit in the wall shall intersect the center line of the exit opening at the enclosure wall or external to the enclosure as illustrated by wire terminal G in Figure 10.2.

Exception No. 2: For a meter socket not installed in a metering transformer cabinet or interior, the wire-bending distance may be as specified in Table 10.2 for a conductor not larger than 350 kcmil (177 mm²) that enters or exits the enclosure opposite the opening for wire in the connector provided the terminal is of the lay-in type or removable connector with integral mounting tang, and complies with the limitations specified in Figure 10.2.

Table 10.1

Minimum wire-bending distance at connectors in inches

Wire size,	Wires per terminal (pole) ^a
------------	--

AWG or kcmil	(mm ²)	1		2		3		4 or more	
14 - 10	2.1 - 5.3	Not specified		-	-	-	-	-	-
8	8.4	1-1/2		-	-	-	-	-	-
6 ^b	13.3	2		-	-	-	-	-	-
4 ^b	21.2	3		-	-	-	-	-	-
3 ^b	26.7	3		-	-	-	-	-	-
2 ^b	33.6	3-1/2		-	-	-	-	-	-
1 ^b	42.4	4-1/2		-	-	-	-	-	-
1/0 ^b	53.5	5-1/2		5-1/2		7		-	-
2/0 ^b	67.4	6		6		7-1/2		-	-
3/0 ^b	85.0	6-1/2	(1/2)	6-1/2	(1/2)	8		-	-
4/0 ^b	107	7	(1)	7-1/2	(1-1/2)	8-1/2	(1/2)	-	-
250 ^b	127	8-1/2	(2)	8-1/2	(2)	9	(1)	10	
300 ^b	152	10	(3)	10	(2)	11	(1)	12	
350 ^b	177	12	(3)	12	(3)	13	(3)	14	(2)
400	203	13	(3)	13	(3)	14	(3)	15	(3)
500	253	14	(3)	14	(3)	15	(3)	16	(3)
600	304	15	(3)	16	(3)	18	(3)	19	(3)
700	355	16	(3)	18	(3)	20	(3)	22	(3)
750	380	17	(3)	19	(3)	22	(3)	24	(3)
800	405	18		20		22		24	
900	456	19		22		24		24	
1000	506	20		-		-		-	
1250	633	22		-		-		-	
1500	760	24		-		-		-	
1750	887	24		-		-		-	
2000	1013	24		-		-		-	

^a The wire-bending distance may be reduced by the number of inches shown in parentheses under the following conditions:

1) Lay-in or removable wire connectors receiving one wire each are used (there may be more than one removable wire per terminal) and

2) The removable wire connectors can be removed from their intended location without disturbing structural or electrical parts other than a cover, and can be reinstalled with the conductor in place.

^b See Exception Nos. 1 and 2 to [10.1](#) for conditions in which lay-in type wire or removable connectors may be used in accordance with Table [10.2](#) in meter sockets.

For SI units one inch = 25.4 mm.

Table 10.2

Minimum width of gutter and wire-bending distance in inches (mm) for wires not entering or exiting enclosure opposite connectors

Wire size,		Wires per terminal (pole)									
AWG or kcmil	(mm ²)	1		2		3		4		5	
14 - 10	2.1 - 5.3	Not specified		-	-	-	-	-	-	-	-
8 - 6	8.4 - 13.3	1-1/2	38.1	-	-	-	-	-	-	-	-
4 - 3	21.1 - 26.7	2	50.8	-	-	-	-	-	-	-	-
2	33.6	2-1/2	63.5	-	-	-	-	-	-	-	-
1	42.4	3	76.2	-	-	-	-	-	-	-	-
1/0 - 2/0	53.5 - 67.4	3-1/2	88.9	5	127	7	178	-	-	-	-
3/0 - 4/0	85.0 - 107	4	102	6	152	8	203	-	-	-	-
250	127	4-1/2	114	6	152	8	203	10	254	-	-
300 - 350	152 - 177	5	127	8	203	10	254	12	305	-	-
400 - 500	203 - 253	6	152	8	203	10	254	12	305	14	356
600 - 700	304 - 355	8	203	10	254	12	305	14	356	16	406
750 - 900	380 - 456	8	203	12	305	14	356	16	406	18	457
1000 - 1250	507 - 633	10	254	-	-	-	-	-	-	-	-
1500 - 2000	760 - 1013	12	305	-	-	-	-	-	-	-	-
NOTES											
1 The table includes only those combinations that are likely to be used. Combinations not mentioned may be given further consideration.											
2 The wire-bending distance is to be determined as specified in 10.2 .											
3 See Exception Nos. 1 and 2 to 10.1 for conditions in which lay-in type or removable wire conductors <u>connectors</u> may be used in accordance with this table in meter sockets.											

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BSR/UL 737, Standard for Safety for Fireplace Stoves

3.9 Power supplies

3.9.1 A Class 2 power supply shall comply with one of the following:

- a) Standard for Class 2 Power Units, UL 1310; or
- b) Standard for Information Technology Equipment - Safety - Part 1: General Requirements, UL 60950-1, with an output marked "Class 2", or that complies with the limited power source (LPS) requirements and is marked "LPS"; or
- c) Standard for Audio/Video, Information and Communication Technology Equipment – Part 1: Safety Requirements, UL 62368-1, marked "Class 2" or the equivalent.

3.9.2 A non-Class 2 power supply shall comply with one of the following:

- a) Standard for Power Units Other Than Class 2, UL 1012; or
- b) Standard for Information Technology Equipment - Safety - Part 1: General Requirements, UL 60950-1; or
- c) Standard for Audio/Video, Information and Communication Technology Equipment – Part 1: Safety Requirements, UL 62368-1.

3.5.3 Motor and speed controls

3.5.3.1 A control used to start, stop, regulate or control the speed of a motor shall comply with the:

- a) Standard for Solid-State Controls for Appliances, UL 244A;
- b) Standard for Temperature-Indicating and -Regulating Equipment, UL 873;
- c) Standard for Industrial Control Equipment, UL 508;
- d) ~~Standard for Power Conversion Equipment, UL 508C~~ Standard for Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy, UL 61800-5-1.; or
- e) Standard for Automatic Electrical Controls for Household and Similar Use; Part 1: General Requirements, UL 60730-1

36 Motors and Motor Overcurrent (Overload) Protection

36.18 Except as indicated in 36.17, electronically protected motor circuits shall comply with one of the following:

- a) Standard for Tests for Safety-Related Controls Employing Solid-State Devices, UL 991. When the protective electronic circuit is relying upon software as a protective component, it shall comply with the requirements in the Standard for Software in Programmable Components, UL 1998. If software is relied upon to perform a safety function, it shall be considered software Class 1;
- b) Standard for Automatic Electrical Controls for Household and Similar Use; Part 1: General Requirements, UL 60730-1. If software is relied upon to perform a safety function, it shall be considered software Class B; or
- c) ~~Standard for Power Conversion Equipment, UL 508C~~ Standard for Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy, UL 61800-5-1.

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BSR/UL 1482, Standard for Safety for Solid-Fuel Type Room Heaters

2.9 Power supplies

2.9.1 A Class 2 power supply shall comply with one of the following:

- a) Standard for Class 2 Power Units, UL 1310; or
- b) Standard for Information Technology Equipment - Safety - Part 1: General Requirements, UL 60950-1, with an output marked "Class 2", or that complies with the limited power source (LPS) requirements and is marked "LPS"; or
- c) Standard for Audio/Video, Information and Communication Technology Equipment – Part 1: Safety Requirements, UL 62368-1, marked "Class 2" or the equivalent.

2.9.2 A non-Class 2 power supply shall comply with one of the following:

- a) Standard for Power Units Other Than Class 2, UL 1012; or
- b) Standard for Information Technology Equipment - Safety - Part 1: General Requirements, UL 60950-1; or
- c) Standard for Audio/Video, Information and Communication Technology Equipment – Part 1: Safety Requirements, UL 62368-1.

2.5.3 Motor and speed controls

2.5.3.1 A control used to start, stop, regulate or control the speed of a motor shall comply with the:

- a) Standard for Solid-State Controls for Appliances, UL 244A;
- b) Standard for Temperature-Indicating and -Regulating Equipment, UL 873;
- c) Standard for Industrial Control Equipment, UL 508;
- d) ~~Standard for Power Conversion Equipment, UL 508C~~ Standard for Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy, UL 61800-5-1.; or
- e) Standard for Automatic Electrical Controls for Household and Similar Use; Part 1: General Requirements, UL 60730-1

36 Motors and Motor Overcurrent (Overload) Protection

36.18 Except as indicated in 36.17, electronically protected motor circuits shall comply with one of the following:

- a) Standard for Tests for Safety-Related Controls Employing Solid-State Devices, UL 991. When the protective electronic circuit is relying upon software as a protective component, it shall comply with the requirements in the Standard for Software in Programmable Components, UL 1998. If software is relied upon to perform a safety function, it shall be considered software Class 1;
- b) Standard for Automatic Electrical Controls for Household and Similar Use; Part 1: General Requirements, UL 60730-1. If software is relied upon to perform a safety function, it shall be considered software Class B; or
- c) ~~Standard for Power Conversion Equipment, UL 508C~~ Standard for Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy, UL 61800-5-1.

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BSR/UL 2267, Standard for Fuel Cell Power Systems for Installation in Industrial Electric Trucks

1. Changes to the Proposed Third Edition of UL 2267

PROPOSAL

5A.2 A Type CHG-~~EE~~ CHG-EX fuel cell power system shall also comply with the construction requirements of a Type ~~EE~~ EX truck in accordance with UL 583.

5A.3 A Type CHG-ES fuel cell power system shall also comply with the construction requirements of a Type ES truck in accordance with UL 583.

6.4.2 Hydrogen fuel cell power systems shall be provided with a means for ~~equipotentially~~ equipotential bonding with the fuel dispenser and shall comply with the following:

- a) The impedance shall be less than or equal to 10 Ω ; and
- b) The bonding means shall be identified in the operating instructions in accordance with Section 43, Operating Instructions.

NOTE: ~~Bonding~~ This bonding may be accomplished via the refueling receptacle.

20.3 A Type CHG-EE fuel cell power system shall also comply with the performance requirements of a Type ~~EE~~ truck CHG-E fuel cell power system in accordance with ~~UL 583 20.1 and 20.2.~~

20.4 A Type CHG-ES fuel cell power system shall also comply with the additional performance requirements of a Type ES truck in accordance with the following requirements of UL 583:

- a) The requirements in TYPE ES TRUCKS - PERFORMANCE - General, regarding cotton to be placed around components likely to cause sparks or emit molten metal; and
- b) The requirements in TYPE ES TRUCKS - PERFORMANCE - General, for solid-state speed controls.

20.5 A Type CHG-EX fuel cell power system for Class I locations shall also comply with the additional performance requirements of a Type EX truck in accordance with the following requirements of UL 583:

- a) Requirements for explosion-proof electrical components;
- b) Requirements for intrinsically safe electrical components; and
- c) Requirements for maximum operating temperatures on electrical components.

20.6 A Type CHG-EX fuel cell power system for Class II, Group G locations shall also comply with the performance requirements of a Type EX truck in accordance with the following requirements of UL 583:

- a) Requirements for dust-ignition-proof electrical components;
- b) Requirements for intrinsically safe electrical components; and
- c) Requirements for maximum operating temperatures on electrical components.

44.5 Installation instructions for self-contained fuel cell systems marked in accordance with 40.14 shall indicate that the systems shall not be installed on trucks unless an assessment has been done to determine that the truck will not present a hazard upon loss of power. See 17.5 before installing the system.

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BSR/UL 8750, Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products

1. For Preliminary Review Only: Revision of requirements for SUPPLEMENT SF - LED EQUIPMENT WITH WIRED CONTROL CIRCUITS

PROPOSAL

SF3 Separation of Circuits

- SF3.1 The control circuit shall be spaced or isolated from other circuits of the LED equipment as follows:
- Control circuit lead wires, terminals, and wire connectors shall comply with the requirements for Separation of Circuits, Section 7.5,
 - PWB spacings between the control circuit and other circuits of the LED equipment shall comply with 7.8.2,
 - Components that bridge between the control circuit and other circuits of the LED equipment shall comply with 7.9.2, and
 - Isolation transformers located between the control circuit and other circuits of the LED equipment shall comply with the requirements for Coil Insulation, Section 7.11.

Exception 1: The requirements in SF3.1 do not apply when:

- The control circuit does not exit the lighting equipment (i.e. the control circuit is internal to a fire/electrical enclosure),*
- Risks of fire and shock concerns due to interposed circuits between different components of the lighting equipment are addressed by circuit analysis, component abnormal tests, or both,*
- The required isolation for Isolated, Class 2, or LVLE power circuits is not compromised,*
- The control circuit is marked per SF8.4, and*
- The installation instructions include related information described in SF8.5.*

Exception 2: The requirements in SF3.1 do not apply between the control circuit and output power circuit when:

- The output power circuit is Class 2,*
- The control circuit has been evaluated as a Class 2 circuit, or it is intended for connection to an external Class 2 supply,*
- Circuit analysis and/or component abnormal testing is conducted to ensure that interconnection of these two circuits will not result in output levels (voltage, current, power) that exceed Class 2 limits in either circuit.*
- Other required isolation for Isolated, Class 2, or LVLE power circuits is not compromised, and*
- The installation instructions include related information described in SF8.5.*

SF8.5 LED equipment installation instructions shall include:

- A description of the electrical characteristics of the control circuit,
- The intended function of the control circuit,
- Details of product markings described in Markings, Section SF8, and
- The manufacturer's recommendations for proper installation of the control circuit (e.g., acceptable system wiring configurations, considerations for load distribution, ~~cumulative control circuits leakage currents~~, acceptability of the control circuit to exit the luminaire, acceptable control and sense devices that can be integrated with the control circuit, etc.).
- The manufacturer's recommendation to assure a cumulative leakage current of less than 3.5mA on the control circuit.

2. For Preliminary Review Only: Correction to reference in Table 7.6

PROPOSAL

Table 7.6

Bridging capacitor

Capacitor subclass according to the Standard for Safety Requirements for Fixed Capacitors for Use in Electronic Equipment - Part 14: Sectional Specification: Fixed Capacitors for Electromagnetic Interference Suppression and Connection to the Supply Mains, UL 60384-14	Rated voltage of the capacitor
	V rms
Y1	Up to and including 500V
Y2	Over 150V up to and including 300V
Y4	Up to and including 150V
Rules for the application of Table 7.7 7.6:	
1) The voltage rating of the capacitor shall be equal to the RMS working voltage across the insulation being bridged.	
2) It is permitted to use a higher grade capacitor than the one specified, as follows:	
- Subclass Y1 if subclass Y2 is specified;	
- Subclass Y1 or Y2 if subclass Y4 is specified.	
3) It is permitted to use two or more capacitors in series in place of the single capacitor specified, as follows:	
- Subclass Y1 or Y2 if subclass Y1 is specified;	
- Subclass Y2 or Y4 if subclass Y2 is specified;	
- Voltage rating of each individual capacitor must be equal to or greater than the RMS working voltage of insulation being bridged.	

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